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ANNEXES

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

Submitted to:



Environmental Management Bureau
Central Office



May 2023



ANNEX A

Proof of Authority over the Project Site

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija



Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE
Region III, Poblacion West, Science City of Munoz, Nueva Ecija
Tel. No. (044) 456 0712
E-mail Address: cenromunoz@yahoo.com.ph

23 November 2020

MEMORANDUM

FOR : The PENR Officer
DENR, Nueva Ecija

ATTN : The OIC Chief
Technical Services

THRU : The CENR Officer
DENR CENRO Munoz

FROM : The Assistant PASu
Pantabangan Carranglan Watershed Forest Reserve (PCWFR)

SUBJECT : **RESOLUTION NO. 13 SERIES OF 2020 OF PCWFR-PAMB ENTITLED "ISANG KAPASYAHANG NAGBIBIGAY PAHINTULOT SA DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) ROAD MANAGEMENT CLUSTER I NA MAGSAGAWA NG FEASIBILITY STUDY SA KANILANG PROYEKTONG DALTON PASS EAST ALTERNATIVE ROAD PROJECT SA LOOB NG PINANGANGALAGAANG POOK NG PCWFR.**

DOCUMENT ATTACHED :

1. PAMB Resolution No. 13 S. 2020
2. Minutes of meeting
3. Letter request of DPWH Cluster I Project Director
4. Notice of meeting
5. Attendance
6. Photo documentation

REFERENCE/BACKGROUND

On 21 September 2020, Project Director Virgillo C. Castillo forwarded a letter addressed to Regional Executive Director Paquito T. Moreno Jr. requesting the presentation of DPWH's proposal to conduct *Feasibility Study* on the proposed construction of "Dalton Pass East Alternative Road Project" to the Protected Area Management Board (PAMB) of Pantabangan-Carranglan Watershed Forest Reserve (PCWFR). However, it was also mentioned that the proposed project has issues - as it will pass through some portions of Strict Protection Zone (SPZ) of PCWFR, and the Forestland Management Project of DENR, and requesting for possible exclusion of its project's right of way from PCWFR's proposed management zoning as SPZ. The proposed Dalton Pass Alternative Road Project is one of the flagship projects envisioned to be implemented under the Build-Build-Build program of the current Administration. It is intended to serve as an alternate route to the existing Dalton Pass Section of the Pan Philippine Highway in

the event of road closure brought about by calamities/natural disasters such as typhoon and earthquakes.

Recognizing the importance of having an alternate route, Japan International Cooperation Agency (JICA) provided assistance and started the conduct of preparatory survey/feasibility study (FS) in October 2019. However, JICA raised some issues on the on-going study of proposed project alignment, namely: 1). It will traverse portions of PCWFR's Strict Protection Zone (SPZ); and, 2). It will overlap/affect about four (4) hectares area of Forestland Management Project (FMP) which is being funded through Japanese ODA Loan.

On 08 July 2020, DPWH and the DENR Regional Office 3 had a meeting to clarify the aforementioned issues and come up with appropriate measures. JICA requested DPWH to provide legal opinion if it is legally allowed to implement the project that will traverse the PCWFR's Strict Protection Zone. DPWH pointed out and explained to JICA that the "identified SPZ is not yet officially declared and completely delineated since PCWFR is still an initial component and Protected Area Management Plan is not yet approved and adopted by the PAMB". Unfortunately, JICA remained unsatisfied to resume the preparatory survey/feasibility study. Hence, DPWH decided to request a meeting with the PCWFR-PAMB on November 10, 2020.

COMMENTS/RECOMMENDATIONS

During the meeting, the DPWH highlighted the significance of the project and the realization of the Dalton Pass East Alternative Road Project that will ensure fast, continuous and safer connectivity and transport of people, goods and services from Region II to III, and eventually boost the Philippine's economic growth. The Board recognizes the importance of the project and has no objection on the conduct of *Feasibility Study* so that DPWH can proceed on the processing of its Environmental Compliance Certificate (ECC). With regard to the request of DPWH to exclude the proposed site for the construction of tunnel in management zoning as SPZ, the Board recommended the conduct of ground validation/assessment and inventory of affected trees and wildlife with assistance from DPWH. Hence, PAMB member Nicasio Gatchalian motioned to endorse the granting of clearance provided that the result of Environmental Impact Assessment (EIA) will be presented to PCWFR-PAMB before implementing the construction. The motion was seconded by PAMB member Eduardo Bala.

Foregoing considered; the Board unanimously endorsed the approval of Resolution No. 13 series of 2020.

For endorsement and approval of the Regional Executive Director/PAMB Chair.


ALFREDO C. KIMAYONG

**Republika ng Pilipinas
LALAWIGAN NG NUEVA ECIJA
Lungsod Agham ng Muñoz, Nueva Ecija**

**TANGGAPAN NG PROTECTED AREA MANAGEMENT BOARD
PANTABANGAN CARRANGLAN WATERSHED FOREST RESERVE**

KIMIS SA KATITIKAN NG NATATANGING PAGPUPULONG NG PROTECTED AREA MANAGEMENT BOARD (PAMB) NG PANTABANGAN WATERSHED FOREST RESERVE (PCWFR) NA GINANAP SA HOTEL FRANCESCO, BARANGAY MALASIN, SAN JOSE CITY, NUEVA ECIJA NGAYONG IKA-10 NG NOBYEMBRE TAONG 2020, SA GANAP NA IKA-9:00 NG UMAGA.

Tagapagpadaloy: **ENGR. PAQUITO T. MORENO JR.**

KAPASYAHAN BILANG. 13, SERYE 2020

ISANG KAPASIYAHANG NAGBIBIGAY PAHINTULOT SA DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) ROAD MANAGEMENT CLUSTER I NA MAGSAGAWA NG FEASIBILITY STUDY SA KANILANG PROYEKTONG DALTON PASS EAST ALTERNATIVE ROAD PROJECT NA NASA LOOB NG PINANGANGALAGAANG POOK NG PCWFR.

YAYAMANG, ang PCWFR-PAMB ay binuo upang mangasiwa at magpasiya sa pangangalaga ng nasabing pinangangalagaang pook batay sa Batas Republika Blg. 7586 ng 1992, na siyang inamyendahan ng Batas Republika Blg. 11038 o kilala rin bilang *Expanded National Integrated Protected Area System (ENIPAS) Act* of 2018.

YAYAMANG, batay sa RA 7586, NIPAS Act of 1992 na inamyendahan ng RA 11038 (ENIPAS) Act., Section 11-A ng *Implementing Rules and Regulation (IRR)* o DAO 2019-05, ang PAMB ay inatasan na gumawa ng mga polisiya, kasunduan, pagpapalano at mga programa para sa pangangasiwa at pangangalaga ng pinangangalagaang pook ng PCWFR;

YAYAMANG, batay sa Rule Blg. 21, paragraph 21.8 ng NIPAS Act 7586 ang pagtatayo at pagmimintina ng anumang mga estruktura, bakod o pagsasagawa ng anumang negosyo o business enterprise sa loob ng pinangangalagaang pook ay kinakailangang humingi ng kaukulang pahintulot sa PAMB;

YAYAMANG, noong ika-21 ng Oktubre, taong kasalukuyan, ang tanggapan ng *DPWH Central Office, Roads Management Cluster I*, kasama ang *Japan International Cooperation Agency (JICA)*, na siyang nagpondo ng Preparatory Survey/Feasibility Study ay dumulog sa tanggapan ng DENR-Region III upang ipaalam ang kanilang proyekto at makakuha ng kaukulang permiso sa pagsasagawa ng *Feasibility Study* kasama ang kahilingang hindi maisama sa maidedeklarang *Strict Protection Zone (SPZ)* ang gagawing *tunnel* para sa proyektong *Dalton Pass East Alternative Road Project* upang maisagawa ang proyekto;

YAYAMANG, ang nasabing proyekto ng DPWH base sa lokasyon ng proyekto, ay nakapaloob sa pinangangalagaang pook ng PCWFR na kinabibilangan ng mga apektadong barangay ng Bunga, Salazar, Carranglan, Nueva Ecija at barangay Canabuan, ng Sta. Fe at Aritao, Nueva Vizcaya ay tinatayang babagtas sa SPZ at may maaapektuhang area ng Forestland Management Project (FMP) at dahil kinikilala ng DPWH ang kapangyarihan ng PAMB sa pamamahala at pangangalaga ng PCWFR, kung kaya't sila ay humiling sa PCWFR-PAMB na magkaroon ng pagpupulong upang ipaalam ang layunin ng proyekto, scope of works at ang isasagawang *feasibility study*;

YAYAMANG, ngayong ika-10 ng Nobyembre 2020, ipinaliwanag ng DPWH ang naturang proyekto sa kapulungan ng PAMB, partikular ang pakinabang ng proyekto sa mas nakakaraming *commuter* dahil sa madalas na pagsasara ng Dalton Pass na siyang tanging nag-uugnay sa Region I at Region III at ninais nila na makuha ang pag-sangayon ng PAMB sa isasagawang *feasibility study* kasama na ang konstruksiyon ng proyekto;

YAYAMANG, ang nasabing SPZ na tinatayang babagtasin ng proyekto ay hindi pa *actual delineated* sa ground kung kaya't hiniling na maisagawa na muna ang *ground validation* sa *proposed alignment* at mailahad sa PAMB ang resulta ng isasagawang *feasibility study* kasama ang *Environmetal Impact Assessment (EIA)* na kinakailangan para sa pagkuha ng *Environmental Compliance Certificate (ECC)*;

YAYAMANG, matapos masagot ang mga katanungan, at mabigyang linaw ang mga kuro-kuro, nabatid ng PAMB na ang panukalang inilahad ng DPWH ay mahalaga at kapakipakinabang sa mamamayan ng bansa kung kaya't ang PCWFR-PAMB ay nagbibigay ng pahintulot na maisagawa ang *feasibililty study* at maisagawa ang *ground delineation* upang matukoy kung ang nasabing gagawing konstruksiyon ng *tunnel* ay maaaring hindi maisama sa maideklarang *Strict Protection Zone* ng pinangangalagaang pook ng PCWFR habang kasalukuyan pa lang isinasagawa ang *delineation* at wala pang opisyal na *management zoning* ang PCWFR;

DAHIL DITO, sa mungkahi ni Kgg. PAMB member **NICASIO GATCHALIAN** na pinangalawahan ni Kgg. PAMB member **EDUARDO BALA** at sinang-ayunan ng lahat ang panukala na ***Dalton Pass East Alternative Road Project*** ng DPWH, Roads Management Cluster I kalakip ang kondisyon sa itaas.

BUONG PAGKAKAISANG PINAGTIBAY NG PCWFR-PAMB ANG KAPASYAHANG ITO BILANG 13 SERYE NG 2020 NGAYONG IKA-10 NG NOBYEMBRE TAONG 2020.

PINATUTUNAYAN ANG KATUMPAKAN NG KATITIKAN NG DALAWANG (2) PAHINANG KAPASYAHANG ITO NA SINIPI MULA SA ITAAS AT PINAGTITIBAY.

KAPASYAHAN BILANG 13, SERYE 2020

Ginawa ni:

JOSELITO M. BLANCO, DPA
PENR Officer/PASu-PCWFR

Sinang-ayunan ni:

ENGR. PAQUITO T. MORENO, JR., CESO III
Regional Executive Director, DENR
PAMB Chairperson

**KATITIKAN NG PAGPUPULONG NG
PROTECTED AREA MANAGEMENT BOARD**

1. Name of Protected Area : Pantabangan Carranglan Watershed Forest Reserve (PCWFR)
2. Date/Time : November 10, 2020/09:00 am
3. Venue : Hotel Francesko, Barangay Malasin, San Jose City, Nueva Ecija

Paksa	Buod ng Talakayan	Napagkasunduang Gagawin	Grupo/ Taong Gagawa	Puna
Opening Prayer	Nagsimula ang pagpupulong sa panalangin na pinangunahan ni G. Apollo Manuel, kinatawan ng Office of the Governor, Province of Nueva Ecija,			
Welcome Remarks	<p>Binati at ipinakilala ni PENR Officer, Joselito M. Blanco ang mga dumalo (PAMB members) at ipinakilala sina 1) Assistant Secretary for Climate Change and Concurrent Biodiversity Management Bureau (BMB) Director, Ricardo Calderon, 2) DENR Regional Executive Director at PAMB Chairperson, Engr. Paquito T. Moreno Jr., 3) CENR Officer, Florencio J. Lalu, 4) Technical Services Division Chief, Cherica Ruby Claudio, 4) BMB Technical personnel, Meriden Maranan at Reneo Vicente 5) DPWH staff and personnel na maglalahad ng kanilang <i>project proposal</i>, at iba pa.</p> <p>Binanggit din niya ang kahalagahan ng proyekto na siyang mag-uugnay sa dalawang probinsiya na palagiang apektado sa pagsasara ng Dalton Pass sanhi ng pag-guho ng lupa lalo na sa panahon ng tag-ulan.</p>			
Message	Hiniling ni PENR Officer Joselito Blanco na magbigay ng inspirational <i>message</i> si Assistant Secretary on Climate Change at BMB Director Ricardo Calderon. At ito naman ay agad niyang pinaunlakan. Ayon sa kanya			

	<p>ang tanggapan ng BMB ay nakahandang magbigay ng gabay <i>inputs/enlightenment</i> sa gagawing <i>decision</i> ng PAMB.</p> <p>Sinundan ito ng mensahe mula kay Engr. Paquito T. Moreno, Jr. (RED/PAMB Chair). Pinuri niya ang mga lumahok sa pagpupulong at pinasalamatan ang PAMB Secretariat lalo na ang pagdalo ni Asst. Secretary/BMB Director Ricardo Calderon na malaking tulong sa pagbibigay ng karagdagang karunungan at gabay patungkol sa <i>forestry</i> at <i>environmental</i> policies.</p>			
<p>Roll-call of PAMB member and Acknowledgement of Participants</p>	<p>Pinangunahan naman ni PENR Officer/PASu Joselito Blanco ang pagpapakilala sa mga miyembro ng PAMB na nakadalo sa pagpupulong, gayundin ang mga nakadalo <i>via online</i>.</p> <p>May tatlumpu (30) sa limangput-siyam (59) na miyembro ng PAMB ang nakadalo sa pagpupulong.</p> <p>Dahil may sapat na bilang ang PAMB hiniling ni Presiding Officer PAMB Chairman/RED Paquito T. Moreno, Jr. ang kinatawan ng DPWH upang ilahad ang kanilang panukala.</p>			
<p>AGENDA: Presentation of Dalton Pass East Alternative Road Project.</p>	<p>Iprinesenta ni Project Manager III, Benjamin Bautista ang <i>background</i> at <i>scope</i> ng proyektong isasagawa. Ipinabatid niya na ang layunin ng kanilang gagawing presentasyon ay upang makakuha ng approval sa kanilang isasagawang <i>Feasibility Study</i> (FS) at pagkatapos nito ay ang pagsasagawa naman ng konstruksyon. Ayon sa kanya ang proyektong <i>Dalton Pass East Alternative Road Project</i> ay isa (1) sa isang daan (100) <i>priority projects</i> ni Presidente, Rodrigo Duterte. Ang proyektong ito ay sinimulan</p>			

<p>nang pinag-aralan simula pa noong taong 1970. Kaya naipanakula ang proyektong ito ay dahil sa naganap na lindol noong 1991 na nagdulot ng pagsasara ng Dalton Pass at ang tanging <i>alternative route</i> patungo ng Manila ay sa pamamagitan ng Patapat Viaduct. Kaya napakahirap para sa Region II at Region III na mai-transport ang kanilang produkto dahil na rin sa madalas na pagsasara ng Dalton Pass sanhi ng <i>landslide</i> na dulot ng bagyo at lindol, kung kaya't marami ang <i>stranded commuter</i>. Ang Dalton Pass ang tanging <i>arterial road</i> na kumukonekta patungo ng Metro Manila at Central/Northern Luzon.</p> <p>Dahil dito, ang DPWH ay humiling sa gobyerno ng Japan na mapondohan ang konstruksiyon ng isang <i>By Pass Road (Dalton Pass East Alternative Road)</i> na magsisilbing <i>alternate route</i> ng kasalukuyang Dalton Pass at direktang mag-kukunekta sa Cagayan Valley Region at Eastern part ng Central Luzon Region patungong National Capital Region. Ang proyektong ito ay magdudulot ng mabilis, mas ligtas at <i>continuous transport</i> ng mga produkto na magbubunga ng paglago ng ekonomiya. Ang proyekto ay may layong 23kms (Japanese ODA funded) at ang proyekto ay isasagawa sa pamamagitan ng <i>construction ng road tunnels</i>. Ang <i>proposed alignment</i> nito ay mula sa barangay Bunga hanggang barangay Canabuan, Sta. Fe, Nueva Vizcaya na nakapaloob sa pinangangalagaang pook ng PCWFR. Base sa nasabing <i>alignment</i> ang konstruksiyon ng gagawing <i>tunnel</i> ay babagtas sa itinuturing na <i>Strict Protection Zone (SPZ)</i> kaya ninais ng JICA na maisang-guni ito sa PCWFR-PAMB para sa <i>issuance</i> ng <i>PAMB Clearance</i> na</p>			
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<p>Deliberation (Konsultasyon)/Open Forum</p>	<p>kinakailangan sa pagsasagawa ng FS. Bukod dito inaasahan din ang pagsasagawa/pagsusumite ng <i>Environmental Impact Statement (EIS)</i> para sa pagkuha ng Environmental Compliance Certificate (ECC).</p> <p>At dahil ang proyekto ay nasa loob ng pinangangalagaang pook base sa Section 9 Rule 9.5 ng RA 7586 NIPAS Act of 1992 as amended by RA 11038 ENIPAS at ng IRR nito (DAO 2019-05) may management zoning na pinapairal sa bawat pinapangalagaang pook upang mas mapangalagaan ito. Kaya ang pinangangalagaang pook ay nahahati sa dalawa (2) <i>Strict Protection Zone (SPZ)</i> at <i>Multiple Use Zone (MUZ)</i>.</p> <p>At dahil sa <i>projection</i> (base sa mapa) ng <i>Forestland Management Project (FMP)</i> na <i>funded</i> ng Japan International Cooperation Agency (JICA) lumalabas na ang proyekto ay nasa SPZ Kaya nais ng JICA na alamin kung may legal din na basehan para maisakatuparan ang proyekto at kung gaano kalaki ang dulot nito sa <i>reforestation project</i> ng FMP.</p> <p>Pagkatapos ng presentation hinikayat ni PAMB Chair Paquito T. Moreno ang kapulungan na magbahagi ng katanungan at komento patungkol sa naturang proyekto. Nilinaw niya kay Project Manager, Benjamin Bautista kung ang isasagawang FS ay kasabay na rin sa pagsasagawa ng <i>Environmental Impact Assessment (EIA)</i> para sa pagsumite ng Environmental Impact Statement (EIS) na kinakailangan sa pagkuha ng ECC.</p> <p>Ito naman ay agad na tinugon ni PM Bautista na kasama na rin sa proseso na isasagawa at ipinakita nito ang <i>Draft</i></p>		
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<p><i>Scoping ng Environmental at Social Consideration.</i></p> <p>Nilinaw din ni PAMB member Nicasio Gatchalian na ang hinihinging approval sa pamamagitan ng <i>PAMB Clearance</i> ay ang pagbibigay ng pahintulot sa pagsasagawa ng FS.</p> <p>Ayon naman kay PM Bautista ang isasagawang EIA ay para sa issuance ng ECC at kapag may ECC na maaari ng maisakatuparan ang konstruksiyon ng proyekto. Maari naman na maipresenta ang resulta ng EIA sa PAMB upang malaman ang mga maaapektuhang puno at mga <i>wildlife</i>.</p> <p>Binanggit naman ni PAMB Chair Paquito T. Moreno na sa kanyang karanasan bilang dating EMB Director ng Region I ang mga <i>government development projects</i> ay kadalasang binibigyan ng ECC pero ang mga <i>issues</i> na pwedeng mangyari patungkol sa <i>environment</i> ay binibigyan din ng napakaraming mga <i>conditionalities</i>. Pangalawa palagi din binibigyan diin ang prinsipyo sa pagbibigay ng ECC na ang <i>guided question</i> palagi ay kung ang proyekto ba ay mas malaki ang pakinabang kaysa sa maidudulot na <i>negative impact</i> nito? At part ng proseso sa paggawa ng ECC ang tinatawag na <i>scoping</i> na kung saan tinutukoy ang mga <i>issues at stakeholders</i> na dapat makonsulta.</p> <p>Tinanong naman ni PAMB member Apollo Manuel kung anu ano ang mga <i>specific activities</i> na isasagawa sa FS.</p> <p>Sinagot naman ni PM Bautista at ipinakita ang naipresentang <i>Draft Scoping</i>. Ayon sa kanya ang pagsasagawa ng EIA ay pinondohan din ng JICA at ito ay isinasagawa ng <i>JICA Study Team</i>.</p>			
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	<p>Ipinaliwanag naman ni Lalaine Capulong ng DPWH-RMCI UPMO Manila na ang anumang <i>Development Project</i> ay talagang nagse-secure ng ECC at dahil ang proyekto ay nasa pinangangalagaang pook kinakailangan din humingi ng <i>confirmation</i> mula sa PAMB ang DPWH kung papayagan ba ng PAMB ang konstruksiyon ng proyekto.</p> <p>Binanggit ni Chief National Park Division ng BMB Meriden Maranan na ang pagdedeklara ng isang SPZ sa pinangagalagaang pook ay base sa BMB Technical Bulletin at hindi dahil nai-identify ito ng FMP. Ang <i>technical quidelines</i> ng BMB ang indicative o magsasabi kung ito nga ay SPZ. Dahil ang <i>authority, administration, at supervision</i> ng pinangangalagaang pook ay nasa BMB. Sa ngayon kasalukuyang kinukuha ng tanggapan ang mapa na naisumite sa ginawang PCWFR <i>Management Plan</i>.</p> <p>Ayon naman kay APASu Kimayong ang naipakitang SPZ ay base sa naisagawang <i>delineation</i> noong 2018 ngunit ito ay hindi pa tapos at 60kms pa lamang ang natapos sa 223kms na dapat ma-<i>delineate</i>.</p> <p>Kung kaya't kinakailangan na maisagawa ang <i>ground validation</i> para matukoy kung ang isasagawang <i>construction</i> ng <i>tunnel</i> ay papasok sa SPZ at kung gaano kalaki ang maaapektuhan .</p> <p>Bilang karagdagan, nagbigay din ng kanyang <i>inputs</i> si Forester Leonardo Udasco na kasamang nag-<i>delineate</i> sa area. Ayon sa kanya ang mapa ay na-<i>overlay</i> sa mapa na galing sa <i>Mines and Geo Sciences Bureau</i> para malaman kung saan ang mga <i>flood</i> at <i>landslide prone areas</i>. At ang</p>			
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<p>mga tuntunin na isinaaang alang kaya na-categorize na SPZ ang <i>area</i> na naipakita sa mapa ay base sa mga lugar na may mataas na pagbaha at mataas na pagbaba ng lupa at mga lugar na kung saan may mataas na bilang ng naninirahang buhay ilang.</p> <p>Niliwanag naman ni Lalaine Capulong ng DPWH sa kapulungan kung bibigyan ba ng pahintulot ang DPWH na maisagawa ang proyekto.</p> <p>Sinagot naman ni PENR Officer Joselito Blanco na ito ay masasagot ng kapulungan sa gagawing hiwalay na deliberation ng PAMB kung kaya't hiniling niya na magkaroon ng hiwalay na pagtalakay na hindi kasama ang DPWH.</p> <p>Ipinaliwanag naman ni PAMB Chair/RED Paquito Moreno na ang naipresentang SPZ ay kasalukuyan pa lang na isinasagawa (working in progress) at hindi pa ito natatapos kaya ito ay isasangguni pa at pag-aaralan sa tulong ng PAMB, DENR R3 at BMB at kailangang malaman natin ang <i>actual condition</i> ng nakapaloob sa sinasabing SPZ at kung maaari din ba na maikonsidera ang kahilingan ng DPWH na hindi maisama sa SPZ ang area ng gagawing <i>tunnel</i> at maging <i>Right of Way ng Dalton Pass East Alternative Road Project</i>.</p> <p>Base sa DPWH ang isasagawang FS ay wala naman mabigat na isasagawang paghuhukay, masisirang mga puno at madidistorbo na mga <i>wildlife</i>.</p> <p>Pagkatapos ng pagpapalitan ng kuro kuro ng kapulungan iminungkahi ni PAMB member Nicasio Gatchalian na mabigyan ng pahintulot ang DPWH na maisagawa ang Feasibility Study at mabigyan</p>			
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	<p>ng konsiderasyon ang proyekto na hindi maisama sa SPZ ang area na kung saan gagawin ang konstruksiyon ng tunnel. Habang ang PCWFR ay wala pang <i>approved zoning</i> at kasalukuyan pa lang na tinatapos ito. Kaya hiniling ng kapulungan ang agarang <i>ground validation/delineation</i> at <i>biodiversity assessment</i> sa <i>proposed alignment</i> ng <i>Dalton Pass East Alternative Road Project</i>. At ma-i-ulat sa PAMB ang resulta ng FS kasama ang isasagawang <i>Environmental Impact Assessment</i> (EIA) upang maging gabay ng PAMB kung papahintulutan ang konstruksiyon. Agad naman itong pinangalawahan ni PAMB member Eduardo Bala at sinang-ayunan ng lahat ng dumalong miyembro.</p>	<p>Napagpasyahan na mabigyan ng pahintulot ang DPWH na maisagawa ang Feasibility Study at pagtibayin ang Kapasyahan 2020-13.</p>	
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Ang pagpupulong ay nagtapos sa ganap na ika- 2:30 ng hapon

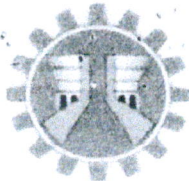
Ginawa ni:



JOSELITO M. BLANCO
PENR Officer/PASu-PCWFR

Sinang-ayunan ni:

ENGR. PAQUITO T. MORENO, JR., CESO III
Regional Executive Director/PAMB Chairperson



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

258574

September 07, 2020

ENGR. PAQUITO T. MORENO, JR.
Regional Executive Director
PAMB Chairperson
DENR Region 3
Diosdado Macapagal Government Center
Maimpis, City of San Fernando, Pampanga



ATTENTION : MR. JOSELITO BLANCO

Protected Area Superintendent (PASu), PCFWFR

SUBJECT : DALTON PASS EAST ALTERNATIVE ROAD PROJECT

Issues on Strict Protection Zone and Forestland Management Project

Dear Director Moreno:

This is in connection with the proposed implementation of the Dalton Pass East Alternative Road Project which is one of the Flagship Projects envisioned to be implemented under the Build-Build-Build Program of current Administration.

As you are aware, the project has an ongoing Preparatory Survey / Feasibility Study funded by the Japan International Cooperation Agency (JICA) through a grant which was started last October 2019. However, the said undertaking remains suspended mainly due to the issues and concerns raised by JICA with regards to environmental safeguards, to wit:

1. The above-cited project will pass through the Strict Protection Zone identified in Forestland Management Project (FMP) of the DENR.
2. The proposed project alignment overlaps with Forestland Management Project of the DENR

These concerns/queries made by JICA were brought to your attention per our letter dated April 24, 2020 (copy attached) and DPWH requested a meeting to discuss the said issues. To accommodate the said DPWH's request, we conducted a meeting dated July 8, 2020 at your office to initially tackle up the same. However the result of this meeting (minutes attached) remained unsatisfactory for JICA to resume the said Preparatory Survey.

DPWH, JICA and DENR then held a meeting via zoom on August 25, 2020 to gather information as to the legality of implementing the project within protected areas (SPZ/FMP) that will satisfy JICA's concern, and the salient points discussed are presented below:

Key attendees from the DENR:

1. PM Marlon Atienza, Project Manager, Forest Management Project
2. Mr. Joselito Blanco, Protected Area Superintendent (PASu) for PCFWFR
3. Minerva Martinez, Chief, Conservation and Development Division, DENR Regional Office 3
4. Jack Lalu, CENR Officer, Munoz Nueva Ecija
5. Edgar Martin, PENR Officer, Nueva Vizcaya, PENR Officer, Nueva Vizcaya

➤ **Pantabangan- Carranglan Watershed Forest Reserve (PCWFR)**

In terms of project implementation in the protected area, if PAMB clearance is obtained and ECC is issued, the project will be permitted by law.

JICA needs the PAMB's confirmation on the above statement, as well in the case of SPZ per NIPAS Act, since the SPZ is located within the protected area. While the applicability of the above point specifically to SPZ per NIPAS ACT was not discussed during our meeting last August 25, 2020, it was nonetheless discussed in earlier meeting between DENR and DPWH that PAMB clearance and consequent ECC issuance will establish the legality of implementing a project in SPZ per NIPAS Act.

➤ **Strict Protection Zone (SPZ) per NIPAS Act**

- a) Practically speaking, considering that PCWFR is still an initial component of the NIPAS which is yet to be subjected to congressional legislation, there is a possibility that projects of national significance and those that can contribute to the economy may be allowed to traverse the SPZ if approved by PAMB and DENR Secretary. However, they also explained that there isn't any document to say that projects can be implemented in SPZ per NIPAS as the law prohibits human activities in the SPZ. JICA explained that the F/S of the project cannot be further proceeded without any law or clauses that provide exceptional legal permission for the project implementation in SPZ per NIPAS.
- b) SPZ per NIPAS act is not officially designated yet.
- c) Meanwhile, SPZ per FMP is designated and it was adopted by PAMB. Hence it will most likely be included in the SPZ to be declared per NIPAS Act
- d) PAMP may include SPZ per FMP. (The criteria of SPZ per NIPAS is more than SPZ per FMP; hence it is expected that the actual SPZ to be declared per NIPAS Act will be bigger compared to the SPZ identified by FMP)
- e) Original plan of PAMP was already prepared, under finalization stage. After PAMB and DENR Secretary approve it, PAMP will be considered adopted and therefore SPZ will be formally declared. Approval of PAMP is expected to be late this year or early next year.
- f) The discussion that tunnel in SPZ per NIPAS is prohibited or not should be consulted with DENR Central Office.
- g) DPWH will present Dalton Bypass Project to PAMB and will ask PAMB the possibility to designate SPZ with excluding right of way of Dalton-BP.

➤ **Overlap with Forest Management Project (FMP)**

- a) The adverse impact on the FMP will not be significant. However, it is subject to validation.

In view of the above and considering the project's national significance, we would like to request the following:

1. Meeting with the PAMB to present the project
2. Exclusion to the project's ROW in the SPZ to be declared
3. Approval/permit to implement the project

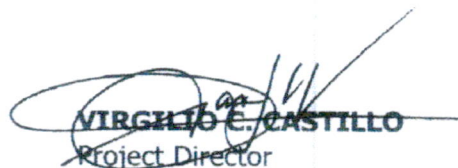
It is informed that PAMB has a regular periodic meeting; we would appreciate that this request to present the project be included as one of the agenda.

My staff will coordinate with your office to confirm your availability on the above mentioned request, and can be reached through the following contacts:

1. Project Manager Benjamin Bautista: 0927-809-4772;
2. Engr. Ronel Bulan : 0905-512-8732 (bulanronel@gmail.com)

Your prompt and favorable response on this matter is earnestly requested.

Very truly yours,


VIRGILIO E. CASTILLO
Project Director

Roads Management Cluster 1 (B) - UPMO

CC: Director SACHIKO TAKEDA, South East Asia Division 5, Japan International Cooperation Agency (JICA)

19.1 RRB/AERA/BAB/VCC



Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Region III, Diosdado P. Macapagal Regional Government Center
Maimpis, City of San Fernando, Pampanga

NOTICE OF MEETING

04 November 2020

To : **All PAMB Members**
Pantabangan Carranglan Watershed Forest Reserve

The Assistant Regional Director
Technical Services

The Chief
Conservation and Development Division

The PENR Officer
DENR, Nueva Ecija

The CENR Officer
DENR CENRO Muñoz

FROM : **The Regional Executive Director/PAMB Chair**

WHAT : **Special PCWFR-PAMB meeting**

WHEN : **10 November 2020 (Tuesday)/09:00am**

WHERE : Hotel Francesco, Barangay Malasin, San Jose city, Nueva Ecija

AGENDA : To present/discuss the request of Department of Public Works and Highways (DPWH) Central Office, on the proposed implementation of the Dalton Pass East Alternative Road Project.

Your participation in the above cited meeting will be highly appreciated.


ENGR. PAQUITO T. MORENO, JR., CESO III

DENR CARES... DENR DARES...

**PANTABANGAN - CARRANGLAN WATERSHED FOREST RESERVE
PROTECTED AREA MANAGEMENT BOARD
CY 2020 SPECIAL MEETING**

Hotel Francesko, Malasin, San Jose City, Nueva Ecija
November 10, 2020

Photo Documentation



Opening Prayer, Forester Apollo Manuel



PENR Officer/ PASu Joselito M. Blanco welcoming the PAMB members/ participants to the special meeting.



Assistant Secretary for Climate Change/BMB Director Ricardo L Calderon and RED/PAMB Chair Paquito T. Moreno, Jr. delivering brief message and recognition of participant.



Roll call of PAMB Members and recognition of Proponents and Guest by PENR Officer/ PASu Joselito M. Blanco



DPWH Project Manager Benjamin Bautista present the background and scope of work of the proposed project.



Proponent answering the concern of the PAMB members regarding Feasibility Study.



APASu Alfredo Kimayong presenting the delineated SPZ map and For. Leonardo Udasco, Jr. added the conducted delineation using MGB map to determine the area susceptible to flood and landslide.



PAMB Member Nicasio Gatchalian suggest to authorize DPWH to conduct Feasibility Study.



Closing remark by CENR Officer Florencio J. Lalu.

Documented and Prepared by:


EMMANUEL F. CANTOR
 Data Encoder

Noted by:


ALFREDO C. KIMAYONG
 EMSII/APASu-PCWFR



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE II
Tuguegarao City, Cagayan



DPWH-RO2: R.M. Sec.
DATE: 2/8/19
FILE NO: 403.7
RECEIVED BY: REGUS II
RELEASED BY: [Signature]

February 6, 2019

MEMORANDUM

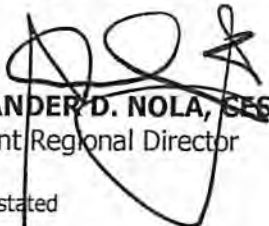
FOR : MARIA CATALINA E. CABRAL, Ph.D., CESO I
Undersecretary for Planning Service & PPP

49

**SUBJECT : Proposed Dalton Pass New Alignment Project Segment 4 in the
Municipalities of Sta Fe and Aritao, Nueva Vizcaya.**

Furnished herewith is the Approved Certification Precondition of the above -captioned Project with CEB Resolution and MOA duly notarized and acknowledged, for your information and ready reference.

By Authority of the Regional Director:


ALEXANDER D. NOLA, CESO IV
Assistant Regional Director

Encl: as stated

FOR:1 DOW/CMS/JPC, JR.

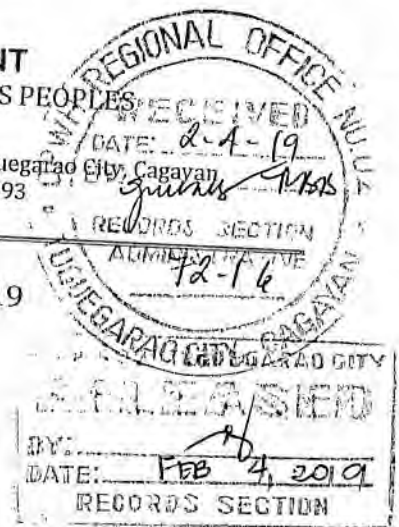


Republic of the Philippines
OFFICE OF THE PRESIDENT
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
Regional Office No. 2
No. 3 Turingan Building Campos Street, Caritan Centro, Tuguegarao City, Cagayan
Tel. Nos.: (078) 844-6796 / (078) 844-7593
region002.ncip@gmail.com

January 31, 2019

DIR. MELANIO C. BRIOSOS

Regional Director
Department of Public Works and Highways (DPWH)
Regional Office No. 2
Regional Center, Carig, Tuguegarao City



Dear Director:

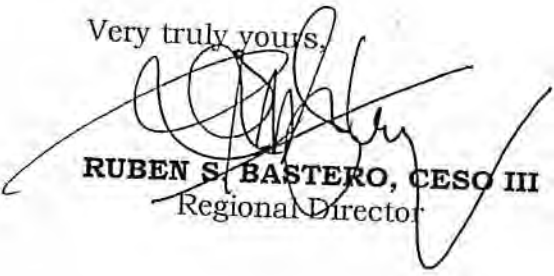
We are pleased to transmit to your good Office the approved Certification Precondition with control number CP-R-II-18-19-117 for the Proposed Dalton Pass New Alignment Project Segment 4 in the Municipalities of Sta. Fe and Aritao, Nueva Vizcaya with the following attached, to wit:

1. CEB Resolution No. 07-162-2018 approving the CP application of DPWH Region 2; and
2. MOA duly notarized and acknowledge.

We hope that this certificate will serve its purpose and we look forward to working with you and/or your people again in the future, for the good of the Indigenous Cultural Communities / Indigenous Peoples in Region 2.

More power.

Very truly yours,


RUBEN S. BASTERO, CESO III
Regional Director

cc.

- Office of the Director of Ancestral Domains Office (ADO)
- Office of the Executive Director (OED)

RSB/JPE

jan.2018



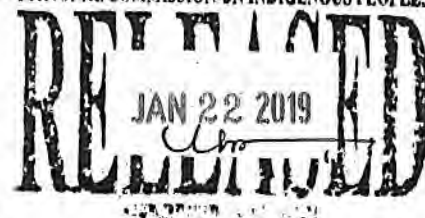
Republic of the Philippines
Office of the President
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
2/F N. dela Merced Bldg., West cor. Quezon Aves. Quezon City
Tel Nos. 373-9534 • 373-9578 • 373-9657 Tel. Fax 373-9765
Website: www.ncip.gov.ph • resource@ncip.gov.ph

NATIONAL COMMISSION ON INDIGENOUS PEOPLES

FOR : RUBEN S. BASTERO, CESO III
Director-Regional Office 2

SUBJECT : CP OF DPWH R2

DATE : June 22, 2019



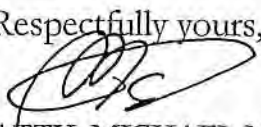
We are pleased to transmit to your good office the following papers/documents.

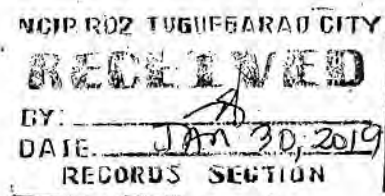
1. Four (4) copies of Certification Precondition (Control No. CPRII-18-19-117)
2. Four (4) copies of CEB Resolution No. 07-162-2018 approving the CP application of DPWH Regional Office 2
3. Four (4) copies of MOA duly notarized and acknowledged.

Lastly, kindly transmit the respective copies of the DPWH Regional Office 2, NCIP-Nueva Vizcaya Provincial Office and the concerned ICCs/IPs.

We hope that you find the documents in order.

Respectfully yours,



ATTY. MICHAEL M. MAMUKID
Director
Ancestral Domains Office



cc:Records

2-2019-1-39

OFFICE OF THE REGIONAL DIRECTOR
CONTROL NO. 12-2019-017 DATE: 1-30-19

RECEIVED BY: 



Control No. CP-R-II-18-19-117

CERTIFICATION PRECONDITION

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY, that the **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH) REGIONAL OFFICE 2**, with office address at Regional Government Center, Carig Sur, Tuguegarao City, Province of Cagayan, Philippines, has satisfactorily complied with the procedure and process requirements for the issuance of Certification Precondition and the Free and Prior Informed Consent, as prescribed under NCIP Administrative Order No. 03, Series of 2012 for their Proposed Dalton Pass New Alignment Project Segment 4, located in Municipalities of Sta. Fe and Aritao, Province of Nueva Vizcaya

THIS IS TO CERTIFY FURTHER, that under NCIP En Banc Resolution No.-07-162.2018, Series of 2018, dated, December 19, 2018, the Commission approved the issuance of a Certification Precondition to the aforementioned project, subject to the terms and conditions embodied in the herein mentioned Resolution and Memorandum of Agreement executed and entered into by and among the respective duly authorized representative/s of Department of Public Works and Highways (DPWH) Regional Office 2, the host Kalanguya-Ikalahan Indigenous Cultural Communities/Indigenous Peoples of Sta. Fe and Aritao, Nueva Vizcaya and the National Commission on Indigenous Peoples (NCIP), hereto attached as Annexes "A" and "B" respectively, and made integral parts hereof.

THIS IS TO CERTIFY FURTHERMORE, that this is subject to the condition provided in the aforesaid resolution stating therein, that the NCIP and DPWH shall sit-down and discuss just compensation as well as payment for damages due the Kalanguya-Ikalahan ICCs/IPs of Sta. Fe and Aritao, Nueva Vizcaya.

THIS CERTIFICATION is issued in compliance with Republic Act No. 8371, otherwise known as the Indigenous Peoples Rights Act (IPRA) of 1997 and NCIP Administrative Order No 03, Series of 2012, otherwise known as The Revised Guidelines on Free and Prior Informed Consent (FPIC) And Related Processes of 2012.

ISSUED THIS _____ day of _____ 2018, Quezon City, Philippines.

ATTY. LEONOR T. ORALDE-QUINTAYO
Chairperson

- Cc : The concerned Government Regulating Agency
: Indigenous Peoples concerned
: The Project Proponent
: NCIP-Regional Office 2
: NCIP-Nueva Vizcaya Provincial Office
: Commissioner concerned



JAN 22 2018

Ancestral Domains Office

National Commission on Indigenous Peoples
Central Office

"A RESOLUTION APPROVING THE ISSUANCE OF CERTIFICATION PRECONDITION TO THE DEPARTMENT PUBLIC WORKS AND HIGHWAYS (DPWH), FOR THEIR PROPOSED DALTON PASS NEW ALIGNMENT PROJECT SEGMENT 4, IN THE MUNICIPALITIES OF STA. FE AND ARITAO, PROVINCE OF NUEVA VIZCAYA"

RESOLUTION NO. 07-162.2018

Series of 2018

"WHEREAS, the Department of Public Works and Highways (DPWH), Regional Office 2, with Office address at DPWH Regional Office No. 2, Regional Government Center, Carig Sur, Tuguegarao City, Province of Cagayan, applied for the issuance of Certification Precondition for their proposed Dalton Pass New Alignment Project Segment 4, located in Municipality of Sta. Fe, Province of Nueva Vizcaya;

"WHEREAS, Section 59 of R.A. 8371 otherwise known as the Indigenous Peoples Rights Act of 1997 (IPRA) provides that a Certification Precondition can only be issued in connection with the applications for license, permit, agreement or concession to implement and/or operate programs/projects/ plans/business or investment including other similar or analogous activities or undertakings in ancestral domains areas after the ICCs and IPs approved of the same after passing through the free and prior informed consent process;

"WHEREAS, based on the Pre-FPIC conference conducted by the NCIP Provincial Office, the affected area is patently known as part of the Ancestral Domain area covered by the CADT No. RO2-STF-0406-045 of the Kalanguya-Ikalahan ICCs/IPs of Sta. Fe and Aritao, Nueva Vizcaya. The conduct of the mandatory free and prior informed consent process following NCIP Administrative Order No. 3, series of 2012 was recommended and required by the NCIP;

"WHEREAS, the mandatory activities for the conduct of the free and prior informed consent process under Administrative Order Number 03, series of 2012 were complied with, to wit: a) Pre-FPIC b) Posting of notices and serving of invitations; c) First Community Assembly; d) Second Community Assembly; e) Consensus Building; f) Decision Meeting; and g) MOA negotiation/signing;

"WHEREAS, presented for consideration of the Commission are the comments and recommendations of the Regional Review Team; the favorable recommendation for issuance of CP to DPWH R2 by FPIC Team of Nueva Vizcaya Provincial Office and the endorsement of the Ancestral Domains Office and the Legal Affairs Office for discussion and if merited for the issuance of Certification Precondition;

"WHEREAS, after due deliberation on the FPIC Reports and other related documents for the proposed project, the evaluation and recommendation report of the Ancestral Domains Office and the Legal Affairs Office, the testimonial accounts of the invited resource persons such as the community elders/leaders, the Commission found the procedures and process requirements for the conduct of free and prior informed written consent and issuance of certification precondition to be in accordance with the FPIC Guidelines of 2012, Provided that:

- NCIP and DPWH shall sit-down and discuss just compensation as well as payment for damages due the Kalanguya-Ikalahan ICCs/IPs of Sta. Fe and Aritao, Nueva Vizcaya;
- Memorandum of Agreement shall be signed by the DPWH Secretary and the Chairperson of NCIP; and
- Section I (I.A.5) shall be interpreted as disturbance compensation for damages caused, and not as a direct compensation, as the latter may be construed as acquisition/expropriation of the damaged portion of the ancestral domain.

"NOW THEREFORE, on motion by Commissioner Wandag, duly seconded by Commissioner Astoveza, be it

"RESOLVED, that the Commission, pursuant to Section 59 of the Indigenous Peoples Rights Act of 1997 and its implementing Rules and Regulations, and the provisions of the NCIP Administrative Order No. 03, series of 2012, hereby resolves, as it is done, to approve the issuance of Certification Precondition for the Proposed Dalton Pass New Alignment Project subject to the terms and conditions specified in this resolution and embodied in the Memorandum of Agreement (MOA) executed by and among the Department of Public Works and Highways-Regional Office 2, the host Indigenous Cultural Communities/Indigenous Peoples of CADT No. RO2-STF-0406-045 of the Kalanguya-Ikalahan of Sta. Fe and Aritao, Nueva Vizcaya and the National Commission on Indigenous Peoples (NCIP) as third party, and compliance to the payment of just compensation and disturbance compensation for damages;

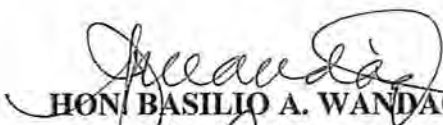
"RESOLVED FURTHER, to authorize the Chairperson to sign, for and in behalf of the Commission, the Memorandum of Agreement and the Certification Precondition for the Proposed Dalton Pass New Alignment Project Segment 4;

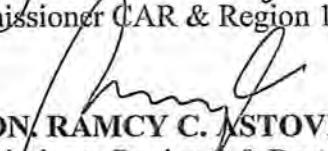
"RESOLVED FURTHERMORE, that the Regional Office is required to submit their compliance and explanation to Legal Opinion No. 67-12-19-18, dated December 18, 2018;

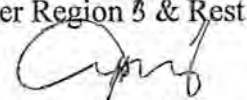
"RESOLVED FINALLY, that the Ancestral Domains Office is hereby directed to furnish the duplicate original copy of the Certification Precondition and copies of the Memorandum of Agreement to all the parties concerned;

Let the original copy of all the documents including one original copy of this resolution remain on file with the Ancestral Domains Office.

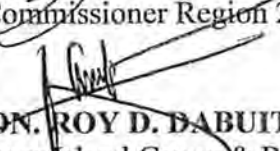
APPROVED this 19th day of December 2018, Quezon City, Philippines.



HON. BASILIO A. WANDAG
Commissioner CAR & Region 1

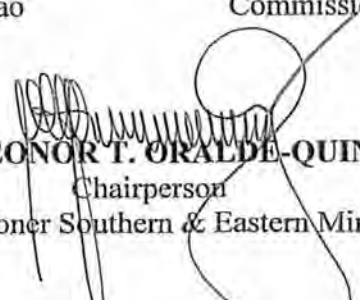

HON. RAMCY C. ASTOVEZA
Commissioner Region 5 & Rest of Luzon


HON. ERA C. ESPAÑA
Commissioner Central Mindanao


HON. NORBERTO M. NAVARRO
Commissioner Region 2


HON. ROY D. DABUIT
Commissioner Island Group & Rest of Visayas


HON. DOMINADOR M. GOMEZ
Commissioner Northern & Western Mindanao


HON. LEONOR T. ORALDE-QUINTAYO
Chairperson
Commissioner Southern & Eastern Mindanao

ATTESTATION

I attest that this Resolution was approved by the Commission En Banc during its regular session on the date as above stated.


ROGELIO FRANCISCO M. BANTAYAN, JR.
Executive Director & Secretariat to the Commission

**CERTIFIED TRUE AND CURRENT
REPRODUCTION FROM ORIGINAL**

JAN 22 2019

Ancestral Domains Office
National Commission on Indigenous Peoples
Central Office

Page 2 of CP Resolution No. 07-162.2018

MEMORANDUM OF AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This **MEMORANDUM OF AGREEMENT (MOA)** is entered into and executed by and among:

KALANGUYA-IKALAHAN INDIGENOUS CULTURAL COMMUNITIES (KIICCs), the ICCs/IPs who own an ancestral domain located in Sta. Fe and portions of Aritao and Kayapa, all in the Province of Nueva Vizcaya represented in this act by their respective clusters Officers: Benjamin S. Baguya- Cluster 1; Ernesto P. Sumakay- Cluster 2; Tirso L. Basilang- Cluster 3; Antonio C. Dumlao-Cluster 4; Punong Barangays of Cluster 4 namely: Jaime F. Castro of Anayo, Manric O. Gaynat of Canarem, Jaime N. Aydinan of Canabuan, Agustin B. Caga of Yaway, all of Aritao; Tomas S. Atinan of Canabuan & Sony B. Calanse of Bantinan; and selected Elders/Leaders namely: Marcelo M. Pinao-an, Sr., Moises O. Pindog, Carmelita M. Pugsong, Benita B. Suguitan and Longcoy D. Todiano; in their capacity as the officially designated representatives, hereinafter referred to as "**KALANGUYA-IKALAHAN CADT HOLDERS**";

-and-

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH), an agency of the government of the Republic of the Philippines with Office address at DPWH Regional Office No. 2, Regional Government Center, Carig Sur, Tuguegarao City, Cagayan represented in this act by its Regional Director **MELANIO C. BRIOSOS, CESO III** herein referred to as "**DPWH RO2**";

-and-

NATIONAL COMMISSION ON INDIGENOUS PEOPLES, a government agency created and operating pursuant to R.A. 8371 with Office address at Turingan Bldg., #3 Campos St., Caritan Centro, Tuguegarao City, Cagayan, represented by its Regional Director **RUBEN S. BASTERO, CESO III**, hereinafter referred to as "**NCIP RO2**"

WITNESSETH:

WHEREAS, the DPWH has proposed and in fact undergoing Construction Project as component of the Dalton Pass-Nueva Vizcaya New Alignment Segment 4 & 5 Project traversing Barangays Canarem & Canabuan, Aritao and Canabuan, Sta. Fe, all of Nueva Vizcaya which are area coverage of the KALANGUYA-IKALAHAN ANCESTRAL DOMAIN in Sta. Fe and portions of Aritao and Kayapa, Nueva Vizcaya;

WHEREAS, in compliance with the provision of Section 59 of RA 8371 and NCIP Administrative Order No. 3 Series of 2012, the DPWH applied for a Certification Precondition with the NCIP, such application is the basis of the latter in directing/ordering the conduct of FPIC process in accordance with the provisions of Administrative Order No. 3 Series of 2012;

WHEREAS, DPWH has substantially complied with the regulations and guidelines to obtain the Free and Prior Informed Consent (FPIC) of the Kalanguya-Ikalahan Indigenous Cultural Communities of Sta. Fe and Aritao, Nueva Vizcaya;

WHEREAS, Kalanguya-Ikalahan CADT HOLDERS issued a resolution of consent in accordance with Section 22 of Administrative Order No. 3 Series of 2012 subject to the terms and conditions embodied in this Memorandum of Agreement to be executed by the parties herein referred to by this instrument;

NOW, THEREFORE, for and in consideration of the foregoing premises, the mutual covenants, terms and conditions hereinafter set forth by the parties, the following are hereby stipulated and agreed as follows:

A.
DETAILED BENEFIT-SHARING PROVISIONS IN
ACCORDANCE WITH RULES AND REGULATIONS

Any fund received by the CADT Rights Holders shall be for the rehabilitation of damaged/disturbed forests, and for restoring peace within the domain. The sharing shall be at the discretion of the CADT Federation Officers and Elders.

B.
DEVELOPMENT PROJECTS BASED ON THE DEVELOPMENT
PRIORITIES OF THE COMMUNITY

Any development project to be carried out in the ancestral domain shall take paramount consideration on the sustainability of the ancestral domain and its environment. The determination and acceptance of such project shall be subject to the consensus building¹ of the Kalanguya-Ikalahan CADT Holders.

C.
MONITORING OF THE IMPLEMENTATION OF THE MOA TO BE IMPLEMENTED BY THE NCIP,
DPWH IN PARTNERSHIP WITH LGUs and CADT RIGHTS HOLDERS

1. A composite Monitoring and Evaluation Team (MET) shall be created to be composed of 2 NCIP representatives coming from the Provincial/CSC Office; 2 from DPWH; 1 from the Contractor; 1 from each MLGU of Sta. Fe and Aritao; 1 from each Barangay Council of Anayo, Canarem, Canabuan, Yaway, all of Aritao, and Canabuan & Bantinan, of Sta. Fe and 1 from each Cluster People Organization; and 1 representative from CADT Holders Federation, a total of 18 members. A secretariat shall be provided by the NCIP coming from the Provincial and Kayapa Community Service Center Offices.
2. The names of members to the MET shall be identified by the concerned parties to be submitted to the NCIP, Nueva Vizcaya;
3. The duties and functions of the MET shall be the following;
 - 3.a. to monitor and evaluate full compliance with the provisions of this MOA and the approved plans and specifications of this project;
 - 3.b. to receive complaints, assist in the documentation of the same, act/resolve and recommend appropriate action to proper authorities;
 - 3.c. to conduct ocular inspection/validation of reported issues and concerns;
 - 3.d. to determine, evaluate and recommend payment for claims of affected properties and IKSPs such as burial grounds/sites and sacred places;
 - 3.e. to monitor and recommend proper action any treasure hunting activity;
 - 3.f. to monitor replacement of cut trees by the Contractor and submit report as to compliance to their obligation.
4. The MET shall conduct a regular monthly monitoring and evaluation meeting/activity preferably on every first Wednesday of the month. Special/emergency meetings may be called upon as the need arises. It shall be headed and presided by the NCIP, Provincial Officer as FPIC Team Leader or his official representative.
5. An Exit Evaluation by the MET shall be done prior to the issuance of the Certificate of Acceptance; without which the CADT Rights Holders reserve the right not to recognize

¹ Consensus Building refers to the process of arriving at a decision by the ICCs/IPs on issues and concerns affecting them by employing their own traditional decision-making processes.

- project completion and the right to comment, expose and report to authorities any observed defects or diversion of the road project design.
6. The food & transportation expenses to be incurred during MET meetings/activities shall be borne by the DPWH (supplemental WFP for this purpose shall be prepared). Meantime, the excess FPIC fund shall be utilized for food & transportation expenses for the initial conduct of MET meetings.

D.
MITIGATION AND RESETTLEMENT PLANS
FOR POTENTIAL RISKS

It shall be the duty of the **DPWH** to do the following as part of the mitigation measures for potential risks:

1. Adopt & implement the technical plan of the project which is 6.7m width as presented by the proponent during the FPIC process and additional 1.5 m if curve area;
2. Provide road shoulder along the entire stretch of the road;
3. In all instances, earthworks must be minimal balanced cut and fill; riprap/stonewalling/concrete retaining wall must be in strong foundations and materials;
4. Installation of appropriate drainage pipes i.e. box culverts or RCPC shall be made in natural water flows and in strategic locations/places as per actual field requirement;
5. Adopt gutter type drainage system; except in areas where water volume requires drainage canal as known and identified by the community;
6. Installation of soil stabilization structure such as riprap/gabion type in all drainage outfall;
7. Setting up "apron" at the lower portion to shield ground soil from ultimate wash out;
8. Waste materials must be disposed properly by the contractor in disposal area identified by the MET to ensure public safety and friendly environment;
9. Install/provide appropriate water spillway, canal, gutter or apron to shield ground soil from ultimate wash out, avoid flooding/erosion of lots/lands along roadsides;
10. Cut and fill method or haul the cut soil to safe area identified by the community or individual lot owner, as the case maybe; and
11. Earthworks disposal areas must be stabilized and rehabilitated.

E.
REDRESS MECHANISM

Issues and concerns connected with the implementation of the project shall be initially resolved by the Project Engineer or his duly authorized representative. Otherwise, the problem shall be brought to the MET for the resolution of the same.

F.
CLAUSE ON THE NON-TRANSFERABILITY OF THE MOA (CONSENT)

1. This MOA shall be applicable only to the herein described project. The terms and conditions set forth herein shall be binding to the parties including the contractor assigned for the implementation of the project;
2. In the event that the DPWH will cause change or addition to contractor/s, the conditions stipulated herein shall be followed by the new contractor/s.

G.
CLAUSE FOR RENEGOTIATION OF THE ECONOMIC PROVISIONS

Should there be any benefit to be received by the CADT Holders, both parties should meet to discuss the matter with the assistance of the NCIP.

H.
WHETHER THE CONCERNED ICCs/IPs SHALL REQUIRE ANOTHER
FPIC TO BE CONDUCTED IN CASE OF MERGER, REORGANIZATION, TRANSFER OF RIGHTS,
ACQUISITION BY OTHER ENTITY,
OR JOINT VENTURE

In case of merger, reorganization, transfer of rights, acquisition by other entity or joint venture, another FPIC shall be required.

I.
LIST OF RESPONSIBILITIES OF DPWH AND
THE AFFECTED COMMUNITY

I-A. DPWH

1. The DPWH shall put up informative billboards detailing the particulars of the project like project cost, length, period/phase of implementation, name of contractor, source of fund, others;
2. To incorporate all necessary revisions in the plans and specification as maybe warranted by this MOA;
3. To compel the Contractor to provide cost of seedling/planting materials and cost of labor for the rehabilitation along stretch on both sides of the road project in coordination with the Marang Watershed Ancestral Domain Development Association (MAWADDA) as Cluster Organization in accordance with the Joint Memorandum of the DPWH-DENR and DSWD and other appropriate issuances relative thereto.
4. To ensure that cost of replacement for cut /damaged trees be made an integral part of the Road Right-of-Way Fund based on the DPWH Right-of-Way Acquisition Manual;
5. To compensate damaged properties in accordance with the DPWH Right-of-Way Acquisition Manual including transfer/disturbance of cultural sites/heritage;
6. To cause payment of monetary obligation to individuals or to the community for any unpaid or unsettled debts of the contractor as certified by the MET;
7. To compel the contractor to make their equipment available during calamities;
8. To ensure that existing roads must be passable 24/7 during the construction period of the project;
9. To restore damaged irrigation and other facilities;
10. To rehabilitate the upper & lower portions of the road through tree planting based on DENR standards; and
11. To furnish the MET on the valuation of properties affected by the project.

I-B. COMMUNITY

1. Actively participate in the Monitoring and Evaluation Team meetings/activities;
2. Assist the DPWH/contractor in identifying the locations/sites for earthwork waste disposal;
3. Cooperate and assist in maintaining peace and order during the course of project implementation;
4. Document road construction outputs, impacts and effects for public information and reference;
5. To exert best efforts during emergency cases i.e. landslides, typhoons, accidents, others;

J.
INCLUSIVE DATES/DURATION OF AGREEMENT

This MOA shall be effective and binding from the date of signing until the issuance of the Certificate of Acceptance of the project.

K.
BENEFITS TO BE DERIVED BY ICCs/IPs

1. Labor force pursuant to the provisions of DPWH Department Order No. 130 shall be recruited in the following order:
 - a. Indigenous Peoples in the Barangay directly affected;
 - b. Indigenous Peoples in other Barangay not directly affected; and
 - c. Residents of Barangay outside the Ancestral Domain.
2. Wages of Indigenous Peoples (IPs) for labor rendered must be paid on time; it shall be paid **weekly** or every two weeks; labor rendered for a given week shall be paid at the last working day of said week; same is true if wages are given every two weeks; using as basis is the prevailing wage issued by the LGU or concerned agency of the government.

L.
DETAILED USE OF FUNDS TO BE RECEIVED BY THE ICCs/IPs

Any appropriated fund received by the CADT Rights Holders shall be utilized for the rehabilitation of the damaged/disturbed forests, and for restoring peace within the domain. The sharing shall be at the discretion of the CADT Federation Officers and Elders.

M.
TRANSPARENCY MECHANISM ON TRANSFER AND DISBURSEMENT OF FUNDS

All transactions including disbursement of fund accrued as a result of the project for and in favor of the community must be properly reported and accounted by the designated fund holder, as the case may be.

N.
**DETAILED MEASURES TO PROTECT IP RIGHTS
AND VALUE SYSTEMS**

1. The Kalanguya-Ikalahan traditional practice on customary laws must be respected, the traditional alternative dispute resolution over mainstream mechanism shall prevail for any unauthorized/illegal activity;
2. The traditional rituals of the ICCs/IPs must be respected in case burial grounds are to be disturbed by the project. Any amount incurred in the performance of the rituals shall be determined by the MET.

O.
**DETAILED MEASURE TO CONSERVE/PROTECT THE
ANCESTRAL DOMAIN AND OTHER IP TERRITORY**

1. The affected ancestral domain must at all times be protected in the course of project implementation;
2. Construction activities must be executed with the least damage to the Ancestral Domain;
3. Rehabilitation of damaged structures and cut trees must be undertaken through the joint efforts by the DPWH, Contractor and the community in general.

P.
RESPONSIBILITIES OF THE APPLICANT AS WELL AS
IP COMMUNITY

1. DPWH shall pay on time whatever monetary obligation and assessment due to the LGUs of Sta. Fe and Aritao, Nueva Vizcaya;
2. The DPWH/Contractor shall only cut trees which are allowed within the construction limits and shall be turned-over to the CADT holders for proper disposal. Any tree cut shall NOT be allowed to be transported outside the ancestral domain.
3. The Community shall implement the policies under the ADSDPP and Municipal/Barangay Ordinances.

Q.
MONITORING AND EVALUATION SYSTEM OF THE MOA

A monthly monitoring and evaluation shall be done by the MET to assess compliance by the DPWH and the contractor of the terms and conditions of this MOA; expenses incurred for such activity shall be shouldered by the DPWH and/or contractor.

R.
REMEDIES AND/OR PENALTIES FOR NON-COMPLIANCE

1. In the event that the MET shall find non-compliance and/or violations to the terms of this agreement, the team shall recommend proper actions and/or penalties to be immediately undertaken by the concerned party and/or commence such proper actions such as, but not limited to the proceedings under NCIP Administrative Circular No. 1, series of 2014;
2. Any violation or non-compliance of any of the terms of this agreement is a ground for the revocation of the consent given in favor of the proponent and shall be subject to traditional customs and practices;
3. The CADT holders reserve the right to withdraw consent upon determination of violations committed by the DPWH and/or contractor after three (3) allowable warnings from the MET.

S.
BOND DEPOSIT

The DPWH shall post a Surety Bond amounting to FIVE HUNDRED THOUSAND PESOS (P500,000.00) to serve as a security to ensure compliance with the terms and conditions contained in this MOA. Failure to deposit said amount is a ground for violation of this agreement which warrant temporary stoppage.

T.
ASSISTANCE DURING CALAMITIES

1. During and after the duration of the project, the DPWH and/or contractor shall render assistance to the community in times of calamities especially if the damage arose as a result of the implementation of the project;
2. Assistance to be rendered shall be of any kind necessary and appropriate to the needs of the victims throughout the duration of the calamity.

V.
DORMANT CERTIFICATION PRECONDITION

This section is not applicable in this particular project because the project is now on-going.

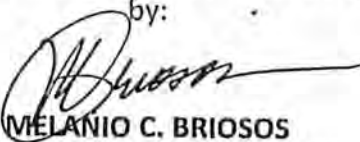
X.
SCOPE AND COVERAGE OF THE CONSENT AND THIS AGREEMENT.

1. That the consent given with respect to this MOA shall refer only to the road, bridges and tunnel construction project (segment 4 & 5) located within the CADT area of the Kalanguya-Ikalahan of Sta. Fe and Aritao, Nueva Vizcaya;
2. Before the construction of the proposed tunnel, consultation meetings must be conducted.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 11th day of April, 2018 at Santa Fe Municipal Hall, Poblacion, Santa Fe, Nueva Vizcaya, Philippines.


DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH)


by:

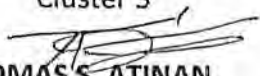

MELANIO C. BRIOSOS
Regional Director, DPWH RO2

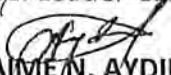
**KALANGUYA-IKALAHAN INDIGENOUS CULTURAL COMMUNITIES
(KIICCs)**

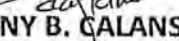
by:

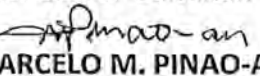

BENJAMIN S. BAGUYA
Authorized representative
Cluster 1

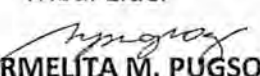

TIRSO L. BASILANG
Authorized representative
Cluster 3

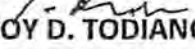

TOMAS S. ATINAN
Tribal Leader-Canabuan, Santa Fe

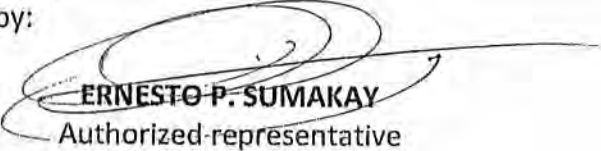

JAIME N. AYDINAN
Tribal Leader-Canabuan, Aritao

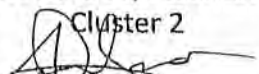

SONY B. CALANSE
Tribal Leader-Bantinan

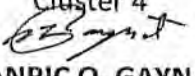

MARCELO M. PINAO-AN, SR.
Tribal Elder



CARMELITA M. PUGSONG
Tribal Leader



LONGCOY D. TODIANO
Tribal Elder

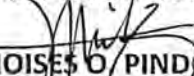

ERNESTO P. SUMAKAY
Authorized representative
Cluster 2



ANTONIO C. DURLAO
Authorized representative
Cluster 4

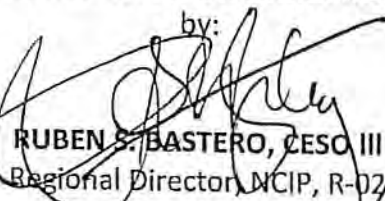

MANRIC O. GAYNAT
Tribal Leader-Canarem


JAIME H. CASTRO
Tribal Leader-Anayo

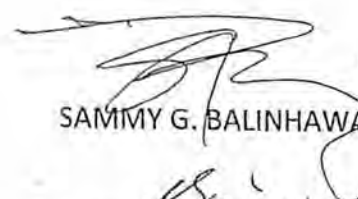

AGUSTIN B. CAGA
Tribal Leader-Yaway

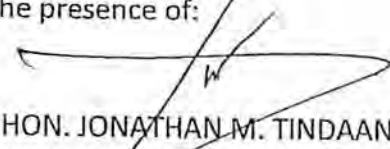

MOISES O. PINDOG
Tribal Leader

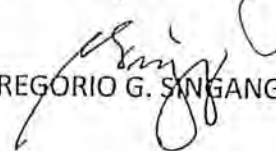

BENITA B. SUGUITAN
Tribal Elder

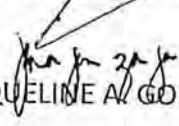
by:

RUBEN S. BASTERO, CESO III
 Regional Director, NCIP, R-02

Signed in the presence of:


SAMMY G. BALINHAWANG


HON. JONATHAN M. TINDAAN


GREGORIO G. SINGANGAN


JACQUELINE A. GONZAGA

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
 BAYOMBONG, NUEVA VIZCAYA) S.C.

Before me a Notary Public for and in the Province of Nueva Vizcaya, this MAY 21 2018 day of April, 2018 personally appeared before me:

Name

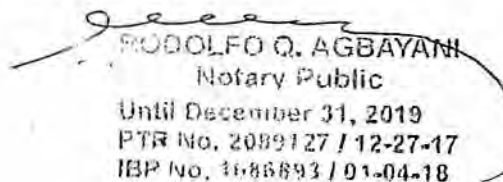
CEI No.

Date/Place issued

known to me to be the same persons who executed the foregoing instrument, consisting of eight (8) pages, including this page, signed by the parties and witnesses on all pages and the signatories to the instrument acknowledged to me that the same is their own free will and voluntary act and deed and of the association/corporation that they herein represent.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal at the place and on the data above written.

Doc. No. 359;
 Page No. 72;
 Book No. XL;
 Series of 2018.


RODOLFO Q. AGBAYANI
 Notary Public
 Until December 31, 2019
 PTR No. 2089127 / 12-27-17
 IBP No. 1686893 / 01-04-18
 TIN No. 114-890-339-000
 MCLE No. V-0010628 / 9-17-15
 Bayombong, Nueva Vizcaya



Republic of the Philippines
Office of the President
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
Nueva Ecija Provincial Office
Old Capitol Compound, Burgos Ave.,
3100 Cabanatuan City, Nueva Ecija, Philippines

12 November 2019

HON. ALLEN C. CAPUYAN

Chairman

NATIONAL COMMISSION ON INDIGENOUS PEOPLES (NCIP)

2nd Floor, Dela Merced Building,

Corner West and Quezon Avenue, Quezon City

Philippines

Dear **Chairman Capuyan**:

GREETINGS OF PEACE AND DEVELOPMENT!

First of all, it was an honor to have you give your wisdom during the En Banc Deliberation last October 18-19, 2019 in Zambales. I learned a lot during the deliberation in spite of the fact that it was my first time to present without any orientation or training from NCIP.

In this connection, may I then respectfully submit to you the following documents in compliance with the recommendations and suggestions of the Honorable Commissioners:

1. Five (5) sets of Updated, signed and notarized Memorandum of Agreement (MOA) as a part of the compliance on the recommendations of the Commissioners; and
2. Five (5) sets of Katunayan ng Pagsang-ayon (Resolution of Consent) signed by the 315 Kalanguya IPs who are head of the families in Barangay Salazar together with the signatures of Validated Elders/Leaders in compliance with the recommendations of the commissioners.

The Kalanguya indigenous peoples are very happy that you are very supportive for the project of DPWH that will directly benefit them and for the development of indigenous peoples as a whole. As an update, the NCIP NEPO already conducted several meetings for the updating of the Kalanguya ADSDPP to include all your ideas during the deliberations. Your concern for the weal of indigenous peoples assures us for your positive action.

Thank you very much and may God bless you for your services for indigenous peoples!

Very truly yours,



DR. DONATO B. BUMACAS
DMO V / Provincial Officer

Att: A/S

MEMORANDUM OF AGREEMENT KALATAS NG KASUNDUAN

KNOW ALL MEN BY THESE PRESENTS:
DAPAT ALAMIN NG LAHAT NA:

This Agreement is entered into and executed by and among:
Ang kasunduang ito ay isinagawa sa pagitan ng:

The **KALANGUYA INDIGENOUS CULTURAL COMMUNITY/ INDIGENOUS PEOPLES** of 4 **BARANGAYS** **CAPINTALAN, MINULI, PUTLAN, AND SALAZAR, CARRANGLAN, NUEVA ECIJA**, herein represented by their duly authorized representatives, **IPMR BERNABE BAYON, NANGKAAMA RAMON MANIAGO, NANGKAAMA SANDY LUNA, BRGY. CAPTAIN ANDRES P. BUCASAN, NABA-KOL AIDA PATIANO, BOARD MEMBER ANDREW BISCALOG, IPMR PAULINO AGMALIW, IPMR PADAN MINDANAO, IPO PRESIDENT ROMY PAAY, NANGKAAMA BASILIO BATIEL, NANGKAAMA FELIMON LUCAS, BRGY. CAPTAIN FRANCISCO A. EVASCO**, Filipinos, of legal age, and with postal addresses in Carranglan, Nueva Ecija, whose authority is contained in the Resolution of Consent hereto attached as **ANNEX A**, hereinafter referred to as "**KICC/IPs**";

ANG MGA KATUTUBONG PAMAYANANG KULTURAL/ KATUTUBONG PAMAYANAN NG MGA KALANGUYA mula sa mga BARANGAY NG CAPINTALAN, PUTLAN, MINULI AT SALAZAR, CARRANGLAN, NUEVA ECIJA na kinakatawan dito nila IPMR BERNABE BAYON, NANGKAAMA RAMON MANIAGO, NANGKAAMA SANDY LUNA, BRGY. CAPTAIN ANDRES BUCASAN, NABAKOL AIDA PATIANO, BOARD MEMBER ANDREW N. BISCALOG, IPMR PAULINO AGMALIW, IPMR PADAN P. MINDANAO, IPO PRESIDENT ROMY L. PAAY, NANGKAAMA BASILIO BATIEL, NANGKAAMA FELIMON LUCAS, BRGY. CAPTAIN FRANCISCO A. EVASCO. Para sa mga layunin ng Kasunduang ito, ang pinapahintulutang lumagda, sa bisa ng ipinasang Resolusyon na kalakip dito bilang ANNEX A ay Pilipino, nasa tamang edad, naninirahan at may pahatirang-sulat sa Carranglan, Nueva Ecija, na ang kanilang karapatang pumirma ay napapaloob sa Resolusyon ng Pagsang-ayon na tinutukoy rito bilang "KICC/IPs";

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (DPWH), a Department of the Government of the Republic of the Philippines, with office address at Bonifacio Drive, Port Area, Manila, represented in this act by **VIRGILIO C. CASTILLO** and hereinafter referred to as "**DPWH**".

KAGAWARAN NG PAGAWAING PAMPUBLIKO AT MGA LANSANGAN (DPWH), isang sangay ng Gobyerno ng Republika ng Pilinas, na may tanggapan sa Bonifacio Drive, Port Area, Manila, kinakatawan ni **VIRGILIO C. CASTILLO**, sa bisa ng at tinutukoy dito bilang "**DPWH**".

The **NATIONAL COMMISSION ON INDIGENOUS PEOPLES**, a government agency created and operating in accordance with R.A. 8371 or the Indigenous Peoples Rights Act of 1997, with office address at Second Floor, N. dela Merced & Sons Building, West Avenue, corner Quezon Avenue, City of Quezon, represented by **ALLEN A. CAPUYAN**, Chairperson, of legal age, Filipino and with Office address at the Second Floor, N. dela Merced & Sons Building, West Avenue, corner Quezon Avenue, Quezon City, and herein referred to as the "**NCIP**".

[Signatures]

Ang **PAMBANSANG KOMISYON SA KATUTUBONG PAMAYANAN**, isang ahensiya ng pamahalaan na nilikha at gumagalaw ng ayon sa Batas Republika Blg. 8371 ang *Indigenous Peoples Rights Act of 1997*, may mga pangunahing tanggapan sa Ikalawang Palapag, Gusaling N. dela Merced & Sons, panulukan ng West at Quezon Avenues, Lungsod ng Quezon, na kinakatawan ni **ALLEN A. CAPUYAN**, Tagapangulo, nasaa wastong edad, Filipino at may tanggapan sa Ikalawang Palapag, Gusaling N. Dela Merced & Sons, panulukan ng West and Quezon Avenues, Lungsod ng Quezon at tinutukoy bilang **"NCIP"**.

**WITNESSETH THAT:
SAKSIHAN NA:**

WHEREAS, pursuant to the mandate of the DPWH as a Government agency of the Republic of the Philippines primarily tasked to undertake the planning, design, construction and maintenance of major infrastructure projects, such as national roads and bridges, flood control, water resources projects, and other public works.

YAMANG, alinsunod sa mandato ng DPWH bilang pangunahing Ahensiya ng Gobyerno ng Republika ng Pilipinas na naatasang mag plano, mag panukala, gumawa at mag sa ayos ng mga pangunahing proyektong pang inprastruktura tulad ng mga pambansang daan, kalsada, tulay, pang pigil ng pagbaha, proyektong sumasaklaw sa yamang tubig at iba pang pampublikong gawain.

WHEREAS, an application for Certification Precondition was filed by DPWH for its Dalton Pass East Alignment Road Project (Tunnel) whereby it will construct a proposed alternate road and tunnel connecting Carranglan, Nueva Ecija with Aritao, Nueva Vizcaya;

"YAMANG", isang aplikasyon sa paggawa ng Certification Precondition ang inihain ng DPWH para sa proyekto nito na Dalton Pass East Alignment Road Project (Tunnel), kung saan ito ay magtatayo ng panukalang alternatibong daan at daanang lagusan sa ilalim ng lupa upang magdurugtong ng Bayan ng Carranglan, Nueva Ecija at Bayan ng Aritao, Nueva Vizcaya;

WHEREAS, the exclusive and private but communal ancestral domain of the KICC/IPs was recognized by the state when the National Commission on Indigenous Peoples (NCIP) approved the Certificate of Ancestral Domain Title No. R03- CAR- 1106-05 in accordance with Republic Act 8371 (IPRA Law), in favor of said KICC/IPs of Barangays Capintalan, Minuli, Putlan, and Salazar, Carranglan, Nueva Ecija;

"YAMANG", ang tangi, pansarili, sama-sama at kolektibong karapatan ng KICC/IPs ng mga Barangay Capintalan, Minuli, Putlan at Salazar ay kinilala ng Estado nang and Pambansang Komisyon ng mga Katutubong Pilipino (NCIP) ay pagkakalooban sila ng Certificate of Ancestral Domain Title No. R03-CAR-1106-05, sa bisa ng Republic Act 8371 (IPRA Law);

WHEREAS, Republic Act No. 8371 (IPRA Law) provides that the Indigenous concept of ownership sustains the view that ancestral domains and all resources found therein shall serve as the material bases of their cultural integrity. The indigenous concept of ownership generally holds that ancestral domains are the ICCs/IPs private but community property which belongs to all generations and therefore cannot be sold, disposed or destroyed.

"YAMANG", base sa isinasaad ng Republic Act 8371 (IPRA Law) na ang katutubong konsepto ng pagmamay-ari ay tumutukoy sa pananaw na ang Lupaing Ninuno at lahat ng yaman na matatagpuan dito ay magsisilbing materyal na batayan ng kanilang pang kalinangang kabuuan. Ang katutubong pagkakaunawa sa pagmamay-ari sa kabuuan ay nanangan na ang lupaing ninuo ng mga Katutubong Pamayanang Kultural/ Katutubong Pamayanan ay pribado ngunit pagmamayaring komunal/ pangmadla ng lahat ng salinlahi at kung gayon ay hindi maaring ipagbili, ipamigay or sirain.

WHEREAS, as required by Republic Act No. 8371 or the Indigenous Peoples Rights Act (IPRA), the right to develop, control and use lands and territories traditionally occupied, owned, or used; to manage and conserve natural resources within the territories and uphold the responsibilities for future generations, and the right to an informed and intelligent participation in the formulation and implementation of any project, government or private, that will affect or impact upon the ancestral domains and to receive just and fair compensation for any damages which they may sustain as a result of the project;

"YAMANG", ayon sa itinakda ng Batas Republika Blg. 8371 o Indigenous Peoples Rights Act of 1997 (IPRA), ang karapatang paunlarin, patnubayan, at gamitin ang mga lupa at teritoryong tradisyunal na tinitirahan, inaari o ginagamit: karapatang pamahalaan at pangalagaan ang mga likas na yaman sa loob ng mga teritoryo alisnsunod sa pagtatilima sa pananagutan para sa mga susunod na salinlahi: ang karapatan sa malinang at matalinong pakikibahagi sa pagbubuo at pagpapatupad ng mga programa, pribado man o pampamahalaan na makakaapekto sa mga lupaing ninuno at tumanggap ng tama at sapat na kabayaran sa anumang pinsalang magagawa bilang resulta ng mga nahanggit na programa;

"WHEREAS pursuant to Sections 44(m), 46(a), 57, 58, and 59 of R.A. 8371, otherwise known as the Indigenous Peoples Rights Act of 1997, and other related provisions and the Revised Guidelines on Free and Prior Informed Consent (FPIC) and other Related Processes of 2012 or Administrative Order No. 3, series of 2012, it is a state policy that the process of securing the Free and Prior Informed Consent of the concerned Indigenous Cultural Communities/ Indigenous Peoples be done with utmost regard to the overriding right of the ICC/IPs to the management, development, and utilization of their own land resources within their ancestral domain and ancestral lands;

"YAMANG", ayon sa Talata 44(m), 46(a), 57, 58, at 59 of R.A. 8371, na lalong kilala sa taguring Batas ng mga Karapatan ng Katutubong Pamayanan ng 1997, mga kaugnay na tadhana at ng Pang-ahensiyang Kautusan Bilang 3, serye ng 2012 (NCIP) Administrative Order No 3, series of 2012) o ang Nabagong Patakaran sa Malaya, Nauna at Malinang na Pagsang-ayon at mga kaugnay proseso ng 2012. "Isang patakaran ng Estado na ang proseso ng pagkuha ng Malaya, Nauna, at Malinang na Pagsang-ayon ng mga kinauukulang Katutubong Pamayanang Kultural/ Katutubong Pamayanan ay mangyari ng may mataas na paggalang sa karapatan ng mga Katutubong Pamayanang Kultural/ Katutubong Pamayanan sa pamamahala, pagpaunlad, paggamit ng kanilang sariling lupa at mga yaman sa loob ng kanilang lupaing ninuno at lupang ninuno;

"WHEREAS, the parties agreed to secure the Free and Prior Informed Consent (FPIC) of the KICC/IPs, in accordance with the process and stated under NCIP A.O No. 3 series of 2012;

"YAMANG, ang mga Partido ay nagkasundo na kunin ang Malaya, Nauna, at Malinang na pagsang-ayon ng mga KICC/IPs, sang-ayon sa mga proseso na itinatadhana ng NCIP A.O No 3, Serye 2012;

"WHEREAS, as part of the process of securing the Free and Prior Informed Consent of affected ICCs/IPs, whenever consent to the proposed project is given, the requisite Memorandum of Agreement (MOA) containing the terms and conditions for the implementation of the project, as well as the benefits for proponent, affected IC/IP community, and the NCIP;

"YAMANG, bilang bahagi ng proseso ng pagkuha ng Malaya, Nauna at Malinang na Pagsang-ayon ng mga apektadong katutubo, kung ang kinakailangan Pagsang-ayon sa iniiaing proyekto ay ibibigay, ang pagsasagawa ng Kalatas ng Kasunduan (MOA) na naglalaman ng mga termino at kondisyones para sa pagpapatupad ng proyekto ganoon din ang mga benepisyo para sa apektadong Katutubong Pamayanan Kultural/Katutubong Pamayanan, sa pagitan ng nagsusulong ng proyekto, apektadong Katutubong Pamayanan/Katutubong Pamayanan at ng NCIP;

[Signatures]

"NOW, THEREFORE, for and in consideration of the foregoing premises and mutual covenants, the KICC/IPs, DPWH and NCIP hereby agree as follows:

"NGAYON, SAMAKATUWID, para sa at alang-alang sa mga binanggit na tadhana sa itaas, ang KICC/IPs, DPWH at NCIP ay nagkasundo na gaya ng mga sumusunod:

ARTICLE I- THE PROJECT PANGKAT I- ANG PROYEKTO

Section 1. Description. The Project consists of conduct of study and construction of the Dalton Pass East Alignment Road Project (Tunnel) which entails construction of a sixty (60 meter) meters road and tunnel which will traverse approximately twenty-five Kilometers (25 Kms.) of the Ancestral Domain of the Kalanguya Indigenous Cultural Community/ Indigenous Peoples of Barangay Capintalan, Putlan, Minuli and Salazar, Carranglan, Nueva Ecija.

Seksyon 1. Paglalarawan. Ang Proyekto ay may kinalaman sa pag-aaral at pagpapatayo ng Dalton Pass East Alignment Road Project (Tunnel) na may kaakibat na paggawa ng konkretong daan at lagusang pang ilalim ng lupa na daraan sa loob ng nasasakupan ng Lupaing Ninuno ng mga Katutubong Pamayanang Kultural / Katutubong Pamayanan ng mga Kalanguya sa mga Barangay ng Capintalan, Putlan, Minuli at Salazar sa Bayan ng Carranglan, Nueva Ecija.

Section 2. Commencement of the Project. The phases of this project shall commence, provided that the obligation of DPWH under this agreement shall be fulfilled and the required Certificate Pre-Condition is issued.

Seksyon 2. Pagsisimula ng Proyekto. Ang mga yugto ng Proyektong ito ay magsisimula lamang kung ang mga obligasyon ng DPWH sa ilalim ng Kasunduang ito ay magawa at ang kinakailangang Certification Pre-Condition ay maigawad na sa DPWH.

Section 3. Rights Holders. The rights holders of this Project are the Kalanguya ICCs/IPs of Barangays Capintalan, Piut, Minuli, and Salazar, Carranglan, Nueva Ecija.

Seksyon 3. Ang Mga Nagmamay-ari at May Karapatan sa Proyekto. Ang mga nagmamay-ari at may karapatan sa Proyekto ay ang Kalanguya ICCs/IPs ng mga Barangay ng Capintalan, Putlan, Minuli, at Salazar, Bayan ng Carranglan, Nueva Ecija.

ARTICLE II COVERAGE AND LIMITATIONS OF CONSENT AND MOA PANGKAT II

SAKLAW AT HANGGANAN NG PAHINTULOT AT KALATAS NG KASUNDUAN

Section 1. Free and Prior Informed Consent. The Kalanguya ICCs/IPs of Barangay Capintalan, Putlan, Minuli, and Salazar, Carranglan, Nueva Ecija, hereby manifest that they have been fully informed of their rights as ICCs/IPs, and of the application of DPWH, and hereby manifests their endorsement of, and free voluntary consent to, the proposed Dalton Pass East Alignment Alternative Road Project to be undertaken by DPWH on their Ancestral Domain as covered under their proposed project.

Seksyon 1. Malaya, Nauna at Malinang na Pagsang-ayon. Ang mga Kalanguya ICCs/IPs ng mga Barangay ng Capintalan, Minuli, Putlan, at Salazar, Carranglan, Nueva Ecija ay nagpapahayag na sila lubos na napag bigyang alam ng kanilang mga karapatan bilang Katutubong Pamayanang Kultural/Katutubong Pamayanan at sa aplikasyon ng DPWH at nagpaphayag ng kanilang pagsang-ayon at malayang pahintulot sa Proyektong Dalton Pass East Alignment Project na gagawin ng DPWH sa kanilang Lupaing Ninuno pati na rin ang kanilang karapatan sa ilalim ng kanilang iminumungkahing proyekto.

Dalton Pass East

Section 2. Limitations of Consent and New Free Prior Informed Consent. This MOA and consent herein granted by the Kalanguya Indigenous Cultural Communities/ Indigenous Peoples of Barangays Capintalan, Minuli, Putlan, and Salazar, Carranglan, Nueva Ecija shall cover the activities embraced in the Dalton Pass East Alingment Road Project (Tunnel) such as but not limited to the conduct of the feasibility study, planning, design, construction of the access roads, temporary project offices, tunnel, and any other project related infrastructure of the aforementioned Project. Any activity that is not included among those permitted, in the phases of this Project such as mining and etc., shall necessitate a new Free Prior Informed Consent from the Kalanguya ICCs/IPs thus it is understood that any activity related to treasure hunting, prospecting, quarry, mining of any valuable or precious minerals, taking of any flora and fauna shall not be allowed. Further the DPWH its employees, contractors, and consultants shall only be allowed access to the parts of the Kalanguya Ancestral Domain which will traverse the Dalton Pass East Alingment Project (Tunnel). The consent must not be used for any other purpose not agreed or disclosed to the Kalanguya ICC/IP.

Section 2. Saklaw at hanganan ng Pagsang-ayon, at Panibagong Malaya, Nauna at Malinang na Pagsang-ayon. Ang Kalatas ng Kasunduan at pagsang-ayong ipinagkakaloob ng Katutubong Pamayanan ng mga Kalanguya ng mga Barangay Capintalan, Minuli, Putlan, at Salazar ng Bayan ng Carranglan, Nueva Ecija ay sumsaklaw sa lahat ng gawaing napapaloob, gaya ng paggawa ng Feasibility Study, pagpapalano at pagdisenyo, Kumpletong pagpapatupad, operasyon, pagpapatakbo at/ o paggamit ng proyekto na kilala bilang Dalton Pass East Alignment Alternative Road Project, kabilang at hindi limitado lamang sa pansamantalang tirahan ng mga tauhan, mga kalsada, pansamantalang tanggapang opisina ng proyekto, tunnel, at iba pang kinakailangang imprastruktura, at iba pang kinakailangang gawain, kaugnay ng nabanggit na Proyekto. Anumang gawain na hindi alisunod o napapaloob sa mga bagay na pinahintulutan sa anumang yugto ng Proyektong ito tulad ng pagmimina at iba pa ay mangangailangan ng panibagong Malaya, Nauna, at Malinang na Pagsang-ayon mula sa Kalanguya ICCs/IPs. Ito ay nangangahulugan na anumang gawain may kinalaman sa pag hukay ng tagong yaman (treasure hunting), pag quarry, pagmimina ng mga mahal at may halagang mineral, pagkuha ng mga kakaibang hayop at halaman ay mahigpit na ipinagbabawal.

ARTICLE III

COMMITMENTS AND OBLIGATIONS OF THE KALANGUYA INDIGENOUS PEOPLES

PANGKAT III

MGA PANANAGUTAN AT TUNGKULIN NG MGA KATUTUBONG PAMAYANAN NG MGA KALANGUYA

The KALANGUYA INDIGENOUS PEOPLES shall have the following responsibilities and obligations:

Ang mga KATUTUBONG PAMAYAN NG KALANGUYA ay may mga sumusunod na pananagutan at tungkulin:

Section 1. Acknowledge their Free and Prior Informed Consent.

Seksyon 1. Kilalanin ang kanilang Malaya at Nauna, Malinang na Pagsang-ayon.

- (a) Manifest now and throughout the effectivity of this MOA that as a result of the FPIC activities conducted, supervised and administered by the NCIP, including NCIP's independent advice to the Kalanguya Indigenous Peoples, they have been fully informed of their rights as Indigenous Cultural Communities/ Indigenous Peoples and of the details of the Dalton Pass East Alignment Alternative Project of DPWH. In this regard the Kalanguya Indigenous Peoples hereby grant their free and voluntary consent to the Dalton Pass East Alignment Project (Tunnel).

[Signatures]

- (a) Maipahayag ngayon at sa kabuaang panahong may bisa ang Kasunduang ito na matapos ang mga gawaing pinasinayan at pinamahalaan ng NCIP para sa Malaya, Naunang, Malinang na Pagsang-ayon, kabilang ang malayang pagpapayo ng NCIP sa Katutubong Pamayanan ng mga Kalanguya, lubusang naipaunawa sa kanila ang kanilang mga karapatan bilang mga Katutubong Kulturang Pamayanan/ Katutubong Pamayanan, at ang mga nilalaman ng Proyekto ng DPWH. Kaugnay nito, ipinahahayag dito ng mga Katutubong Pamayanan ng mga Kalanguya ang kanilang pagsuporta at Malaya at kusang-loob na pagsang-ayon sa Proyekto.
- (b) Consistent with the above manifestation, the Kalanguya Indigenous Peoples hereby grant access to their ancestral domain for the planning, development, construction, operation and maintenance of the Dalton Pass East Alignment Alternative Road (Tunnel) Project.
- (b) Alinsunod sa pahayag na nabanggit, nagbibigay ng pahintulot dito ang Katutubong Pamayanan ng mga Kalanguya ICC/IPs na mapasok ang kanilang lupaing ninuno kaugnay ng pagpapalano, pagpapaunlad, pagtatayo, pagpapatakbo, operasyon, at pagpapatuloy ng Dalton Pass East Alignment Alternative Road (Tunnel) Project.

Section 2. Recognize and respect the rights of DPWH.

- (a) Except in certain areas of the Ancestral Domain that are classified as restricted in view of cultural beliefs and traditions, sacred places as identified in the ADSDPP and sanctuaries for wildlife, the Kalanguya ICCs/IPs hereby grant access to DPWH, its employees, contractors, consultants, and other representatives, to their lands, in so far as the Project activities require entry thereto and use thereof, provided that all activities shall be strictly monitored at all times by the chosen representatives of the Kalanguya ICC/IPs.
- (a) Maliban sa natatanging lugar ng Lupaing Ninuno na nailaan o ipinagbabawal ang pagpasok sa kadahilanan ng paniniwala sa kultura at tradisyon, mga sagradong lugar na naisulat sa ADSDPP at kanlungan ng mga kakaiba o natatanging hayop at halaman, ang mga Kalanguya ICC/IP ay nagbibigay pahintulot sa DPWH, sa kanilang mga empleyado, kontraktor, mga consultant, at iba pang mga kinatawan sa kanilang lupain, hangat ang mga ito ay may kinalaman sa Proyekto o anumang isasagawa na nangangailangan ng pagpasok at pag gamit sa mga nasabing lugar. bastat lahat ng mga gawain ay mahigpit na babantayan sa lahat ng oras ng mga napiling kinatawan ng mga Kalanguya ICC/IPs.

ARTICLE IV COMMITMENTS AND OBLIGATIONS OF DPWH PANGKAT IV MGA PANANAGUTAN AT TUNGKULIN NG DPWH

DPWH and its authorized contractors and consultants for the project shall have the following responsibilities and obligations:
Ang mga pananagutan at tungkulin ng DPWH, ang kanilang awtorisadong contractor at consultant:

Section 1. Respect the Rights of the Kalanguya ICC/IPs.

Seksyon 1. Igalang ang mga karapatan ng Katutubong Pamayanan ng mga Kalanguya.

- (a) Respect the rights of the Kalanguya ICC/IP to their Ancestral Domain, ownership of all the natural resources therein, traditional land ownership system, right to self-governance and empowerment, social justice and human rights and their cultural integrity as provided under Republic Act 8371. It shall refrain from committing acts that would violate or diminish the said rights.

- (a) Igalang ang mga karapatan ng Katutubong Pamayanan ng Kalanguya sa kanilang Lupaing Ninuno, pagmamay ari sa lahat ng likas na yaman na matatagpuan dito, tradisyunal na sistema ng pagmamay-ari ng lupain, karapatan sa pamamahala at pagpapalakas ng sarili, katarungang panlipunan, at karapatang pantao, at sa kanilang kultural na integridad ayon sa Batas Republika Blg. 8371. liwasan nito (DPWH, ang kanilang awtorisadong contractor at consultant) na gumawa ng mga hakbang na lalabag o makakabawas sa mga nasabing karapatan.
- (b) Respect the rights of the Kalanguya ICC/IP to preserve and develop their culture, customary law, traditions, practices, and institutions. Towards this end, DPWH shall implement the Dalton Pass East Alignment Road Project (Tunnel) and perform its obligations herein stated and/ or by law taking into consideration the practices, customs, traditions, values, beliefs and interests and institutions of the Kalanguya ICC/IP. DPWH shall be willing to abide by reasonable cultural obligations that may be imposed by the Kalanguya ICC/IP elders and leaders. DPWH shall bear reasonable expenses, in the amount of Fifteen-Thousand Pesos (Php 15,000.00) during groundbreaking of the civil works and project completion, such as for the performance of the necessary native rituals prior to the commencement the Project, in case of exhumation of any human remains the amount of Fifty-Thousand Pesos (Php 50,000.00) for the necessary native rituals per human remain.
- (b) Igalang ang Katutubong Pamayanan ng mga Kalanguya sa pangangalaga at paglililang ng kanilang kultura, kinaugaliang batas, mga tradisyon, mga gawi, at mga institusyon. Para dito, isasagawa ng DPWH ang Dalton Pass East Alignment Alternative Road Project at gagampanan ang mga tungkuling nakasaad dito at/ o sa batas, nang may pagsasa-alang-alang ng mga gawi, mga kaugalian, mga tradisyon, mga halagahan, mga paniniwala, interes, at mga institusyon ng Katutubong Pamayanan ng mga Kalanguya. Tatalima ang DPWH sa makatwirang pananagutang kultural na maaring ipatupad ng mga nakakatatanda/ lider ng Katutubong Pamayanan ng mga Kalanguya. Sasagutin ng DPWH ang makatwirang gastusin, sa halaga ng Labin Limang Libong Piso (Php 15,000.00) sa simula at pagtatapos ng Proyekto, sa pagtatanghal ng mga kinakailangang katutubong ritwal, at bago ang pagsisimula ng yugto ng proyekto, at bago ang pagsisimula ng pagpapatayo ng daan at lagusang ilalim ng lupa kung sakaling may mahuhukay na mga labi ng tao kinakailangang magkaroon muli ng ritwal na nagkakahalagang hindi lalampas sa Php 50,000.00 sa bawat labi ng tao.

Section 2. Support the social and economic development of members of the Kalanguya ICC/IP.

Seksyon 2. Suportahan ang panlipunan at pagpapaunlad-ekonomiya ng mga kasapi ng Katutubong Pamayannan ng mga Kalanguya.

- (a) DPWH and its authorized contractors and consultants shall give priority employment to qualified, competent and bonafide members of the Kalanguya ICC/IP rights holders of atleast thirty percent (30%) of contractor's requirement for skilled laborers and at least fifty percent (50%) of contractor's requirement for unskilled laborer shall be hired and they shall ensure that all benefits due to the employed members of the Kalanguya ICC/IP shall be given pursuant to the provisions of R.A. 6685. The skills that can be provided by qualified, competent and bona fide members of the Kalanguya ICC/IP shall not be outsourced by DPWH and its authorized contractors and consultants. In case, the number of workers required by DPWH and its authorized contractors and consultants is not met by the Kalanguya Indigenous Cultural Community/ Indigenous Peoples, DPWH may hire workers from neighboring barangays.

- (a) Bibigyan din ng DPWH ang kanilang awtorisadong contractor at consultant ng prayoridad sa trabaho ang mga nagmamay-ari ng lupaing ninuno na kwalipikado, may kakayahan at napatunayang kasapi ng Katutubong Pamayanang Kalanguya na kung saan dibababa sa Tatlungpung porsyento (30%) ng kinakailangan ng contractor para sa "skilled laborer" at dibababa sa Limampung porsyento (50%) ng kinakailangan ng contractor para sa "unskilled laborer" ay tatanggapin at sisiguraduhin nilang lahat ng mga benepisyo pang empleyado ay maibibigay sa mga miyembro ng Kalanguya ICC/IPs alinsunod sa R.A. 6685 Hindi ibibigay ng DPWH sa taga-labas ng Lupaing Ninuno ang mga gawaing kayang punan ng mga kwalipikado, may kakayahan at napatunayang kasapi ng Katutubong Pamayanang Kalanguya. Kung ang kinakailangan ng bilang ng mangagawa ay di kayang punan ng komunidad, maaring humanap ang DPWH, ang kanilang contractor at consultant ng mga manggagawa mula sa kalapit Barangay ng Bayan ng Carranglan, Nueva Ecija..
- (b) In case of accidents caused by project related activity/ies within the project site to the members of the Kalanguya ICC/IP who are employed by DPWH, its authorized contractor and consultant for the Project, the latter shall pay and shoulder all the medical expenses which shall arise by reason thereof.
- (b) Kung sakaling magkaroon ng aksidente patungkol sa pag sasagawa ng nasabing proyekto sa loob ng "project site" sa mga nakuhang kasapi ng Katutubong Pamayanang Kalanguya ng DPWH, ang kanilang awtorisadong contractor at consultant para sa Proyekto, ang DPWH, ang kanilang contractor, o consultant ang siyang sasagot sa lahat ng gastusing pang ospital at pang kalusugang babayaran dahil dito.
- (c) The easement mode of acquisition shall be used by the DPWH for lands which the Project shall require within the Ancestral Domain of the Kalanguya ICC/IPs.
- (c) Ang uri ng pagkuha ng paggamit ng lupaing ninuno ng DPWH sa lupa ng gagamitin para sa Proyekto ay "Easement Mode of acquisition".
- (d) The DPWH shall pay the appropriate compensation to the Ancestral Domain owners for the communal land which will be traversed by the Project. The valuation of the compensation would be based on Bureau of Internal Revenue zonal value pursuant to R.A. 10752 also know as "Right of Way Acquisition Act".
- (d) Ang DPWH ay magbabayad kaukulang halaga sa mga may ari ng Lupaing Ninuno para sa mga lupang komunal na daraanan ng nasabing Proyekto. Ang determinasyon ng halaga ng kabayaran ay batay sa pagsusuri na ipinatutupad ng BIR alinsunod sa R.A. 10752 o di kaya ang "Right of Way Acquisition Act".
- (e) The DPWH shall pay the appropriate compensation for the land, structures, improvements, crops (pursuant to the valuation of the Department of Agriculture), and trees (pursuant to the Department of Environment and Natural Resources) to the directly affected members of the Kalanguya ICC/IPs.
- (e) Ang DPWH ay magbabayad ng kaukulang halaga para sa lupang magagamit ng proyekto, istraktura, o kaayusan (improvement), mga pananim, at mga puno direktang apektadong kasapi ng mga Kalanguya ICC/IPs alinsunod sa Department of Agriculture at Department of Environment and Natural Resources.
- (f) The DPWH shall endeavor to avoid as much as practicable the traditional burial grounds of the Kalanguya ICC/IPs. In case the latter cannot be done, the human remains shall be exhumed and will be transferred to a different place subject to the conduct of the appropriate Indigenous Traditional practices and rituals the cost of which shall be borne by DPWH, subject to the condition that the amount used shall not exceed Fifty-Thousand pesos (Php 50,000.00) and shall be subject to the usual auditing and accounting rules and regulations. The declared protected areas and Sanctuaries as identified by the DENR, the Comprehensive Land Use Plan of each Barangay and shall not be disturbed and must be avoided by DPWH.

- (f) Ang DPWH ay pipilitin sa lubos nilang makakaya na iwasan ang mga katutubong libingan ng mga Kalanguya ICC/IPs. Kung sakaling hindi ito maiwasan ang mga buto at labi ng tao ay huhukayin at ililipat sa ibang lugar matapos gawin ang mga tradisyunal na ritwal ng Kalanguya ICC/IPs at ang lahat ng magagastos ay babayaran ng DPWH sa halagang hindi lalampas sa Limampung Libong Piso (Php 50,000.00) at alinsunod sa "auditing rules and regulations". Ang mga dekalradong "protected areas" at "Sanctuaries" na tinukoy ng DENR, Comprehensive Land Use Plan ng bawat Barangay ay kinakailangang iwasan ng DPWH.
- (g) The DPWH shall provide one set of cultural instruments (such as Gongs and traditional drum) to the Kalanguya ICC/IPs.
- (g) Ang DPWH ay magbibigay ng isang kabuoang katutubong instrument tulad ng Gangha at Holibaw.
- (h) Any soil, rocks, stones and boulders which shall be excavated or moved by reason of the project shall be stored in an appropriate place identified by ICCs/IPs using their traditional knowledge, and affirmed by the DENR and in accordance with Environmental Compliance Certificate (ECC). In case there are surplus or unsuitable materials, and the said materials shall be needed by the Kalanguya ICC/IPs the DPWH shall assist in the transport the same within the Ancestral Domain upon written request of the Kalanguya ICC/IPs.
- (h) Anumang lupa at ibat-ibat uri ng mga baton na mahuhukay o mailipat dahil sa proyekto ay ilalagay sa akmang lugar na tinukoy ng mga Kalanguya base sa kanilang katutubong kaalaman na papanigan ng DENR na alinsunod sa "Environmental Compliance Certificate" (ECC). Kung sakali na may sobra o "unsuitable materials" ay kinakailangan ng mga Kalanguya ICC/IPs ang DPWH ay kinakailangang tumulong sa paglilipat ng nsabing materyales sa loob ng Lupaing Ninuno sa pamamagitan ng nakasulat na kahilingan ng mga Kalanguya ICC/IPs.

Section 4. Extend appropriate assistance to members of the Kalanguya ICC/IP in times of emergency.

Seksyon 4. Maglaan ng angkop na tulong sa mga kasapi ng Kalanguya ICC/IPs sa panahon ng kagipitan.

Render appropriate and reasonable assistance in the form of services to the Kalanguya ICC/IP in the event of calamities and natural disasters during the duration of the construction of the Project such as clearing of access roads and transport of IPs to and from the evacuation center to the directly affected ICC/IPs within the project site.

Magbigay ng angkop at makatwirang tulong sa Katutubong Pamayanang Kalanguya kung mayroong mga kalamidad/ sakuna habang ginagawa ang Proyekto sa pamamagitan ng "clearing of access roads" at paglipat ng mga Katutubo papunta sa "evacuation site" at pabalik sa tahanan ng mga direktang apektadong katutubo na napapaloob sa nasabing proyekto.

Section 5. Ensure responsible construction and operation of the Dalton Pass East Alignment Road Project (Tunnel).

Seksyon 5. Tiyakin ang reponsableng pagtatayo at operasyon ng Dalton Pass East Alignment Road Project (Tunnel).

(a) Implement the development, construction, operation and maintenance of the Dalton Pass East Alignment Road Project (Tunnel) in accordance with applicable national prescribed designs and standards.

(a) Ipatupad ang pagtatayo at operasyon ng Dalton Pass East Alignment Road Project (Tunnel) ayon sa naaayon at itinakdang pambansang disenyo at pamantayan.

(b) Properly inform and advise the entities, contractors, persons or technical people who will be involved in the construction and operation of the Dalton Pass East Alignment Road Project (Tunnel) of the contents of this MOA for proper guidance.

(b) Maayos na ipaalam at payuhan ang mga pangkat, kontraktor, mga indibidwal o mga taong sangkot sa pagtatayo at operasyon ng Dalton Pass East Alignment Road Project (Tunnel), tungkol sa nilalalman ng Kasunduan upang magbigay ng wastong gabay.

Section 6. Protect the environment

Section 6. Pangalagaan ang kapaligiran.

(a) Ensure that the construction, operation, and maintenance of the Dalton Pass East Alignment Road Project (Tunnel) shall have minimum impact on the environment and adopt the necessary mitigating measures to lessen whatever negative effects of the same to the environment. In this regard, it shall comply with the Environmental Compliance Certificate (ECC) to prevent or mitigate the negative effects of the construction and operation of the Dalton Pass East Alignment Road Project (Tunnel) in coordination with the DENR.

(a) *Tiyaking limitahan ang epekto sa kapaligiran ng pagtatayo, operasyon, at pagpapatuloy ng Dalton Pass East Alignment Road Project (Tunnel) at magtakda ng mga kailangang hakbang upang mabawasan ang anumang masamang epekto nito sa kapaligiran. Sa puntong ito, susundin nito ang Environmental Compliance Certificate (ECC) upang mahadlangan o mabawasan ang masasamang epekto ng pagtatayo at operasyon ng Proyekto sa pamamagitan ng koordinasyon sa DENR.*

(b) During the effectivity of this MOA, the DPWH shall abide by the measures to protect the forests and watershed areas found within the Ancestral Domain pursuant to the provisions of the ECC and the commitment in the Environmental Management Plan (EMP).

(b) *Habang may bisa ang Kasunduang ito, susunod ang DPWH sa mga hakbang upang pangalagaan ang mga kagubatan at tubig-kanlungan sa loob ng Lupaing Ninuno alinsunod sa mga probisyong nakasaad sa ECC at pangakong nakasaad sa "Environmental Management Plan (EMP)".*

Section 7. Requests and demands of the Kalanguya ICC/IPs discussed during the FPIC Process under the mandate of DPWH.

Section 7. Mga kahilingan at kinakailangan ng mga Kalanguya ICC/IPs na napagusapan sa pagsasagawa ng proseso ng Malaya, Nauna at Malinang na Pagsang-ayon na parte ng Mandato ng DPWH.

The requests and demands of the Kalanguya ICC/IP discussed during the FPIC processes which are under the mandate of DPWH were approved. These were the construction of the following:

- A. Access Road to the Main Highway
- B. Farm-to-Market Road
- C. Evacuation Center

Ang mga kahilingan ng mga Kalanguya ICC/IPs na nabanggit nuong Malaya, Nauna at Malinang na Pagsang-ayon na parte ng mandato ng DPWH ay inaprobahan nila bilang Proponent. Eto ay ang mga pagtatayo ng mga sumusunod:

- A. Kalsada mula komunidad hanggang sa pangunahing kalsada (Access Road to the Main Highway)
- B. Kalsada mula sa kabukiran, papunta sa mga pamilihan (Farm-to-Market Road)
- C. Sentrong Kanlungan/Likasan (Evacuation Center)

Section 8. Requests and demands of the Kalanguya ICC/IPs discussed during the FPIC Process but is not part of the mandate of DPWH.

Section 8. Mga kahilingan at kinakailangan ng mga Kalanguya ICC/IPs na napagusapan sa pagsasagawa ng proseso ng Malaya, Nauna at Malinang na Pagsang-ayon ngunit.

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The request and demands of the Kalanguya ICC/IP discussed during the FPIC process but is not part of the mandate of DPWH to deliver shall be embodied in a request letter signed by authorized signatories of the Kalanguya ICC/IPs which is made part of the Memorandum of Agreement as Annex B. The DPWH shall ensure that the request letter shall be endorsed to the concerned government agencies mandated to deliver the same and urge on behalf of the Kalanguya ICC/IPs.

Ang mga kahilingan ng mga Kalanguya ICC/IPs na nabanggit nuong FPIC process ngunit hindi parte ng mandato ng DPWH upang ibigay at isusulat at magiging arte ng Kalatas ng Kasunduang ito bilang Annex B. Ang DPWH ay sisiguraduhing ang mga kahilingang ito ay mai endorse at maibigay sa napag atasang sangay ng Gobyerno na magpatupad ng nasaking mga kahilingan.

**ARTICLE V - COMMITMENTS
AND OBLIGATIONS OF THE NATIONAL COMMISSION ON INDIGENOUS PEOPLES
(NCIP)
PANGKAT V- MGA PANANAGUTAN
AT TUNGKULIN NG PAMBANSANG KOMISYON NG MGA KATUTUBONG
PAMAYANAN (NCIP)**

The NCIP represents and warrants that all processes and activities required as the conduct of field-based investigation, of community assemblies and decision meeting to secure the free and prior informed consent of the Kalanguya ICC/IPs and enter into this Agreement were undertaken in accordance with the provisions of NCIP Administrative Order No. 03, series of 2012.

Ginagarantiyahan ng NCIP na ang lahat ng prosesong tulad ng field-based investigation, community assemblies, consensus-building at decision meeting ay isinagawa upang makuha ang Malaya Nauna at Malinang na Kapahintulutan (FPIC) ng Kalanguya ICC/IPs at maisagawa ang Kasunduang ito nang may ganap na pagsunod sa mga prosesong itinatakdang ng NCIP Administrative Order No. 03, series of 2012.

Moreover, after the written Resolution of Consent is issued by the Kalanguya ICC/IPs, the Memorandum of Agreement is signed by the parties and all the other processes under A.O. 03, series of 2012 are complied with, the NCIP shall then immediately issue the Certification Precondition (CP) in favor of the DPWH.

Gayundin, matapos na mag-isyu ang Kalanguya ICC/IPs ng Resolusyon ng Pagpayag/Pagsang-ayon, mapirmahan ang Kasunduang ito at maisagawa ang iba pang prosesong itinatadhana ng A.O. 03, series of 2012, ang NCIP ay mag-iisyu agad ng Certification Precondition (CP) pabor sa DPWH.

In addition the NCIP shall have the following responsibilities:

Bilang Karagdagan, ang NCIP ay mayroong mga responsibilidad:

Section 1. Assist the Kalanguya ICC/IP

Seksyon 1. Tulungan ang Katutubong Pamayanan ng mga Kalanguya ICC/IP.

(a) Assist the Kalanguya ICC/IP in organizing and capacitating the Indigenous Peoples Organization (WADAKA-IPO) that shall receive and manage the compensation for the communal land.

(a) Tulungan ang Katutubong Pamayanan ng Kalanguya sa pag-aayos at pagpapalakas ng IPO na siyang tatanggap at mamahala ng kabayaran para sa daanan ng Proyekto sa lupaing Ninuno.

(b) Provide technical assistance to the Kalanguya ICC/IP in the formulation of the Ancestral Domain Sustainable Development and Protection Plan (ADSDPP).

(b) Maglaan ng tulong teknikal sa Katutubong Pamayanan ng Kalanguya sa pagbubuo ng Ancestral Domain Sustainable Development and Protection Plan (ADSDPP).

[Signatures]
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Section 2. Establish and lead MOA Joint monitoring team.

Seksyon 2. Bumuo at pangunahan ang pagsubaybay sa Kasunduan at para sa Joint Monitoring team.

Discharge/ perform its responsibilities provided for in Article VII (Monitoring and Evaluation, and Grievance and Redress Mechanisms) and shall act as the disbursing office in the conduct/ observance of the traditional rituals (paltik, transfer of remains) subject to accounting and auditing rules.

Tuparin ang mga tungkuling isinasaad sa Pangkat VII (Pagsubaybay at Pagtatasa at mga Mekanismo para sa Paglutas ng Di-pagkakaunawaan) at magsisilbing "disbursing office" sa pagsasagawa ng mga tradisyunal na ritwal (paltik, transfer of remains) na naayon sa panuntunan ng COA.

ARTICLE VI**UTILIZATION OF FUNDS AND PROJECT IMPLEMENTATION****PANGKAT VI****PAG GAMIT NG PONDO AY PAGPAPATUPAD NG PROYEKTO**

Section 1. Project Implemetation. All projects and programs for the benefit of the Kalanguya ICC/IP shall be implemented following their relevant ADSDPP.

Seksyon 1. Pagpapatupad ng Proyekto. Lahat ng proyekto at programa para sa kapakanan ng Katutubong Pamayanang Kalanguya ay ipapatupad ng ayon sa ADSDPP.

Section 2. Manner of payment of just compensation. The compensation for communal lands shall be deposited directly to the bank account of WADAKA as the NCIP recognized IPO of the Kalanguya ICC/IP Barangays Capintalan, Putlan, Minuli, and Salazar, Carranglan, Nueva Ecija. For the just compensation of structures, improvements, crops, and trees as certified by the IPO, Barangay concerned and validated by NCIP, the payment shall be directly made to the individual owner

Seksyon 2. Paraan ng pagbabayad ng "Just Compensation". Ang kabayaran ng paggamit sa lupaing ninuno ay idirektang idepsoito sa account ng WADAKA na kinikilala ng NCIP na IPO ng Katutubong Kalanguya sa mga Barangay Capintalan, Putlan, Minuli, at Salazar, Bayang ng Carranglan, Nueva Ecija. Para sa kabayaran ng "just compensation" sa mga istraktura, "improvements", mga pananim, at mga puno na pinatunayan ng IPO, ng kaukulang Barangay, at nasuri ng NCIP, ang bayad ay direktang ibibigay sa nagmamay-ari.

ARTICLE VII**MOA MONITORING AND EVALUATION, GRIEVANCE, AND REDRESS MECHANISMS****PANGKAT VII – PAGSUSUBAYBAY AT PAGTATASA SA KASUNDUAN, MGA MEKANISMO PARA SA PAGLUTAS NG DI-PAGKAKAUNAWAAN****Section 1. Joint Monitoring and Grievance Team.**

(a) Within fifteen (15) days from the effectivity of this MOA, the parties shall form a Joint Monitoring and Grievance Team (JMGT) composed of four (4) members, one (1) member of the Kalanguya ICC/IP representative, one (1) DPWH representative, one (1) member from NCIP-NEPO, and one (1) from NCIP Regional Office. The JMGT shall serve two functions: (i) as a monitoring body to ensure the Parties' compliance with the terms of this MOA and (ii) as a grievance and conciliation body to undertake joint review of issues relating to a Party's performance of its obligations under this MOA.

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(a) Sa loob ng labinlimang (15) araw mula sa pagiging epektibo ng Kasunduang ito, bubuo ang MGA PARTIDO ng isang Joint Monitoring and Grievance Team (JMGT) na may apat (4) na kasapi: isang (1) kasapi galing sa Kalanguya ICC/IP, isang (1) na kasapi galing sa DPWH, isang (1) kasapi galing sa NCIP-NEPO, at isang (1) kasapi galing sa NCIP Regional Office na siyang mamumuno sa JMGT. Ang JMGT ay magkakaroon ng dalawang tungkulin: (i) bialng isang pangkat na tagasubaybay upang matiyak ang pagsunod ng mga Partido sa mga panuntuan ng Kasunduang ito at (ii) bilang isang pangkat na dulugan ng reklamo at tagapagkasundo na magsasagawa ng magkasanib na pagrerepaso ng mga isyung kaugnay ng pagtupad ng mga Partido sa mga pananagutan na nakasaad sa Kasunduang ito.

(b) Within fifteen (15) days from its constitution, the JMGT shall formulate its own guidelines and delineate the specific roles/ responsibilities, and identify the process to be followed in the performance of its duties, taking into consideration customary laws/ rules, general principles of justice and fairness, existing rules and guidelines of the NCIP, and the applicable provisions of this MOA. Notwithstanding the foregoing, the JMGT shall conduct monitoring of the Parties' compliance with this MOA semi-annually.

(b) Sa loob ng labinlimang (15) araw mula sa pagkakabuo nito, gagawa ang JMGT ng sarili nitong mga patakaran at ilalarawan ang mga natatanging gapanin/tungkulin, at tutukuyin ang prosesong susundin sa pagtupad ng mga tungkulin, na isinasaalang-alang ang mga kinaugaliang batas/tuntunin pangkalahatang prinsipyo ng katarungan at pagiging patas, mga umiiral na tuntunin at patakaran ng NCIP, at mga mailalapat na probisyon ng Kasunduang ito. Sa kabila nito, isasagawa ng JMGT nang daalawang beses isang taon ang pagsubaybay sa pagsunod ng mga Partido ng Kasunduang ito.

(c) Persons other than members of the JMGT may be invited by the JMGT to attend a meeting in an advisory or observer capacity. However, such persons, shall have no right to participate in the meeting unless specifically requested.

(c) Maaring mag-anyaya ng ibang indibidwal ang JMGT maliban sa mga kasapi nito upang dumalo sa pagpupulong bilang tagamasid o tagapayo. Gayunman, hindi maaring makibahagi sa pagpupulong ang mga indibidwal na ito maliban na lamang kung hilingin ng JMGT.

(d) Both DPWH and the Kalanguya ICC/IP agree that any conflict between the parties must first be raised with the JMGT for resolution before elevating it to the other third parties or institutions.

(d) Kapwa sang-ayon ang DPWH at ang KICC/IP na anumang di-pagkakaunawaan ng mga Partido ay dapat munang idulog sa Partido ay dapat munang idulog sa JMGT upang malutas bago ito ilapit sa ikatlong Partido o mga institusyon.

Section 2. Monitoring and Evaluation Scheme.

Seksyon 2. Pamamaraan sa Pagsubaybay at Pagtatasa.

(a) **FINANCIAL AND MANAGEMENT AUDIT.** The NCIP shall regularly conduct financial and management audit of the IPO which manages on behalf of the Kalanguya ICC/IP the compensation payments of DPWH and shall exercise its vistorial powers as provided by law. Copies of the audit report shall be given to all parties.

(a) **PAGTUTUOS SA PANANALAPI AT PAMAMAHALA.** Magsasagawa ng regular na pagtutuos ang NCIP ukol sa pananalapi at pamamahala ng IPO na siyang mamamahala para sa Kalanguya ICC/IP ng mga kabayaran para sa paggamit sa lupaing ninuo ng DPWH. Gagamitin ng NCIP ang kapangyarihang bisitoryal nito alinsunod na batas. Bibigyan ang lahat ng Partido ng mga kopya ng ulat ng pagtatasa.

(b) **OCCULAR INSPECTION.** The NCIP shall conduct ocular inspection of the project announced or not announced at the time of construction or implementation in accordance with the MOA. DPWH shall provide full assistance in giving necessary information to the NCIP in the conduct thereof.

(b) **INSPEKSYONG OKULAR.** Ang NCIP ay magsasagawa ng inspeksyon ng proyekto sa panahon ng konstruksyon o implementasyon upang siguruhin ang tamang pagpapatupad na naayon sa mga kondisyon ng nakasaad sa MOA. Ang DPWH ay magbibigay ng ganap na tulong sa NCIP sa pagsasagawa nito

(c) DPWH shall submit to the NCIP and JMGT annual reports as to the compensation paid, benefits granted and programs and/or projects implemented.

(c) Magpapasa ang DPWH sa NCIP at JMGT ng mga taunang ulat ng mga kabayaran paggamit sa lupaing niuno na binayaran, mga benepisyo at programa at/o proyektong ipinatupad.

(d) **SUBMISSION of REPORTS.** The NCIP shall require the Kalanguya ICC/IP through their IPO to submit to the NCIP and JMGT semi annual reports on how the funds received were utilized stating therein the projects or programs implemented, detailed cost of implementation, period of implementation, status of implementation, names of beneficiaries and amount of compensation released and other relevant information. Said reports shall be prepared and signed by the elders/ leaders on the part of Kalanguya ICC/IP and the officers of the Organization on the part of the IPO (WADAKA).

(d) **PAGSUSUMITE NG MGA ULAT.** Aatasan ng NCIP ang Kalanguya ICC/IP, sa pamamagitan ng kanilang IPO, na pasumite sa NCIP at JMGT ng ulat dalawang (2) beses sa isang taon na nagtatala ng paggamit ng natanggap na pondo na kabayaran sa paggamit sa lupaing ninuno, ang mga proyekto o programang ipinatutupad, detalyadong gastos sa pagpapatupad, panahon ng pagpapatupad, kalagayan ng pagpapatupad, mga pangalan at halaga ng naibigay na kabayaran para paggamit ng Lupaing Ninuno at iba pang mahalagang datos. Ang mga nasabing ulat ay ihahandaat lalagdaan ng mga nakakatanda/ lider ng DICC/IP at ng mga opisyal ng organisasyon sa bahagi ng IPO.

(e) The NCIP, together with the JMGT, and an independent auditor shall conduct an annual examination and audit of the reports submitted by DPWH and the IPO to determine compliance with the terms and conditions of the MOA, including the plans and programs provided herein.

(e) Ang NCIP, kasama ang JMGT, at isang independiyenteng o walang pinapanigang tagasuri ay magsasagawa ng taunang pagsusuri at pagtutuos ng mga ulat DPWH at ng IPO upang matukoy kung sinusunod ang mga panuntunan at kondisyon ng Kasunduan, kabilang ang iba pang plano at programang nakasaad dito.

(f) NCIP shall report the audit findings to the JMGT within (15) days from completion of the audit findings. The JMGT, taking into consideration the NCIP report, shall determine whether or not a party has committed any violation under this MOA. Disputes with respect to the audit findings shall be considered a Dispute subject of the Grievance Mechanism.

(f) Iulat ng NCIP ang mga resulta ng pagsusuri sa JMGT sa loob ng labindalima (15) araw pagkaraang matapos ang mga pagsusuri. Tutukuyin ng JMGT, habang isinasalang-alang ulat ng NCIP, kung ang isang Partido ay lumabag o hindi sa mga nakasaad sa Kasunduang ito. Ang mga di-pagkakaunawaang kaugnay ng mga resulta ng pagtutuos ay ituturing na Di-pagkakaunawaang idadaan sa Mekanismo ng Reklamo.

(g) **MONITORING BY NCIP.** Notwithstanding the creation of a JMGT and pursuant to its mandate under R.A. 8371, the NCIP shall independently monitor and evaluate compliance by all parties of the terms and conditions of this Agreement in order to ensure faithful compliance of the terms of this Agreement.

(g) **PAGSUSUBAY NG NCIP.** Maliban sa pagtatag ng JMGT at alinsunod sa mandato nito ilalim ng Batas Republika blg. 8371, ang NCIP ay magsasagawa ng independiyenteng pagsubaybay at pagtatasa ng pagtupad ng lahat ng Partido sa mga tuntunin at kondisyon ng Kasunduang ito upang tiyakin ang pagtupad dito nang tapat na nasa tamang panahon

Presangay

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
PROVINCE OF Nueva Ecija) S.S.
MUNICIPALITY OF GABANATHIAN)
X-----GFX

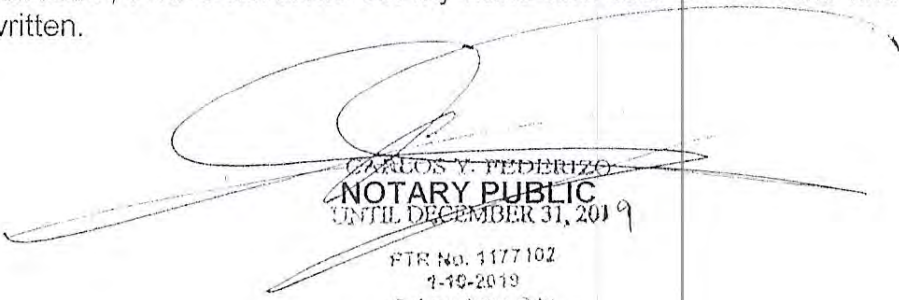
BEFORE ME, A NOTARY PUBLIC for and in the Province of Nueva Ecija,
Philippines, this ____ day of NOV 12 2019 came and appeared:

<u>NAME</u>	<u>I.D. NO./CTC NO.</u>	<u>DATE & PLACE OF ISSUE</u>
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known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledged to me that the same is their free and voluntary act and deed, and that of the IP/IC community in whose behalf, he has acknowledged the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date and at the place first above-written.


CARLOS Y. FEDERIZO
NOTARY PUBLIC
UNTIL DECEMBER 31, 2019

PTR No. 1177102
1-10-2019
Cabanatuan City

Doc No. 347
Page No. 31
Book No. 7
Series of 2019

ANNEX B

Accountability Statements

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

SWORN STATEMENT OF ACCOUNTABILITY OF THE PROJECT PROPONENT

This is to certify that all the information and commitments in this **ENVIRONMENTAL IMPACT STATEMENT (EIS) REPORT** for the Department of Public Works and Highways (DPWH) **DALTON PASS EAST ALIGNMENT ROAD PROJECT** located in the Municipalities of Aritao and Santa Fe, Nueva Vizcaya & Municipality of Carranglan, Nueva Ecija are accurate and complete to the best of our knowledge, and that an objective and thorough assessment of the Project was undertaken in accordance with the dictates of professional and reasonable judgment. Should I/we learn of any information, which would make this **EIS REPORT** inaccurate, I/we shall immediately bring the said information to the attention of the DENR-EMB.

I hereby certify that no DENR-EMB personnel were directly involved in the preparation of this **EIS** for the **DALTON PASS EAST ALIGNMENT ROAD PROJECT** other than to provide procedural and technical advice consistent with the guidelines in the DAO 2003-30 Revised Procedural Manual.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to state material information in this **EIS**.

In witness whereof, I hereby set my hands this ____ day of ____ at _____.

EMIL K. SADAIN, CESO I
NAME OF PROPONENT HEAD

SIGNATURE

Senior Undersecretary
Position

Department of Public Works and Highways
Unified Project Management Office
Company Name

JUN 05 2023

SUBSCRIBED AND SWORN TO before me this ____ day of ____ 202__, affiant exhibiting his Community Tax Certificate No. _____ issued at _____ on _____ of _____.

Doc No. _____
Page No. _____
Book No. _____
Series of _____

ATTY. EDITH TALABOC
NOTARY PUBLIC FEB 10, 2024
PTR NO. 0862579 - MANILA
IBP NO. 277569 ROLL NO. 43135
ISSUED AT CITY OF MANILA
COMMISSION NO. 2017-219
MCLE NO. VI-0026562

SWORN STATEMENT OF ACCOUNTABILITY OF THE PROJECT PROPONENT

This is to certify that all the information and commitments in the **PROJECT ENVIRONMENTAL MONITORING AND PRIORITIZATION SCHEME (PEMAPS) QUESTIONNAIRE** for Department of Public Works and Highways (DPWH) **DALTON PASS EAST ALIGNMENT ROAD PROJECT** located in the Municipalities of Aritao and Santa Fe, Nueva Vizcaya & Municipality of Carranglan, Nueva Ecija are accurate and complete to the best of our knowledge, and that an objective and thorough assessment of the Project was undertaken in accordance with the dictates of professional and reasonable judgment. Should I/we learn of any information, which would make this **PEMAPS** inaccurate, I/we shall immediately bring the said information to the attention of the DENR-EMB.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to state material information in this **PEMAPS**.

In witness whereof, I hereby set my hands this _____ day of _____ at _____.

EMIL K. SADAIN, CESO I
NAME OF PROPONENT HEAD

SIGNATURE

Senior Undersecretary
Position

Department of Public Works and Highways
Unified Project Management Office
Company Name

JUN 05 2023

SUBSCRIBED AND SWORN TO before me this _____ day of _____ 202____, affiant exhibiting his Community Tax Certificate No. _____ issued at _____ on _____ of _____.

Doc No. 16
Page No. 36
Book No. 24
Series of vm

ATTY. EDITHA P. TALABOC
NOTARY PUBLIC UNTIL FEB 10, 2024
PTR NO. 0862579 - MANILA
IBP NO. 237549 ROLL NO. 43135
ISSUED AT CITY OF MANILA
COMMISSION NO. 2017-219
MCLE NO. VI-0026562

ACCOUNTABILITY STATEMENT OF EIS PREPARER

This is to certify that all the information and commitments in this **ENVIRONMENTAL IMPACT STATEMENT (EIS) REPORT** for Department of Public Works and Highways (DPWH) **DALTON PASS EAST ALTERNATIVE ROAD PROJECT** located in the Municipalities of Aritao and Santa Fe, Nueva Vizcaya & Municipality of Carranglan, Nueva Ecija are accurate and complete to the best of our knowledge, and that an objective and thorough assessment of the Project was undertaken in accordance with the dictates of professional and reasonable judgment. Should I/we learn of any information, which would make this **EIS REPORT** inaccurate, I/we shall immediately bring the said information to the attention of the DENR-EMB.

I hereby certify that no DENR-EMB personnel were directly involved in the preparation of this **EIS** for the **DALTON PASS EAST ALTERNATIVE ROAD PROJECT** other than to provide procedural and technical advice consistent with the guidelines in the DAO 2003-30 Revised Procedural Manual.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to state material information in this **EIS**.

In witness whereof, we hereby set our hands this SEP 06 2022 day of _____ at

QUEZON CITY

Name	Module	Signature
Consultants/Specialists		
Engr. Jose Marie U. Lim, MSc.	Team Leader	
Engr. Lester M. Abando	Environmental Management – Land and Air	
Engr. Bryan M. Magante	Environmental Management – Water	
Mr. Jerome B. Leano	Environmental Management – People Social Development	
Dr. Bonifacio O. Pasion	Terrestrial Ecology Specialist	
Mark Jun M. Alcantara	Aquatic Ecology Specialist	

SUBSCRIBED AND SWORN TO before me SEP 06 2022 day of _____, affiants exhibiting their CTC Nos:

Name	CTC No.	Issued On	Issued At

Doc. No.
Page No.
Book No.
Series of.

11
4
IXV
W

Notary Public

ATTY. RYAN C. CORTEZ
Notary Public

Until December 31, 2022
PTR No. 2564877; 01/27/2022 QC
IBP No. 178355; 02/15/2022
Admin Matter No. RP-071
Roll No. 72112
MCLE Comp. No. VI-0030604

ANNEX C

Project Environmental Monitoring & Audit Prioritization
Scheme (PEMAPS)

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION SCHEME (PEMAPS) QUESTIONNAIRE

Project Name:

Project Location:

ECC Reference No.:

Proponent:

Pollution Control Officer:

Tel. No./Fax No./E-mail:

Project Type:

Project Status:

I. PROJECT CONSIDERATIONS

1.1 Size and Type

1.1.1 Size based on number of employees

Specify number of employees:

1.1.2 Type:

ECP (in either ECA or Non-ECA)

Non-ECP but in ECA

Non-ECP and Non-ECA

1.2 Waste Generation and Management

1.2.1 Enumerate Waste Type and Specify Quantity of Wastes generated in your facility. (Identify /Enumerate)

Category	Waste	Type		Quantity
		Hazardous	Non-Hazardous	

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Air	Waste 1			(units: MT/yr)
	Waste 2			
	Waste N			
Liquid				(units: m ³ /yr)
Solid				(units: tons/yr)

1.3 Pollution Control System (PCS)

- 1.3.1 Enumerate PCS or Waste Management Method Used in your facility.
(Identify /Enumerate)

Category	PCS/Waste Management Method Used	Remarks
Air	PCS 1	
	PCS 2	

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

	PCS N	
Liquid	Primary	
	Secondary	
	Tertiary	
Solid		

II. PATHWAYS

2.1 Prevailing wind towards barrio or city? (mark the corresponding point) Yes No

2.2 Rainfall (impacts surface & groundwater pathways)

2.2.1 Average annual net rainfall:

Specify amount:

2.2.2 Maximum 24-hour rainfall:

Specify amount:

2.3 Terrain (select one and mark) Flat Steep

2.4 Is the facility located in a flood-prone area? (select one and mark) Yes No

2.5 Ground Water

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Depth of groundwater table (meter) (select one and mark)

0 to less than 3

3 to 10

Greater than 10

III. RECEIVING MEDIA/RECEPTORS

3.1 Air (Distance to nearest community) (select one and mark)

0 to less than 0.5 km

0.5 to 1 km

Greater than 1 km

3.2 Receiving Surface Water Body

3.2.1 Distance to receiving surface water: (select one and mark)

0 to less than 0.5 km

0.5 to 1 km

Greater than 1 km

3.2.2 Size of population using receiving surface water

Specify number:

3.2.3 Fresh Water

3.2.3.1 Classification of fresh water: (select one and mark)

PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION SCHEME (PEMAPS) QUESTIONNAIRE

AA

A

B

C

D

3.2.3.2 Size of fresh water body:

Specify size:

3.2.3.3 Economic value of water use (may select more than one
of the criteria below)

Drinking

Domestic

Recreational

Fishery

Industrial

Agricultural

3.2.4 Salt water

3.2.4.1 Classification of salt water (select one and mark)

SA

SB

SC

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

SD

3.2.4.2 Economic value of water use (may select more than one
of the criteria below)

Fishery

Tourist zone or park

Recreational

Industrial

3.3 Ground Water

3.3.1 Distance to nearest recharge area (select one and mark)

0 to less than 0.5 km

0.5 to 1 km

Greater than 1 km

3.3.2 Distance to nearest well used (select one and mark)

0 to less than 0.5 km

0.5 to 1 km

Greater than 1 km

3.3.3 Groundwater use within the nearest well (may select more than one
of the criteria below)

Drinking

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Industrial

Agricultural

3.4 Land

- 3.4.1 Indicate current/actual land uses within 0.5 km radius: (may select more than one of the criteria below)

Residential

Commercial/Institutional

Industrial

Agricultural/Recreational

Protected Area

- 3.4.2 Potential/proposed land uses within 0.5 km (may select more than one of the criteria below)

Residential

Commercial/Institutional

Industrial

Agricultural/Recreational

Protected Area

- 3.4.3 Number of affected Environmentally Critical Areas within 1 km:

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Specify number:

3.4.4 Distance to nearest ECA (select one and mark)

0 to less than 0.5km

0.5 to 1 km

Greater than 1 km

IV. ENVIRONMENTAL PERFORMANCE (FOR EXISTING PROJECTS FOR EXPANSION)

3.5 Compliance (pls. take note that this will be double-checked with PCD files)

Law	Violation (check if any)	Type (pls. specify number of times committed)				Type of Admin Violation	Additional Remarks/Status of Compliance
		STANDARD					
		Emission/Effluent/ Discharge	Ambient	Human Impact	Admin/ ECC		
RA 8749							
RA 9275							
RA 6969							
PD 1586							
RA 9003							

3.6 Number of Valid Complaints

3.6.1 Citizen and NGOs

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Specify number:

3.6.2 Others (other Govt. Agencies, Private Institutions)

Specify number:

(To be filled up by EMB Personnel)

RECOMMENDATION/S:

Assessed By:

Noted By:

ANNEX D

Laboratory Results

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

SN: F00091805.003

Date Received:

02/09/2022

Lab No.: P00122232

Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	Test Methods	Date Analyzed	By	Ref*
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Sample No.: P00122232-01

Date Sampled: 02-09-22 08:30

Sample ID: SOIL 1

Matrix: Soil

-Metals-

Molybdenum**	ND	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Arsenic**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Cadmium**	0.2	mg/Kg	0.05^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Copper**	24	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Lead**	0.9	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Manganese**	207	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Nickel**	1.0	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Zinc**	13	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Mercury**	ND	mg/Kg	0.1^	Cold Vapor AAS (USEPA 7471B)	02/18/22	JLJ	
Iron**	14,500	mg/Kg	13^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Potassium**	415	mg/Kg	5.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Selenium**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	

-Wet Chemistry-

Total Phosphorus - P	303	mg/Kg	25^	Vanadomolybdophosphoric Acid (SM4500-P C)	02/18/22	MPT	
Total Organic Matter**	0.56	% w/w	0.01^	Titrimetry	02/22/22	LCM	
Boron**	ND	mg/Kg	2.4	Carmine Method	02/19/22	ANBB	
Fluoride	0.3	mg/Kg	0.2	Ion Selective Electrode Method (SM4500-F C)	02/18/22	ANBB	
Hexavalent Chromium**	ND	mg/Kg	20^	Colorimetry (USEPA Method 7196)	02/21/22	ANBB	
pH**, Laboratory @ 25.0°C	5.4	-	0.1^	EPA 9045D / Electrometric	02/10/22	MCAT	

>>> end of result set for Sample No.:P00122232-01 <<<

Sample No.: P00122232-02

Date Sampled: 02-09-22 09:14

Sample ID: SOIL 2

Matrix: Soil

-Metals-

Molybdenum**	ND	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Arsenic**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Cadmium**	0.09	mg/Kg	0.05^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Copper**	5.9	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Lead**	0.6	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Manganese**	80	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Nickel**	0.5	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Zinc**	2.6	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Mercury**	ND	mg/Kg	0.1^	Cold Vapor AAS (USEPA 7471B)	02/18/22	JLJ	
Iron**	30,200	mg/Kg	25^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Potassium**	33	mg/Kg	5.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Selenium**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	

-Wet Chemistry-

Total Phosphorus - P	326	mg/Kg	31^	Vanadomolybdophosphoric Acid (SM4500-P C)	02/18/22	MPT	
Total Organic Matter**	1.26	% w/w	0.01^	Titrimetry	02/22/22	LCM	
Boron**	ND	mg/Kg	2.4	Carmine Method	02/19/22	ANBB	
Fluoride	0.9	mg/Kg	0.2	Ion Selective Electrode Method (SM4500-F C)	02/18/22	ANBB	
Hexavalent Chromium**	ND	mg/Kg	20^	Colorimetry (USEPA Method 7196)	02/21/22	ANBB	
pH**, Laboratory @ 25.0°C	6.2	-	0.1^	EPA 9045D / Electrometric	02/10/22	MCAT	



Test Description	Results	Units	MDL	Test Methods	Date Analyzed	By	Ref*
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>>> end of result set for Sample No.:P00122232-02 <<<

>>> end of result set for Lab No.:P00122232; Total no. of samples analyzed: 2 <<<

*Reporting Limit/s

**PAB accredited scope/s

MDL = Method Detection Limit/s

*IDL = Instrument Detection Limit/s

Teledyne, HYDRAIIAA Mercury Analyzer

Results for Metals are reported as "dry basis"

ND = Not Detected (Below MDL / Reporting Limit/s)

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Soil and Plant Analysis Laboratory Manual by International Center for Agricultural Research in the Dry Areas (ICARDA), 2001

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

User Guide, High Performance Fluoride Ion Selective Electrode, Thermo Scientific



Analyzed by:

Prescilla P. Gatbonton

Prescilla P. Gatbonton
PRC License No.: 679
Chemical Testing

Date: 02/28/2022

Alyssa Nicole B. Bello

Alyssa Nicole B. Bello
PRC License No.: 2337
Chemical Testing

Date: 02/28/2022

Certified by:

Ronald C. Espiritu

Ronald C. Espiritu
PRC License No.: 9248
Chemical Testing

Date: 02/28/2022

Juliana C. Oriña

Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 2/28/22

Chas C. Arroyo

Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 02/28/2022



SN: F00091805.003

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Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

SN: F00091805.001



Date Received:

02/09/2022

Lab No.:P00122232



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00122232-03			DateSampled: 02-09-22 08:42			
Sample ID: GW 1			Matrix: Groundwater			
-Microbiology-						
Fecal Coliforms	>8.0	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	02/09/22		CBS
-Wet Chemistry-						
pH, Laboratory	7.3	-	Electrometric Method (SM 4500-H+ B)	02/10/22		MCAT
Temperature, Laboratory	25.0	°C	Laboratory & Field Method (SM2550 B)	02/10/22		MCAT
Color	5	Apparent CU	Visual Comparison	02/10/22		MPT
Total Suspended Solids	< 2.38	mg/L	Gravimetry (SM 2540 D)	02/10/22		MPT
Nitrate	< 0.006	mg/L	Cadmium Reduction Method	02/10/22		MLJ
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	02/10/22		ATDR
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	02/10/22		MPY

>>> end of result set for Sample No.:P00122232-03 <<<

Sample No.: P0012232-04

DateSampled: 02-09-22 09:22

Sample ID: GW 2

Matrix: Groundwater

-Microbiology-

Fecal Coliforms	<1.1	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	02/09/22	HBS
-Wet Chemistry-					
pH, Laboratory	7.0	-	Electrometric Method (SM 4500-H+ B)	02/10/22	MCAT
Temperature, Laboratory	25.0	°C	Laboratory & Field Method (SM2550 B)	02/10/22	MCAT
Color	3	Apparent CU	Visual Comparison	02/10/22	MPT
Total Suspended Solids	< 2.38	mg/L	Gravimetry (SM 2540 D)	02/10/22	MPT
Nitrate	< 0.006	mg/L	Cadmium Reduction Method	02/10/22	MLJ
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	02/10/22	ATDR
Phosphate - P	0.02	mg/L	Stannous Chloride Method (SM 4500-P D)	02/10/22	MPY

>>> end of result set for Sample No.:P00122232-04 <<<

>>> end of result set for Lab No.:P00122232; Total no. of samples analyzed: 2 <<<

MPN = Most Probable Number

Results are reported "as received basis".

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



*CRL Environmental
Corporation*

■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
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PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:201
LA-2008-1190



PAB ACCREDITED
TESTING LABORATORY
PNS IS/MEC 17025:201
LA-2008-1180



met

Certified by:

Symholt

Ravjit

[Signature]

Andy

Date: 02/24/2022

Date: 02/24/2022

Date: 02/28/22

Date: 2/28/20

Date: 2/28/21

Date: 02/24/2022



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*CRL Environmental
Corporation*

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Tel: (63 45) 599-3943 • (63 2) 8552-5100 • Fax: (63 45) 599-3963
Email: cr1@crllabs.com • <http://www.crllabs.com>

Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave. South Triangle, Quezon City
Contact No.: 02-3324301

SN: F00091806.001



Date Received:

02/10/2022

Lab No.: P00122285



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00122285-01			DateSampled: 02-10-22 10:16			
Sample ID: GW 3			Matrix: Groundwater			
-Microbiology-						
Fecal Coliforms	<1.1	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	02/11/22	HBS	
-Wet Chemistry-						
pH, Laboratory	7.1	-	Electrometric Method (SM 4500-H+ B)	02/11/22	MCAT	
Temperature, Laboratory	25.0	°C	Laboratory & Field Method (SM2550 B)	02/11/22	MCAT	
Color	5	Apparent CU	Visual Comparison	02/11/22	MPT	
Total Suspended Solids	< 2.38	mg/L	Gravimetry (SM 2540 D)	02/11/22	MPT	
Nitrate	< 0.006	mg/L	Cadmium Reduction Method	02/16/22	MLJ	
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	02/11/22	ATDR	
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	02/11/22	MPY	

>>> end of result set for Sample No.:P00122285-01 <<<

Sample No.: P00122285-02			DateSampled: 02-10-22 12:40		
Sample ID: GW 4			Matrix: Groundwater		
-Microbiology-					
Fecal Coliforms	<1.1	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	02/11/22	HBS
-Wet Chemistry-					
pH, Laboratory	6.6	-	Electrometric Method (SM 4500-H+ B)	02/11/22	MCAT
Temperature, Laboratory	25.0	°C	Laboratory & Field Method (SM2550 B)	02/11/22	MCAT
Color	3	Apparent CU	Visual Comparison	02/11/22	MPT
Total Suspended Solids	< 2.38	mg/L	Gravimetry (SM 2540 D)	02/11/22	MPT
Nitrate	0.7	mg/L	Cadmium Reduction Method	02/16/22	MLJ
Chloride	18	mg/L	Argentometric Method (SM4500 Cl-B)	02/11/22	ATDR
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	02/11/22	MPY

>>> end of result set for Sample No.:P00122285-02 <<<

>>> end of result set for Lab No.:P00122285; Total no. of samples analyzed: 2 <<<

MPN = Most Probable Number

Results are reported "as received basis".

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



Analyzed by:



Humprey B. Salonga

PRC License No.: 0100155

Microbiological Testing

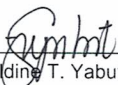


Melycel P. Tapang

PRC License No.: 1230

Chemical Testing

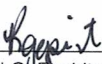
Certified by:



Geraldine T. Yabut

PRC License No.: 0027218

Microbiological Testing



Ronald G. Espiritu

PRC License No.: 9248

Chemical Testing



Juliana C. Oriña

PRC License No.: 8774

Chemical Testing



Chas C. Arroyo

PRC License No.: 6701

Chemical Testing

Date: 02/28/2022

Date: 02/28/2022

Date: 02/28/22

Date: 02/28/22

Date: 2/28/22

Date: 02/28/2022



SN: F00091806.001

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Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave. South Triangle, Quezon City
Contact No.: 02-3324301

SN: F00091806.002



Date Received:

02/10/2022

Lab No.: P00122285



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	Test Methods	Date Analyzed	By	Ref*
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Sample No.: P00122285-03

Date Sampled: 02-10-22 09:22

Sample ID: SOIL 3

Matrix: Soil

-Metals-

Molybdenum**	ND	mg/Kg	0.3 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Arsenic**	ND	mg/Kg	1.0 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Cadmium**	0.3	mg/Kg	0.05 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Copper**	16	mg/Kg	0.2 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Lead**	1.0	mg/Kg	0.3 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Manganese**	420	mg/Kg	0.2 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Nickel**	3.0	mg/Kg	0.2 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Zinc**	1.0	mg/Kg	0.3 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Mercury**	ND	mg/Kg	0.1 [^]	Cold Vapor AAS (USEPA 7471B)	02/18/22	JLJ	
Potassium**	15	mg/Kg	5.0 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Selenium**	ND	mg/Kg	1.0 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	

-Wet Chemistry-

pH**, Laboratory @ 25.0°C	6.6	-	0.1"	Electrometric Method (SM 4500-H+ B)	02/11/22	MCAT	
Total Phosphorus - P	297	mg/Kg	25 [^]	Vanadomolybdophosphoric Acid (SM4500-P C)	02/18/22	MPT	
Hexavalent Chromium**	ND	mg/Kg	20 [^]	Colorimetry (USEPA Method 7196)	02/21/22	ANBB	
Boron**	ND	mg/Kg	2.4	Carmine Method	02/19/22	ANBB	
Fluoride	1.2	mg/Kg	0.2	Ion Selective Electrode Method (SM4500-F C)	02/18/22	ANBB	
Total Organic Matter**	0.90	% w/w	0.01"	Titrimetry - Walkley Black (ICARDA)	02/22/22	LCM	

>>> end of result set for Sample No.:P00122285-03 <<<

Sample No.: P00122285-04

Date Sampled: 02-10-22 09:35

Sample ID: SOIL 4

Matrix: Soil

-Metals-

Molybdenum**	ND	mg/Kg	0.3 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Arsenic**	ND	mg/Kg	1.0 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Cadmium**	0.2	mg/Kg	0.05 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Copper**	9.0	mg/Kg	0.2 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Lead**	0.4	mg/Kg	0.3 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Manganese**	173	mg/Kg	0.2 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Nickel**	1.2	mg/Kg	0.2 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Zinc**	8.7	mg/Kg	0.3 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Mercury**	ND	mg/Kg	0.1 [^]	Cold Vapor AAS (USEPA 7471B)	02/18/22	JLJ	
Potassium**	67	mg/Kg	5.0 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Selenium**	ND	mg/Kg	1.0 [^]	ICP - OES (USEPA 6010B)	02/21/22	PPG	

-Wet Chemistry-

pH**, Laboratory @ 25.0°C	5.8	-	0.1"	Electrometric Method (SM 4500-H+ B)	02/11/22	MCAT	
Total Phosphorus - P	330	mg/Kg	31 [^]	Vanadomolybdophosphoric Acid (SM4500-P C)	02/18/22	MPT	
Hexavalent Chromium**	ND	mg/Kg	20 [^]	Colorimetry (USEPA Method 7196)	02/21/22	ANBB	
Boron**	ND	mg/Kg	2.4	Carmine Method	02/19/22	ANBB	
Fluoride	0.6	mg/Kg	0.2	Ion Selective Electrode Method (SM4500-F C)	02/18/22	ANBB	
Total Organic Matter**	2.22	% w/w	0.01"	Titrimetry - Walkley Black (ICARDA)	02/22/22	LCM	

>>> end of result set for Sample No.:P00122285-04 <<<



Test Description	Results	Units	MDL	Test Methods	Date Analyzed	By	Ref.
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Sample No.: P00122285-05

DateSampled: 02-10-22 11:04

Sample ID: SOIL 5

Matrix: Soil

-Metals-

Molybdenum**	ND	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Arsenic**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Cadmium**	ND	mg/Kg	0.05^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Copper**	0.7	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Lead**	ND	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Manganese**	44	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Nickel**	ND	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Zinc**	3.3	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Mercury**	ND	mg/Kg	0.1^	Cold Vapor AAS (USEPA 7471B)	02/18/22	JLJ	
Potassium**	67	mg/Kg	5.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Selenium**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	

-Wet Chemistry-

pH**, Laboratory @ 25.0°C	5.8	-	0.1"	Electrometric Method (SM 4500-H+ B)	02/11/22	MCAT	
Total Phosphorus - P	133	mg/Kg	13^	Vanadomolybdophosphoric Acid (SM4500-P C)	02/18/22	MPT	
Hexavalent Chromium**	ND	mg/Kg	20^	Colorimetry (USEPA Method 7196)	02/21/22	ANBB	
Boron**	ND	mg/Kg	2.4	Carmine Method	02/19/22	ANBB	
Fluoride	0.4	mg/Kg	0.2	Ion Selective Electrode Method (SM4500-F C)	02/18/22	ANBB	
Total Organic Matter**	1.24	% w/w	0.01"	Titrimetry - Walkley Black (ICARDA)	02/22/22	LCM	

>>> end of result set for Sample No.:P00122285-05 <<<

Sample No.: P00122285-06

DateSampled: 02-10-22 11:20

Sample ID: SOIL 6

Matrix: Soil

-Metals-

Molybdenum**	ND	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Arsenic**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Cadmium**	ND	mg/Kg	0.05^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Copper**	1.0	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Lead**	ND	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Manganese**	26	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Nickel**	ND	mg/Kg	0.2^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Zinc**	0.7	mg/Kg	0.3^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Mercury**	ND	mg/Kg	0.1^	Cold Vapor AAS (USEPA 7471B)	02/18/22	JLJ	
Potassium**	ND	mg/Kg	5.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	
Selenium**	ND	mg/Kg	1.0^	ICP - OES (USEPA 6010B)	02/21/22	PPG	

-Wet Chemistry-

pH**, Laboratory @ 25.0°C	5.8	-	0.1"	Electrometric Method (SM 4500-H+ B)	02/11/22	MCAT	
Total Phosphorus - P	230	mg/Kg	42^	Vanadomolybdophosphoric Acid (SM4500-P C)	02/18/22	MPT	
Hexavalent Chromium**	ND	mg/Kg	20^	Colorimetry (USEPA Method 7196)	02/21/22	ANBB	
Boron**	ND	mg/Kg	2.4	Carmine Method	02/19/22	ANBB	
Fluoride	0.4	mg/Kg	0.2	Ion Selective Electrode Method (SM4500-F C)	02/18/22	ANBB	
Total Organic Matter**	0.16	% w/w	0.01"	Titrimetry - Walkley Black (ICARDA)	02/22/22	LCM	

>>> end of result set for Sample No.:P00122285-06 <<<

>>> end of result set for Lab No.:P00122285; Total no. of samples analyzed: 4 <<<

^Reporting Limit/s

**PAB accredited scope/s

MDL = Method Detection Limit/s

"IDL = Instrument Detection Limit/s

Teledyne, HYDRAIIA Mercury Analyzer

ND = Not Detected (Below MDL / Reporting Limits)

Results for Metals are reported as "dry basis"

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Soil and Plant Analysis Laboratory Manual by International Center for Agricultural Research in the Dry Areas (ICARDA), 2001



PARTIAL



Results of Analyses

Geotechnics Phils., Inc.

119, Sauyo Road, Novaliches
Quezon City



SN: F00074403.002



Date Received:

06/09/2020

Lab No.: P00104310



Project Name: DALTON PASS EAS ALTERNATIVE ROAD

Attention: Ms. Elizabeth G. Mercado

Test Description	Results	Units	MDL	Test Methods	Date Analyzed	By	Ref
Sample No.: P00104310-01			DateSampled: Not Supplied				
Sample ID: BV - TNS - S - 3 / S - 1			Matrix: Soil				
-Metals-							
Arsenic	ND	mg/Kg	1.0^	ICP - OES	06/23/20	PPG	
Cadmium**	ND	mg/Kg	0.32	Flame AAS	06/23/20	MLSA	
Chromium**	1.4	mg/Kg	1.0	Flame AAS	06/23/20	MLSA	
Lead**	4.2	mg/Kg	2.41	Flame AAS	06/23/20	MLSA	
Mercury**	ND	mg/Kg	0.1^	Manual Cold Vapor AAS	06/24/20	EDC	
Selenium	ND	mg/Kg	1.0^	ICP - OES	06/23/20	PPG	
-Wet Chemistry-							
Boron**	2.0	mg/Kg	2.4	Carminc Method	06/25/20	ANBB	
Fluoride	7.6	mg/Kg	1.0	SPADNS Method (SM4500-F D)	06/25/20	ANBB	

>>> end of result set for Sample No.:P00104310-01 <<<

Sample No.: P00104310-02			DateSampled: Not Supplied			
Sample ID: BV - TNN - N - A2 / S - 1			Matrix: Soil			
-Metals-						
Arsenic	7.2	mg/Kg	1.0^	ICP - OES	06/16/20	PPG
Cadmium**	1.6	mg/Kg	0.32	Flame AAS	06/16/20	MLSA
Chromium**	3.2	mg/Kg	1.0	Flame AAS	06/16/20	MLSA
Lead**	7.7	mg/Kg	2.41	Flame AAS	06/16/20	MLSA
Mercury**	ND	mg/Kg	0.1^	Manual Cold Vapor AAS	06/16/20	EDC
Selenium	ND	mg/Kg	1.0^	ICP - OES	06/16/20	PPG
-Wet Chemistry-						
Boron**	1.3	mg/Kg	2.4	Carminc Method	06/18/20	ANBB
Fluoride	7.7	mg/Kg	1.0	SPADNS Method (SM4500-F D)	06/16/20	ANBB

>>> end of result set for Sample No.:P00104310-02 <<<

>>> end of result set for Lab No.:P00104310; Total no. of samples analyzed: 2 <<<

^AReporting Limit/s

**PAB approved parameter/s

MDL = Method Detection Limit/s

Teledyne, HYDRAIIAA Mercury Analyzer

Results for Metals are reported "as dry basis".

ND = Not Detected (Below MDL / Reporting Limits)

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy


Shimadzu Analytical Methods, Atomic Absorption Spectrophotometry (AAS)

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

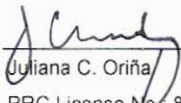


Certified by:



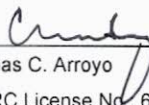
Ronald Q. Espiritu
PRC License No.: 9248
Chemical Testing

Date: 6/29/08



Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 6/29/08



Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 6/29/08



SN: F00074403.002

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Results of Analyses

LCI Environmental Corporation

Unit 8, LM Future Point Plaza 3, 111 Panay Avenue
South Triangle, Quezon City
Contact No.: 02-3324301

SN: F00091090.001



Date Received:

01/25/2022

Lab No.: P00121695



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00121695-01			DateSampled: 01-25-22 10:51			
Sample ID: SW 4			Matrix: Surface Water			
-Metals-						
Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
Mercury	< 0.0002	mg/L	Cold Vapor AAS (SMEWW 3112B / USEPA 7470A)	01/26/22	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
-Microbiology-						
Total Coliforms	540	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	01/26/22	TNCR	
Fecal Coliforms	350	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	01/26/22	TNCR	
-Wet Chemistry-						
pH, onsite	7.9	-	Electrometric Method (SM 4500-H+ B)	01/25/22	-	
Temperature, onsite	24.7	°C	Laboratory & Field Method (SM2550 B)	01/25/22	-	
Color	8	TCU	Visual Comparison	01/26/22	MPT	
Biological Oxygen Demand	< 1	mg/L	5-Day BOD Test (SM 5210 B)	01/26/22	MCAT	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.2	mg/L	Colorimetry - Chloroform Extraction	01/26/22	AGAS	
Total Suspended Solids	< 2.38	mg/L	Gravimetry (SM 2540 D)	01/26/22	MPT	
Oil & Grease	1.4	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	01/30/22	WBD	
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	01/27/22	ATDR	
Hexavalent Chromium	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	01/27/22	ANBB	
Cyanide, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	01/26/22	MPY	
Dissolved Oxygen, onsite	8	mg/L	Winkler/Titrimetric	01/25/22	-	
Nitrate - N	0.03	mg/L	Colorimetry - Brucine (EPA 352.1)	01/26/22	MLJ	
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	01/26/22	MPY	

>>> end of result set for Sample No.:P00121695-01 <<<

Sample No.: P00121695-02

Sample ID: SW 3

Date Sampled: 01-25-22 11:48

Matrix: Surface Water

-Metals-						
Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
Mercury	< 0.0002	mg/L	Cold Vapor AAS (SMEWW 3112B / USEPA 7470A)	01/26/22	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
-Microbiology-						
Total Coliforms	2,200	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	01/26/22	TNCR	
Fecal Coliforms	390	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	01/26/22	TNCR	
-Wet Chemistry-						
pH, onsite	7.9	-	Electrometric Method (SM 4500-H+ B)	01/25/22	-	
Temperature, onsite	28.2	°C	Laboratory & Field Method (SM2550 B)	01/25/22	-	
Color	10	TCU	Visual Comparison	01/26/22	MPT	
Biological Oxygen Demand	< 1	mg/L	5-Day BOD Test (SM 5210 B)	01/26/22	MCAT	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.3	mg/L	Colorimetry - Chloroform Extraction	01/26/22	AGAS	



>>> end of result set for Sample No.:P00121695-02 <<<

DateSampled: 01-25-22 12:38

Matrix: Surface Water

-Microbiology-

-Wet Chemistry-

>>> end of result set for Sample No.:P00121695-03 <<<

DateSampled: 01-25-22 13:35

Matrix: Surface Water

-Microbiology-

-Wet Chemistry-

Page 2 of 4



■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
Industrial Park, Jose Abad Santos Ave., Clark Freeport Zone (CFZ)
Pampanga, 2023 Philippines
Tel: (63 45) 599-3943 • (63 2) 8552-5100 • Fax: (63 45) 599-3963
Email: cr1@crllabs.com • <http://www.crllabs.com>

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref*
-Wet Chemistry-						
Total Suspended Solids	12	mg/L	Gravimetry (SM 2540 D)	01/26/22	MPT	
Oil & Grease	1.4	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	01/31/22	WBD	
Chloride	4.0	mg/L	Argentometric Method (SM4500 Cl-B)	01/27/22	ATDR	
Hexavalent Chromium	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	01/27/22	ANBB	
Cyanide, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	01/26/22	MPY	
Dissolved Oxygen, onsite	9	mg/L	Winkler/Titrimetric	01/25/22	-	
Nitrate - N	0.1	mg/L	Colorimetry - Brucine (EPA 352.1)	01/26/22	MLJ	
Phosphate - P	0.01	mg/L	Stannous Chloride Method (SM 4500-P D)	01/26/22	MPY	

>>> end of result set for Sample No.:P00121695-04 <<<

>>> end of result set for Lab No.:P00121695; Total no. of samples analyzed: 4 <<<

MPN = Most Probable Number

Teledyne, HYDRALIAA Mercury Analyzer

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



J. P. Adams

met

Certified by:

Gumbel

Rapril

[Signature]

Andy

Date: 02/05/2022

Date: 02/05/2022

Date: 02/07/22

Date: 2/10/20

Date: 2/7/22

Date: 02/05/2022



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*CRL Environmental
Corporation*

■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
Industrial Park, Jose Abad Santos Ave., Clark Freeport Zone (CFZ)
Pampanga, 2023 Philippines
Tel: (63 45) 599-3943 • (63 2) 8552-5100 • Fax: (63 45) 599-3963
Email: cr1@crllabs.com • <http://www.crllabs.com>

Results of Analyses

LCI Environmental Corporation

Unit 8, LM Future Point Plaza 3, 111 Panay Avenue
South Triangle, Quezon City
Contact No.: 02-3324301

SN: F00091090.002



Date Received:

01/25/2022

Lab No.: P00121695



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref*
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Sample No.: P00121695-01

Date Sampled: 01-25-22 10:51

Sample ID: SW 4

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF

>>> end of result set for Sample No.:P00121695-01 <<<

Sample No.: P00121695-02

Date Sampled: 01-25-22 11:48

Sample ID: SW 3

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF

>>> end of result set for Sample No.:P00121695-02 <<<

Sample No.: P00121695-03

Date Sampled: 01-25-22 12:38

Sample ID: SW 2

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF

>>> end of result set for Sample No.:P00121695-03 <<<



Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref*
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Sample No.: P00121695-04

Date Sampled: 01-25-22 13:35

Sample ID: SW 1

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	02/01/22	IJMF	

>>> end of result set for Sample No.:P00121695-04 <<<

>>> end of result set for Lab No.:P00121695; Total no. of samples analyzed: 4 <<<

MDL = Method Detection Limit/s

ND = Not Detected (Below MDL / DLR)

DLR = Detection Limits for Reporting (MDL x Dilution Factor)

Test Methods for Evaluating Solid Wastes, Vol 1B, USEPA, Third Edition, November 2000

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



Analyzed by:



Ivy Joy M. Fabros

PRC License No.: 2341

Chemical Testing

Date: 02/10/2022

Certified by:

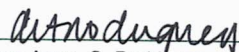


Rose Ann W. Veloria

PRC License No.: 11238

Chemical Testing

Date: 2/10/2022



Mary Anne G. Rodriguez

PRC License No.: 10281

Chemical Testing

Date: 7/10/2022



Chas C. Arroyo

PRC License No.: 6701

Chemical Testing

Date: 02/10/2022



SN: F00091090.002

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CRL Environmental Corporation

07 February 2022

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.

South Triangle, Quezon City

Contact No.: 02-3324301

ATTN: **Engr. Bryan M. Magante**

Project Name: DALTON EIA

Lab. Nos.: P00121675-01/06

Enclosed are the results for samples received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition Certificate with C. R. No. 023/2021, will expire on August 25, 2024.

Likewise, our DOH Accreditation with Accreditation No. 03-001-20-LW-2, is valid from January 01, 2020 until December 31, 2022.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,


MARIA CARMELA Q. CAPULE, Ph.D.
Chief Operating Officer

Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City
Contact No.: 02-3324301

SN: F00091045.001

Date Received:

01/24/2022

Lab No.: P00121675

Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00121675-01			DateSampled: 01-24-22 08:55			
Sample ID: SW 5			Matrix: Surface Water			
-Metals-						
Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Mercury	< 0.0002	mg/L	Cold Vapor AAS (SMEWW 3112B / USEPA 7470A)	01/26/22	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
-Microbiology-						
Total Coliforms	920	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	01/25/22	CBS	
Fecal Coliforms	920	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	01/25/22	CBS	
-Wet Chemistry-						
pH, onsite	8.0	-	Electrometric Method (SM 4500-H+ B)	01/24/22	-	
Temperature, onsite	22.1	°C	Laboratory & Field Method (SM2550 B)	01/24/22	-	
Color	8	TCU	Visual Comparison	01/25/22	MPT	
Biological Oxygen Demand	1	mg/L	5-Day BOD Test (SM 5210 B)	01/26/22	MCAT	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.2	mg/L	Colorimetry - Chloroform Extraction	01/25/22	AGAS	
Total Suspended Solids	3.5	mg/L	Gravimetry (SM 2540 D)	01/25/22	MPT	
Oil & Grease	1.4	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	01/30/22	WBD	
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	01/27/22	ATDR	
Hexavalent Chromium	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	01/27/22	ANBB	
Cyanide, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	01/25/22	MPY	
Dissolved Oxygen, onsite	9	mg/L	Winkler/Titrimetric	01/24/22	-	
Nitrate - N	0.2	mg/L	Colorimetry - Brucine (EPA 352.1)	01/25/22	MPT	
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	01/25/22	MPY	

>>> end of result set for Sample No.:P00121675-01 <<<

Sample No.: P00121675-02

Sample ID: SW 6

Date Sampled: 01-24-22 09:23

Matrix: Surface Water

-Metals-						
Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Mercury	< 0.0002	mg/L	Cold Vapor AAS (SMEWW 3112B / USEPA 7470A)	01/26/22	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	
-Microbiology-						
Total Coliforms	1,600	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	01/25/22	CBS	
Fecal Coliforms	540	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	01/25/22	CBS	
-Wet Chemistry-						
pH, onsite	7.7	-	Electrometric Method (SM 4500-H+ B)	01/24/22	-	
Temperature, onsite	22.4	°C	Laboratory & Field Method (SM2550 B)	01/24/22	-	
Color	8	TCU	Visual Comparison	01/25/22	MPT	
Biological Oxygen Demand	1	mg/L	5-Day BOD Test (SM 5210 B)	01/26/22	MCAT	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.2	mg/L	Colorimetry - Chloroform Extraction	01/25/22	AGAS	



>>> end of result set for Sample No.:P00121675-02 <<<

DateSampled: 01-24-22 09:36

Matrix: Surface Water

-Microbiology-

-Wet Chemistry-

>>> end of result set for Sample No.: P00121675-03 <<<

DateSampled: 01-24-22 09:52

Matrix: Surface Water

-Microbiology-

-Wet Chemistry-

Page 2 of 5



■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
Industrial Park, Jose Abad Santos Ave., Clark Freeport Zone (CFZ)
Pampanga, 2023 Philippines
Tel: (63 45) 599-3943 • (63 2) 8552-5100 • Fax: (63 45) 599-3963
Email: cr1@crllabs.com • <http://www.crllabs.com>

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Total Suspended Solids	7.5	mg/L	Gravimetry (SM 2540 D)	01/25/22	MPT	
Oil & Grease	1.4	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	01/30/22	WBD	
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	01/27/22	ATDR	
Hexavalent Chromium	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	01/27/22	ANBB	
Cyanide, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	01/25/22	MPY	
Dissolved Oxygen, onsite	9	mg/L	Winkler/Titrimetric	01/24/22	-	
Nitrate - N	0.3	mg/L	Colorimetry - Brucine (EPA 352.1)	01/25/22	MPT	
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	01/25/22	MPY	

>>> end of result set for Sample No.:P00121675-04 <<<

Sample No.: P00121675-05

Sample ID: SW 7

DateSampled: 01-24-22 10:18

Matrix: Surface Water

-Metals-

Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Mercury	< 0.0002	mg/L	Cold Vapor AAS (SMEWW 3112B / USEPA 7470A)	01/26/22	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	

-Microbiology-

Total Coliforms	2,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	01/25/22	CBS	
Fecal Coliforms	2,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	01/25/22	CBS	

-Wet Chemistry-

pH, onsite	8.9	-	Electrometric Method (SM 4500-H+ B)	01/24/22	-	
Temperature, onsite	23.5	°C	Laboratory & Field Method (SM2550 B)	01/24/22	-	
Color	8	TCU	Visual Comparison	01/25/22	MPT	
Biological Oxygen Demand	2	mg/L	5-Day BOD Test (SM 5210 B)	01/26/22	MCAT	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.2	mg/L	Colorimetry - Chloroform Extraction	01/25/22	AGAS	
Total Suspended Solids	11	mg/L	Gravimetry (SM 2540 D)	01/25/22	MPT	
Oil & Grease	1.4	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	01/30/22	WBD	
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	01/27/22	ATDR	
Hexavalent Chromium	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	01/27/22	ANBB	
Cyanide, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	01/25/22	MPY	
Dissolved Oxygen, onsite	9	mg/L	Winkler/Titrimetric	01/24/22	-	
Nitrate - N	0.1	mg/L	Colorimetry - Brucine (EPA 352.1)	01/25/22	MPT	
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	01/25/22	MPY	

>>> end of result set for Sample No.:P00121675-05 <<<

Sample No.: P00121675-06

Sample ID: SW 8

DateSampled: 01-24-22 11:04

Matrix: Surface Water

-Metals-

Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/26/22	MLSA	
Mercury	< 0.0002	mg/L	Cold Vapor AAS (SMEWW 3112B / USEPA 7470A)	01/26/22	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	

-Microbiology-

Total Coliforms	2,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	01/25/22	CBS	
Fecal Coliforms	1,300	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	01/25/22	CBS	

-Wet Chemistry-

pH, onsite	8.9	-	Electrometric Method (SM 4500-H+ B)	01/24/22	-	
Temperature, onsite	24.1	°C	Laboratory & Field Method (SM2550 B)	01/24/22	-	
Color	8	TCU	Visual Comparison	01/25/22	MPT	
Biological Oxygen Demand	1	mg/L	5-Day BOD Test (SM 5210 B)	01/26/22	MCAT	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.2	mg/L	Colorimetry - Chloroform Extraction	01/25/22	AGAS	



Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Total Suspended Solids	12	mg/L	Gravimetry (SM 2540 D)	01/25/22	MPT	
Oil & Grease	1.3	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	01/30/22	WBD	
Chloride	< 0.14	mg/L	Argentometric Method (SM4500 Cl-B)	01/27/22	ATDR	
Hexavalent Chromium	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	01/27/22	ANBB	
Cyanide, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	01/25/22	MPY	
Dissolved Oxygen, onsite	8	mg/L	Winkler/Titrimetric	01/24/22	-	
Nitrate - N	0.2	mg/L	Colorimetry - Brucine (EPA 352.1)	01/25/22	MPT	
Phosphate - P	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	01/25/22	MPY	

>>> end of result set for Sample No.:P00121675-06 <<<

>>> end of result set for Lab No.:P00121675; Total no. of samples analyzed: 6 <<<

MPN = Most Probable Number

Teledyne, HYDRALIAA Mercury Analyzer

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



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Date: 2/7/22

Andy

Date: 02/04/2022



Disclaimer: This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the customer to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited. This analytical report is NOT VALID without the official dry seal of CRL Environmental Corporation.



*CRL Environmental
Corporation*

■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
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Email: cr1@crllabs.com • <http://www.crllabs.com>

Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City
Contact No.: 02-3324301

SN: F00091045.002



Date Received:

01/24/2022

Lab No.: P00121675



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref*
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Sample No.: P00121675-01

Date Sampled: 01-24-22 08:55

Sample ID: SW 5

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	

>>> end of result set for Sample No.:P00121675-01 <<<

Sample No.: P00121675-02

Date Sampled: 01-24-22 09:23

Sample ID: SW 6

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	

>>> end of result set for Sample No.:P00121675-02 <<<

Sample No.: P00121675-03

Date Sampled: 01-24-22 09:36

Sample ID: SW 9

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR	

>>> end of result set for Sample No.:P00121675-03 <<<



Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00121675-04

DateSampled: 01-24-22 09:52

Sample ID: SW 10

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR

>>> end of result set for Sample No.:P00121675-04 <<<

Sample No.: P00121675-05

DateSampled: 01-24-22 10:18

Sample ID: SW 7

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR

>>> end of result set for Sample No.:P00121675-05 <<<

Sample No.: P00121675-06

DateSampled: 01-24-22 11:04

Sample ID: SW 8

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A / SMEWW 6420B	01/26/22	MGR

>>> end of result set for Sample No.:P00121675-06 <<<

>>> end of result set for Lab No.:P00121675; Total no. of samples analyzed: 6 <<<

MDL = Method Detection Limit/s

ND = Not Detected (Below MDL / DLR)

DLR = Detection Limits for Reporting (MDL x Dilution Factor)

Test Methods for Evaluating Solid Wastes, Vol 1B, USEPA, Third Edition, November 2000

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



MA Rodriguez

Date: 02/05/2022

Answer

Date: 2/7/2022

Andy

Date: 02/05/2022



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*CRL Environmental
Corporation*

■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
Industrial Park, Jose Abad Santos Ave., Clark Freeport Zone (CFZ)
Pampanga, 2023 Philippines
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CRL Environmental Corporation

07 July 2021

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

ATTN: **Engr. Bryan M. Magante**

Project Name: DALTON EIA
Lab. Nos.: P00114635-01/04

Enclosed are the results for samples received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition with C. R. No. 023/2018, will expire on September 24, 2021.

Likewise, our DOH Accreditation with Accreditation No. 03-001-20-LW-2, is valid from January 01, 2020 until December 31, 2022.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,


MARIA CARMELA Q. CAPULE
Chief Operating Officer

Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

SN: F00084356.002

Date Received:

06/22/2021

Lab No.: P00114635

Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00114635-01			Date Sampled: 06-22-21 10:56			
Sample ID: SW 4			Matrix: Surface Water			
-Metals-						
Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
-Microbiology-						
Total Coliforms**	1,600	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/23/21	HBS	
Fecal Coliforms**	240	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/23/21	HBS	
-Wet Chemistry-						
pH**, onsite	7.9	-	Electrometric Method (SM 4500-H+ B)	06/22/21	-	
Temperature**, onsite	28.5	°C	Laboratory & Field Method (SM2550 B)	06/22/21	-	
Color**	8	TCU	Visual Comparison	06/23/21	MPT	
Biological Oxygen Demand**	1	mg/L	5-Day BOD Test (SM 5210 B)	06/24/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.09	mg/L	Colorimetry - Chloroform Extraction	06/23/21	AGAS	
Total Suspended Solids**	11	mg/L	Gravimetry (SM 2540 D)	06/25/21	MPT	
Oil & Grease	1.5	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/27/21	WBD	
Chloride**	2.0	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/23/21	MPY	
Dissolved Oxygen**, onsite	8	mg/L	Winkler/Titrimetric	06/22/21	-	
Nitrate - N**	0.05	mg/L	Colorimetry - Brucine (EPA 352.1)	06/24/21	NGCM	
Phosphate - P**	0.01	mg/L	Stannous Chloride Method (SM 4500-P D)	06/23/21	MPY	

>>> end of result set for Sample No.:P00114635-01 <<<

Sample No.: P00114635-02

Date Sampled: 06-22-21 11:40

Sample ID: SW 3

Matrix: Surface Water

-Metals-						
Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
-Microbiology-						
Total Coliforms**	5,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/23/21	HBS	
Fecal Coliforms**	3,500	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/23/21	HBS	
-Wet Chemistry-						
pH**, onsite	7.9	-	Electrometric Method (SM 4500-H+ B)	06/22/21	-	
Temperature**, onsite	30.5	°C	Laboratory & Field Method (SM2550 B)	06/22/21	-	
Color**	8	TCU	Visual Comparison	06/23/21	MPT	
Biological Oxygen Demand**	< 1	mg/L	5-Day BOD Test (SM 5210 B)	06/24/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.08	mg/L	Colorimetry - Chloroform Extraction	06/23/21	AGAS	
Total Suspended Solids**	22	mg/L	Gravimetry (SM 2540 D)	06/25/21	MPT	

Page 1 of 4

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CRL Environmental Corporation

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Industrial Park, Jose Abad Santos Ave., Clark Freeport Zone (CFZ)
Pampanga, 2023 Philippines
Tel: (63 45) 599-3943 • (63 2) 8552-5100 • Fax: (63 45) 599-3963
Email: crl@crllabs.com • <http://www.crllabs.com>



Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Oil & Grease	1.6	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/27/21	WBD	
Chloride**	1.5	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/23/21	MPY	
Dissolved Oxygen**, onsite	8	mg/L	Winkler/Titrimetric	06/22/21	-	
Nitrate - N**	0.06	mg/L	Colorimetry - Brucine (EPA 352.1)	06/24/21	NGCM	
Phosphate - P**	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	06/23/21	MPY	

>>> end of result set for Sample No.:P00114635-02 <<<

Sample No.: P00114635-03

Sample ID: SW 2

DateSampled: 06-22-21 13:29

Matrix: Surface Water

-Metals-

Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	

-Microbiology-

Total Coliforms**	1,600	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/23/21	HBS	
Fecal Coliforms**	350	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/23/21	HBS	

-Wet Chemistry-

pH**, onsite	8.0	-	Electrometric Method (SM 4500-H+ B)	06/22/21	-	
Temperature**, onsite	30.9	°C	Laboratory & Field Method (SM2550 B)	06/22/21	-	
Color**	8	TCU	Visual Comparison	06/23/21	MPT	
Biological Oxygen Demand**	1	mg/L	5-Day BOD Test (SM 5210 B)	06/24/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.07	mg/L	Colorimetry - Chloroform Extraction	06/23/21	AGAS	
Total Suspended Solids**	8.0	mg/L	Gravimetry (SM 2540 D)	06/25/21	MPT	
Oil & Grease	1.2	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/27/21	WBD	
Chloride**	1.5	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/23/21	MPY	
Dissolved Oxygen**, onsite	9	mg/L	Winkler/Titrimetric	06/22/21	-	
Nitrate - N**	0.07	mg/L	Colorimetry - Brucine (EPA 352.1)	06/24/21	NGCM	
Phosphate - P**	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	06/23/21	MPY	

>>> end of result set for Sample No.:P00114635-03 <<<

Sample No.: P00114635-04

Sample ID: SW 1

DateSampled: 06-22-21 14:43

Matrix: Surface Water

-Metals-

Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	

-Microbiology-

Total Coliforms**	9,200	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/23/21	HBS	
Fecal Coliforms**	5,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/23/21	HBS	

-Wet Chemistry-

pH**, onsite	7.8	-	Electrometric Method (SM 4500-H+ B)	06/22/21	-	
Temperature**, onsite	34.2	°C	Laboratory & Field Method (SM2550 B)	06/22/21	-	
Color**	5	TCU	Visual Comparison	06/23/21	MPT	
Biological Oxygen Demand**	2	mg/L	5-Day BOD Test (SM 5210 B)	06/24/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.09	mg/L	Colorimetry - Chloroform Extraction	06/23/21	AGAS	
Total Suspended Solids**	< 2.38	mg/L	Gravimetry (SM 2540 D)	06/25/21	MPT	
Oil & Grease	0.98	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/28/21	WBD	



Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Chloride**	5.0	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/23/21	MPY	
Dissolved Oxygen**, onsite	7	mg/L	Winkler/Titrimetric	06/22/21	-	
Nitrate - N**	0.06	mg/L	Colorimetry - Brucine (EPA 352.1)	06/24/21	NGCM	
Phosphate - P**	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	06/23/21	MPY	

>>> end of result set for Sample No.:P00114635-04 <<<

>>> end of result set for Lab No.:P00114635; Total no. of samples analyzed: 4 <<<

**PAB approved parameter/s

MPN = Most Probable Number

Teledyne, HYDRALIAA Mercury Analyzer

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



Analyzed by:



Humprey B. Salonga
PRC License No.: 0100155
Microbiological Testing

Date: 07/07/2021



Prescilla C. Gatbonton
PRC License No.: 679
Chemical Testing

Date: 07/07/2021



Nathaniel Glenn C. Martin
PRC License No.: 14175
Chemical Testing

Date: 07/07/2021

Certified by:



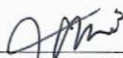
Geraldine T. Yabut
PRC License No.: 0027218
Microbiological Testing

Date: 07/07/21



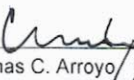
Ronald G. Espiritu
PRC License No.: 9248
Chemical Testing

Date: 7/7/21



Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 7/7/21



Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 7/7/21



SN: F00084356.002

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Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

SN: F00084356.003



Date Received:

06/22/2021

Lab No.: P00114635



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00114635-01

Date Sampled: 06-22-21 10:56

Sample ID: SW 4

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF

>>> end of result set for Sample No.:P00114635-01 <<<

Sample No.: P00114635-02

Date Sampled: 06-22-21 11:40

Sample ID: SW 3

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF

>>> end of result set for Sample No.:P00114635-02 <<<

Sample No.: P00114635-03

Date Sampled: 06-22-21 13:29

Sample ID: SW 2

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF

>>> end of result set for Sample No.:P00114635-03 <<<



Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00114635-04

Date Sampled: 06-22-21 14:43

Sample ID: SW 1

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/28/21	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/28/21	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/28/21	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/28/21	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/28/21	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/28/21	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/28/21	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/28/21	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/28/21	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/28/21	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/28/21	IJMF

>>> end of result set for Sample No.:P00114635-04 <<<

>>> end of result set for Lab No.:P00114635; Total no. of samples analyzed: 4 <<<

MDL = Method Detection Limit/s

ND = Not Detected (Below MDL / DLR)

DLR = Detection Limits for Reporting (MDL x Dilution Factor)

Test Methods for Evaluating Solid Wastes, Vol 1B, USEPA, Third Edition, November 2000

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



Analyzed by:



Ivy Joy M. Fabros

PRC License No.: 2341

Chemical Testing

Date: 07/07/2021

Certified by:



Rose Ann W. Veloria

PRC License No.: 11238

Chemical Testing

Date: 07/07/2021



Mary Anne G. Rodriguez

PRC License No.: 10281

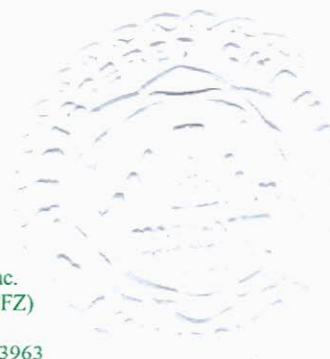
Chemical Testing

Date: 07/07/2021



SN: F00084356.003

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CRL Environmental Corporation

13 July 2021

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

ATTN: **Engr. Bryan M. Magante**

Project Name: DALTON EIA
Lab. Nos.: P00114583-01/06

Enclosed are the results for samples received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition with C. R. No. 023/2018, will expire on September 24, 2021.

Likewise, our DOH Accreditation with Accreditation No. 03-001-20-LW-2, is valid from January 01, 2020 until December 31, 2022.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,


MARIA CARMELA Q. CAPULE

Chief Operating Officer

Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

SN: F00084358.002



Date Received:

06/21/2021

Lab No.: P00114583



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00114583-01			Date Sampled: 06-21-21 09:07			
Sample ID: SW 7			Matrix: Surface Water			
-Metals-						
Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
-Microbiology-						
Total Coliforms**	5,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/22/21	TNCR	
Fecal Coliforms**	5,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/22/21	TNCR	
-Wet Chemistry-						
pH**, onsite	8.2	-	Electrometric Method (SM 4500-H+ B)	06/21/21	-	
Temperature**, onsite	25.8	°C	Laboratory & Field Method (SM2550 B)	06/21/21	-	
Color**	8	TCU	Visual Comparison	06/22/21	MPT	
Biological Oxygen Demand**	< 1	mg/L	5-Day BOD Test (SM 5210 B)	06/23/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.1	mg/L	Colorimetry - Chloroform Extraction	06/22/21	AGAS	
Total Suspended Solids**	5.5	mg/L	Gravimetry (SM 2540 D)	06/23/21	MPT	
Oil & Grease	1.1	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/25/21	WBD	
Chloride**	1.0	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/22/21	MPY	
Dissolved Oxygen**, onsite	9	mg/L	Winkler/Titrimetric	06/21/21	-	
Nitrate - N**	< 0.017	mg/L	Colorimetry - Brucine (EPA 352.1)	06/22/21	NGCM	
Phosphate - P**	0.01	mg/L	Stannous Chloride Method (SM 4500-P D)	06/22/21	MPY	

>>> end of result set for Sample No.:P00114583-01 <<<

Sample No.: P00114583-02

Date Sampled: 06-21-21 09:26

Sample ID: SW 8

Matrix: Surface Water

-Metals-						
Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
-Microbiology-						
Total Coliforms**	16,000	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/22/21	TNCR	
Fecal Coliforms**	3,500	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/22/21	TNCR	
-Wet Chemistry-						
pH**, onsite	8.2	-	Electrometric Method (SM 4500-H+ B)	06/21/21	-	
Temperature**, onsite	26.3	°C	Laboratory & Field Method (SM2550 B)	06/21/21	-	
Color**	8	TCU	Visual Comparison	06/22/21	MPT	
Biological Oxygen Demand**	< 1	mg/L	5-Day BOD Test (SM 5210 B)	06/23/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.08	mg/L	Colorimetry - Chloroform Extraction	06/22/21	AGAS	
Total Suspended Solids**	3.5	mg/L	Gravimetry (SM 2540 D)	06/23/21	MPT	

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EN>>>>00387756>>>>



CRL Environmental Corporation

■ **Laboratory:** Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc.
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Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Oil & Grease	1.1	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/26/21	WBD	
Chloride**	1.5	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/22/21	MPY	
Dissolved Oxygen**, onsite	8	mg/L	Winkler/Titrimetric	06/21/21	-	
Nitrate - N**	< 0.017	mg/L	Colorimetry - Brucine (EPA 352.1)	06/22/21	NGCM	
Phosphate - P**	0.02	mg/L	Stannous Chloride Method (SM 4500-P D)	06/22/21	MPY	

>>> end of result set for Sample No.:P00114583-02 <<<

Sample No.: P00114583-03

Sample ID: SW 10

DateSampled: 06-21-21 09:45

Matrix: Surface Water

-Metals-						
Arsenic**	0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	

-Microbiology-						
Total Coliforms**	24,000	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/22/21	TNCR	
Fecal Coliforms**	9,200	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/22/21	TNCR	

-Wet Chemistry-						
pH**, onsite	8.3	-	Electrometric Method (SM 4500-H+ B)	06/21/21	-	
Temperature**, onsite	25.8	°C	Laboratory & Field Method (SM2550 B)	06/21/21	-	
Color**	8	TCU	Visual Comparison	06/22/21	MPT	
Biological Oxygen Demand**	1	mg/L	5-Day BOD Test (SM 5210 B)	06/23/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.06	mg/L	Colorimetry - Chloroform Extraction	06/22/21	AGAS	
Total Suspended Solids**	4.0	mg/L	Gravimetry (SM 2540 D)	06/23/21	MPT	
Oil & Grease	1.2	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/26/21	WBD	
Chloride**	1.0	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/22/21	MPY	
Dissolved Oxygen**, onsite	9	mg/L	Winkler/Titrimetric	06/21/21	-	
Nitrate - N**	< 0.017	mg/L	Colorimetry - Brucine (EPA 352.1)	06/22/21	NGCM	
Phosphate - P**	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	06/22/21	MPY	

>>> end of result set for Sample No.:P00114583-03 <<<

Sample No.: P00114583-04

Sample ID: SW 9

DateSampled: 06-21-21 10:04

Matrix: Surface Water

-Metals-						
Arsenic**	0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	0.004	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	

-Microbiology-						
Total Coliforms**	9,200	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/22/21	TNCR	
Fecal Coliforms**	2,400	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/22/21	TNCR	

-Wet Chemistry-						
pH**, onsite	8.3	-	Electrometric Method (SM 4500-H+ B)	06/21/21	-	
Temperature**, onsite	26.0	°C	Laboratory & Field Method (SM2550 B)	06/21/21	-	
Color**	8	TCU	Visual Comparison	06/22/21	MPT	
Biological Oxygen Demand**	< 1	mg/L	5-Day BOD Test (SM 5210 B)	06/23/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.08	mg/L	Colorimetry - Chloroform Extraction	06/22/21	AGAS	
Total Suspended Solids**	6.0	mg/L	Gravimetry (SM 2540 D)	06/23/21	MPT	
Oil & Grease	1.2	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/26/21	WBD	



Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Chloride**	1.5	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/22/21	MPY	
Dissolved Oxygen**, onsite	8	mg/L	Winkler/Titrimetric	06/21/21	-	
Nitrate - N**	< 0.017	mg/L	Colorimetry - Brucine (EPA 352.1)	06/22/21	NGCM	
Phosphate - P**	0.02	mg/L	Stannous Chloride Method (SM 4500-P D)	06/22/21	MPY	

>>> end of result set for Sample No.:P00114583-04 <<<

Sample No.: P00114583-05

DateSampled: 06-21-21 10:18

Sample ID: SW 6

Matrix: Surface Water

-Metals-						
Arsenic**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	

-Microbiology-						
Total Coliforms**	9,200	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/22/21	TNCR	
Fecal Coliforms**	2,800	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/22/21	TNCR	

-Wet Chemistry-						
pH**, onsite	8.1	-	Electrometric Method (SM 4500-H+ B)	06/21/21	-	
Temperature**, onsite	25.4	°C	Laboratory & Field Method (SM2550 B)	06/21/21	-	
Color**	8	TCU	Visual Comparison	06/22/21	MPT	
Biological Oxygen Demand**	1	mg/L	5-Day BOD Test (SM 5210 B)	06/23/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.08	mg/L	Colorimetry - Chloroform Extraction	06/22/21	AGAS	
Total Suspended Solids**	2.5	mg/L	Gravimetry (SM 2540 D)	06/23/21	MPT	
Oil & Grease	1.1	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/26/21	WBD	
Chloride**	1.0	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/22/21	MPY	
Dissolved Oxygen**, onsite	8	mg/L	Winkler/Titrimetric	06/21/21	-	
Nitrate - N**	< 0.017	mg/L	Colorimetry - Brucine (EPA 352.1)	06/22/21	NGCM	
Phosphate - P**	0.01	mg/L	Stannous Chloride Method (SM 4500-P D)	06/22/21	MPY	

>>> end of result set for Sample No.:P00114583-05 <<<

Sample No.: P00114583-06

DateSampled: 06-21-21 11:36

Sample ID: SW 5

Matrix: Surface Water

-Metals-						
Arsenic**	0.007	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Cadmium**	< 0.001	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Lead**	< 0.005	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	
Mercury**	< 0.0002	mg/L	Cold Vapor AAS	07/04/21	JLJ	
Dissolved Copper	< 0.003	mg/L	ICP - OES (SMEWW 3120B / EPA 6010B)	07/03/21	PPG	

-Microbiology-						
Total Coliforms**	1,700	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221B)	06/22/21	TNCR	
Fecal Coliforms**	790	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	06/22/21	TNCR	

-Wet Chemistry-						
pH**, onsite	7.9	-	Electrometric Method (SM 4500-H+ B)	06/21/21	-	
Temperature**, onsite	26.1	°C	Laboratory & Field Method (SM2550 B)	06/21/21	-	
Color**	8	TCU	Visual Comparison	06/22/21	MPT	
Biological Oxygen Demand**	1	mg/L	5-Day BOD Test (SM 5210 B)	06/23/21	PSSM	
Surfactants (MBAS as LAS, MW = 348.48 g/mole)	0.07	mg/L	Colorimetry - Chloroform Extraction	06/22/21	AGAS	
Total Suspended Solids**	7.5	mg/L	Gravimetry (SM 2540 D)	06/23/21	MPT	
Oil & Grease	1.1	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	06/26/21	WBD	
Chloride**	1.5	mg/L	Argentometric Method (SM4500 Cl-B)	06/23/21	MLJ	



Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-						
Hexavalent Chromium**	< 0.004	mg/L	Diphenylcarbazide, Colorimetric Method (SM3500-Cr B)	06/24/21	ANBB	
Cyanide**, Free	< 0.007	mg/L	Ion Selective Electrode (SM 4500 CN-F)	06/22/21	MPY	
Dissolved Oxygen**, onsite	8	mg/L	Winkler/Titrimetric	06/21/21	-	
Nitrate - N**	< 0.017	mg/L	Colorimetry - Brucine (EPA 352.1)	06/22/21	NGCM	
Phosphate - P**	< 0.0064	mg/L	Stannous Chloride Method (SM 4500-P D)	06/22/21	MPY	

>>> end of result set for Sample No.:P00114583-06 <<<

>>> end of result set for Lab No.:P00114583; Total no. of samples analyzed: 6 <<<

**PAB approved parameter/s

MPN = Most Probable Number

Teledyne, HYDRAIIAA Mercury Analyzer

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020



Analyzed by:

[Signature]

Therese Nicole C. Radam
PRC License No.: 0098322
Microbiological Testing

Date: 07/06/2021

[Signature]

Prescilla C. Gatbonton
PRC License No.: 679
Chemical Testing

Date: 07/06/2021

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Geraldine T. Yabut
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Date: 07/07/21

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Ronald G. Espiritu
PRC License No.: 9248
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Date: 7/7/21

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Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 7/7/21

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Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 7/7/21



SN: F00084358.002

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**CRL Environmental
Corporation**

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Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
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SN: F00084358.003



Date Received:

06/21/2021

Lab No.: P00114583



Project Name: DALTON EIA

Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00114583-01

Date Sampled: 06-21-21 09:07

Sample ID: SW 7

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	

>>> end of result set for Sample No.:P00114583-01 <<<

Sample No.: P00114583-02

Date Sampled: 06-21-21 09:26

Sample ID: SW 8

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	

>>> end of result set for Sample No.:P00114583-02 <<<

Sample No.: P00114583-03

Date Sampled: 06-21-21 09:45

Sample ID: SW 10

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	

>>> end of result set for Sample No.:P00114583-03 <<<



Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00114583-05

DateSampled: 06-21-21 10:18

Sample ID: SW 6

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF

>>> end of result set for Sample No.:P00114583-05 <<<

Sample No.: P00114583-06

DateSampled: 06-21-21 11:36

Sample ID: SW 5

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF

>>> end of result set for Sample No.:P00114583-06 <<<

>>> end of result set for Lab No.:P00114583; Total no. of samples analyzed: 5 <<<

MDL = Method Detection Limit/s

ND = Not Detected (Below MDL / DLR)

DLR = Detection Limits for Reporting (MDL x Dilution Factor)

Test Methods for Evaluating Solid Wastes, Vol 1B, USEPA, Third Edition, November 2000

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



Analyzed by:



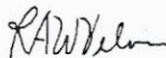
Ivy Joy M. Fabros

PRC License No.: 2341

Chemical Testing

Date: 07/06/2021

Certified by:

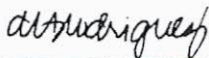


Rose Ann W. Veloria

PRC License No.: 11238

Chemical Testing

Date: 07/06/2021



Mary Anne G. Rodriguez

PRC License No.: 10281

Chemical Testing

Date: 07/06/2021



SN: F00084358.003

Disclaimer: This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the customer to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited. This analytical report is NOT VALID without the official dry seal of CRL Environmental Corporation.



Results of Analyses

LCI Environmental Corporation

Unit 8LM, Future Point Plaza 3, 111, Panay Ave.
South Triangle, Quezon City

SN: F00084358.004



Date Received:

06/21/2021

Project Name: DALTON EIA

Lab No.: P00114583



Attention: Engr. Bryan M. Magante

Test Description	Results	Units	MDL	DLR	Test Methods	Date Analyzed	By	Ref
------------------	---------	-------	-----	-----	--------------	---------------	----	-----

Sample No.: P00114583-04

Date Sampled: 06-21-21 10:04

Sample ID: SW 9

Matrix: Surface Water

-Organics-

PHENOLS

2,4,6-trichlorophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2,4-dichlorophenol	ND	mg/L	0.0010	0.0010	USEPA Method 8041A	06/27/21	IJMF	
2,4-dimethylphenol	ND	mg/L	0.0011	0.0011	USEPA Method 8041A	06/27/21	IJMF	
2,4-dinitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-chlorophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
2-methyl-4,6-dinitrophenol	ND	mg/L	0.0008	0.0008	USEPA Method 8041A	06/27/21	IJMF	
2-nitrophenol	ND	mg/L	0.0006	0.0006	USEPA Method 8041A	06/27/21	IJMF	
4-chloro-3-methylphenol	ND	mg/L	0.0019	0.0019	USEPA Method 8041A	06/27/21	IJMF	
4-nitrophenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	
pentachlorophenol	ND	mg/L	0.0018	0.0018	USEPA Method 8041A	06/27/21	IJMF	
phenol	ND	mg/L	0.0009	0.0009	USEPA Method 8041A	06/27/21	IJMF	

>>> end of result set for Sample No.:P00114583-04 <<<

>>> end of result set for Lab No.:P00114583; Total no. of sample analyzed: 1 <<<

MDL = Method Detection Limit/s

ND = Not Detected (Below MDL / DLR)

DLR = Detection Limits for Reporting (MDL x Dilution Factor)

Test Methods for Evaluating Solid Wastes, Vol 1B, USEPA, Third Edition, November 2000

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.




Analyzed by:



Ivy Joy M. Fabros
PRC License No.: 2341
Chemical Testing

Date: 07/13/2021

Certified by:



Rose Ann W. Veloria
PRC License No.: 11238
Chemical Testing

Date: 07/13/2021



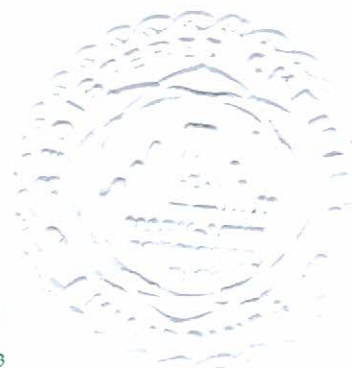
Mary Anne G. Rodriguez
PRC License No.: 10281
Chemical Testing

Date: 07/13/2021



SN: F00084358.004

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CRL Calabarquez Corporation

TEST RESULTS

Customer : LCI Envi Corporation - Dalton
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

Date of Sampling: June 21 to 25, 2021

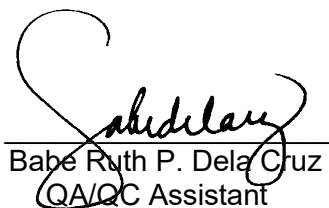
Station I.D.	Location	TSP ($\mu\text{g}/\text{Ncm}$)	PM ₁₀ ($\mu\text{g}/\text{Ncm}$)	NO ₂ ($\mu\text{g}/\text{Ncm}$)	SO ₂ ($\mu\text{g}/\text{Ncm}$)	Pb ($\mu\text{g}/\text{Ncm}$)	O ₃ ($\mu\text{g}/\text{Ncm}$)	CO (ppm)
A1 – N/V/A (6)	Brgy. Canabuan, Sta. Fe, Near Local Church	29.1	9.9	1.9	7.9	ND	13.1	1.07
A2 – N/V/A (7)	Brgy. Canabuan, Sta. Fe, Near Brgy. Hall	28.0	14.9	1.9	6.0	ND	3.8	1.21
A3 – N/V/A (8)	Brgy. Canabuan, Sta. Fe, Sitio Spanish	21.0	19.3	1.3	4.1	ND	3.1	1.23
A4 – N/V/A (9)	Brgy. Canarem, Aritao, Nueva Vizcaya	18.4	11.6	1.0	16.7	ND	4.9	1.34
DENR Standards (NAAQS/NAAQGV)^		230	150	150	180	20*	60	9
Remarks		Passed	Passed	Passed	Passed	Passed	Passed	Passed

TSP, PM₁₀, Pb, NO₂, SO₂, O₃ = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

*Evaluation of this standard is carried out for 30-min averaging time

Prepared by:


Babe Ruth P. Dela Cruz
QA/QC Assistant

Certified by:


Kristin Anne C. Castillo
QA/QC Manager



CRL Calabarquez Corporation

TEST RESULTS

Customer : **LCI Envi Corporation - Dalton**
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

Date of Sampling: June 25 to 26 and 28 to July 1, 2021

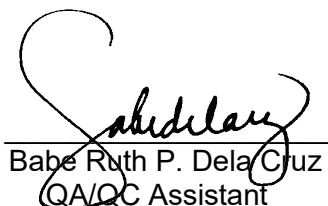
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A5 – N/V/A (T4)	Brgy. Beti, Aritao	29.1	14.1	2.2	9.9	ND	9.2	1.22
A6 – N/V/A (4)	Sitio Popo, Brgy. Salazar, Carranglan	42.2	16.3	1.8	8.8	ND	11.2	1.56
A7 – N/V/A (3)	Sitio Barat, Brgy. Burgos, Carranglan	66.4	65.8	1.2	15.1	ND	9.5	1.64
A8 – N/V/A (T3)	Zone II, Brgy. Salazar, Carranglan	52.1	41.6	3.5	10.4	ND	5.2	2.83
DENR Standards (NAAQS/NAAQGV)^		230	150	150	180	20*	60	9
Remarks		Passed	Passed	Passed	Passed	Passed	Passed	Passed

TSP, PM₁₀, Pb, NO₂, SO₂, O₃ = Corrected to 25°C, 760mmHg; ND = Not Detected


^RA 8749 (Philippine Clean Air Act of 1999)

*Evaluation of this standard is carried out for 30-min averaging time

Prepared by:


Babe Ruth P. Dela Cruz
QA/QC Assistant

Certified by:


Kristin Anne C. Castillo
QA/QC Manager



CRL Calabarquez Corporation

TEST RESULTS

Customer : LCI Envi Corporation - Dalton
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

Date of Sampling: July 1 to 7, 2021


Station I.D.	Location	TSP ($\mu\text{g}/\text{Ncm}$)	PM ₁₀ ($\mu\text{g}/\text{Ncm}$)	NO ₂ ($\mu\text{g}/\text{Ncm}$)	SO ₂ ($\mu\text{g}/\text{Ncm}$)	Pb ($\mu\text{g}/\text{Ncm}$)	O ₃ ($\mu\text{g}/\text{Ncm}$)	CO (ppm)
A9 – N/V/A (5)	Sitio Labug, Brgy. Salazar, Carranglan	22.8	13.1	0.8	10.2	ND	5.5	1.25
A10 – N/V/A (2)	Sitio Laat 1, Brgy. Bunga Carranglan	13.7	13.2	1.8	14.6	ND	10.0	1.12
A11 – N/V/A (1)	Sitio Laat 2, Brgy. Bunga Carranglan	12.6	21.9	2.0	ND	ND	11.5	1.06
A12 – N/V/A (T2)	Sitio Coral, Brgy. R.A. Padilla, Carranglan	21.2	24.7	1.5	7.6	ND	12.4	1.08
A13 – N/V/A (T1)	Back of Daycare, Brgy. San Agustin, Carranglan	30.0	23.5	4.7	61.6	ND	6.3	1.87
DENR Standards (NAAQS/NAAQGV)^		230	150	150	180	20*	60	9
Remarks		Passed	Passed	Passed	Passed	Passed	Passed	Passed

TSP, PM₁₀, Pb, NO₂, SO₂, O₃ = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

*Evaluation of this standard is carried out for 30-min averaging time

Prepared by:


Babe Ruth P. Dela Cruz
QA/QC Assistant

Certified by:


Kristin Anne C. Castillo
QA/QC Manager



CRL Calabarquez Corporation

TEST RESULTS

Customer : **LCI Envi Corporation - Dalton**
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

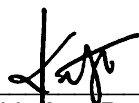
Date of Sampling: January 24 to 29, 2022
(24-hour Sampling)

Station I.D.	Location	TSP ($\mu\text{g}/\text{Ncm}$)	PM ₁₀ ($\mu\text{g}/\text{Ncm}$)	NO ₂ ($\mu\text{g}/\text{Ncm}$)	SO ₂ ($\mu\text{g}/\text{Ncm}$)
A1 – N/V/A (6)	Brgy. Canabuan, Sta. Fe, Near Local Church	25.5	27.7	1.0	ND
A2 – N/V/A (7)	Brgy. Canabuan, Sta. Fe, Near Brgy. Hall	15.1	14.7	1.7	ND
A3 – N/V/A (8)	Brgy. Canabuan, Sta. Fe, Sitio Spanish	11.5	6.2	1.0	ND
A4 – N/V/A (9)	Brgy. Canarem, Aritao, Nueva Vizcaya	23.3	17.3	0.8	ND
DENR Standards (NAAQGV)^		230	150	150	180
Remarks		Passed	Passed	Passed	Passed

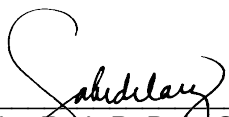
TSP, PM₁₀, NO₂, SO₂, = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

Prepared by:


Keith Ann B. Gacho
QA/QC Assistant

Reviewed by:


Babe Ruth P. Dela Cruz
QA/QC Assistant



CRL Calabarquez Corporation

TEST RESULTS

Customer : **LCI Envi Corporation - Dalton**
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

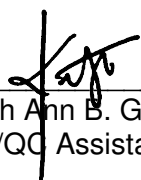
Date of Sampling: January 29 to 30 and February 1 to 5, 2022
(24-hour Sampling)

Station I.D.	Location	TSP ($\mu\text{g}/\text{Ncm}$)	PM ₁₀ ($\mu\text{g}/\text{Ncm}$)	NO ₂ ($\mu\text{g}/\text{Ncm}$)	SO ₂ ($\mu\text{g}/\text{Ncm}$)
A5 – N/V/A (T4)	Brgy. Beti, Aritao Nueva Vizcaya	35.2	31.5	2.2	ND
A6 – N/V/A (T3)	Zone II, Brgy. Salazar, Carranglan	14.5	6.0	1.6	ND
A7 – N/V/A (T1)	Back of Daycare, Brgy. San Agustin, Carranglan	30.4	15.0	2.5	ND
A8 – N/V/A (5)	Sitio Lagub, Brgy Salazar, Carranglan	11.9	14.7	0.8	ND
DENR Standards (NAAQGV)^		230	150	150	180
Remarks		Passed	Passed	Passed	Passed

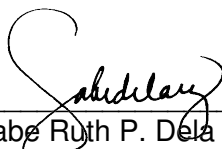
TSP, PM₁₀, NO₂, SO₂, = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

Prepared by:


Keith Ann B. Gacho
QA/QC Assistant

Reviewed by:


Babe Ruth P. Dela Cruz
QA/QC Assistant



CRL Calabarquez Corporation

TEST RESULTS

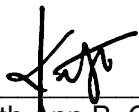
Customer : LCI Envi Corporation - Dalton
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

Date of Sampling: February 5 to 10, 2022
(24-hour Sampling)


Station I.D.	Location	TSP ($\mu\text{g}/\text{Ncm}$)	PM ₁₀ ($\mu\text{g}/\text{Ncm}$)	NO ₂ ($\mu\text{g}/\text{Ncm}$)	SO ₂ ($\mu\text{g}/\text{Ncm}$)
A9 – N/V/A (4)	Sitio Popo, Brgy Salazar Carranglan	36.2	26.6	1.6	8.7
A10 – N/V/A (3)	Sitio Barat, Brgy. Burgos, Carranglan	10.3	6.0	1.5	8.6
A11 – N/V/A (2)	Sitio Laat 1, Brgy. Bunga, Carranglan	10.4	6.1	2.2	ND
A12 – N/V/A (1)	Sitio Laat 2, Brgy. Bunga, Carranglan	28.1	16.1	2.2	2.5
A13 – N/V/A (T2)	Sitio Coral, Brgy R.A. Padilla, Carranglan	24.0	11.2	1.8	ND
DENR Standards (NAAQGV)^		230	150	150	180
Remarks		Passed	Passed	Passed	Passed

TSP, PM₁₀, NO₂, SO₂, = Corrected to 25°C, 760mmHg; ND = Not Detected
^RA 8749 (Philippine Clean Air Act of 1999)

Prepared by:


Keith Ann B. Gacho
QA/QC Assistant

Reviewed by:


Babe Ruth P. Dela Cruz
QA/QC Assistant



CRL Calabarquez Corporation

TEST RESULTS

Customer : **LCI Envi Corporation - Dalton**
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

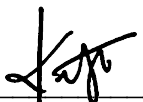
Date of Sampling: January 25 to 27 and 29, 2022
(1-hour Sampling)

Station I.D.	Location	O ₃ (µg/Ncm)	CO (ppm)
A1 – N/V/A (6)	Brgy. Canabuan, Sta. Fe, Near Local Church	ND	2.34
A2 – N/V/A (7)	Brgy. Canabuan, Sta. Fe, Near Brgy. Hall	ND	5.67
A3 – N/V/A (8)	Brgy. Canabuan, Sta. Fe, Sitio Spanish	ND	2.67
A4 – N/V/A (9)	Brgy. Canarem, Aritao, Nueva Vizcaya	ND	2.73
DENR Standards (NAAQGV)^		140	30
Remarks		Passed	Passed

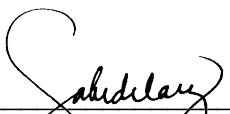
O₃ = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

Prepared by:


Keith Ann B. Gacho
QA/QC Assistant

Reviewed by:


Babe Ruth P. Dela Cruz
QA/QC Assistant



CRL Calabarquez Corporation

TEST RESULTS

Customer : LCI Envi Corporation - Dalton
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

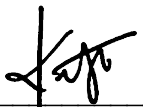
**Date of Sampling: January 30, February 2, 3 and 5, 2022
(1-hour Sampling)**

Station I.D.	Location	O ₃ (µg/Ncm)	CO (ppm)
A5 – N/V/A (T4)	Brgy. Beti, Aritao Nueva Vizcaya	ND	2.32
A6 – N/V/A (T3)	Zone II, Brgy. Salazar, Carranglan	77.0	2.11
A7 – N/V/A (T1)	Back of Daycare, Brgy. San Agustin, Carranglan	ND	2.72
A8 – N/V/A (5)	Sitio Lagub, Brgy Salazar, Carranglan	ND	3.29
DENR Standards (NAAQGV)^		140	30
Remarks		Passed	Passed


O₃ = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

Prepared by:


Keith Ann B. Gacho
QA/QC Assistant

Reviewed by:


Babe Ruth P. Dela Cruz
QA/QC Assistant



CRL Calabarquez Corporation

TEST RESULTS

Customer : LCI Envi Corporation - Dalton
Address : Nueva Ecija and Nueva Vizcaya
Attn : Engr. Bryan M. Magante

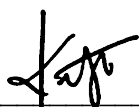
Date of Sampling: February 6 to 10, 2022
(1-hour Sampling)

Station I.D.	Location	O ₃ (µg/Ncm)	CO (ppm)
A9 – N/V/A (4)	Sitio Popo, Brgy Salazar Carranglan	24.7	2.95
A10 – N/V/A (3)	Sitio Barat, Brgy. Burgos, Carranglan	17.4	3.85
A11 – N/V/A (2)	Sitio Laat 1, Brgy. Bunga, Carranglan	ND	3.26
A12 – N/V/A (1)	Sitio Laat 2, Brgy. Bunga, Carranglan	ND	2.54
A13 – N/V/A (T2)	Sitio Coral, Brgy R.A. Padilla, Carranglan	ND	3.59
DENR Standards (NAAQGV)^		140	30
Remarks		Passed	Passed

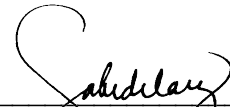
O₃ = Corrected to 25°C, 760mmHg; ND = Not Detected

^RA 8749 (Philippine Clean Air Act of 1999)

Prepared by:


Keith Ann B. Gacho
QA/QC Assistant

Reviewed by:


Babe Ruth P. Dela Cruz
QA/QC Assistant

ANNEX E

Annexes of the Terrestrial & Freshwater Ecology
Assessment Reports

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija



TERRESTRIAL ECOLOGY REPORT

(Integrated wet and
dry season report)

Dalton Pass East Road Project

June 2021 and January 2022

ANNEX A

Summary list of Flora and Fauna species

Annex A Table 1. Summary list of flora species and their distribution, endemism, and conservation status recorded during wet and dry sampling seasons within the proposed Dalton pass East Road Project. Letter codes under conservation status represent LC – Least concern; EN – Endangered; VU – Vulnerable; NT – Near threatened, and OTS – Other threatened species. Letter codes under sampling stations represent species recorded during the wet season only (W), the dry season only (D), and both seasons (B).

No.	Taxonomic Name			Endemicity	Conservation Status		Sampling Plot											
	Family Name	Scientific Name	Common Name		DAO 2017-11	IUCN 2021	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12
1	Amaranthaceae	<i>Alternanthera philoxeroides</i>	Kutcharitas	Exotic							W							
2	Anacardiaceae	<i>Anacardium occidentale</i>	Kasoy	Exotic		LC				B								
3	Anacardiaceae	<i>Mangifera indica</i>	Mangga	Exotic		DD		B										
4	Anacardiaceae	<i>Semecarpus cuneiformis</i>	Ligas	Indigenous								B						
5	Annonaceae	<i>Annona muricata</i>	Guyabano	Exotic		LC		B										
6	Apocynaceae	<i>Alstonia macrophylla</i>	Batino	Indigenous		LC								B				
7	Apocynaceae	<i>Tabernaemontana pandaciqui</i>	Pandakaki	Indigenous		LC		W										
8	Apocynaceae	<i>Voacanga globosa</i>	Bayag usa	Endemic		LC					W							
9	Apocynaceae	<i>Wrightia pubescens</i>	Lanete	Indigenous		LC					B							
10	Asteraceae	<i>Ageratum conyzoides</i>	Bulak manok	Exotic				D										
11	Asteraceae	<i>Blumea balsamifera</i>	Sambong	Indigenous		LC		B										
12	Asteraceae	<i>Chromolaena odorata</i>	Hagonoi	Exotic			B											
13	Asteraceae	<i>Crassocephalum crepidioides</i>	Redflower Ragweed	Exotic											D			
14	Asteraceae	<i>Elephantopus scaber</i>	Elephantopus	Exotic									B					
15	Asteraceae	<i>Tithonia diversifolia</i>	Wild sunflower	Exotic							W							
16	Burseraceae	<i>Canarium asperum</i>	Pagsahingin	Indigenous		LC				W								
17	Cannabaceae	<i>Trema orientalis</i>	Anabiong	Indigenous						B								
18	Casuarinaceae	<i>Casuarina equisetifolia</i>	Ago	Indigenous		LC						B						
19	Centropiaceae	<i>Bhesa paniculata</i>	Biku-biku	Indigenous		LC										B		
20	Clethraceae	<i>Clethra canescens</i>	Clethra	Endemic											B			
21	Cunoniaceae	<i>Weinmannia luzoniensis</i>	Itangan	Endemic		NT										B		
22	Cyperaceae	<i>Cyperus rotundus</i>	Mutha	Indigenous		LC					W							
23	Cyperaceae	<i>Scleria scrobiculata</i>	Sarat	Indigenous													B	
24	Dipterocarpaceae	<i>Anisoptera thurifera</i>	Palosapis	Endemic		VU				B								
25	Dipterocarpaceae	<i>Shorea almon</i>	Almon	Indigenous	VU	NT									B			
26	Dipterocarpaceae	<i>Shorea negrosensis</i>	Red lauan	Endemic	VU	LC									B			
27	Elaeagnaceae	<i>Elaeagnus triflorus</i>	Elaeagnus	Indigenous									B					
28	Euphorbiaceae	<i>Homonoia riparia</i>	Lumanai	Indigenous		LC						B						
29	Euphorbiaceae	<i>Macaranga grandifolia</i>	Takip asin	Endemic		VU									B			
30	Euphorbiaceae	<i>Macaranga sinensis</i>	Binungang pula	Indigenous											B			
31	Euphorbiaceae	<i>Macaranga tanarius</i>	Binunga	Indigenous		LC										B		
32	Euphorbiaceae	<i>Mallotus mollissimus</i>	Hinlaumo	Indigenous		LC									B			
33	Euphorbiaceae	<i>Mallotus philippensis</i>	Banato	Indigenous		LC												B
34	Euphorbiaceae	<i>Omalanthus populneus</i>	Balanti	Indigenous											B			

No.	Taxonomic Name			Endemicity	Conservation Status		Sampling Plot											
	Family Name	Scientific Name	Common Name		DAO 2017-11	IUCN 2021	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12
35	Fabaceae	<i>Acacia auriculiformis</i>	Auri	Exotic		LC								B				
36	Fabaceae	<i>Albizia lebbbeck</i>	Langil	Exotic		LC		B										
37	Fabaceae	<i>Centrosema pubescens</i>	Dilang butiki	Exotic				B										
38	Fabaceae	<i>Flemingia macrophylla</i>	Malabalatong	Indigenous			W											
39	Fabaceae	<i>Flemingia strobilifera</i>	Payang-payang	Indigenous					W									
40	Fabaceae	<i>Leucaena leucocephala</i>	Ipil-ipil	Exotic				B										
41	Fabaceae	<i>Mimosa pudica</i>	Makahiya	Exotic		LC				W								
42	Fabaceae	<i>Piliostigma malabaricum</i>	Alibangbang	Indigenous					B									
43	Fabaceae	<i>Pterocarpus indicus</i>	Narra	Indigenous	VU	EN				B								
44	Fabaceae	<i>Tamarindus indica</i>	Sampalok	Exotic		LC					B							
45	Hypericaceae	<i>Cratoxylum sumatranum</i>	Paguringon	Endemic		LC					B							
46	Lamiaceae	<i>Clerodendrum macrostegium</i>	Pay-at	Indigenous		LC									B			
47	Lamiaceae	<i>Gmelina arborea</i>	Gmelina	Exotic		LC			B									
48	Lamiaceae	<i>Hyptis brevipes</i>	Lesser roundweed	Exotic			D											
49	Lamiaceae	<i>Hyptis suaveolens</i>	Suob kabayo	Exotic			D											
50	Lamiaceae	<i>Lantana camara</i>	Coronitas	Exotic				B										
51	Lamiaceae	<i>Premna odorata</i>	Alagau	Indigenous									B					
52	Lamiaceae	<i>Stachytarpheta jamaicensis</i>	Kandi-kandilaan	Exotic		LC					B							
53	Lamiaceae	<i>Tectona grandis</i>	Teak	Exotic						B								
54	Lauraceae	<i>Litsea glutinosa</i>	Sablot	Indigenous		LC		B										
55	Lomariopsidaceae	<i>Cyclopeltis crenata</i>	Blue fern	Indigenous												B		
56	Malvaceae	<i>Commersonia bartramia</i>	Kakaag	Indigenous		LC				W								
57	Malvaceae	<i>Sida rhombifolia</i>	Takling baka	Indigenous							B							
58	Malvaceae	<i>Urena lobata</i>	Kollo-kollot	Indigenous		LC						B						
59	Melastomataceae	<i>Melastoma malabathricum</i>	Malatungaw	Indigenous										B				
60	Meliaceae	<i>Sandoricum koetjape</i>	Santol	Indigenous		LC		B										
61	Meliaceae	<i>Sandoricum vidalii</i>	Malasantol	Indigenous		VU										B		
62	Moraceae	<i>Artocarpus blancoi</i>	Antipolo	Endemic		LC												B
63	Moraceae	<i>Artocarpus heterophyllus</i>	Langka	Exotic				B										
64	Moraceae	<i>Ficus minahassae</i>	Hagimit	Indigenous		LC						B						
65	Moraceae	<i>Ficus nota</i>	Tibig	Indigenous		LC						B						
66	Moraceae	<i>Ficus ruficaulis</i>	Tabgun	Indigenous		LC										B		
67	Moraceae	<i>Ficus septica</i>	Hauili	Indigenous		LC		B										
68	Muntingiaceae	<i>Muntingia calabura</i>	Aratiles	Exotic				D										
69	Myrtaceae	<i>Eucalyptus robusta</i>	Eucalyptus	Exotic		NT			B									
70	Myrtaceae	<i>Psidium guajava</i>	Bayabas	Exotic		LC	B											
71	Phyllanthaceae	<i>Antidesma ghaesembilla</i>	Binayuyu	Indigenous		LC		B										
72	Phyllanthaceae	<i>Bischofia javanica</i>	Tuai	Indigenous		LC										B		
73	Phyllanthaceae	<i>Breynia vitis-idaea</i>	Matang hipon	Indigenous		LC		B										
74	Phyllanthaceae	<i>Glochidion album</i>	Malabagang	Indigenous										B				

No.	Taxonomic Name			Endemicity	Conservation Status		Sampling Plot											
	Family Name	Scientific Name	Common Name		DAO 2017-11	IUCN 2021	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12
75	Pinaceae	<i>Pinus kesiya</i>	Benguet pine	Endemic		LC								B				
76	Pittosporaceae	<i>Pittosporum pentandrum</i>	Mamalis	Indigenous						B								
77	Poaceae	<i>Chrysopogon aciculatus</i>	Amorseco	Indigenous							B							
78	Poaceae	<i>Coix lacryma-jobi</i>	Tigbi	Indigenous												D		
79	Poaceae	<i>Cymbopogon tortilis</i>	Balani	Indigenous					B									
80	Poaceae	<i>Imperata cylindrica</i>	Cogon	Indigenous				B										
81	Poaceae	<i>Melinis repens</i>	Natal grass	Exotic			W											
82	Poaceae	<i>Paspalum conjugatum</i>	Carabao grass	Exotic		LC	B											
83	Poaceae	<i>Saccharum spontaneum</i>	Talahib	Indigenous		LC		B										
84	Poaceae	<i>Setaria palmifolia</i>	Ayas-as	Indigenous											B			
85	Poaceae	<i>Themeda gigantea</i>	Giant themeda	Indigenous				B										
86	Poaceae	<i>Themeda triandra</i>	Bagokbok	Indigenous					B									
87	Poaceae	<i>Thysanolaena latifolia</i>	Tambo	Indigenous													W	
88	Putranjivaceae	<i>Drypetes falcata</i>	Gakakan	Endemic	OTS							B						
89	Rosaceae	<i>Rubus luzoniensis</i>	Wild strawberry	Endemic											B			
90	Rubiaceae	<i>Mussaenda anisophylla</i>	Mussaenda	Endemic		NT												B
91	Rubiaceae	<i>Neonauclea bartlingii</i>	Lisak	Endemic		LC											B	
92	Rubiaceae	<i>Neonauclea reticulata</i>	Bangkal pula	Indigenous														B
93	Rubiaceae	<i>Ophiorrhiza oblongifolia</i>	Ophiorrhiza	Endemic											B			
94	Rubiaceae	<i>Spermacoce hispida</i>	Buttonweed	Indigenous			B											
95	Rubiaceae	<i>Wendlandia luzoniensis</i>	Wendlandia	Endemic													B	
96	Rutaceae	<i>Melicope triphylla</i>	Matang araw	Indigenous								B						
97	Salicaceae	<i>Flacourtia jangomas</i>	Governor's plum	Exotic							B							
98	Sapindaceae	<i>Guioa koelreuteria</i>	Alahan	Indigenous		LC				B								
99	Sapotaceae	<i>Palaquium philippense</i>	Malakmalak	Endemic	VU	LC										B		
100	Sapotaceae	<i>Pouteria campechiana</i>	Tiesa	Exotic		LC		B										
101	Staphyleaceae	<i>Turpinia ovalifolia</i>	Anonggo	Indigenous											B			
102	Urticaceae	<i>Leucosyke capitellata</i>	Alagasi	Indigenous		LC												B
103	Urticaceae	<i>Villebrunea trinervis</i>	Villebrunea	Indigenous											B			
104	Vitaceae	<i>Leea philippinensis</i>	Kaliantan	Indigenous											W			
105	Zingiberaceae	<i>Alpinia elegans</i>	Tagbak	Endemic	VU											B		

Annex A Table 2. Importance Value Index of all species recorded in the study area during wet and dry season sampling.

No	Common Name	F	A	D	%RF	%RA	%RD	IVI
Wet Season Sampling								
1	Palosapis	0.25	5	0.82	1.58	1.97	15.41	18.96
2	Red lauan	0.08	7	0.69	0.53	2.76	12.96	16.24
3	Almon	0.08	5	0.68	0.53	1.97	12.8	15.29
4	Mangga	0.25	4	0.43	1.58	1.57	8.03	11.18
5	Santol	0.33	5	0.37	2.11	1.97	7.02	11.09
6	Alibangbang	0.25	11	0.25	1.58	4.33	4.63	10.54
7	Hagonoi	0.83	10	0.01	5.26	3.94	0.23	9.43
8	Kasoy	0.25	4	0.32	1.58	1.57	6.05	9.2
9	Hinlaumo	0.33	9	0.14	2.11	3.54	2.53	8.18
10	Tibig	0.5	9	0.06	3.16	3.54	1.1	7.8
11	Eucalyptus	0.17	5	0.22	1.05	1.97	4.17	7.19
12	Cogon	0.58	7	0.01	3.68	2.76	0.24	6.68
13	Ipil-ipil	0.33	9	0.04	2.11	3.54	0.74	6.39
14	Binayuyu	0.5	6	0.04	3.16	2.36	0.8	6.32
15	Paguringon	0.25	7	0.03	1.58	2.76	0.59	4.92
16	Giant themeda	0.42	5	0.02	2.63	1.97	0.29	4.89
17	Malatungaw	0.42	5	0.01	2.63	1.97	0.17	4.77
18	Kandi-kandilaan	0.42	5	0.01	2.63	1.97	0.1	4.7
19	Hauili	0.33	5	0.02	2.11	1.97	0.41	4.48
20	Sablot	0.17	4	0.1	1.05	1.57	1.82	4.45
21	Bayabas	0.25	4	0.03	1.58	1.57	0.63	3.78
22	Takip asin	0.25	4	0.02	1.58	1.57	0.39	3.54
23	Binunga	0.17	5	0.03	1.05	1.97	0.49	3.51
24	Alahan	0.25	3	0.03	1.58	1.18	0.55	3.31
25	Ligas	0.25	4	0	1.58	1.57	0.08	3.23
26	Anabiong	0.17	4	0.03	1.05	1.57	0.49	3.12
27	Benguet pine	0.08	1	0.11	0.53	0.39	2.13	3.05
28	Matang hipon	0.25	3	0.01	1.58	1.18	0.25	3.01
29	Tagbak	0.25	3	0.01	1.58	1.18	0.11	2.87
30	Talahib	0.25	3	0	1.58	1.18	0.09	2.85
31	Sarat	0.25	3	0	1.58	1.18	0.04	2.8
32	Alagau	0.08	3	0.05	0.53	1.18	0.93	2.63
33	Malakmalak	0.08	2	0.06	0.53	0.79	1.19	2.51
34	Langka	0.17	2	0.03	1.05	0.79	0.64	2.48
35	Narra	0.17	2	0.03	1.05	0.79	0.57	2.41
36	Tuai	0.17	2	0.03	1.05	0.79	0.56	2.4
37	Banato	0.08	2	0.05	0.53	0.79	0.97	2.28
38	Tabgun	0.17	2	0.02	1.05	0.79	0.37	2.21
39	Gmelina	0.17	2	0.01	1.05	0.79	0.25	2.09
40	Matang araw	0.17	2	0.01	1.05	0.79	0.24	2.08

No	Common Name	F	A	D	%RF	%RA	%RD	IVI
41	Auri	0.08	2	0.04	0.53	0.79	0.73	2.04
42	Malasantol	0.08	1	0.06	0.53	0.39	1.07	1.99
43	Bagokbok	0.17	2	0.01	1.05	0.79	0.15	1.99
44	Lisak	0.08	2	0.03	0.53	0.79	0.62	1.94
45	Amorseco	0.17	2	0	1.05	0.79	0.04	1.88
46	Elephantopus	0.17	2	0	1.05	0.79	0.03	1.87
47	Kollo-kollot	0.17	2	0	1.05	0.79	0.01	1.85
48	Natal grass	0.17	2	0	1.05	0.79	0.01	1.85
49	Makahiya	0.17	2	0	1.05	0.79	0.01	1.85
50	Sambong	0.17	2	0	1.05	0.79	0.01	1.85
51	Gakakan	0.08	1	0.05	0.53	0.39	0.92	1.84
52	Binungang pula	0.08	2	0.02	0.53	0.79	0.36	1.67
53	Bangkal pula	0.08	1	0.04	0.53	0.39	0.71	1.63
54	Clethra	0.08	2	0.01	0.53	0.79	0.17	1.48
55	Lanete	0.08	2	0.01	0.53	0.79	0.15	1.46
56	Teak	0.08	1	0.03	0.53	0.39	0.53	1.45
57	Sampalok	0.08	1	0.03	0.53	0.39	0.48	1.4
58	Malabagang	0.08	2	0	0.53	0.79	0.07	1.39
59	Itangan	0.08	1	0.02	0.53	0.39	0.33	1.25
60	Pay-at	0.08	1	0.02	0.53	0.39	0.29	1.21
61	Alagasi	0.08	1	0.01	0.53	0.39	0.25	1.17
62	Anonggo	0.08	1	0.01	0.53	0.39	0.25	1.17
63	Antipolo	0.08	1	0.01	0.53	0.39	0.18	1.1
64	Batino	0.08	1	0.01	0.53	0.39	0.12	1.04
65	Biku-biku	0.08	1	0.01	0.53	0.39	0.12	1.04
66	Balanti	0.08	1	0.01	0.53	0.39	0.09	1.01
67	Kaliantan	0.08	1	0.01	0.53	0.39	0.09	1.01
68	Wendlandia	0.08	1	0.01	0.53	0.39	0.09	1.01
69	Agoho	0.08	1	0	0.53	0.39	0.07	0.99
70	Balaniu	0.08	1	0	0.53	0.39	0.07	0.99
71	Carabao grass	0.08	1	0	0.53	0.39	0.07	0.99
72	Elaeagnus	0.08	1	0	0.53	0.39	0.07	0.99
73	Hagimit	0.08	1	0	0.53	0.39	0.07	0.99
74	Tiesa	0.08	1	0	0.53	0.39	0.07	0.99
75	Bayag usa	0.08	1	0	0.53	0.39	0.05	0.97
76	Governor's plum	0.08	1	0	0.53	0.39	0.05	0.97
77	Kakaag	0.08	1	0	0.53	0.39	0.05	0.97
78	Langil	0.08	1	0	0.53	0.39	0.05	0.97
79	Coronitas	0.08	1	0	0.53	0.39	0.04	0.96
80	Guyabano	0.08	1	0	0.53	0.39	0.04	0.96
81	Lumanai	0.08	1	0	0.53	0.39	0.04	0.96
82	Mamalis	0.08	1	0	0.53	0.39	0.04	0.96
83	Tambo	0.08	1	0	0.53	0.39	0.04	0.96

No	Common Name	F	A	D	%RF	%RA	%RD	IVI
84	Villebrunea	0.08	1	0	0.53	0.39	0.04	0.96
85	Wild sunflower	0.08	1	0	0.53	0.39	0.04	0.96
86	Ayas-as	0.08	1	0	0.53	0.39	0.02	0.94
87	Buttonweed	0.08	1	0	0.53	0.39	0.02	0.94
88	Kutcharitas	0.08	1	0	0.53	0.39	0.02	0.94
89	Mussaenda	0.08	1	0	0.53	0.39	0.02	0.94
90	Takling baka	0.08	1	0	0.53	0.39	0.02	0.94
91	Blue fern	0.08	1	0	0.53	0.39	0.01	0.93
92	Mutha	0.08	1	0	0.53	0.39	0.01	0.93
93	Wild strawberry	0.08	1	0	0.53	0.39	0.01	0.93
94	Malabatatong	0.08	1	0	0.53	0.39	0.01	0.93
95	Ophiorrhiza	0.08	1	0	0.53	0.39	0.01	0.93
96	Pagsahingin	0.08	1	0	0.53	0.39	0.01	0.93
97	Pandakaki	0.08	1	0	0.53	0.39	0.01	0.93
98	Dilang butiki	0.08	1	0	0.53	0.39	0	0.92
Dry Season Sampling								
1	Palosapis	0.25	5	0.83	1.65	2.1	15.24	18.99
2	Red lauan	0.08	8	0.7	0.55	3.36	12.94	16.85
3	Almon	0.08	5	0.69	0.55	2.1	12.62	15.27
4	Santol	0.33	5	0.39	2.2	2.1	7.13	11.43
5	Mangga	0.25	4	0.43	1.65	1.68	7.97	11.3
6	Alibangbang	0.25	11	0.26	1.65	4.62	4.74	11.01
7	Kasoy	0.17	3	0.32	1.1	1.26	5.92	8.28
8	Hinlaumo	0.33	7	0.13	2.2	2.94	2.46	7.6
9	Eucalyptus	0.17	5	0.23	1.1	2.1	4.19	7.39
10	Hagonoi	0.58	7	0	3.85	2.94	0.08	6.86
11	Tibig	0.42	7	0.06	2.75	2.94	1.06	6.75
12	Binayuyu	0.5	6	0.05	3.3	2.52	0.86	6.67
13	Cogon	0.5	6	0	3.3	2.52	0.08	5.9
14	Paguringon	0.25	7	0.03	1.65	2.94	0.59	5.18
15	Giant themeda	0.42	5	0.01	2.75	2.1	0.27	5.11
16	Bayabas	0.33	5	0.04	2.2	2.1	0.65	4.95
17	Kandi-kandilaan	0.42	5	0	2.75	2.1	0.07	4.92
18	Ipil-ipil	0.25	5	0.05	1.65	2.1	0.87	4.62
19	Takip asin	0.25	5	0.03	1.65	2.1	0.59	4.34
20	Malatungaw	0.33	4	0	2.2	1.68	0.08	3.96
21	Kollo-kollot	0.33	4	0	2.2	1.68	0.01	3.89
22	Sablot	0.17	3	0.08	1.1	1.26	1.42	3.77
23	Hauili	0.25	4	0.02	1.65	1.68	0.35	3.68
24	Alahan	0.25	3	0.03	1.65	1.26	0.53	3.44
25	Anabiong	0.17	4	0.03	1.1	1.68	0.61	3.39
26	Matang hipon	0.25	3	0.01	1.65	1.26	0.24	3.15
27	Bagokbok	0.25	3	0.01	1.65	1.26	0.16	3.07

No	Common Name	F	A	D	%RF	%RA	%RD	IVI
28	Benguet pine	0.08	1	0.11	0.55	0.42	2.09	3.06
29	Coronitas	0.25	3	0	1.65	1.26	0.05	2.96
30	Payang-payang	0.25	3	0	1.65	1.26	0.02	2.93
31	Binunga	0.17	3	0.03	1.1	1.26	0.57	2.93
32	Suob kabayo	0.25	3	0	1.65	1.26	0.01	2.92
33	Banato	0.08	2	0.08	0.55	0.84	1.48	2.87
34	Alagau	0.08	3	0.05	0.55	1.26	0.93	2.74
35	Malakmalak	0.08	2	0.07	0.55	0.84	1.25	2.64
36	Langka	0.17	2	0.04	1.1	0.84	0.66	2.6
37	Tuai	0.17	2	0.03	1.1	0.84	0.61	2.55
38	Tabgun	0.17	2	0.02	1.1	0.84	0.36	2.3
39	Matang araw	0.17	2	0.01	1.1	0.84	0.27	2.21
40	Malasantol	0.08	1	0.07	0.55	0.42	1.22	2.19
41	Gmelina	0.17	2	0.01	1.1	0.84	0.24	2.18
42	Auri	0.08	2	0.04	0.55	0.84	0.77	2.16
43	Lisak	0.08	2	0.04	0.55	0.84	0.67	2.06
44	Talahib	0.17	2	0	1.1	0.84	0.06	2
45	Sambong	0.17	2	0	1.1	0.84	0.05	1.99
46	Ligas	0.17	2	0	1.1	0.84	0.04	1.98
47	Amorseco	0.17	2	0	1.1	0.84	0.03	1.97
48	Takling baka	0.17	2	0	1.1	0.84	0.01	1.95
49	Bulak manok	0.17	2	0	1.1	0.84	0.01	1.95
50	Makahiya	0.17	2	0	1.1	0.84	0.01	1.95
51	Sarat	0.17	2	0	1.1	0.84	0.01	1.95
52	Redflower Ragweed	0.17	2	0	1.1	0.84	0	1.94
53	Gakakan	0.08	1	0.05	0.55	0.42	0.9	1.87
54	Bangkal pula	0.08	1	0.05	0.55	0.42	0.83	1.8
55	Binungang pula	0.08	2	0.02	0.55	0.84	0.35	1.74
56	Lanete	0.08	2	0.01	0.55	0.84	0.21	1.6
57	Clethra	0.08	2	0.01	0.55	0.84	0.17	1.56
58	Narra	0.08	1	0.03	0.55	0.42	0.58	1.55
59	Teak	0.08	1	0.03	0.55	0.42	0.52	1.49
60	Malabagang	0.08	2	0	0.55	0.84	0.07	1.46
61	Sampalok	0.08	1	0.03	0.55	0.42	0.47	1.44
62	Itangan	0.08	1	0.02	0.55	0.42	0.42	1.39
63	Alagasi	0.08	1	0.02	0.55	0.42	0.28	1.25
64	Pay-at	0.08	1	0.02	0.55	0.42	0.28	1.25
65	Anonggo	0.08	1	0.01	0.55	0.42	0.24	1.21
66	Antipolo	0.08	1	0.01	0.55	0.42	0.21	1.18
67	Biku-biku	0.08	1	0.01	0.55	0.42	0.14	1.11
68	Batino	0.08	1	0.01	0.55	0.42	0.12	1.09
69	Balanti	0.08	1	0.01	0.55	0.42	0.09	1.06
70	Wendlandia	0.08	1	0.01	0.55	0.42	0.09	1.06

No	Common Name	F	A	D	%RF	%RA	%RD	IVI
71	Agoho	0.08	1	0	0.55	0.42	0.07	1.04
72	Balani	0.08	1	0	0.55	0.42	0.07	1.04
73	Carabao grass	0.08	1	0	0.55	0.42	0.07	1.04
74	Elaeagnus	0.08	1	0	0.55	0.42	0.07	1.04
75	Hagimit	0.08	1	0	0.55	0.42	0.07	1.04
76	Tiesa	0.08	1	0	0.55	0.42	0.07	1.04
77	Villebrunea	0.08	1	0	0.55	0.42	0.07	1.04
78	Aratiles	0.08	1	0	0.55	0.42	0.05	1.02
79	Governor's plum	0.08	1	0	0.55	0.42	0.05	1.02
80	Guyabano	0.08	1	0	0.55	0.42	0.05	1.02
81	Langil	0.08	1	0	0.55	0.42	0.05	1.02
82	Mamalis	0.08	1	0	0.55	0.42	0.04	1.01
83	Ayas-as	0.08	1	0	0.55	0.42	0.02	0.99
84	Blue fern	0.08	1	0	0.55	0.42	0.01	0.98
85	Lumanai	0.08	1	0	0.55	0.42	0.01	0.98
86	Tigbi	0.08	1	0	0.55	0.42	0.01	0.98
87	Wild strawberry	0.08	1	0	0.55	0.42	0.01	0.98
88	Buttonweed	0.08	1	0	0.55	0.42	0.01	0.98
89	Dilang butiki	0.08	1	0	0.55	0.42	0.01	0.98
90	Lesser roundweed	0.08	1	0	0.55	0.42	0.01	0.98
91	Mussaenda	0.08	1	0	0.55	0.42	0.01	0.98
92	Ophiorrhiza	0.08	1	0	0.55	0.42	0.01	0.98
93	Tagbak	0.08	1	0	0.55	0.42	0.01	0.98
94	Elephantopus	0.08	1	0	0.55	0.42	0	0.97

Annex A Table 3. Summary list of wild fauna species their occurrence, distribution, endemism and conservation status.

Common Name	Scientific Name	Family Name	Group	Conservation Status		Distribution Status	Presence During the Survey Period	
				DAO 2019-09	IUCN		Rainy Season	Dry Season
Amethyst Brown Dove*	<i>Phapitreron amethystina</i>	Columbidae	Bird	CR	LC	Endemic	/	x
Asian Emerald Dove*	<i>Chalcopaps indica</i>	Columbidae	Bird	N/A	LC	Resident	/	x
Barred Rail	<i>Gallirallus torquatus</i>	Rallidae	Bird	N/A	LC	Resident	/	x
Barn Swallow	<i>Hirundo rustica</i>	Hirundinidae	Bird	N/A	LC	Migrant	x	/
Black Crowned Night Heron	<i>Nycticorax nycticorax</i>	Ardeidae	Bird	N/A	LC	Migrant	/	/
Black Naped Oriole	<i>Oriolus chinensis</i>	Oriolidae	Bird	N/A	LC	Resident	/	/
Blue Throated Bee Eater	<i>Merops viridis</i>	Meropidae	Bird	N/A	LC	Resident	/	/
Blue-tailed Bee-eater	<i>Merops philippinus</i>	Meropidae	Bird	N/A	LC	Resident	/	/
Brahminy Kite	<i>Haliastur inbus</i>	Accipitridae	Bird	N/A	LC	Resident	/	x
Brown Shrike	<i>Lanius cristatus</i>	Laniidae	Bird	N/A	LC	Migrant	x	/
Bright Capped Cisticola	<i>Cisticola exilis</i>	Cisticolidae	Bird	N/A	LC	Resident	/	/
Cattle Egret	<i>Bubulcus ibis</i>	Ardeidae	Bird	N/A	LC	Resident w/ migrant population	x	/
Chestnut Munia	<i>Lonchura atricapilla</i>	Estrildidae	Bird	N/A	LC	Resident	/	/
Cinnamon Bittern	<i>Ixobrychus cinnamomeus</i>	Ardeidae	Bird	N/A	LC	Resident	/	x
Common King Fisher*	<i>Alcedo atthis</i>	Alcedinidae	Bird	N/A	LC	Migrant	/	/
Black-shouldered Kite	<i>Elanus caeruleus</i>	Accipitridae	Bird	N/A	LC	Resident	x	/
Crested Myna	<i>Acridotheres cristatellus</i>	Sturnidae	Bird	N/A	LC	Resident	/	/
Eurasian Tree Sparrow	<i>Passer montanus</i>	Passeridae	Bird	N/A	LC	Resident	/	/
Glossy Swiftlet	<i>Collocalia esculenta</i>	Apodidae	Bird	N/A	LC	Resident	/	/
Guaiahero	<i>Bolbopsittacus lunulatus</i>	Psittacidae	Bird	OWS	LC	Endemic	x	/
Indigo banded King Fisher	<i>Ceyx cyanopectus</i>	Alcedinidae	Bird	CR	LC	Endemic	x	/
Little Ringed Plover*	<i>Charadrius dubius</i>	Charadriidae	Bird	N/A	LC	Resident with migrant population	/	x
Little Egret	<i>Egretta garzetta</i>	Ardeidae	Bird	N/A	LC	Resident	x	/

Common Name	Scientific Name	Family Name	Group	Conservation Status		Distribution Status	Presence During the Survey Period	
				DAO 2019-09	IUCN		Rainy Season	Dry Season
Little Pied Flycatcher	<i>Ficedula westermanni</i>	Muscicapidae	Bird	N/A	LC	Resident	/	x
Long Tailed Shrike	<i>Lanius schach</i>	Laniidae	Bird	N/A	LC	Resident	/	/
Olive-backed Sunbird	<i>Cinnyris jugularis</i>	Nectariniidae	Bird	N/A	LC	Resident	/	/
Pacific Swallow	<i>Hirundo tahita</i>	Hirundinidae	Bird	N/A	LC	Resident	x	/
Paddyfield Pipit	<i>Anthus rufulus</i>	Motacillidae	Bird	N/A	LC	Resident	/	/
Pied Harrier	<i>Circus melanoleucos</i>	Accipitridae	Bird	N/A	LC	Migrant	x	/
Philippine Bulbul	<i>Hypsipetes philippinus</i>	Pycnonotidae	Bird	N/A	LC	Endemic	/	/
Philippine Coucal	<i>Centropus viridis</i>	Cuculidae	Bird	N/A	LC	Endemic	/	/
Philippine Duck*	<i>Anas luzonica</i>	Anatidae	Bird	VU	VU	Endemic	/	x
Philippine Pied-Fantail	<i>Rhipidura nigritorquis</i>	Muscicapidae	Bird	N/A	LC	Endemic	/	/
Pied Bushchat	<i>Saxicola caprata</i>	Muscicapidae	Bird	N/A	LC	Resident	/	/
Pied Thriller	<i>Lalage nigra</i>	Campephagidae	Bird	N/A	LC	Resident	/	x
Plain Bush Hen*	<i>Amauronis olivaceus</i>	Rallidae	Bird	N/A	LC	Endemic	/	x
Pygmy Flower Pecker	<i>Dicaeum pygmaeum</i>	Dicaeidae	Bird	N/A	LC	Endemic	/	/
Pygmy Swiftlet	<i>Collocalia troglodytes</i>	Apodidae	Bird	N/A	LC	Endemic	/	/
Red Jungle Fowl*	<i>Gallus gallus</i>	Phasianidae	Bird	N/A	LC	Resident	/	x
Red Turtle-Dove	<i>Streptopelia tranquebarica</i>	Columbidae	Bird	N/A	LC	Resident	/	/
Red-keeled Flowerpecker*	<i>Dicaeum australe</i>	Dicaeidae	Bird	N/A	LC	Endemic	/	/
	<i>Phaenicophaeus</i>							
Red Crested Malkoha	<i>superciliosus</i>	Cuculidae	Bird	OWS	LC	Endemic	x	/
Richard's Pipit*	<i>Anthus richardi</i>	Motacillidae	Bird	N/A	LC	Resident	/	/
Scaly-breasted Munia	<i>Lonchura punctulata</i>	Estrildidae	Bird	N/A	LC	Resident	/	/
Scale Feathered Malkoha	<i>Lepidogrammus cumingi</i>	Cuculidae	Bird	OWS	LC	Endemic	x	/
Slender-Billed Crow	<i>Corvus macrorhynchos</i>	Corvidae	Bird	N/A	LC	Resident	/	/
Small Botton Quail**	<i>Turnix sylvatica</i>	Turnicidae	Bird	N/A	LC	Resident	/	x
Spotted Dove	<i>Spilopelia chinensis</i>	Columbidae	Bird	N/A	LC	Resident	/	/
Spotted Botton Quail	<i>Butorides striatus</i>	Turnicidae	Bird	N/A	LC	Resident	/	/
Straited Grass Bird	<i>Megalurus palustris</i>	Locustellidae	Bird	N/A	LC	Resident	/	/
Tawny Grass Bird	<i>Megalurus timoriensis</i>	Locustellidae	Bird	N/A	LC	Resident	/	/

Common Name	Scientific Name	Family Name	Group	Conservation Status		Distribution Status	Presence During the Survey Period	
				DAO 2019-09	IUCN		Rainy Season	Dry Season
White Eared Brown Dove	<i>Phapitreron leucotis</i>	Columbidae	Bird	N/A	LC	Endemic	/	/
White Throated King Fisher	<i>Halcyon smyrnensis</i>	Alcedinidae	Bird	N/A	LC	Resident	/	/
White belied Munia	<i>Lonchura leucogastra</i>	Estrildidae	Bird	N/A	LC	Resident	x	/
White-Breasted Woodswallow	<i>Artamus leucocorynchus</i>	Motacillidae	Bird	N/A	LC	Resident	/	/
White-collared king fisher	<i>Halcyon chloris</i>	Alcedinidae	Bird	N/A	LC	Resident	/	/
Yellow Vented Bulbul	<i>Pycnonotus goiavier</i>	Pycnonotidae	Bird	N/A	LC	Resident	/	/
Yellow wagtail *	<i>Motacilla flava</i>	Motacillidae	Bird	N/A	LC	Migrant	/	/
Zebra Dove	<i>Geopelia striata</i>	Columbidae	Bird	N/A	LC	Resident	/	/
Zitting cisticola	<i>Cisticola juncidis</i>	Cisticolidae	Bird	N/A	LC	Resident	/	/
Yellow Bittern	<i>Ixobrychus sinensis</i>	Ardeidae	Bird	N/A	LC	Resident	/	/
Marine Toad*	<i>Bufo marinus</i>	Bufonidae	Amphibian	N/A	LC	Introduced	/	/
Philippine Mabuya	<i>Eutropis multicolorata</i>	Scincidae	Reptile	N/A	NE	Endemic	/	/
Gecko/Tokay	<i>Gecko gecko</i>	Gekkonidae	Reptile	OTS	LC	Native	/	/
Asian Narrow Mouth Frog*	<i>Kalaulo picta</i>	Microhylidae	Amphibian	N/A	LC	Endemic	/	x
Polynesian rat	<i>Rattus exullans</i>	Muridae	Mammal	N/A	LC	Native	x	/
Philippine Long-Tailed Macaque**	<i>Macaca fascicularis philippensis</i>	Cercopithecidae	Mammal	N/A	LC	Endemic	Reported	
Common Palm Civet**	<i>Paradoxurus hermaphroditus</i>	Viverridae	Mammal	N/A	LC	Native	Reported	
Lesser musky fruit bat*	<i>Ptenochirus minor</i>	Pteropodidae	Mammal	N/A	LC	Endemic	Reported	
Python**	<i>Python reticulatus</i>	Pythonidae	Reptile	OTS	LC	Endemic	Reported	
Common Philippine field rat **	<i>Rattus rattus</i>	Muridae	Mammal	N/A	NE	Endemic	Reported	
Philippine Deer**	<i>Rusa Sp.</i>	Cervidae	Mammal	EN	VU	Endemic	Reported	
Wild Boar**	<i>Sus philippensis</i>	Suidae	Mammal	VU	VU	Endemic	Reported	
Monitor Lizard**	<i>Varanus salvator</i>	Varanidae	Reptile	N/A	LC	Native	Reported	x

Legend: * Species observed outside the sampled sites, ** Reported species

CR- Critically Endangered, EN-Endangered, VU- Vulnerable, LC-Least Concern, OTS-Other Threatened Species, NE- Not Evaluated

/ Observed during the survey period, X not observed during the survey period

ANNEX A Table 4. Listed species during the survey of nocturnal migrant birds at Dalton Pass, Nueva Vizcaya by Round, P. D. & Allen, D. (2010).

Common Name	Scientific Name
Arctic Warbler	<i>Phylloscopus borealis</i>
Ashy Ground Thrush	<i>Zoothera cinerea</i>
Asian Glossy Starling	<i>Aplonis panayensis</i>
Australasian Bushlark	<i>Mirafrja javanica</i>
Baillon's Crake	<i>Porzana pusilla</i>
Barred Rail	<i>Gallirallus torquatus</i>
Bicolored Flowerpecker	<i>Dicaeum bicolor</i>
Black-chinned Fruit Dove	<i>Ptilinopus leclancheri</i>
Blue Breasted Quail	<i>Coturnix chinensis</i>
Blue-headed Fantail	<i>Rhipidura cyaniceps</i>
Brown Shrike	<i>Lanius cristatus</i>
Brown-banded Rail	<i>Lewinia mirifica</i>
Buff-banded Rail	<i>Gallirallus philippensis</i>
Buzzing Flowerpecker	<i>Dicaeum hypoleucum</i>
Chestnut Munia	<i>Lonchura malacca</i>
Chestnut-cheeked Starling	<i>Agropsar philippensis</i>
Chestnut-faced Babbler	<i>Stachyris whiteheadi</i>
Citrine Canary Flycatcher	<i>Culicicapa helianthea</i>
Common King Fisher	<i>Alcedo atthis</i>
Common Moorhen	<i>Gallinula chloropus</i>
Eastern cattle Egret	<i>Bubulcus coromandus</i>
Elegant Tit	<i>Parus elegans</i>
Emerald Dove	<i>Chacopaps indica</i>
Green-backed Whistler	<i>Pachycephala albiventris</i>
Hooded Pitta	<i>Pitta Sordida</i>
Japanese Night Heron	<i>Gorsachius goisagi</i>
Lanceolated Warbler	<i>Locustella lanceolata</i>
Lesser Coucal	<i>Centropus bengalenses</i>
Long-tailed Shrike	<i>Lanius schach</i>
Luzon Bush Warbler	<i>Cettia seebohmi</i>
Metallic-winged Sunbird	<i>Aethopyga pulcherrima</i>
Mountain Tailorbird	<i>Phyllergates cucullatus</i>
Mountain White-eye	<i>Zosterops montanus</i>
Narcissus Flycatcher	<i>Ficedula narcissina</i>
Olive-backed Flowerpecker	<i>Prionochilus olivaceus</i>
Olive-backed Sunbird	<i>Cinnyris jugularis</i>
Oriental Reed Warbler	<i>Acrocephalus orientalis</i>
Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>
Philippine Bulbul	<i>Ixos philippinus</i>
Philippine Cuckoo Dove	<i>Macropygia tenuirostris</i>

Common Name	Scientific Name
Philippine Drongo Cuckoo	<i>Surniculus velutinus</i>
Philippine Green Pigeon	<i>Treron axillaris</i>
Philippine Nightjar	<i>Caprimulgus manillensis</i>
Philippine Pygmy Woodpecker	<i>Dendrocopos maculatus</i>
Plain Bush Hen	<i>Amaurornis olivacea</i>
Plaintive Cuckoo	<i>Cacomantis merulinus</i>
Purple-throated Sunbird	<i>Leptocoma sperata</i>
Pygmy Flowerpecker	<i>Dicaeum pygmaeum</i>
Red-bellied Pitta	<i>Pitta erythrogaster</i>
Red-keeled Flowerpecker	<i>Dicaeum australe</i>
Ruddy breasted Crake	<i>Porzana fusca</i>
Rusty-breasted Cuckoo	<i>Cacomantis sepulcralis</i>
Scaly-breasted Munia	<i>Lonchura punctulata</i>
Siberian Rubythroat	<i>Luscinia calliope</i>
Slaty-breasted Rail	<i>Gallirallus striatus</i>
Slaty-legged Crake	<i>Rallina eurizonoides</i>
Spotless Crake	<i>Porzana tabuensis</i>
Striated Swallow	<i>Cecropis striolata</i>
Spotted Buttonquail	<i>Turnix ocellata</i>
Swinhoe's Snipe	<i>Gallinago megala</i>
Tawny Grassbird	<i>Megalurus timoriensis</i>
Watercock	<i>Gallicrex cinerea</i>
White's Thrush	<i>Zoothera aurea</i>
White browed crake	<i>Porzana cinerea</i>
White-bellied Munia	<i>Lonchura leucogastra</i>
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>
White-browed Crake	<i>Porzana cinerea</i>
White-browed Shortwing	<i>Brachypteryx montana</i>
White-eared Brown Dove	<i>Phapitreron leucotis</i>
White's Thrush	<i>Zoothera aurea</i>
Yellowish White-eye	<i>Zosterops nigrorum</i>
Yellow-vented Bulbul	<i>Pycnonotus goiavier</i>
Zebra Dove	<i>Geopelia striata</i>

Annex A Table 5. Fauna species observed within the sampled stations and Computed Relative Frequency for the Period of wet season survey

Common Name	Scientific Name	S01	S02	S03	S04	S05	S06	S07	S08	S09	S010	S011	S12	Total	Rel. Abundance	Rel. freq.(%)
Barred Rail	<i>Gallirallus torquatus</i>			1		1								6	2.5	2.410
Black Naped Oriole	<i>Oriolus chinensis</i>	1		1										2	0.83	2.410
Black Crowned Night Heron	<i>Nycticorax nycticorax</i>						1							1	0.42	1.205
Blue Throated Bee Eater	<i>Merops viridis</i>	5			2		4							11	4.58	3.614
Blue-tailed Bee-eater	<i>Merops philippinus</i>			3	2	1								6	2.50	3.614
Brahminy Kite	<i>Haliastur inbus</i>		1											1	0.42	1.205
Bright Capped Cisticola	<i>Cisticola exilis</i>							2			1			3	1.25	2.410
Crested Myna	<i>Acridotheres cristatellus</i>					1								1	0.42	1.205
Chestnut Munia	<i>Lonchura atricapilla</i>					4		5			18	3	36	66	27.50	6.024
Cinnamon Bittern	<i>Ixobrychus cinnamomeus</i>		1											1	0.42	1.205
Eurasian Tree Sparrow	<i>Passer montanus</i>		2									4		6	2.50	2.410
Glossy Swiftlet	<i>Collocalia esculenta</i>									2			1	3	1.25	2.410
Little Pied Flycatcher	<i>Ficedula westermanni</i>				1									1	0.42	1.205
Long Tailed Shrike	<i>Lanius schach</i>			2										2	0.83	1.205
Olive-backed Sunbird	<i>Cinnyris jugularis</i>						1							1	0.42	1.205
Paddyfield Pipit	<i>Anthus rufulus</i>	1		1										2	0.83	2.410
Philippine Bulbul	<i>Hypsipetes philippinus</i>				1	2		2	4	5	3			17	7.08	7.229
Philippine Coucal	<i>Centropus viridis</i>		1	1				2	1				1	6	2.50	6.024
Philippine Pied-Fantail	<i>Rhipidura nigritorquis</i>			1										1	0.42	1.205
Pied Bushchat	<i>Saxicola caprata</i>		1	1				1		1				4	1.67	4.819
Pied Thriller	<i>Lalage nigra</i>								1					1	0.42	1.205
Pygmy Flower Pecker	<i>Dicaeum pygmaeum</i>		3				2				2	5		12	5.00	4.819
Pygmy Swiftlet	<i>Collocalia troglodytes</i>									7				7	2.92	1.205
Red Turtle-Dove	<i>Streptopelia tranquebarica</i>				1	2	1							4	1.67	3.614
Scaly-breasted Munia	<i>Lonchura punctulata</i>												24	24	10.00	1.205
Slender-Billed Crow	<i>Corvus macrorhynchos</i>			2				1			2			5	2.08	3.614
Spotted Dove	<i>Spilopelia chinensis</i>							1						1	0.42	1.205
Straited Grass Bird	<i>Megalurus palustris</i>	1	2											3	1.25	2.410

Common Name	Scientific Name	S01	S02	S03	S04	S05	S06	S07	S08	S09	S010	S011	S12	Total	Rel. Abundance	Rel. freq.(%)
Tawny Grass Bird	<i>Megalurus timoriensis</i>		1	3		1			2					7	2.92	4.819
White Throated King Fisher	<i>Halcyon smyrnensis</i>					1	1							2	0.83	2.410
White-collared king fisher	<i>Halcyon chloris</i>				1									1	0.42	1.205
White Eared Brown Dove	<i>Phapitreron leucotis</i>								1					1	0.42	1.205
White-Breasted Woodswallow	<i>Artamus leucocorynchus</i>						5							5	2.08	1.205
Yellow Vented Bulbul	<i>Pycnonotus goiavier</i>		5	3	3	2	2	1			2	4	3	25	10.42	10.843
Zebra Dove	<i>Geopelia striata</i>				1									1	0.42	1.205
Zitting cisticola	<i>Cisticola juncidis</i>												2	2	0.83	1.205
Yellow Bittern	<i>Ixobrychus sinensis</i>			2										2	0.83	1.205
Abundance		8	17	21	12	15	17	15	9	15	28	16	67	240	100.00	100.000
Species richness		4	9	12	8	9	8	7	6	3	6	4	6			

Annex A Table 6. Fauna species observed within the sampled stations and Computed Relative Frequency for the Period of dry season survey

Common Name	Scientific Name	S01	S02	S03	S04	S05	S06	S07	S08	S09	S010	S011	S12	Total	Rel. Abundance (%)	Rel. frequency (%)
Barn Swallow	<i>Hirundo rustica</i>				2		2							4	1.8	2.3
Blue Throated Bee Eater	<i>Merops viridis</i>					1								1	0.4	1.2
Blue-tailed Bee-eater	<i>Merops philippinus</i>				3		2							5	2.2	2.3
Brown Shrike	<i>Lanius cristatus</i>						1							1	0.4	1.2
Bright Capped Cisticola	<i>Cisticola exilis</i>						2							2	0.9	1.2
Cattle Egret	<i>Bubulcus ibis</i>			2			2							4	1.8	2.3
Chestnut Munia	<i>Lonchura atricapilla</i>	6				5							2	13	5.8	3.5
Black-shouldered Kite	<i>Elanus caeruleus</i>												1	1	0.4	1.2
Crested Myna	<i>Acridotheres cristatellus</i>	4												4	1.8	1.2
Eurasian Tree Sparrow	<i>Passer montanus</i>	9		5		3	15	4						36	16.0	5.8
Glossy Swiftlet	<i>Collocalia esculenta</i>				3			2						5	2.2	2.3
Guaiabero	<i>Bolbopsittacus lunulatus</i>								2					2	0.9	1.2
Little Egret	<i>Egretta garzetta</i>					4		3						7	3.1	2.3
Long Tailed Shrike	<i>Lanius schach</i>	1	1		1	2	1	1						7	3.1	7.0
Olive-backed Sunbird	<i>Cinnyris jugularis</i>							2						2	0.9	1.2
Pacific Swallow	<i>Hirundo tahita</i>						5	2						7	3.1	2.3
Paddyfield Pipit	<i>Anthus rufulus</i>	1												1	0.4	1.2
Philippine Bulbul	<i>Hypsipetes philippinus</i>							4		5				9	4.0	2.3
Philippine Pied-Fantail	<i>Rhipidura nigritorquis</i>		1		1					2				4	1.8	3.5
Pied Bushchat	<i>Saxicola caprata</i>	2		2	1	1	1				1			8	3.6	7.0
Pygmy Flower Pecker	<i>Dicaeum pygmaeum</i>				6	2	5						3	16	7.1	4.7
Pygmy Swiftlet	<i>Collocalia troglodytes</i>							5			8			13	5.8	2.3
Red Turtle-Dove	<i>Streptopelia tranquebarica</i>			1										1	0.4	1.2
Red Crested Malkoha	<i>Phaenicophaeus superciliosus</i>									1				1	0.4	1.2
Richard's Pipit	<i>Anthus richardi</i>			1										1	0.4	1.2
Scaly-breasted Munia	<i>Lonchura punctulata</i>						7							7	3.1	1.2
Slender-Billed Crow	<i>Corvus macrorhynchos</i>								3			2	5	10	4.4	3.5
Spotted Dove	<i>Spilopelia chinensis</i>	1	1	3										5	2.2	3.5

Common Name	Scientific Name	S01	S02	S03	S04	S05	S06	S07	S08	S09	S010	S011	S12	Total	Rel. Abundance (%)	Rel. frequency (%)
Spotted Botton Quail	<i>Butorides striatus</i>		1											1	0.4	1.2
Straited Grass Bird	<i>Megalurus palustris</i>			3		1			1					5	2.2	3.5
Tawny Grass Bird	<i>Megalurus timoriensis</i>		2		1		2	1						6	2.7	4.7
White Eared Brown Dove	<i>Phapitreron leucotis</i>												1	1	0.4	1.2
White Throated King Fisher	<i>Halcyon smyrnensis</i>				1									1	0.4	1.2
White belied Munia	<i>Lonchura leucogastra</i>											7		7	3.1	1.2
White-Breasted Woodswallow	<i>Artamus leucocorynchus</i>			2					1		3			6	2.7	3.5
White-collared king fisher	<i>Halcyon chloris</i>				1									1	0.4	1.2
Yellow Vented Bulbul	<i>Pycnonotus goiavier</i>				3	5					3	1	2	14	6.2	5.8
Yellow wagtail	<i>Motacilla flava</i>			1										1	0.4	1.2
Zebra Dove	<i>Geopelia striata</i>		2	1										3	1.3	2.3
Zitting cisticola	<i>Cisticola juncidis</i>												1	1	0.4	1.2
Yellow Bittern	<i>Ixobrychus sinensis</i>							1						1	0.4	1.2
Abundance		24	8	21	23	24	45	25	7	8	15	10	15	225	100.00	100.0
Species richness		7	6	10	11	9	12	10	4	3	4	3	7	41		

ANNEX B

(Photo Documentation)

The survey team during the wet season survey



The survey team during the dry season survey



Habitat and landscape within the project site

Grassland



Reforestation/Plantation



Agricultural



Riparian



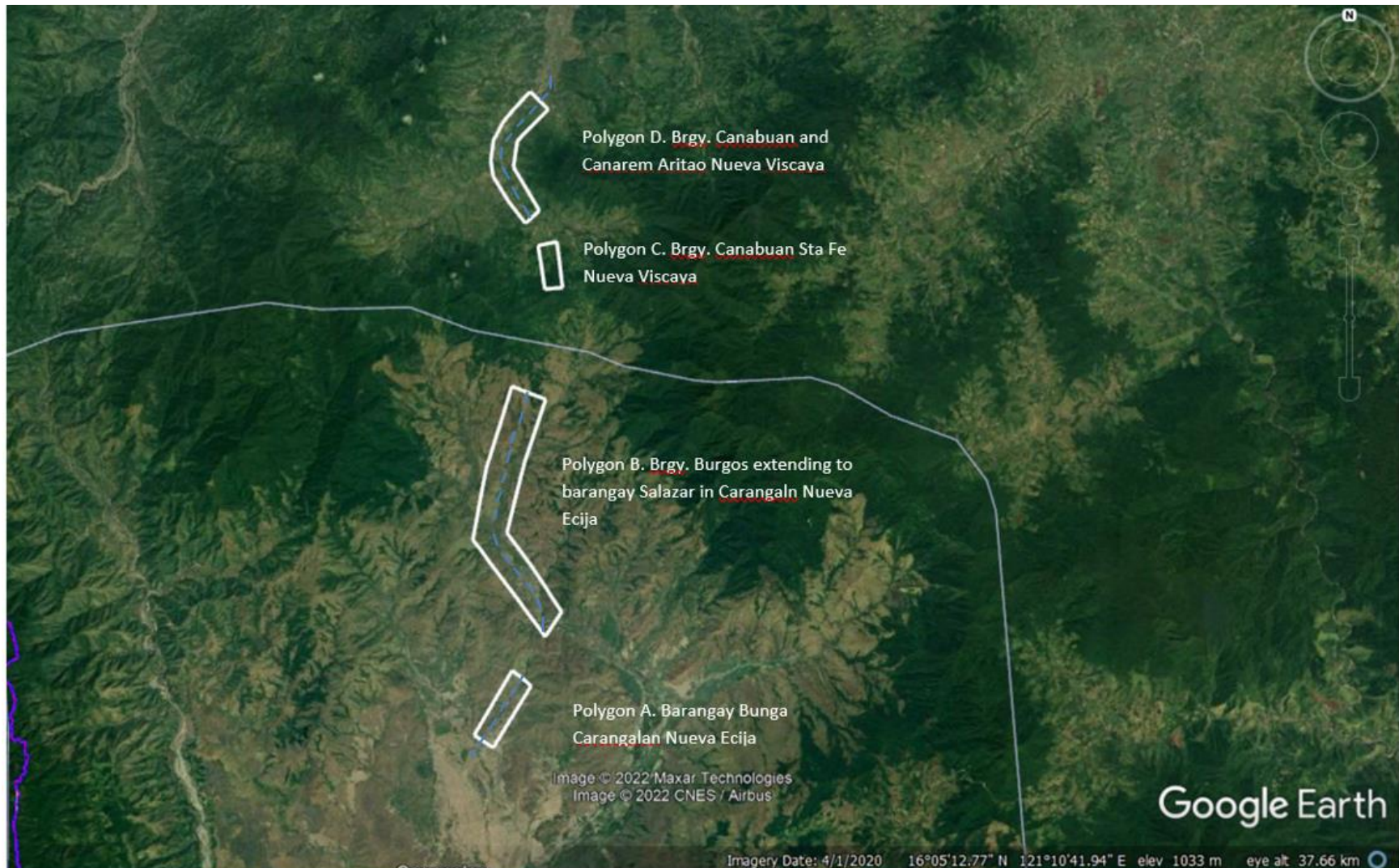
Forest



Pine area



The location of study area following the proposed road and alignment starting from barangay Bunga in Caranglan to Barangay Canarem in Aritao Nueva Viscaya. See next pages showing the current landcover/use and vegetation with reference to this map. Pictures were taken during the dry season sampling



1. Polygon A. Barangay Bunga Caranglan Nueva Ecija

Taken after the end of the bridge in barangay Bunga Caranglan leading to the upstream section of the proposed alignment in barangay Burgos and Salazar in Caranglan Nueva Ecija. Dominant land cover following the proposed alignment are cultivated areas (rainfed paddies) and grasslands (newly burned) as primary land cover on sloping areas. Dried paddy fields and burned grasslands were observed during the dry season.



2. Polygon B. Barangay Burgos extending to Barangay Salazar in Caranglan Nueva Ecija

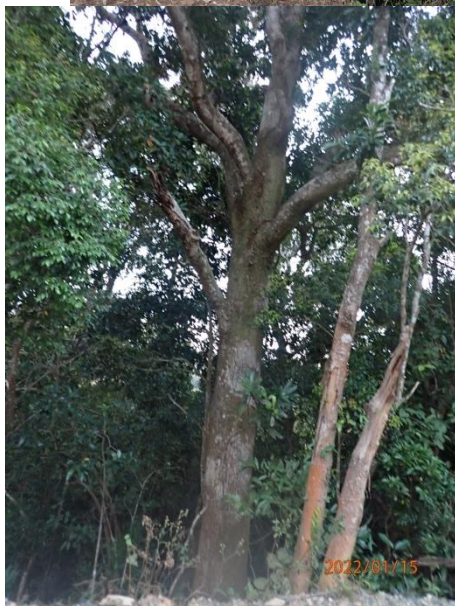
The photo shows the vegetation along channel adjacent to the concrete bridge (approximate connecting point of the proposed road) in brgy Burgos Caranglan Nueva Ecija. Also, photo showed the existing dirt road leading to barangay Salazar along with paddy fields as major land use in the area, grasslands (dominated by Giant Themeda grass) and patches of settlements are also observed along the access road. There are also some Mango trees and Gmelina trees with perennial plants.



Parcel of terraced paddy fields in Barangay Salazar in Caranglan. A vast tract of grassland as dominant land cover around the project alignment. Agricultural areas along valleys and grassland areas is prominent in adjacent areas especially on mountain slope.



Molave, Benguet pine, mayapis, palosais and red lauan are among the Philippine threatened species located along the dirt road in Barangay Salazar Carangalan. Mature stand of *Acacia auriculiformis* (along the access road going to Barangay Salazar proper.



3. Polygon C. Barangay Canabuan Sta. Fe Nueva Viscaya

Community structures serving as community prayer house/religious house in Sitio Cauco brgy Canabuan in Sta Fe Nueva Viscaya. Forest stand also in Canabuan Sta. Fe Nueva Viscaya.



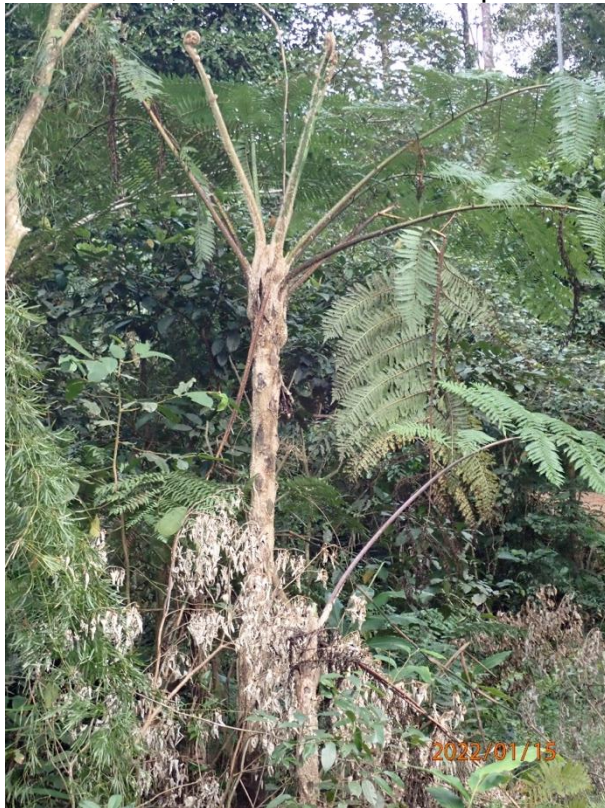
Among the remaining forested areas in Sta Fe Nueva Viscaya, notably encroachment of parcels of agricultural areas are already prevailing in the area along mountain slope include Sayote, cabbage, corn, beans, and other root crops.



A military patrol base within the timber land in Canabuan Sta Fe Nueva Viscaya



Among the significant trees belonging to threatened species are the Mayapis, Apitong, Red Lauan, and Giant Ferns are prominent within the forest stand in Canabuan Sta Fe.



Agricultural areas within the mountain slope in Canabuan Sta Fe



Agricultural areas in sloping areas and the barangay hall in Canabuan Sta Fe Nueva Viscaya.



4. Polygon D. Barangay Canabuan extending to Canarem in Aritao Nueva Viscaya

Agricultural land and shrubland along the proposed road in barangay Canabuan Aritao Nueva Viscaya.



Among the threatened plants observed along the alignment in Canabuan Aritao which include Narra and Giant Fern.



Bangkal pula tree located along the proposed road alignment in barangay Canarem Aritao near the bridge. Lower photo present portion of the shrubland along the proposed alignment, also in barangay Canarem.



Above photo show the grass land areas along with perennial crop near immediate the existing road in barangay Canarem. Lower photo is the end of the constructed road after the bridge in barangay Canarem.



Sampling process

Photo documentation by drone



Photo documentation by camera



Plot establishment



Tree diameter measurement



Understory sampling



Voucher collection and identification



Sampling process

Transect sampling



Mist netting



Cage Trapping



Processing and photo documentation of caught fauna



Photos of some flora species documented in the study area.

Bulak manok (*Ageratum conyzoides*)

Exotic



Payang-payang (*Flemingia strobilifera*)

Indigenous



Redflower Ragweed (*Crassocephalum crepidioides*) Suob kabayo (*Hyptis suaveolens*)

Exotic



Exotic



Lesser roundweed (*Hyptis brevipes*)

Exotic



Tigbi (*Coix lacryma-jobi*)

Indigenous



Photos of some flora species documented in the study area.

Palosapis (*Anisoptera thrurifera*)
Endemic (IUCN – VU)



Kasoy (*Anacardium occidentale*)
Exotic



Hinlaumo (*Mallotus mollissimus*)
Indigenous



Itangan (*Weinmannia luzoniensis*)
Endemic (IUCN – NT)



Dicranopteris linearis (others)
Indigenous



Takling baka (*Sida rhombifolia*)
Indigenous



Photos of some flora species documented in the study area.

Kaliantan (*Leea philippinensis*)
Indigenous



Ayas-as (*Setaria palmifolia*)
Indigenous



Ophorrhiza (*Ophiorrhiza oblongifolia*)
Endemic



Wild strawberry (*Rubus luzoniensis*)
Endemic



Clethra (*Clethra cansescens*)
Endemic



Weinmannia (*Weinmannia luzoniensis*)
Endemic (IUCN = NT)



Photos of some flora species documented in the study area.

Anonggo (*Turpinia ovalifolia*)
Indigenous



Malatungaw (*Melastoma malabathricum*)
Indigenous



Villebrunea (*Villebrunea trinervis*)
Indigenous



Almon (*Shorea almon*)
Indigenous (DAO = VU, IUCN = NT)



Red lauan (*Shorea negrosensis*)
Endemic (DAO = VU, IUCN = LC)



Palosapis (*Anisoptera thurifera*)
Endemic (IUCN = VU)



Photos of some flora species documented in the study area.

Blue fern (*Cyclopeltis crenata*)
Indigenous



Narra (*Pterocarpus indicus*)
Indigenous (DAO = VU, IUCN = EN)



Tabgun (*Ficus ruficaulis*)
Indigenous



Tibig (*Ficus nota*)
Indigenous (IUCN = LC)



Tuai (*Bischofia javanica*)
Indigenous (IUCN = LC)



Banato (*Mallotus philippensis*)
Indigenous (IUCN = LC)



Photos of some flora species documented in the study area.

Binunga (*Macaranga tanarius*)
Indigenous (IUCN = LC)



Takip asin (*Macaranga grandifolia*)
Endemic (IUCN = VU)



Hinlaumo (*Mallotus mollissimus*)
Indigenous (IUCN = LC)



Binungang pula (*Macaranga sinensis*)
Indigenous



Santol (*Sandoricum koetjape*)
Indigenous (IUCN = LC)



Malasantol (*Sandoricum vidalii* syn *S. koetjape*)
Indigenous (IUCN = LC)



Photos of some flora species documented in the study area.

Koronitas (*Lantana camara*)
Exotic



Alasiis (*Leucosyke capitellata*)
Indigenous (IUCN = LC)



Mussaenda (*Mussaenda anisophylla*)
Endemic



Paguringon (*Cratoxylum sumatranum*)
Endemic (IUCN = LC)



Bangkal pula (*Neonauclea reticulata*)
Indigenous



Lisak (*Neonauclea bartlingii*)
Endemic (IUCN = LC)



Photos of some flora species documented in the study area.

Kandi-kandilaan (*Stachytarpheta jamaicensis*)
Exotic (IUCN = LC)



Cogon (*Imperata cylindrica*)
Indigenous



Tagbak (*Alpinia elegans*)
Endemic (DAO = VU)



Anabiong (*Trema orientalis*)
Indigenous



Pagsahingin (*Canarium asperum*)
Indigenous (IUCN = LC)



Photos of some flora species documented in the study area.

Mamalis (*Pittosporum pentandrum*)
Indigenous



Lanete (*Wrightia pubescens*)
Indigenous (IUCN = LC)



Kucharitas (*Alternanthera philoxeroides*)
Exotic



Mutha (*Cyperus rotundus*)
Indigenous (IUCN = LC)



Governor's plum (*Flacourtia jangomas*)
Exotic



Photos of some flora species documented in the study area.

Wild sunflower (*Tithonia diversifolia*)
Exotic



Bayag usa (*Voacanga globosa*)
Endemic (IUCN = LC)



Binayuyu (*Antidesma ghaesembella*)
Indigenous (IUCN = LC)



Ligas (*Semecarpus cuneiformis*)
Indigenous



Biku-biku (*Bhesa paniculta*)
Indigenous (IUCN = LC)



Makahiya (*Mimosa pudica*)
Exotic (IUCN = LC)



Photos of some flora species documented in the study area.

Kollo-kollot (*Urena lobata*)
Indigenous (IUCN = LC)



Talahib (*Saccharum spontaneum*)
Indigenous (IUCN = LC)



Agoho (*Casuarina equisetifolia*)
Indigenous (IUCN = LC)



Amorseco (*Chrysopogon aciculatus*)
Indigenous



Gakakan (*Drypetes falcata*)
Endemic (DAO = OTS)



Elaeagnus (*Elaeagnus triflorus*)
Indigenous



Photos of some flora species documented in the study area.

Sarat (*Scleria scrobiculata*)
Indigenous



Balani (Cymbopogon tortilis)
Indigenous



Batino (*Alstonia macrophylla*)
Indigenous (IUCN = LC)



Alahan (*Guioa koelreuteria*)
Indigenous



Giant themeda (*Themeda gigantea*)
Indigenous (



Bagokbok (*Themeda triandra*)
Indigenous



Photos of some flora species documented in the study area.

Auri (*Acacia auriculiformis*)
Exotic (IUCN = LC)



Eucalyptus (*Eucalyptus robusta*)
Exotic (IUCN = NT)



Tectona (*Tectona grandis*)
Exotic



Alagau (*Premna odorata*)
Indigenous



Buttonweed (*Spermacoce hispida*)
Indigenous



Lumanai (*Homonoia riparia*)
Indigenous (IUCN = LC)



Photos of some flora species documented in the study area.

Malabalatong (*Flemingia macrophylla*)
Indigenous



Wendlandia (*Wendlandia luzonica*)
Endemic



Langka (*Artocarpus heterophyllus*)
Exotic



Guyabano (*Annona muricata*)
Exotic (IUCN = LC)



Sambong (*Blumea balsamifera*)
Indigenous (IUCN = LC)



Hauili (*Ficus septica*)
Indigenous (IUCN = LC)



Photos of some flora species documented in the study area.

Elephantopus (*Elephantopus scaber*)
Exotic



Pandakaki (*Tabernaemontana pandacaqui*)
Indigenous (IUCN = LC)



Sablot (*Litsea glutinosa*)
Indigenous (IUCN = LC)



Alibangbang (*Piliostigma malabarica*)
Indigenous








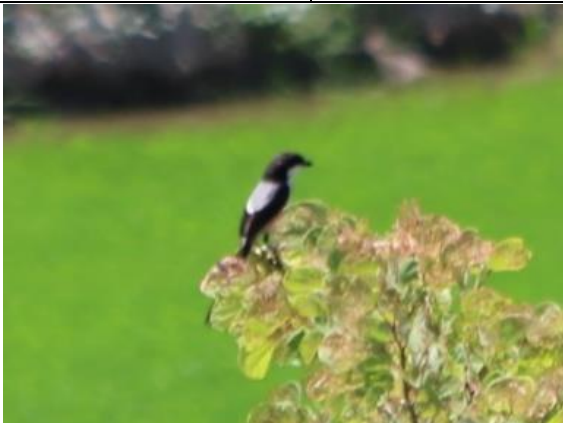
Benguet Pine (*Pinus kesiya*)
Indigenous (IUCN = LC)









Kasoy (*Anacardium occidentale*)
Exotic



**Some Wild Fauna Species Photo Documented During the Assessment
(Dry and wet season)**

	
<div>Common Name</div> <div>Scientific name</div> <div>Family name</div> <div>Distribution Status</div>	<div>Common Name</div> <div>Scientific name</div> <div>Family name</div> <div>Distribution Status</div>
	
<div>Common Name</div> <div>Scientific name</div> <div>Family name</div> <div>Distribution Status</div>	<div>Common Name</div> <div>Scientific name</div> <div>Family name</div> <div>Distribution Status</div>
	
<div>Common Name</div> <div>Scientific name</div> <div>Family name</div>	<div>Common Name</div> <div>Scientific name</div> <div>Family name</div>

Distribution Status Resident		Distribution Status Resident	
			
Common Name	Black Crowned Night Heron	Common Name	Blue-Tailed Bee Eater
Scientific name	<i>Nycticorax nycticorax</i>	Scientific name	<i>Merops philippinus</i>
Family name	Ardeidae	Family name	Meropidae
Distribution Status	Migrant	Distribution Status	Resident
			
Common Name	Yellow Vented Bulbul	Common Name	Spotted Dove
Scientific name	<i>Pycnonotus goiavier</i>	Scientific name	<i>Spilopelia chinensis</i>
Family name	Pycnonotidae	Family name	Columbidae
Distribution Status	Resident	Distribution Status	Resident
			
Common Name	Straited Grass Bird	Common Name	Slender-Billed Crow
Scientific name	<i>Megalurus palustris</i>	Scientific name	<i>Corvus macrorhynchos</i>
Family name	Locustellidae	Family name	Corvidae
Distribution Status	Resident	Distribution Status	Resident



Common Name Lesser musky fruit bat
 Scientific name *Ptenochirus minor*
 Family name Pteropodidae
 Distribution Status Endemic



Common Name Black Naped Oriole
 Scientific name *Oriolus chinensis*
 Family name Oriolidae
 Distribution Status Resident



Common Name Philippine Pied-Fantail
 Scientific name *Rhipidura nigritorquis*
 Family name Muscicapidae
 Distribution Status Endemic









Common Name Philippine Bulbul
 Scientific name *Hypsipetes philippinus*
 Family name Pycnonotidae
 Distribution Status Endemic









Common Name Brown Shrike
 Scientific name *Lanius cristatus*



Common Name Cattle Egret
 Scientific name *Bubulcus ibis*

Family name Distribution Status		Laniidae Resident	Family name Distribution Status		Ardeidae Resident w/ migrant population
					
Common Name Scientific name Family name Distribution Status		Black-shouldered Kite <i>Elanus caeruleus</i> Accipitridae Resident	Common Name Scientific name Family name Distribution Status		White belied Munia <i>Lonchura leucogastra</i> Estrildidae Resident
					
Common Name Scientific name Family name Distribution Status		Indigo banded King Fisher <i>Ceyx cyanopectus</i> Alcedinidae Endemic	Common Name Scientific name Family name Distribution Status		Polynesian rat <i>Rattus exullans</i> Muridae Native
					
Common Name Scientific name Family name Distribution Status		Pied Bushchat <i>Saxicola caprata</i> Muscicapidae Resident	Common Name Scientific name Family name Distribution Status		Long Tailed Shrike <i>Lanius schach</i> Laniidae Resident

					
	Common Name Scientific name Family name Distribution Status	Spotted Botton Quail <i>Butorides striatus</i> Turnicidae Resident		Common Name Scientific name Family name Distribution Status	Yellow wagtail <i>Motacilla flava</i> Motacillidae Migrant
					
	Common Name Scientific name Family name Distribution Status	Crested Myna <i>Acridotheres cristatellus</i> Sturnidae Resident		Common Name Scientific name Family name Distribution Status	Paddy field Pipit <i>Anthus rufulus</i> Motacillidae Resident
					Common Name Scientific name Family name Distribution Status
	Common Name Scientific name Family name Distribution Status	Scale Feathered Malkoha <i>Lepidogrammus cumingi</i> Cuculidae Endemic		Common Name Scientific name Family name Distribution Status	Pied Harrier <i>Circus melanoleucos</i> Accipitridae Migrant

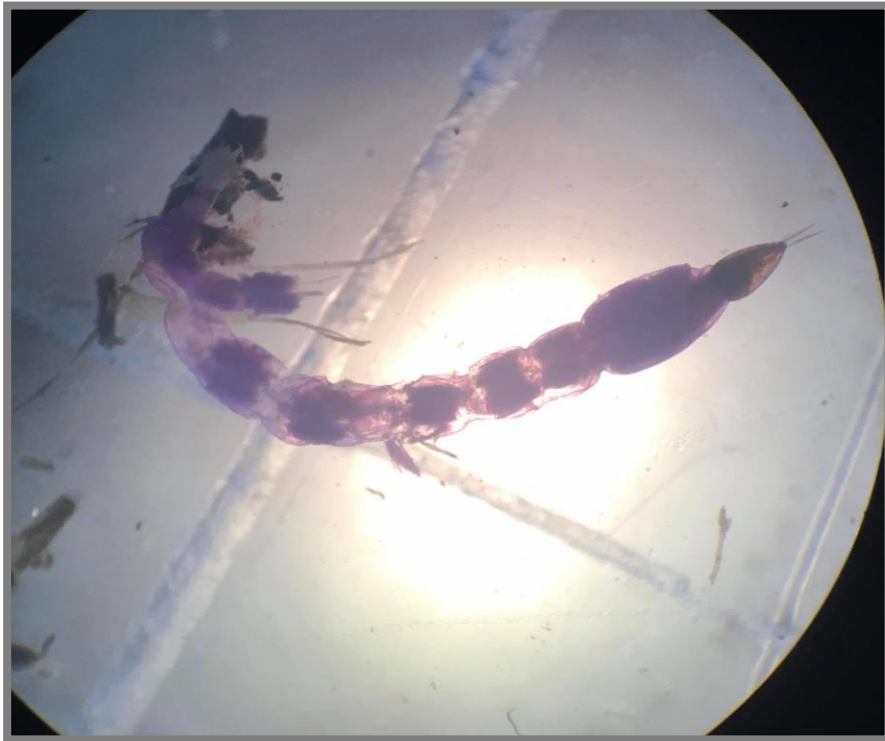
June 2021

AQUATIC ECOLOGY REPORT

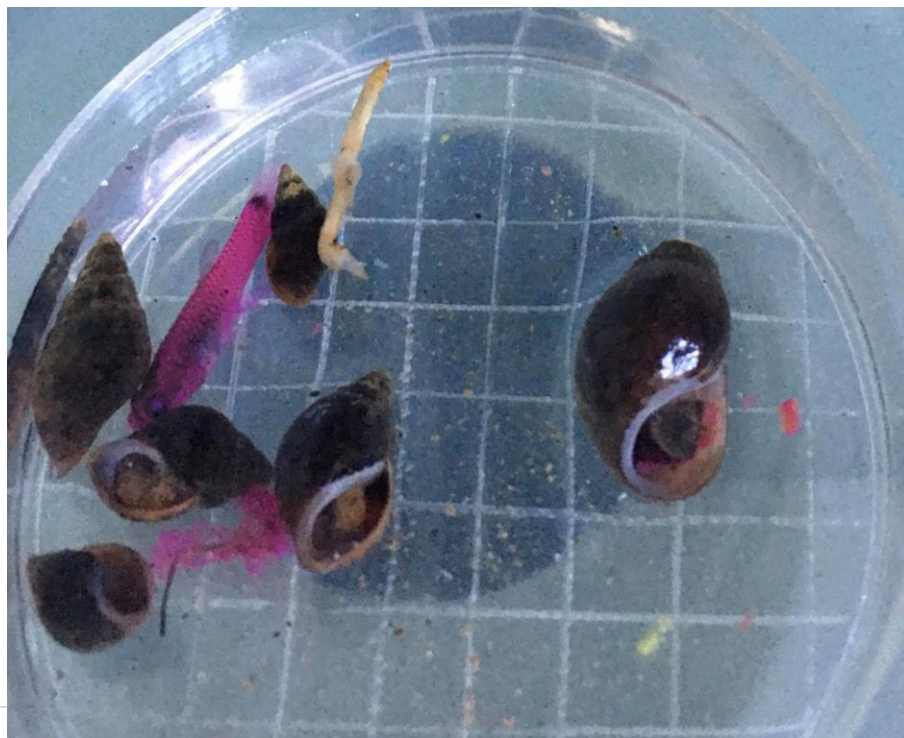


Dalton Pass
East Road
Project

Annex 1. Freshwater macroinvertebrates specimen observed/collected at the proposed project site in Nueva Ecija and Nueva Viscaya, June 2021



Chironomous sp.



Bellamya sp.



Baetis sp.



Shield bug (ventral view)



Shield bug (dorsal view)



Bellamya sp.

Annex 2: PHOTOS/ACTIVITIES OF FRESHWATER ECOLOGY MODULE



Sampling Site PZB 1 – Wahig River, Downstream of Mandalukdok Bridge, Brgy. Bunga, Caranglan, Nueva Ecija



Sampling Site PZB 2 – Lomboy Bridge, Brgy. Burgos, Caranglan, Nueva Ecija



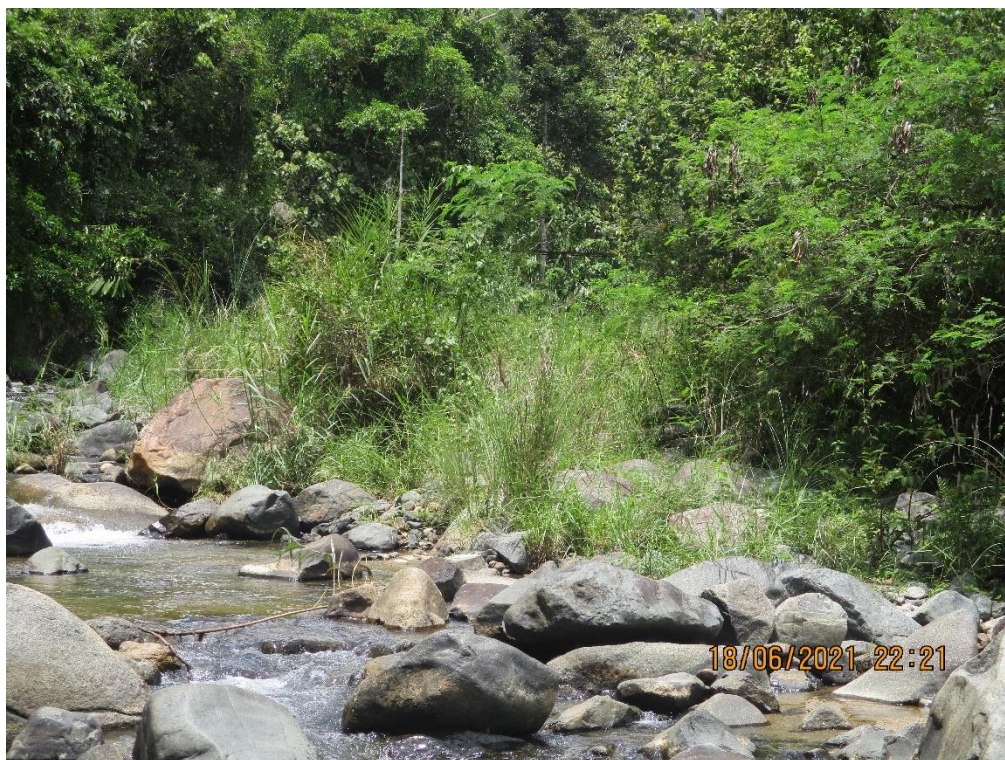
Sampling Site PZB 3 – Along Poblacion – Salazar Road, Brgy. Salazar, Caranglan, Nueva Ecija



Sampling Site PZB 4 – Popo Bridge, Brgy. Salazar, Caranglan, Nueva Ecija



Sampling Site PZB 5 – Sinuratan Bridge, Brgy. Salazar, Caranglan, Nueva Ecija



Sampling Site PZB 6 – Upstream Marang River, Brgy. Canabuan, Sta. Fe, Nueva Viscaya



Sampling Site PZB 7 – Midstream Marang River, Brgy. Canabuan, Aritao, Nueva Viscaya



Sampling Site PZB 8 – Downstream Marang Bridge, Marang River, Brgy. Canarem, Aritao, Nueva Viscaya

January 2022

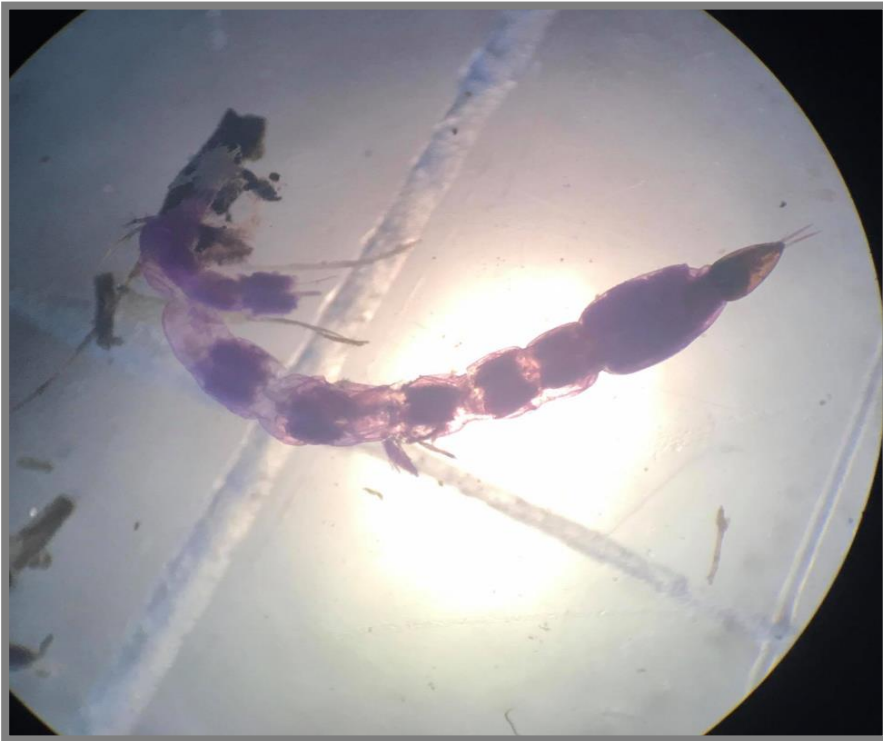


AQUATIC ECOLOGY REPORT



Dalton Pass
East Road
Project

Annex 1. Freshwater macroinvertebrates specimen observed/collected at the proposed project site in Nueva Ecija and Nueva Viscaya, June 2021



Chironomous sp.



Bellamya sp.



Baetis sp.



Shield bug (ventral view)



Shield bug (dorsal view)



Bellamya sp.

Annex 2. Photos/Activities Of Freshwater Ecology Module



Sampling Site PZB 1 – Wahig River, Downstream of Mandalukdok Bridge, Brgy. Bunga, Caranglan, Nueva Ecija



Sampling Site PZB 2 – Lomboy Bridge, Brgy. Burgos, Caranglan, Nueva Ecija



Sampling Site PZB 3 – Along Poblacion – Salazar Road, Brgy. Salazar, Caranglan, Nueva Ecija



Sampling Site PZB 4 – Popo Bridge, Brgy. Salazar, Caranglan, Nueva Ecija



Sampling Site PZB 5 – Sinuratan Bridge, Brgy. Salazar, Caranglan, Nueva Ecija



Sampling Site PZB 6 – Upstream Marang River, Brgy. Canabuan, Sta. Fe, Nueva Viscaya



Sampling Site PZB 7 – Midstream Marang River, Brgy. Canabuan, Aritao, Nueva Viscaya





Sampling Site PZB 8 – Downstream Marang Bridge, Marang River, Brgy. Canarem, Aritao, Nueva Viscaya

ANNEX F

Public Participation

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija



In cooperation with



JOINT VENTURE OF NIPPON KOEI CO., LTD.,
KATAHIRA & ENGINEERS INTERNATIONAL,
NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

Documentation Report Information and Education Campaign & Initial Perception Survey

Dalton Pass East Alternative Road Project

Provinces of Nueva Vizcaya & Nueva Ecija



Submitted to



**Environmental Management Bureau
Central Office**

October 2021



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LIST OF ATTACHMENTS

Attachment 1	:	Proof of Receipt of IEC Invitation & Materials
Attachment 2	:	IEC Presentation Material
Attachment 3	:	IEC Meeting Attendance Sheets
Attachment 4	:	Initial Perception Survey Questionnaire & Filled-up Survey Questionnaires



SECTION 1

INTRODUCTION

- Department of Public Works and Highways** (the “Proponent”), through the assistance of Japan International Cooperation Agency (JICA), will be developing the Dalton Pass East Alternative Road (DPEAR) Project in the Provinces of Nueva Vizcaya & Nueva Ecija.
- Table 1** provided some basic information regarding the proposed project, the Proponent, and the Environmental Impact Assessment (EIA) preparer.

Table 1: Basic Information on the Proposed Project, Proponent, and EIA Preparer

Table 1. Basic Information on the Proposed Project, Proponent, and EIA Preparer			
Project Name	Dalton Pass East Alternative Road Project		
Project Location	Province	Municipality	Barangay
	Nueva Vizcaya (Region II)	Santa Fe	Canabuan
		Aritao	Canabuan Canarem
	Nueva Ecija (Region III)	Carranglan	Burgos Salazar
Project Type (According to DENR MC 2014-15)	3.4.7 Tunnel and Sub-grade Roads and Railways		
Project Size/Capacity	Road	Total Length: ~23 km Lane: 4 lanes Design Speed: 80 km/hr. (rolling terrain) 70 km/hr. (mountainous terrain)	
	Tunnel	Total Length: ~6.06 km Length of the North Tunnel: 4.46 km Length of the South Tunnel: 1.6 km Construction of lighting, ventilation, and emergency facilities	
	Bridge	Total Number: 10 Passage for rivers and creeks Slope protection is included	
Project Proponent	Department of Public Works and Highways Roads Management Cluster I (Bilateral) Unified Project Management Office Office Address: PJHL Building, NCR Compound-DPWH, 2nd Street, Port Area, Manila Tel. No.: (02) 8304-3901 Authorized Representative: Benjamin A. Bautista Project Director		
EIA Preparer	LCI Envi Corporation Office Address: Unit 8L-M, Future Point Plaza 3, 111 Panay Avenue, South Triangle, Quezon City Tel. No.: (02) 8442-2830 / Fax No.: (02) 8961-9226 Authorized Representative: Engr. Jose Marie U. Lim EIA Team Leader		



SECTION 2

IEC MEETING AND FOCUSED GROUP DISCUSSIONS

2.1 RATIONALE AND OBJECTIVES

- 3 As stipulated in the DENR Administrative Order No. 2017-15 (Guidelines on Public Participation under the Philippine Environmental Impact Statement System), at the onset of the environmental impact assessment (EIA) process, early involvement of stakeholders must be initiated before the scoping through the conduct of information and education campaign (IEC).
- 4 With the emergence of the Corona Virus Disease 2019 (COVID-19) in the Philippines. The conduct of the IEC was done with minimal interaction and adhered to guidelines and protocols for mass gatherings set by the Inter-Agency Task Force for the Management of Emerging Infectious Diseases (IATF).
- 5 **DPWH** invited the following stakeholder groups for the IEC:
 - a. **LGUs in areas where all project facilities are proposed to be constructed/situated and where all operations are proposed to be undertaken**
 - i. Santa Fe, Nueva Vizcaya (host municipality)
 - ii. Aritao, Nueva Vizcaya (host municipality)
 - iii. Carranglan, Nueva Ecija (host municipality)
 - b. **Barangay LGUs:**
 - i. Brgy. Canabuan, Santa Fe (host barangay)
 - ii. Brgy. Canabuan, Aritao (host barangay)
 - iii. Brgy. Canarem, Aritao (host barangay)
 - iv. Brgy. Burgos, Carranglan (host barangay)
 - v. Brgy. Salazar, Carranglan (host barangay)
 - c. **Interest groups, preferably those with mission/s specifically related to the type and impacts of the proposed undertaking**
 - i. Indigenous Peoples Mandatory Representatives (IPMRs) representing the Ikalahan Kalanguya Ancestral Domain and Ikalahan Ancestral Domain
- 6 Mayor Tidong A. Benito and Vice Mayor Jonathan M. Tindaan attended the IEC meeting for the Municipality of Santa Fe, Nueva Vizcaya.
- 7 Mayor Mary B. Abad attended the IEC meeting for the Municipality of Carranglan, Nueva Ecija.
- 8 The proof of receipt of IEC invitation was presented as **Attachment 1** of this report. While the IEC presentation material was included as **Attachment 2** of this report.

2.2 SCHEDULE AND PARTICIPANTS

- 9 **Table 2** presented the schedule and number of participants for the IEC meetings. The IEC meetings were conducted in the respective Municipal Halls of the host municipalities. Project Engineers from the DPWH Unified Project Management Office Roads Management Cluster I (Bilateral) (UPMO-RMCI) represented the proponent. LCI Envi Corporation facilitated the IEC meetings.



Table 2: Schedule & No. of Participants

LGU	DATE & TIME	MALE PARTICIPANTS	FEMALE PARTICIPANTS	TOTAL PARTICIPANTS
Aritao, Nueva Vizcaya	30 June 2021 9:00-11:00AM	8	4	12
Santa Fe, Nueva Vizcaya	1 July 2021 9:00-11:00AM	8	4	12
Carranglan, Nueva Ecija	2 July 2021 9:00-11:00AM	11	6	17
TOTAL		27	14	41

- ¹⁰ The attendance sheets for the 3 IEC sessions were included as **Attachment 3** of this report.

2.3 HIGHLIGHTS

- ¹¹ The photo-documentation of the IEC activities were provided in **Figures 1 to 3**. The issues and concerns raised by the participants during the open forum per LGU and the corresponding responses of DPWH-UPMO-RMC-I (Bilateral) and EIA consultant, were summarized in **Table 3**.



Figure 1: Photo Documentation of the IEC Meeting (Aritao, Nueva Vizcaya)



IEC Meeting Participant's Registration and Answering of the Initial Perception Surveys



IEC Posting of the Meeting Tarpaulin and Presentation of the Project



Discussion about the Project and Open Forum

SOURCE: Photos taken by LCI Study Team (30 June 2021)

FIGURE NO.	FIGURE TITLE	
1	Photo Documentation of the IEC Meeting (Aritao, Nueva Vizcaya)	
PROJECT PROPONENT: DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT TITLE & LOCATION: DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	REPORT PREPARER: LCI ENVI CORPORATION



Figure 2: Photo Documentation of the IEC Meeting (Santa Fe, Nueva Vizcaya)



Opening Preliminaries and Answering of the Initial Perception Surveys



IEC Posting of the Meeting Tarpaulin and Presentation of the Project



Open Forum and Group Photo with the Municipal Mayor and Vice Mayor of Santa Fe, Nueva Vizcaya

SOURCE: Photos taken by LCI Study Team (1 July 2021)

FIGURE NO.	FIGURE TITLE	
2	Photo Documentation of the IEC Meeting (Santa Fe, Nueva Vizcaya)	
PROJECT PROPONENT: DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT TITLE & LOCATION: DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	REPORT PREPARER: LCI ENVI CORPORATION



Figure 3: Photo Documentation of the IEC Meeting (Carranglan, Nueva Ecija)



Opening Preliminaries



IEC Posting of the Meeting Tarpaulin and Presentation of the Project



Open Forum and Group Photo with the Municipal Mayor of Carranglan, Nueva Ecija

SOURCE: Photos taken by LCI Study Team (2 July 2021)

FIGURE NO.	FIGURE TITLE	
3	Photo Documentation of the IEC Meeting (Carranglan, Nueva Ecija)	
PROJECT PROPONENT:	PROJECT TITLE & LOCATION:	REPORT PREPARER:
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	LCI ENVI CORPORATION



Table 3: Matrix of Issues and Concerns raised during the IEC Meetings

ISSUES/CONCERNS/QUERIES	RESPONSIBLE PERSON	ACTION/RESPONSE
A. IEC FOR ARITAO, NUEVA VIZCAYA		
Which of the four alternatives has been chosen for the project?	Municipal Planning and Development Coordinator	EIA Study Team: Alternative D was chosen based on the Route Analysis conducted by JICA Study Team.
The Indigenous Peoples' (IPs') Memorandum of Agreement (MOA) should be updated to consider change from 2-lanes to 4-lanes.	Indigenous Peoples Mandatory Representative	Engr. Ronel Bulan (DPWH): No need to amend MOA since 4 lanes will be constructed within the agreed road right-of-way (RROW) of 60 meters.
In your study, kindly put emphasis on mitigation and effects to the indigenous peoples.	Municipal Planning and Development Coordinator	The EIA study team noted the comments from the Municipal Planning and Development Coordinator.
Kindly consider the fault line near Dalton and check if it will affect the project.	Municipal Planning and Development Coordinator	The EIA study team noted the comments from the Municipal Planning and Development Coordinator. The study team will look into the said fault line and include discussions in the Environmental Impact Assessment (EIA) Report
Where will the drilled materials from tunneling be disposed?	Municipal Planning and Development Coordinator	Engr. Ronel Bulan (DPWH): Spoils disposal areas have been identified near the portals of the tunnels, subject for finalization and approval. Some of the spoils may be used as fill materials for the project.
Should there be hindrances against the construction of the tunnel, will there be a chance for the tunnel alignment to change?	Indigenous Peoples Mandatory Representative	Engr. Ronel Bulan (DPWH): This is the reason why we are conducting feasibility studies and detailed engineering design (DED) to know how and where the tunnel will be constructed.
Will you incorporate the tourism potential and features in the project design?	Municipal Agriculture Officer	EIA Study Team: The tourism potential and features will be brought up to DPWH and JICA.
Will there be resettlement in the project?	Municipal Social Welfare and Development Officer	EIA Study Team: Resettlement considerations are part of the JICA study for the project. A separate study team will be preparing a resettlement action plan (RAP) for the project.
We have an IP policy in Aritao, which states that IPs must be given priority for livelihood and employment.	Indigenous Peoples Mandatory Representative	EIA Study Team: Both locals and IPs have a chance to be employed if they are qualified. The LGU can prepare the locals and IPs in undergoing Technical Education and Skills Development Authority (TESDA) accredited trainings in anticipation of the manpower requirements for the project.



ISSUES/CONCERNS/QUERIES	RESPONSIBLE PERSON	ACTION/RESPONSE
Suggestion for joint RAP consultations in the Municipalities of Aritao and Santa Fe	Indigenous Peoples Mandatory Representative	<p>EIA Study Team:</p> <p>The EIA study team noted the comments from the Indigenous Peoples Mandatory Representative.</p> <p>The consultation for RAP is different from the consultation for the EIA process.</p> <p>We also need to consider Covid-19 and the limitations set by the local government and IATF on mass gatherings.</p>
Will there be agricultural areas that will be affected by the proposed project?	Municipal Agriculture Officer	<p>EIA Study Team:</p> <p>The project-affected lands (agriculture and non-agriculture) and structures will be discussed during the RAP study team.</p>
Will there be compensation for people who will be affected/need to be relocated?	Municipal Environment and Natural Resources Officer	<p>EIA Study Team:</p> <p>The compensation for project-affected persons/families (PAP/Fs) will be discussed thoroughly by the RAP study team.</p>
One of DPWH's contractors did not comply with the MOA	Indigenous Peoples Mandatory Representative	<p>Engr. Ronel Bulan (DPWH):</p> <p>Ms. Lalaine Catulong of DPWH has advised the IPs to submit Letter to DPWH Region regarding this matter.</p>
Will there be a resolution regarding the boundary dispute of Canabuan, Aritao and Canabuan, Santa Fe?	Indigenous Peoples Mandatory Representative	<p>EIA Study Team:</p> <p>The EIA study team noted the comments from the Indigenous Peoples Mandatory Representative.</p> <p>The study team will look into the said issue and include discussions in the Environmental Impact Assessment (EIA) Report</p>
On Japanese Burial Sites	JICA Study Team	<p>The participants mentioned that there were no known Japanese Burial Sites in the municipality.</p>
B. IEC FOR SANTA FE, NUEVA VIZCAYA		
Clarification about the tunnel – how many will be constructed?	Municipal Planning and Development Coordinator	<p>Engr. Ronel Bulan (DPWH):</p> <p>A route selection was conducted. As presented, there were two tunnels that will be constructed for the project, the north tunnel and south tunnel.</p>
<p>This is a good project.</p> <p>How about the road issues of the existing Dalton Pass?</p>	Municipal Planning and Development Coordinator	<p>Engr. Ronel Bulan (DPWH):</p> <p>The proposed alternative road will allow for DPWH to address the issues and give opportunity to implement rehabilitation of the existing Dalton Pass.</p> <p>There is also an ongoing road widening across the Pan Philippine Highway.</p>
What about the economic impact of the proposed project to our municipality?	Municipal Administrator	<p>Engr. Ronel Bulan (DPWH):</p> <p>This issue will be carefully studied and will be part of the analysis.</p>



ISSUES/CONCERNS/QUERIES	RESPONSIBLE PERSON	ACTION/RESPONSE
<p>Will DPWH have a plan for the next 9 years (project completion) to address the economic impacts of the proposed project to our municipality?</p> <p>The number of vehicles will be reduced, hence the number of potential sources of income (transients/motorist) will also be reduced, if DPEAR will be completed.</p>		
<p>May we use this opportunity to request to urge DPWH Region II to address the “poorly maintained” road of the existing Dalton Pass passing the municipality of Santa Fe.</p>	Municipal Planning and Development Coordinator	Engr. Ronel Bulan (DPWH): We have noted your concern and we will relay this to our Project Director for appropriate guidance and action.
<p>Is the project part of the North-East Luzon Expressway (NELEX)?</p>	Municipal Administrator	Engr. Ronel Bulan (DPWH): The project is not part of NELEX.
<p>Why not widen the existing expressway in San Nicolas, Pangasinan?</p> <p>Our concern is on the economic impact once traffic is diverted from existing Dalton Pass to the alternative road.</p>	Indigenous Peoples Mandatory Representative	<p>Engr. Ronel Bulan (DPWH): San Nicolas, Pangasinan was originally envisioned as the alternate route but was strongly opposed by the IPs during the Free and Prior Informed Consent (FPIC).</p> <p>DPWH did not push through with the alignment/project due to strong opposition.</p> <p>The economic implications of the project to the municipality of Santa Fe will be part of the study. The project will undergo evaluation by the National Economic and Development Authority (NEDA).</p>
<p>Will the IPs in Brgy. Bantina, adjacent to Brgy. Canabuan, be affected? They are also an IP community.</p> <p>In the next consultations, kindly involve more stakeholders.</p>	Municipal Mayor	<p>EIA Study Team: The EIA study team noted the comments from Hon. Tidong A. Benito.</p> <p>More stakeholders will be invited in the succeeding consultations.</p>
<p>On Japanese Burial Sites.</p>	JICA Study Team	<p>The participants mentioned that there were Japanese Burial Sites in Barangay Tactac/Balete Pass/Barangay Malico area in 1970s.</p> <p>Some of the Japanese remains were already returned to the Japanese Government.</p>
C. IEC FOR CARRANGLAN, NUEVA ECIJA		
<p>In the previously presented alignment, there were few farmlands that will be affected. As it was changed, there were a lot of farmlands that were affected.</p>	Barangay Captain of Brgy. Salazar	EIA Study Team: There will be a Resettlement Action Plan (RAP) to be prepared for the project to identify the extent of the impacts of the project to project-affected lands.



ISSUES/CONCERNS/QUERIES	RESPONSIBLE PERSON	ACTION/RESPONSE
Can the project alignment be changed to avoid the said farmlands?		<p>Municipal Engineer: As per Road Right-of-Way (RROW) Act, affected private landowners will be compensated - if land titled only.</p> <p>Engr. Bill Ponce (DPWH): Republic Act No. 10752 states that there will be just compensation for affected landowners.</p>
During the initial meetings for the project, some of the landowners inquired if the project alignment can be adjusted.	Sangguniang Bayan Member	<p>EIA Study Team: The current proposed alignment is selected based on route analysis.</p> <p>A separate study team will be preparing a resettlement action plan (RAP) for the project.</p>
<p>The on-going study on NELEX: Private domains (including agricultural areas) and ancestral lands that will be affected.</p> <p>Both NELEX and DPEAR projects can affect agricultural areas in Carranglan. Agriculture is the main source of livelihood in the municipality.</p>	Municipal Planning and Development Coordinator	<p>Engr. Ronel Bulan (DPWH): NELEX is under DPWH-UPMO-RMCII (Multilateral).</p> <p>Due to the complexity of the project, the cost is too much high and the EIRR is below the required value, therefore not economically feasible.</p> <p>Regarding the effects to agriculture (food security and economy), this will be included in the study being conducted for the proposed project.</p>
<p>The existing segment already has damages.</p> <p>Who will undertake the operations and maintenance (O&M) of the existing segments?</p>	Municipal Planning and Development Coordinator	<p>Engr. Ronel Bulan (DPWH): The O&M for the existing segments is within jurisdiction of the DPWH Regional Office and District Engineering Offices (DEOs).</p>
The value of property in Carranglan, especially near the road, will become higher and will benefit the generations of people in the municipality.	Municipal Engineer	<p>EIA Study Team: The EIA study team noted the comments from the Municipal Engineer.</p>
It is important that all those who will be affected by the project will be properly compensated and supported.	Municipal Mayor	<p>EIA Study Team: The EIA study team noted the comments from Hon. Mary B. Abad.</p> <p>Consultations will be conducted by EIA Team, RAP Team, IP Team for all stakeholders.</p>
Please have a list of project-affected farmers.	Municipal Agriculture Officer	<p>EIA Study Team: A separate study team will be preparing a resettlement action plan (RAP) for the project.</p>



ISSUES/CONCERNS/QUERIES	RESPONSIBLE PERSON	ACTION/RESPONSE
		They will ensure that project-affected farmers will be listed and documented.
On Japanese Burial Sites	JICA Study Team	The participants mentioned that there were no known Japanese Burial Sites in the municipality.

- 18 As presented, the preliminary issues and concerns raised and addressed during the IEC activities for the proposed project covered a wide array of subject matter, from alignment concerns, perceived impacts to economy and livelihood, project alternatives, involuntary resettlement, and among others.
- 19 The importance of constant open communication between the community and the project Proponent throughout the different phases of the project implementation was emphasized during the meeting.



SECTION 3

INITIAL PERCEPTION SURVEY

3.1 OBJECTIVE

- ²⁰ The initial perception survey was conducted in conjunction with the IEC activities for the proposed Dalton Pass East Alternative Road Project. It was done in order to assess the preliminary knowledge and perception of the stakeholder representatives on the proposed project.

3.2 METHODOLOGY

- ²¹ The respondents were asked to fill out a 2-paged survey, which was written in Filipino. The initial perception survey form had two parts. The first part contained 10 questions on the respondent's profile, while the second part had 6 questions that aimed to gauge the awareness and gather the opinions of the respondent regarding the proposed project.

3.3 SUMMARY OF RESULTS

- ²² A total of 24 respondents participated in the initial perception survey. The profile of the respondents is summarized in **Table 4**. The initial perception survey results are presented in **Table 5**.
- ²³ The initial perception survey with filled-up questionnaires were presented as **Attachment 4** of this report.



Table 4: Profile Summary of the Initial Perception Survey Respondents

ITEM	RESULTS
Residence & Period of Residency	<ul style="list-style-type: none"> (100%) of the respondents were Bonafede residents of the respective Municipalities of Aritao, Santa Fe, and Carranglan.
Gender Distribution	<ul style="list-style-type: none"> (40%) of the respondents were female, while (60%) were male.
Organizations/Groups	<ul style="list-style-type: none"> (87.50%) of the respondents were from the Municipal LGUs. (12.50%) of the respondents were from the Barangays LGUs.
Civil Status	<ul style="list-style-type: none"> (92%) of the respondents were married.
Religious Affiliation	<ul style="list-style-type: none"> (37.50%) of the respondents were Roman Catholics. (33.33%) of the respondents were Born Again Christians. (8.33%) of the respondents were followers of Iglesia ni Cristo.
Educational Attainment	<ul style="list-style-type: none"> (62.50%) of the respondents attended or finished college. (20.83%) of the respondents attended or finished post-graduate. (8.33%) of the respondents attended or finished elementary.
Source of Income/Livelihood	<ul style="list-style-type: none"> (87.50%) of the respondents were employed as government employees. (8.75%) of the respondents earn from being Barangay Officials.
Average Monthly Income (PHP)	<ul style="list-style-type: none"> (62.50%) answered that they were earning more than Php 20,000. (16.67%) answered that they were earning between Php 10,001 to 15,000. (16.67%) answered that they were earning between Php 0 to 5,000.

Table 5: Results Summary of the Initial Perception Survey on the Proposed Project

ITEM	RESULTS
Awareness about the proposed Project	<ul style="list-style-type: none"> (100.00%) of the respondents were aware of the project. (100.00%) of the respondents learned about the project through meeting about the project.
Opinion of the nature of the project	<ul style="list-style-type: none"> (83.33%) of the respondents believed that the proposed project would be beneficial. (16.67%) were unsure if the project will be beneficial nor detrimental to the community.
Potential positive effects of the project to the respondent, community, and environment	<ul style="list-style-type: none"> (91.67%) answered that the proposed project would ease travel in the area. (58.33%) said that the proposed project could increase business and economic activities. (41.67%) said that proposed project can generate additional employment opportunities. (33.33%) said that proposed project will increase local taxes for the municipality.
Potential negative effects of the project to the respondent, community, and environment	<ul style="list-style-type: none"> (54.17%) of the respondents said that the proposed project would cause noise pollution. (45.83%) of the respondents said that the proposed project will cause air pollution. (37.50%) answered that the proposed project will increase water, river, and land pollution. (20.83%) believed that the proposed project will bring additional traffic.
Message to the Proponent	<ul style="list-style-type: none"> (79.17%) answered that DPWH must ensure that the project design and construction methodologies are in line with national and international standards. (75.00%) said that DPWH must ensure that the potential negative effects of the proposed project are mitigated appropriately. (41.67%) answered that DPWH must ensure that the proposed project must minimize pollution generation.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. REMELINA PEROS-GALAM

Municipal Mayor

Municipal Government of Aritao

Province of Nueva Vizcaya

OFFICE OF THE MUN. MAYOR

RECEIVED

DATE: 6-25-21 8:58AM

BY: Mark
ARITAO, NUEVA VIZCAYA

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

ATTENTION : Office of the Vice Mayor / Sangguniang Bayan
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)

Dear Mayor Peros-Galam:

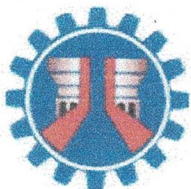
We are pleased to invite you to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	30 June 2021
Time	9:00 AM to 11:00 AM
Venue	Aritao Municipal Hall

The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

In addition, our study team will also conduct Focus Group Discussion (FGD) to discuss gender and development (GAD) for the proposed project shortly after the activity.

Mark Rimas
09998135234



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. REYNALDO J. PUGSONG

Punong Barangay
Barangay Canabuan
Municipality of Aritao, Nueva Vizcaya

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

Dear Brgy. Chairman Pugsong:

We are pleased to invite you and the Barangay Council of Canabuan to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	30 June 2021
Time	9:00 AM to 11:00 AM
Venue	Aritao Municipal Hall

The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

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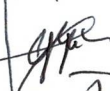
Rest assured that COVID-19 safety protocols will be observed in the conduct of this activity. For confirmation and inquiries, you may contact Mr. Jerome Leaño of the EIA Study Team at jerome.leano@lci-envi.com or 0917-848-8191.

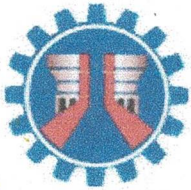
Your presence is highly appreciated. We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA

OIC- Project Director
Roads Management Cluster I (B) – UPMO, DPWH

6-25-21

Gilbert Tubo



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. MANRIC O. GAYNAT

Punong Barangay
Barangay Canarem
Municipality of Aritao, Nueva Vizcaya

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

Dear Brgy. Chairman Gaynat:

We are pleased to invite you and the Barangay Council of Canarem to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	30 June 2021
Time	9:00 AM to 11:00 AM
Venue	Aritao Municipal Hall

The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

In addition, our study team will also conduct Focus Group Discussion (FGD) to discuss gender and development (GAD) for the proposed project shortly after the activity.


Rest assured that COVID-19 safety protocols will be observed in the conduct of this activity. For confirmation and inquiries, you may contact Mr. Jerome Leaño of the EIA Study Team at jerome.leano@lci-envi.com or 0917-848-8191.

Your presence is highly appreciated. We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA

OIC- Project Director
Roads Management Cluster I (B) – UPMO, DPWH


6-24-21



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. TIDONG A. BENITO

Municipal Mayor
Municipal Government of Santa Fe
Province of Nueva Vizcaya

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

ATTENTION : Office of the Vice Mayor / Sangguniang Bayan
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)

Dear Mayor Benito:

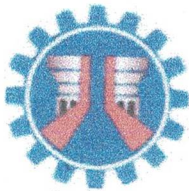
We are pleased to invite you to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	01 July 2021
Time	9:00 AM to 11:00 AM
Venue	Santa Fe Municipal Hall

The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

In addition, our study team will also conduct Focus Group Discussion (FGD) to discuss gender and development (GAD) for the proposed project shortly after the activity.

Received by
JACQUELINE PANCHETA
MEMO STAFF
06/25/21



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

Ben L. Balalong - 6/25/21

HON. BEN L. BALALONG

Punong Barangay
Barangay Canabuan
Municipality of Santa Fe, Nueva Vizcaya

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

Dear Brgy. Chalman Balalong:

We are pleased to invite you and the Barangay Council of Canabuan to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	01 July 2021
Time	9:00 AM to 11:00 AM
Venue	Santa Fe Municipal Hall


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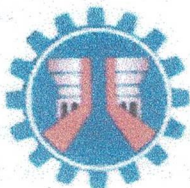
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Rest assured that COVID-19 health and safety protocols will be strictly observed in the conduct of this activity. For confirmation and inquiries, you may contact Mr. Jerome Leano of the EIA Study Team at jerome.leano@lci-envi.com or 0917-848-8191.

Your presence is highly appreciated. We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
OIC- Project Director
Roads Management Cluster I (B) – UPMO, DPWH



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. MARY B. ABAD

Municipal Mayor

Municipal Government of Carranglan

Province of Nueva Ecija

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

ATTENTION : Office of the Vice Mayor / Sangguniang Bayan
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)

Dear Mayor Abad:

We are pleased to invite you to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	02 July 2021
Time	9:00 AM to 11:00 AM
Venue	Carranglan Municipal Hall

The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

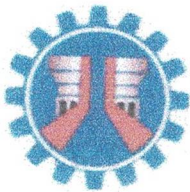
In addition, our study team will also conduct Focus Group Discussion (FGD) to discuss gender and development (GAD) for the proposed project shortly after the activity.

MAYOR'S OFFICE

RECEIVED BY: 

DATE: 6/28/21

TIME: 1:00 PM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. SANTOS M. TEODORO

Punong Barangay

Barangay Burgos

Municipality of Carranglan, Nueva Ecija

SUBJECT : **Invitation to Information and Education Campaign (IEC) Meeting for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of Carranglan in Nueva Ecija

Dear Brgy. Chairman Teodoro:

We are pleased to invite you and the Barangay Council of Burgos to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	02 July 2021
Time	9:00 AM to 11:00 AM
Venue	Carranglan Municipal Hall


The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

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Your presence is highly appreciated. We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA

OIC- Project Director

Roads Management Cluster I (B) – UPMO, DPWH

19.1 RRB/LDMC/RCM


SANTOS M. TEODORO

093-3027226



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

June 14, 2021

HON. ANDRES P. BUCASAN

Punong Barangay

Barangay Salazar

Municipality of Carranglan, Nueva Ecija

**SUBJECT : Invitation to Information and Education Campaign (IEC) Meeting
for the Proposed Dalton Pass East Alternative Road Project**
Municipalities of Aritao and Santa Fe in Nueva Vizcaya and Municipality of
Carranglan in Nueva Ecija

Dear Brgy. Chairman Bucasan:

We are pleased to invite you and the Barangay Council of Salazar to the **Information and Education Campaign (IEC) Meeting** for the **Proposed Dalton Pass East Alternative Road Project** to be located within the jurisdiction of the municipalities of Aritao and Santa Fe in Nueva Vizcaya and the municipality of Carranglan in Nueva Ecija.

Date	02 July 2021
Time	9:00 AM to 11:00 AM
Venue	Carranglan Municipal Hall

The IEC meeting aims to provide an overview of the proposed project and to create an avenue for potential stakeholders to communicate their views and concerns regarding the project. This activity is the first of the series of consultations that will be conducted as part of the Environmental Impact Assessment (EIA) for the project. Attached with this invitation is the activity program.

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Your presence is highly appreciated. We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA

OIC- Project Director

Roads Management Cluster I (B) – UPMO, DPWH


NORBES C. DURAN



| Dalton Pass East Alternative Road Project

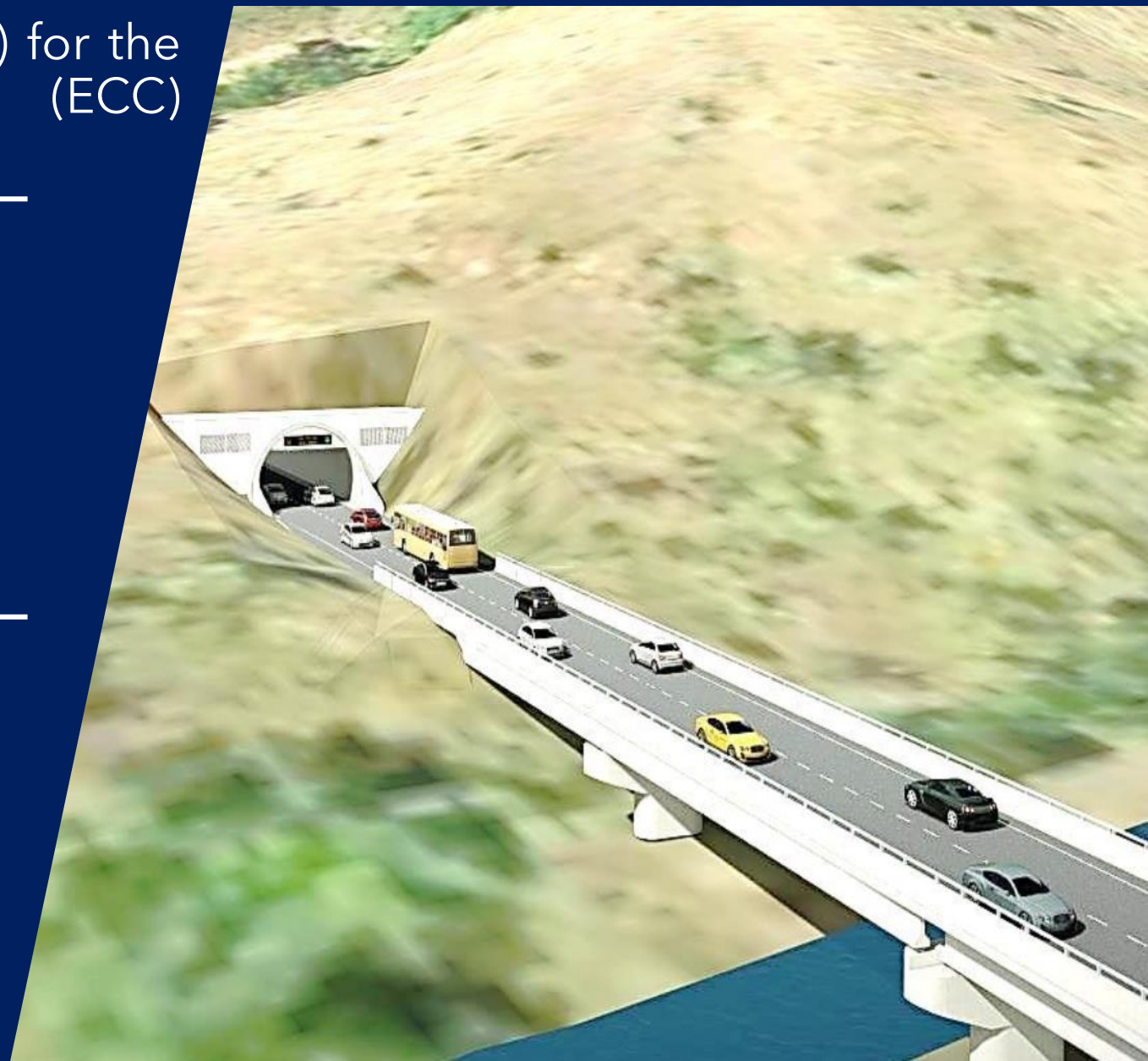


JOINT VENTURE OF NIPPON KOEI CO., LTD.,
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CENTRAL NIPPON EXPRESSWAY CO., LTD.

Information and Education Campaign (IEC) for the
Environmental Compliance Certificate (ECC)
Acquisition

Dalton Pass East Alternative Road Project

Date | 9:00am to 11:00am |
Municipal Hall







Agenda ng Meeting

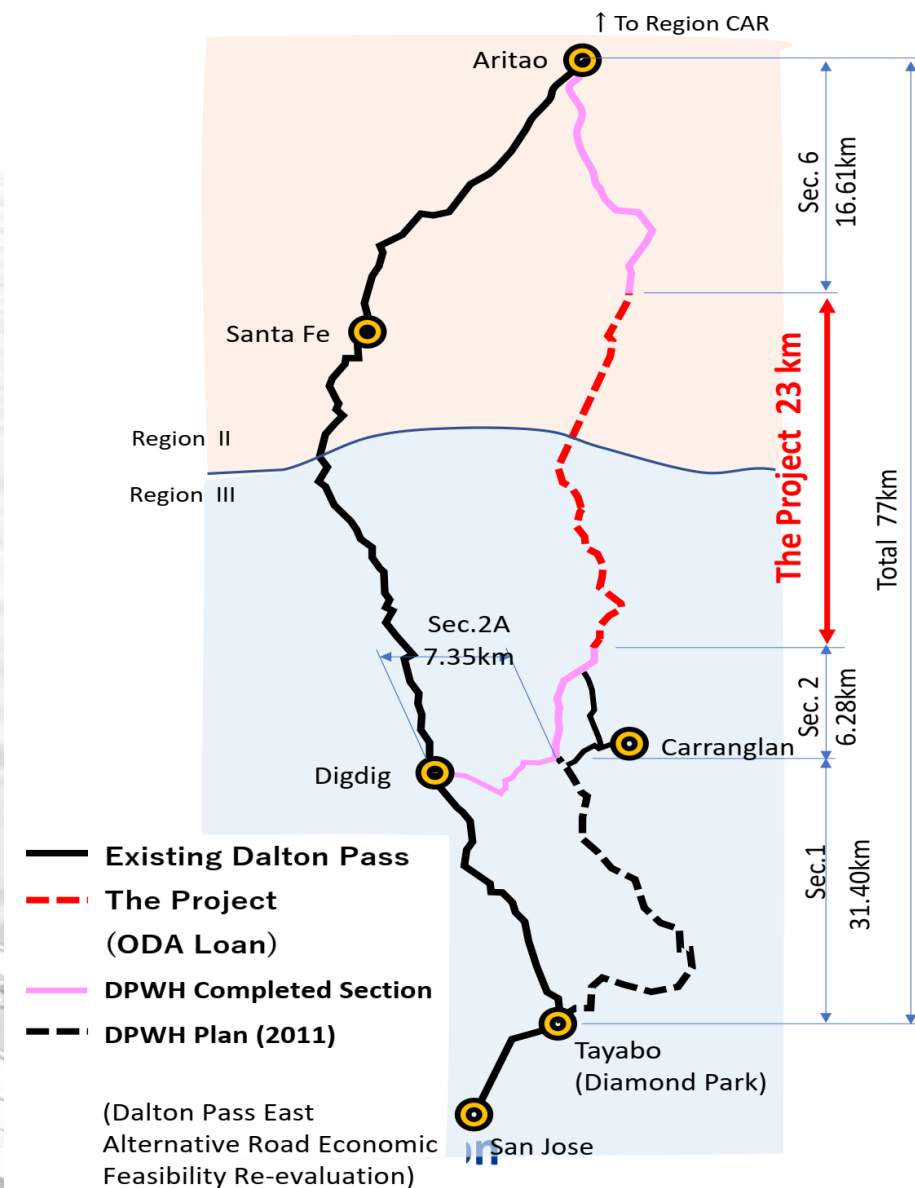
- Impormasyon Tungkol sa Proyekto
- Mga Gawain at Aktibidad sa Environmental Impact Assessment (EIA) [ECC Application Process]
- Malayang Talakayan





Dalton Pass East Alternative Road (DPEAR) Project

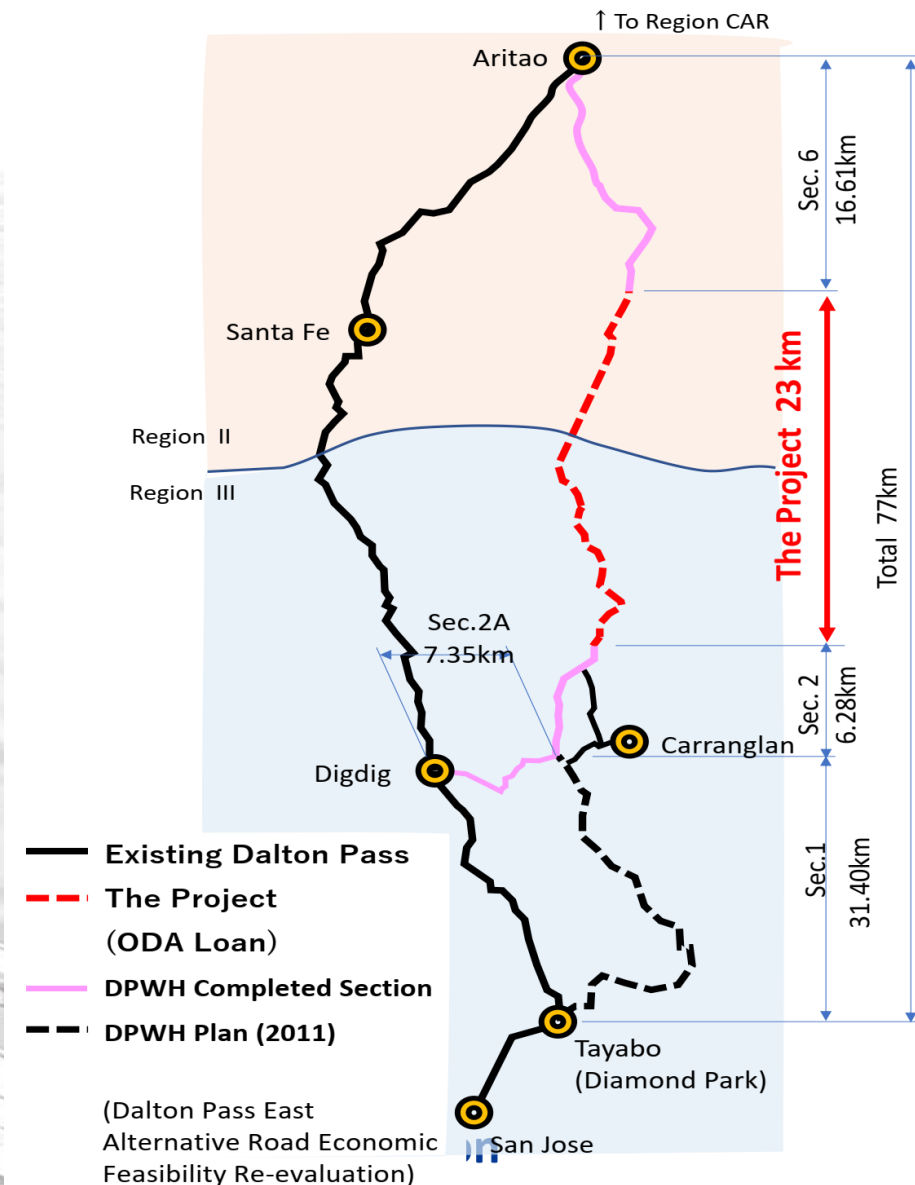
- Ang “Dalton Pass” ay isang bahagi ng Pan-Philippine Highway (PPH), isa sa mga pinakamahalagang trunk road ng North-to-South backbone ng Philippine Road Network System.
- Ang nabanggit na bahagi ay matatagpuan sa pagitan ng Barangay Tayabo, San Jose City, Nueva Ecija at Aritao, Nueva Vizcaya ay kritikal at madalas na sinasara dahil sa landslides (nalalaglag na mga bato at putik) na siyang nagiging dahilan upang hindi madaanan ang Dalton Pass.
- Ang resulta nito ay kadalasang isolasyon ng Region II (Cagayan Valley Region) hanggang maisaayos ulit ang nasabing daanan.






DPEAR Project

- Ang DPWH ay nakipag-ugnayan sa Gobyerno ng Japan para sa pagsasakatuparan ng proyekto dahil sa mga sumusunod na konsiderasyon:
 - Masiguro ang tuloy-tuloy at ligtas na konektibidad ng mga Rehiyong II, III, at CAR para hindi maantala ang daloy ng mga pang-ekonomiya at importanteng aktibidad sa bansa.
 - Mabawasan ang natural na hazards at risks kaugnay ng kadalasang pagsasara ng kasalukuyang daanan. Kasama dito ang pagpapaikli ng detour ng mga motorista kung sakaling may bagyo o lindol.





DPEAR Project

Uri ng Proyekto (Base sa DENR MC 2014-05)	3.4.7 Tunnel and sub-grade roads and railways		
Lokasyon ng Proyekto	Probinsya	Munisipalidad	Barangay
	Nueva Vizcaya (Region II)	Sante Fe	Canabuan
		Aritao	Canabuan Canarem
	Nueva Ecija (Region III)	Carranglan	Burgos Salazar
Maikling Detalye ng Proyekto	Kalsada	Kabuuang Haba:~23 km Linya: 4 na linya Desenyo para sa bilis ng mga sasakyan: 80 km/hr.	
	Tunnel	Kabuuang Haba: ~6.06 km Haba ng North Tunnel: 4.46 km Haba ng South Tunnel: 1.6 km Konstruksyon ng pailaw, bentilasyon at emergency facilities	
	Tulay	Kabuuang Bilang: 10 na tulay Tawiran ng ilog at creek Kasama ang slope protection	
Halaga ng Proyekto	Php 24 Bilyon		
Proponent ng Proyekto	 Department of Public Works and Highways Roads Management Cluster I (Bilateral) Unified Project Management Office		

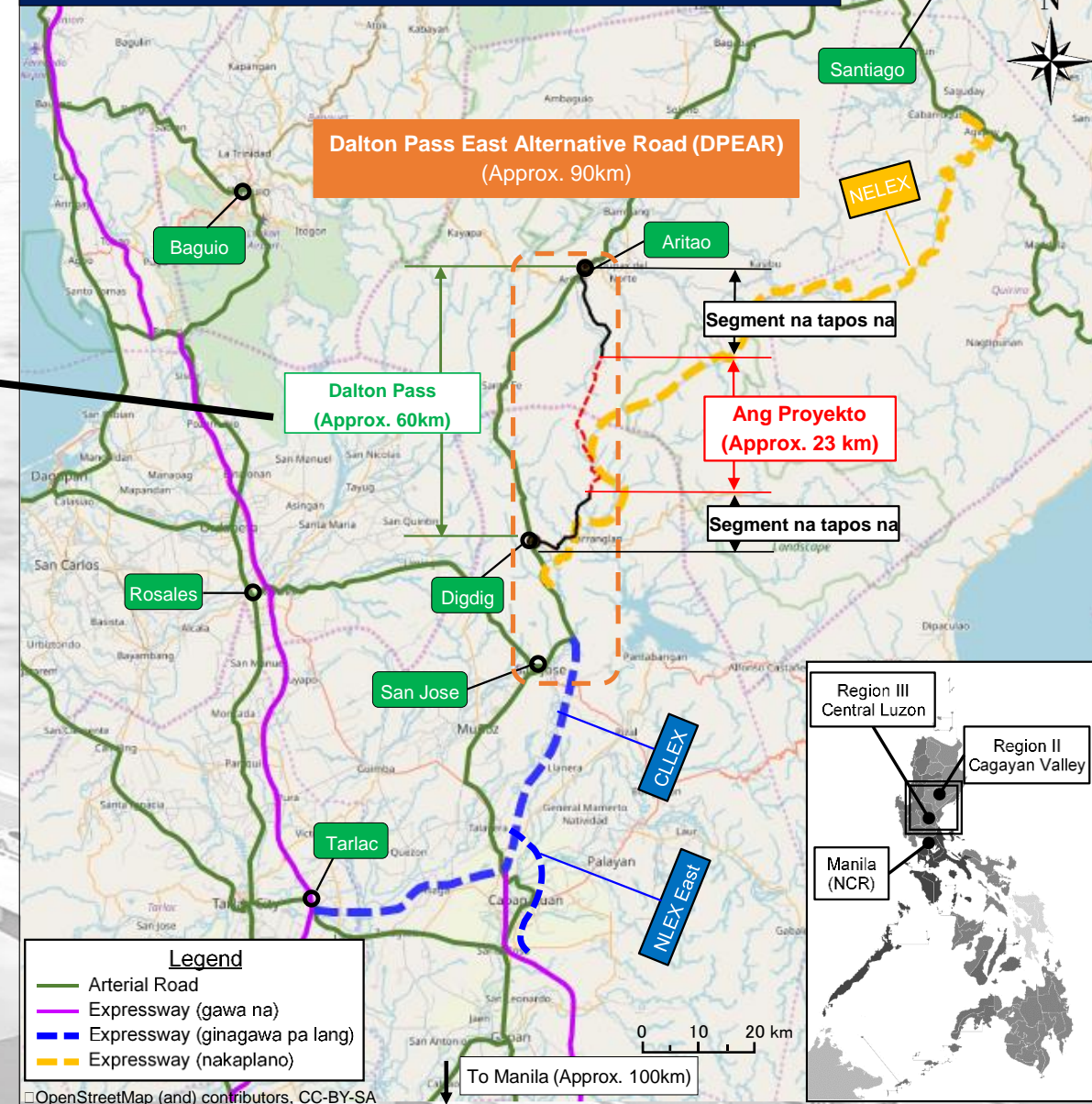
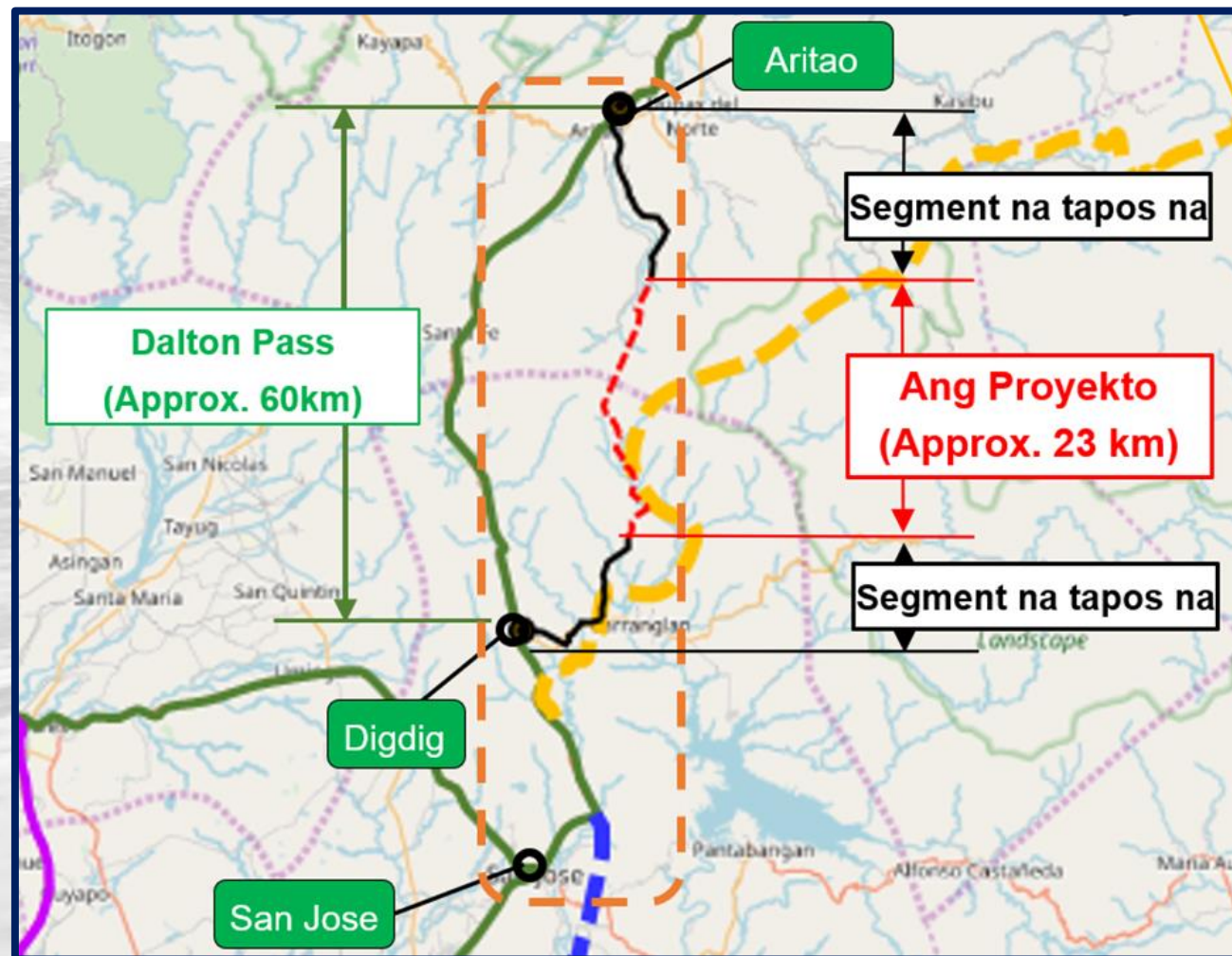


| Dalton Pass East Alternative Road Project



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CENTRAL NIPPON EXPRESSWAY CO., LTD.

Dalton Pass East Alternative Road(DPEAR) in the Philippines

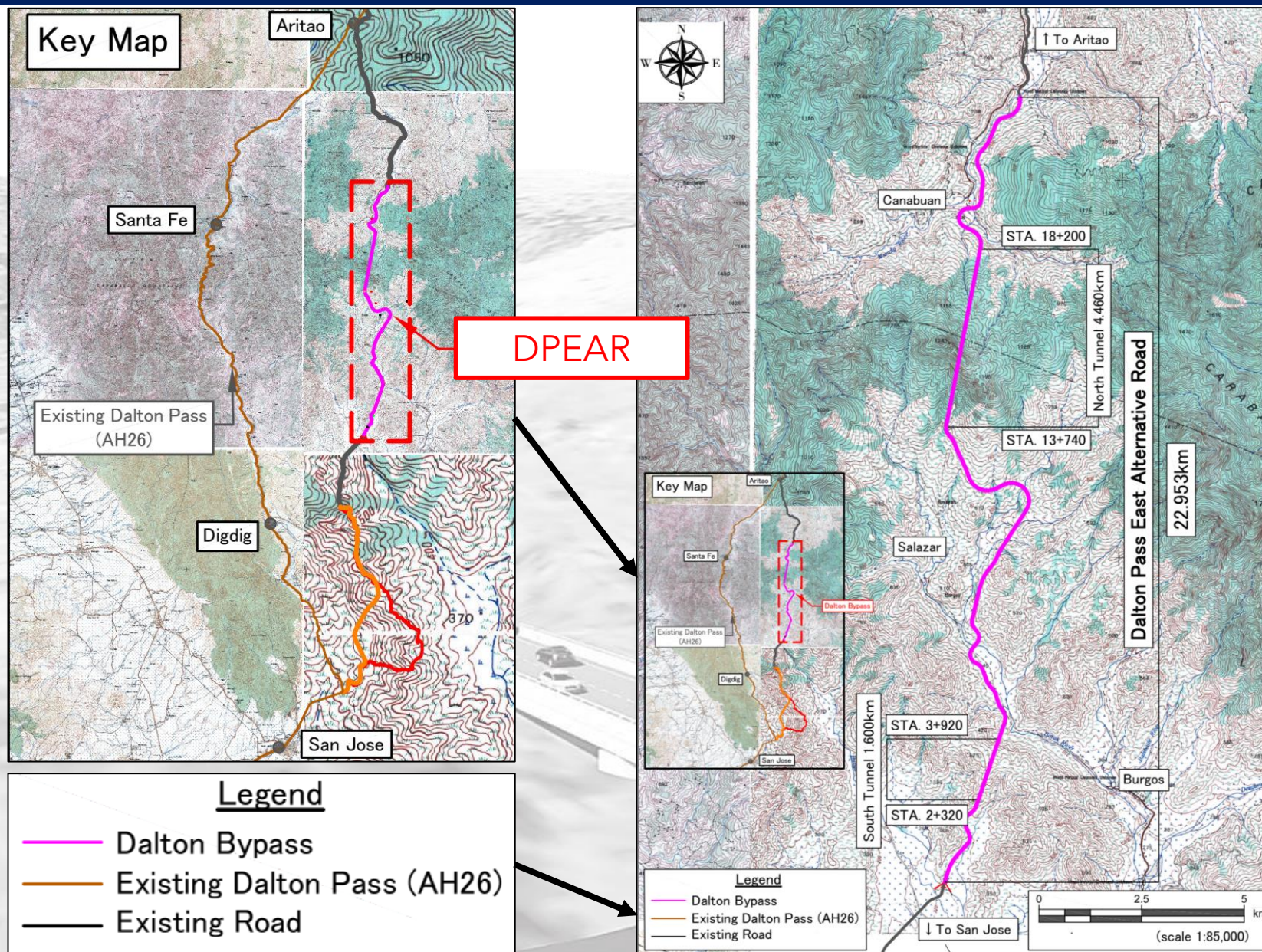




| Dalton Pass East Alternative Road Project



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NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.





Katangian ng DPEAR Project



Kabilang sa prayoridad na proyekto ng kasalukuyang Administrasyon



Official Development Assistance (ODA) Project ng Japan International Cooperation Agency (JICA)



Nabuo ang plano ng proyekto upang hindi maulit ang nangyari nuong 1990 Luzon Earthquake



20 beses na mas mahaba ang tunnel kesa sa Kaybiang Tunnel, kasalukuyang pinakamahabang *subterranean road tunnel*, na mayroong haba na 300 metro



Ilang bahagi ng proyekto ay pasok sa Pantabangan-Carranglan Watershed Forest Reserve (PCWFR)

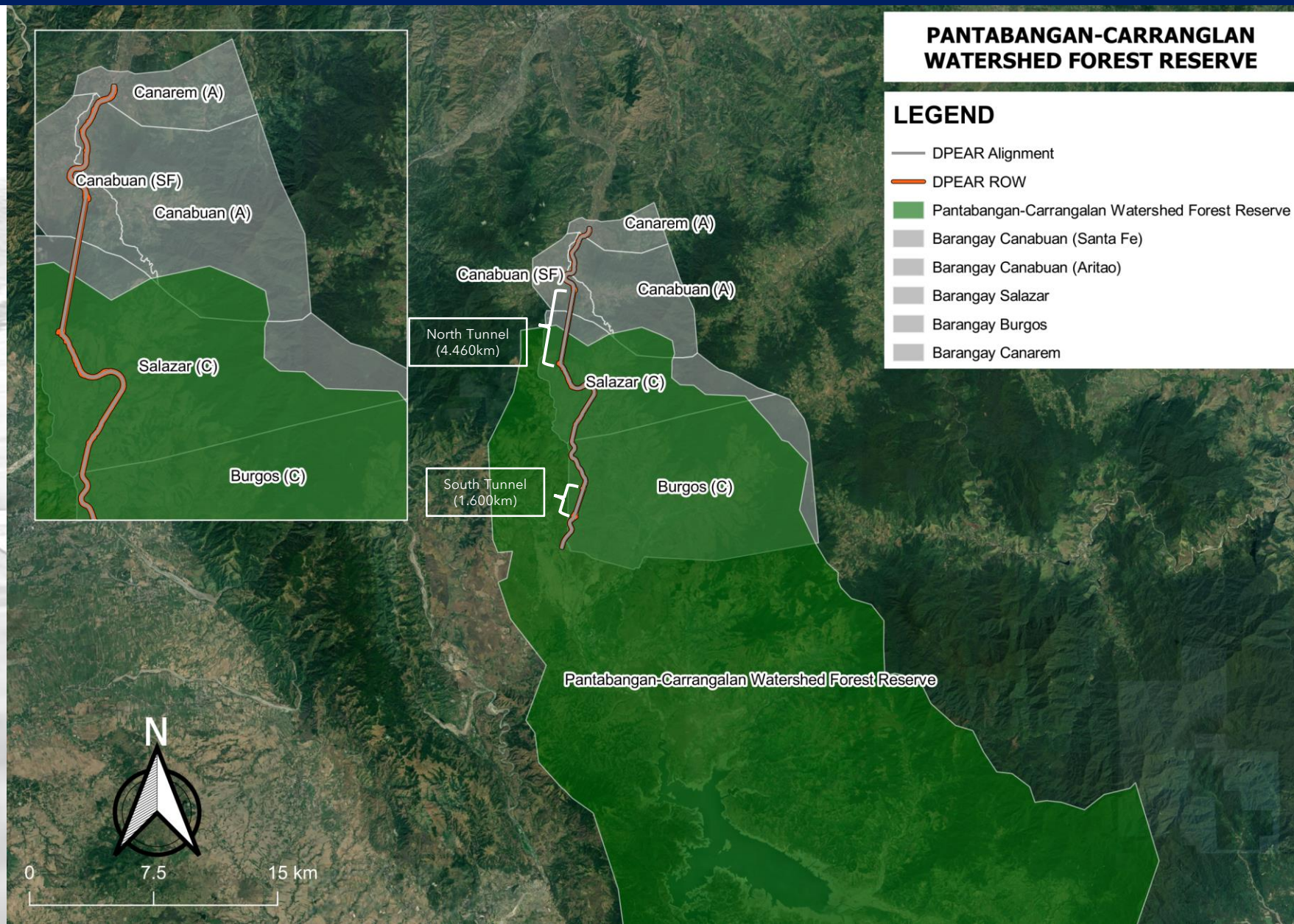


Ilang bahagi ng proyekto ay pasok sa 2 Ancestral Domains (ADs), at nakakuha na ng karampatang permiso (Certification Precondition) sa mga katutubo at NCIP



PCWFR

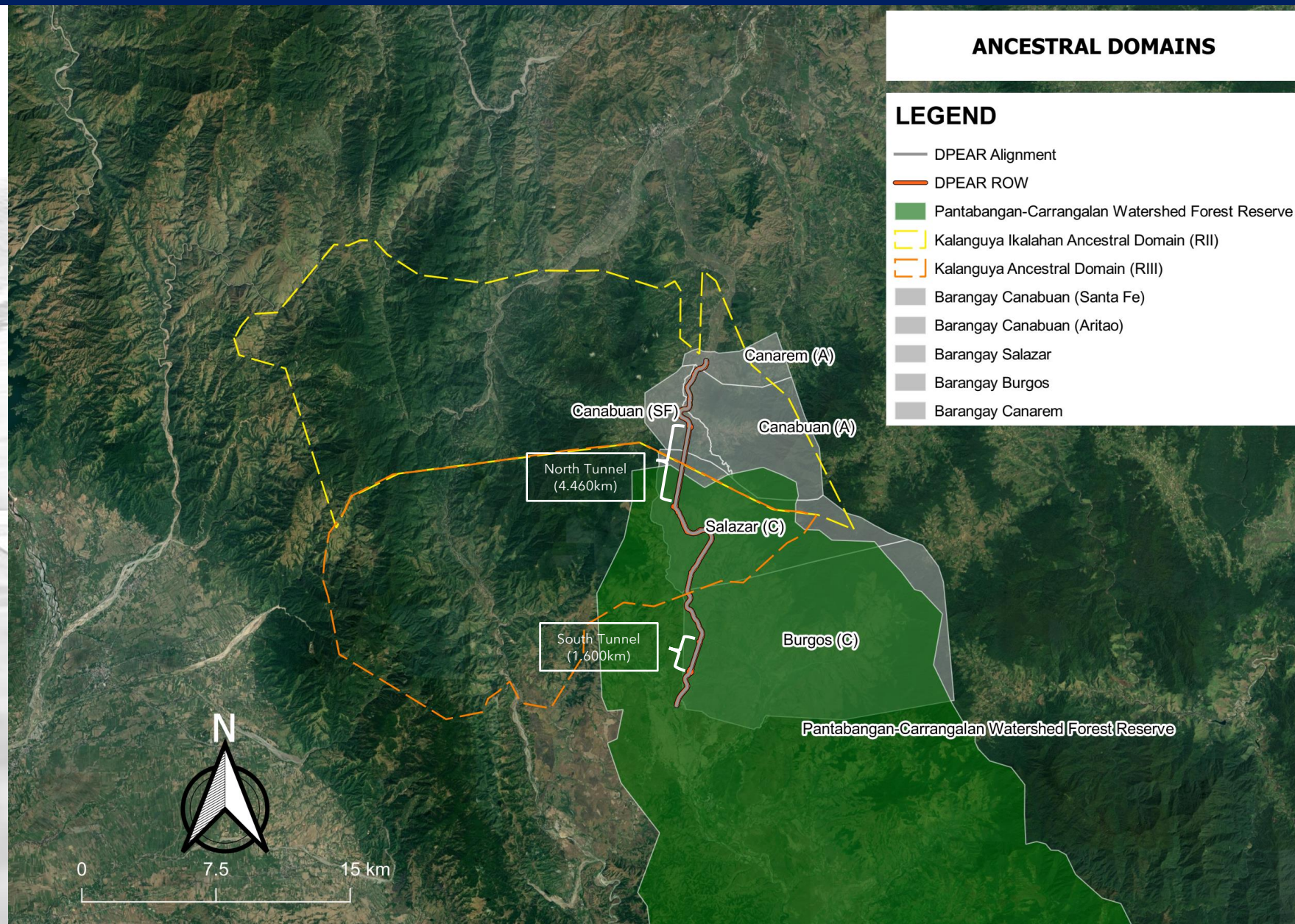
- Ang Pantabangan - Carranglan Watershed Forest Reserve ay isang protected area ayon sa Presidential Proclamation No. 561 taong 1969.
- Makikita sa mapa na may bahagi ng DPEAR ang papasok sa loob nito (Brgy. Burgos at Brgy. Salazar).
- Ang DPWH ay tuloy-tuloy na nakikipagugnayan sa DENR, PENRO/CENRO at PAMB para sa DPEAR.





Ancestral Domains

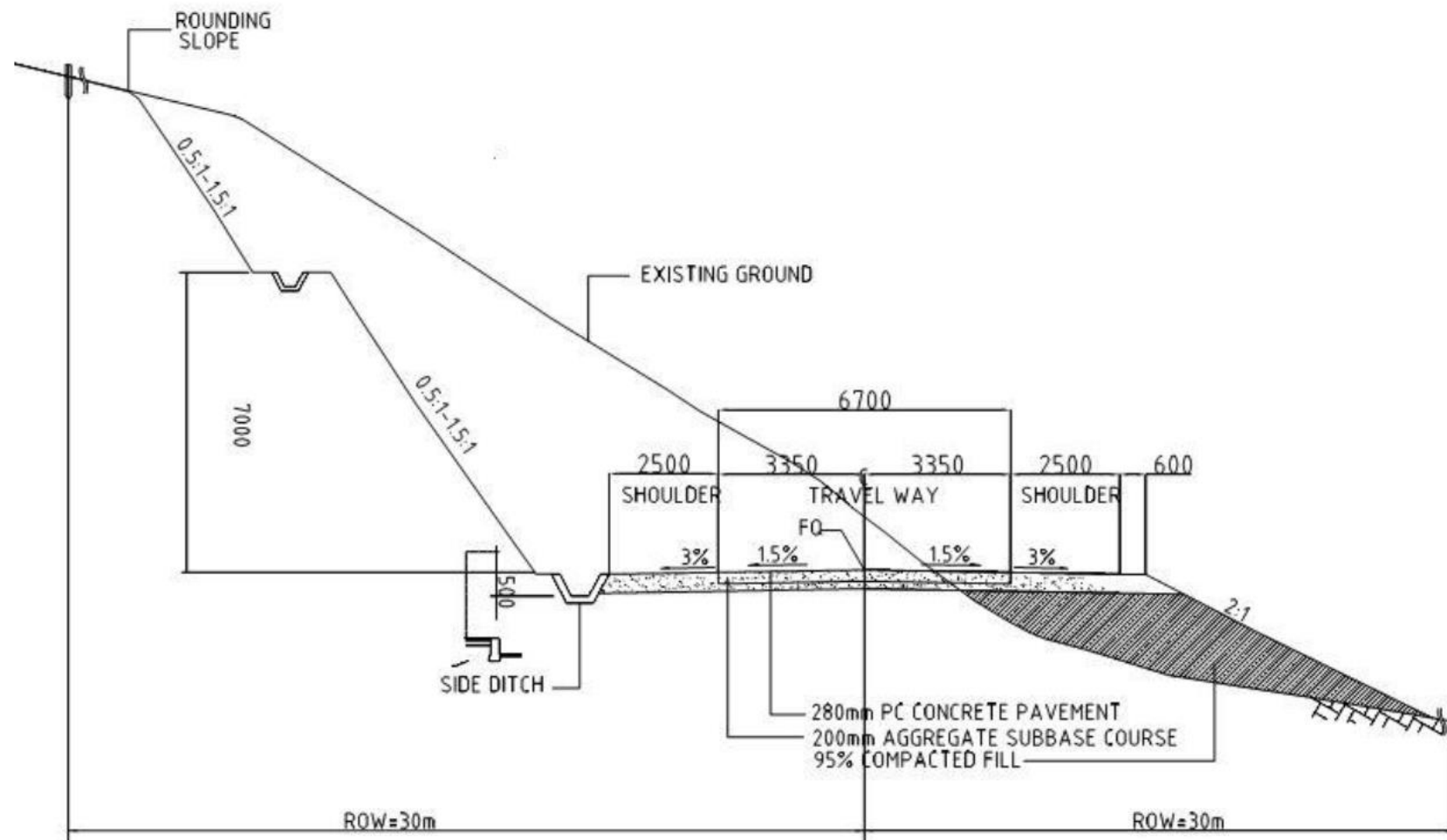
- Malaking bahagi ng DPEAR ay saklaw ng Ancestral Domains (AD) ng mga katutubo sa Nueva Ecija at Nueva Vizcaya.
- Nagkaroon ng pakikipag-ugnayan at kasunduan ang DPWH, kasama ang NCIP, sa mga katutubo sa pamamagitan ng pagsasagawa ng Free and Prior Informed Consent (FPIC) ayon sa RA No. 8371 o IPRA Law.





Kalsada

- Ang disenyo ay nakabase sa DPWH Design Guidelines, Criteria & Standards (DGCS), 2015.
- Ang right-of-way (ROW) ay may lapad na 60 metro.



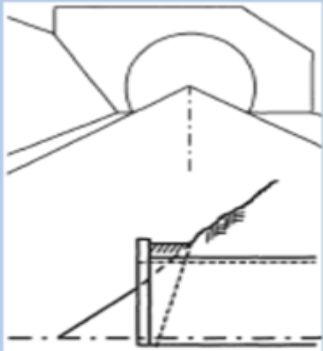
EARTH WORK SECTION



Tunnel

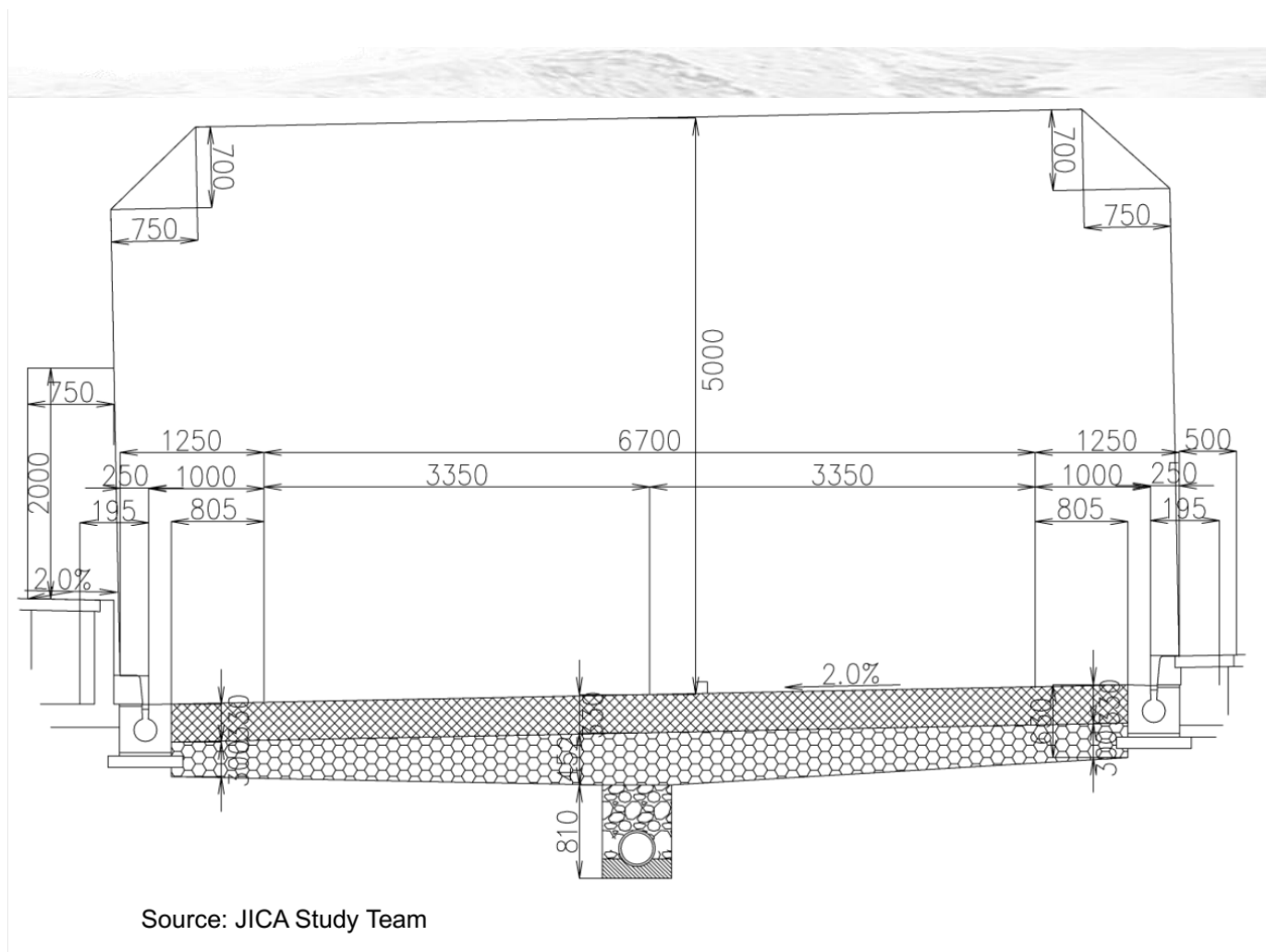
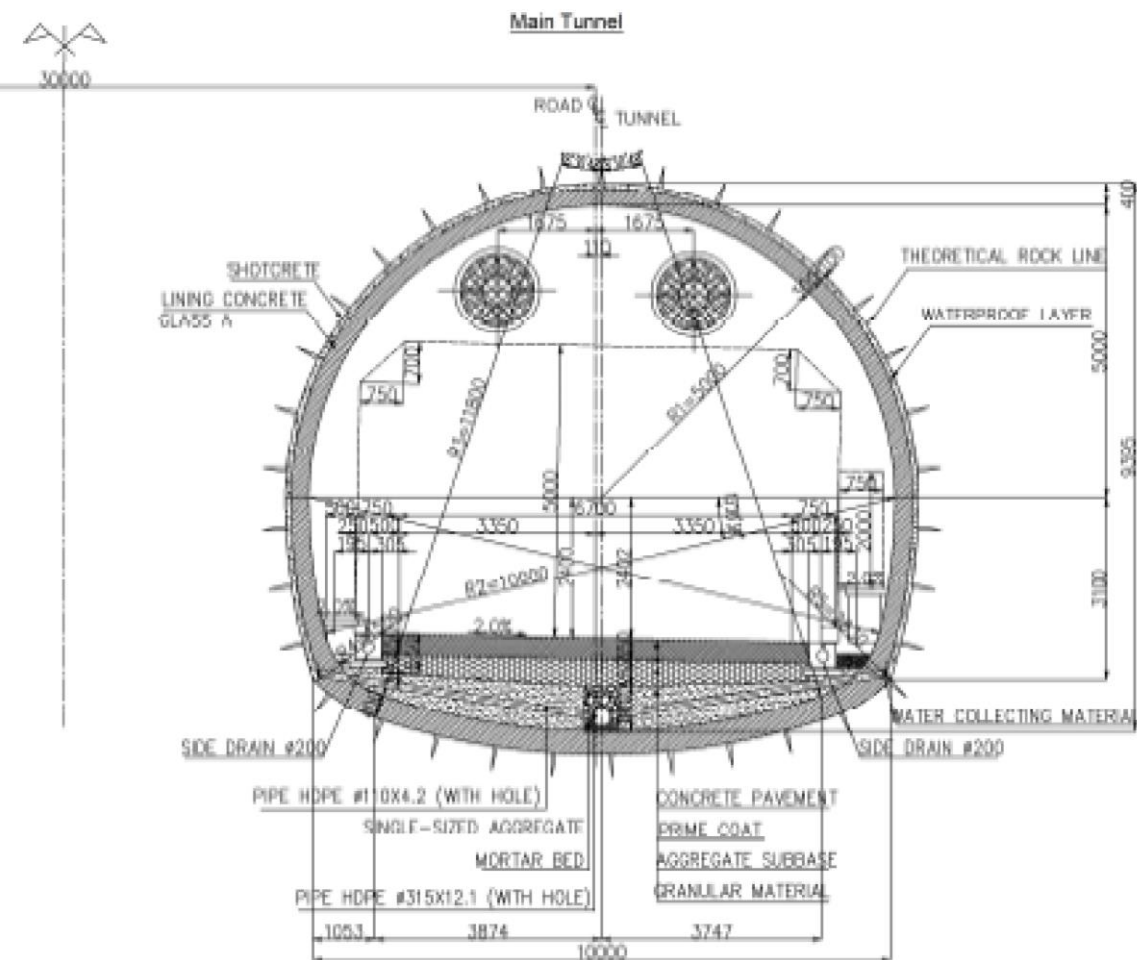
No.	Item	Description	Standard
1	Traffic and Number of tunnel tube	1 main tunnel of 2-way traffic and 1 evacuation tunnel.	Road Structure Ordinance (JP)
3	Lane width	3.35m	DGCS: Vol. 4 2015
4	Vertical clearance	5.0 m	DGCS: Vol. 4 2015, P. 3-81
5	Width of shoulder	1.25 m	DGCS: Vol. 4 2015, P. 3-65
6	Width of sidewalk	0.50 m	DGCS: Vol. 4 2015, P. 3-81
7	Width of maintenance walk	0.75 m	NEXCO standard
8	Height of maintenance walk	0.90 m	NEXCO standard
9	Maximum gradient	3.0%	Road Structure Ordinance (JP) 2004
10	Minimum gradient	0.5%	Road Structure Ordinance (JP) 2015
11	Vertical clearance of maintenance walk	2.00 m	NEXCO standard
12	Interval of emergency crossing passage for vehicle	375 m	Technical Standard for Road Tunnel (Structure Division)
13	Interval of emergency crossing passage for vehicle	750 m	Technical Standard for Road Tunnel (Structure Division)
14	Interval of emergency parking lane	375 m	Technical Standard for Road Tunnel (Structure Division)
15	Ventilation	Mechanical Jet-fan	Technical Standard for Road Tunnel (Ventilation Division)

Source: JICA Study Team

Type Item	Wall Type
	Wing Type
Shape	
Overview	Planned as an earth retaining wall by cutting the ground. Economical because tunnel length can be shortened. Adopted for most railway tunnels.
Ground conditions appropriate for application	<ul style="list-style-type: none"> - Comparatively steep topographic features where ground will be cut and portal will be constructed - Where an earth retaining wall or enlarged retaining wall will be constructed for an oblique type slope.
Meteorological conditions appropriate for application	- Few problems even when used in snowy areas.



Tunnel

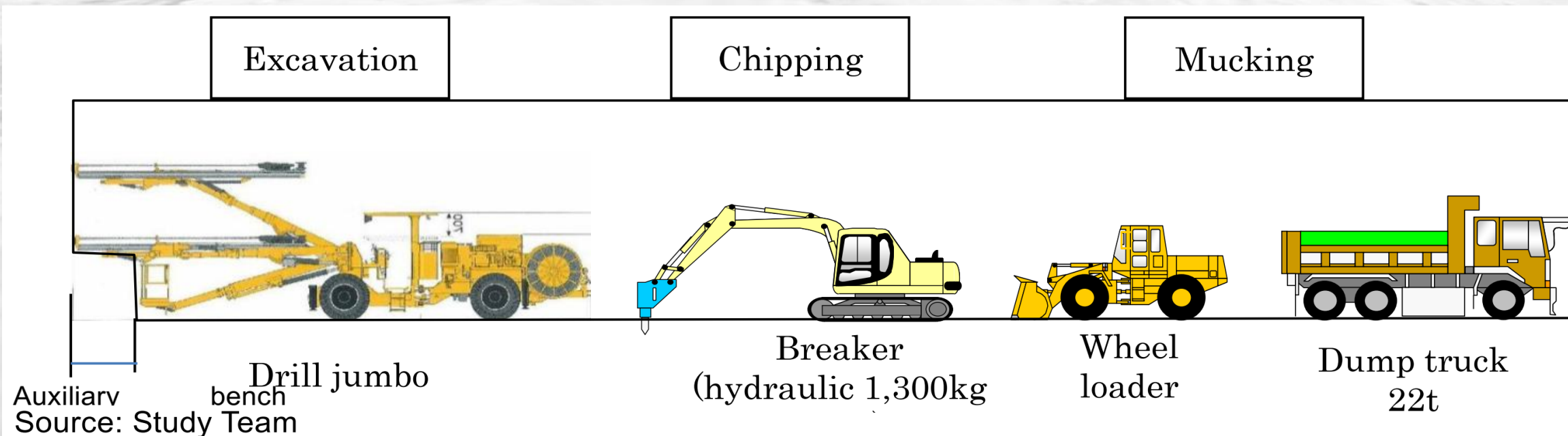


Source: JICA Study Team



Tunnel Construction Methodology

- Ang tunnel ay gagawin sa pamamagitan ng New Austrian Tunneling Method (NATM)



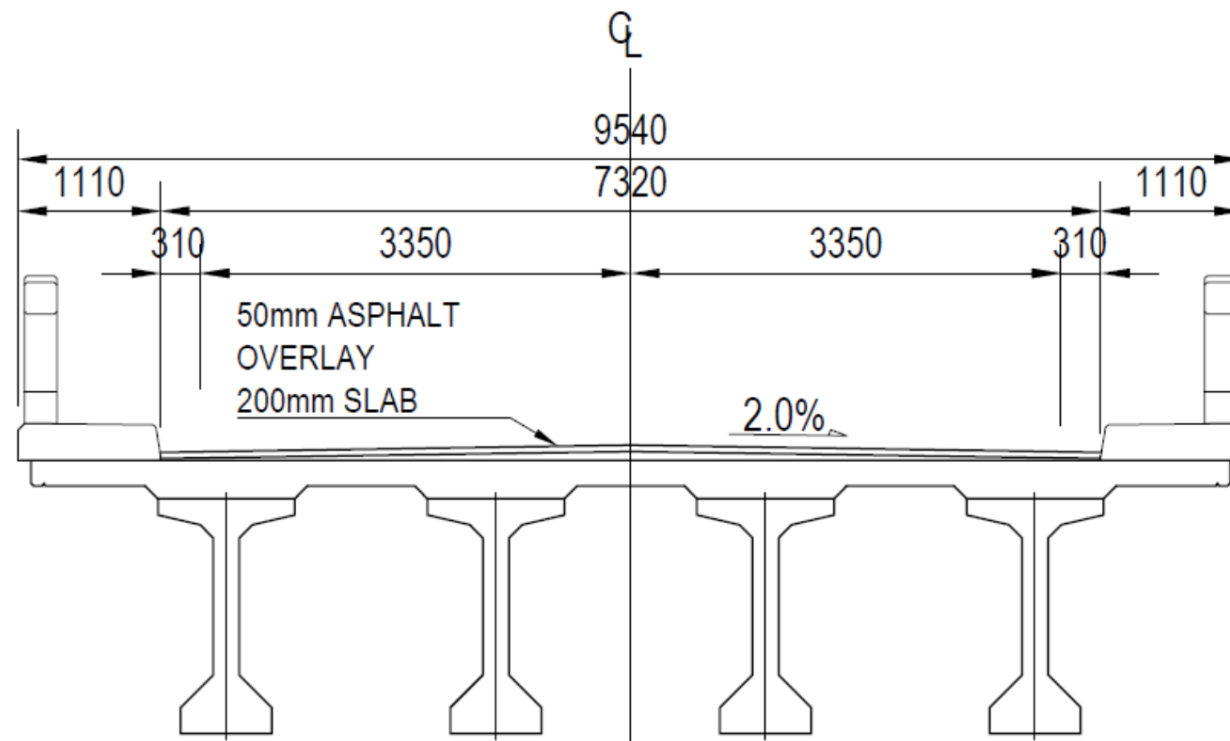


Tulay

No.	Technical Standard	Year
1	Design Guidelines, Criteria and Standards Volume V (DPWH)	2015
2	LRFD Bridge Seismic Design Specifications, 1st Edition, 2013 & Interim Revision 2019 (BSDS) (DPWH)	2019
3	LRFD Bridge Design Specifications 8th Edition (AASHTO)	2018
4	LRFD Bridge Construction Specifications 3rd Edition (AASHTO)	2016
5	Specifications for Highway Bridges (Japan Road Association)	2017

No.	Item		Value
1	Design Flood Level (DFL)	River	5m from riverbed
		Irrigation canal	5m from riverbed
2	Freeboard		1.5m
3	Construction Limit (Project Road)		5m

Source: JICA Study Team



Source JICA Study Team



Disposal Area

- Ang mga mahuhukay na lupa sa paggawa ng tunnel ay dadalhin sa mga nakatakdang disposal area.
- Maari ding magamit ang mga lupa bilang panambak sa paggawa ng kalsada.
- Ang mga disposal area ay ilalagay sa mga lupain malapit sa mga tunnel (North Tunnel at South Tunnel).

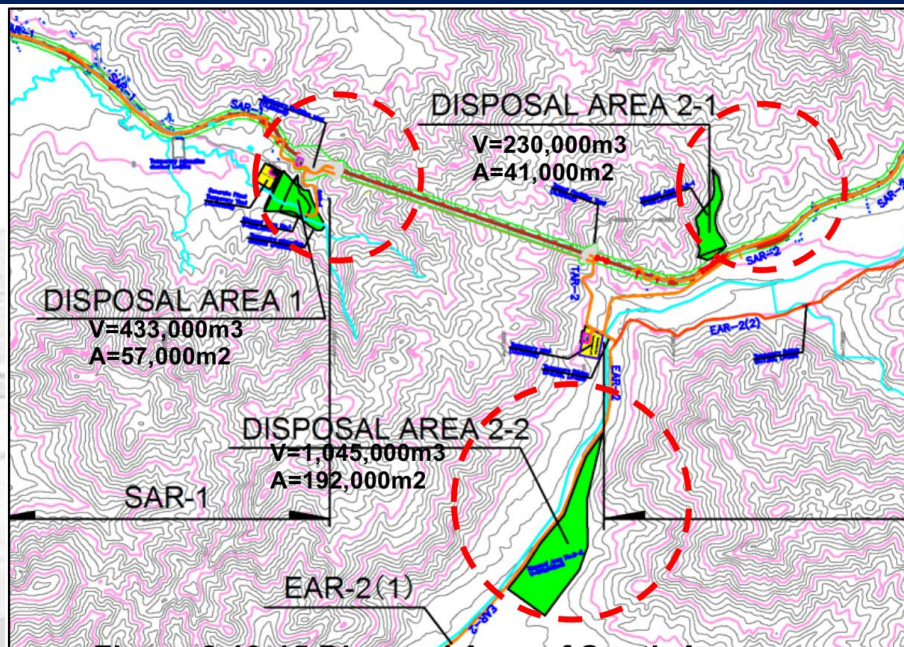
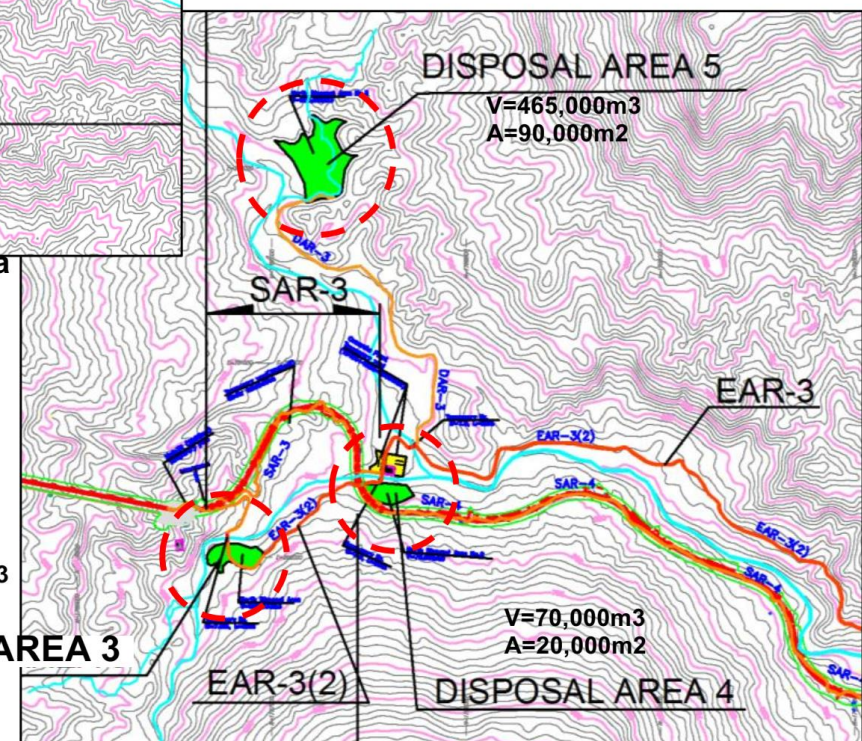


Figure 8.13-15 Disposal Area of South Area



Source: Study Team

Figure 8.13-16 Disposal Area of North Side

Selected Route	South area (m3)		North Area (m3)	
	No.1		No.3	
R3a	No.1	433,000	No.3	162,000
	No.2-1	230,000	No.4	70,000
	No.2-2	1,045,000	No.5	465,000
Total		1,708,000		697,000

Source: Study Team

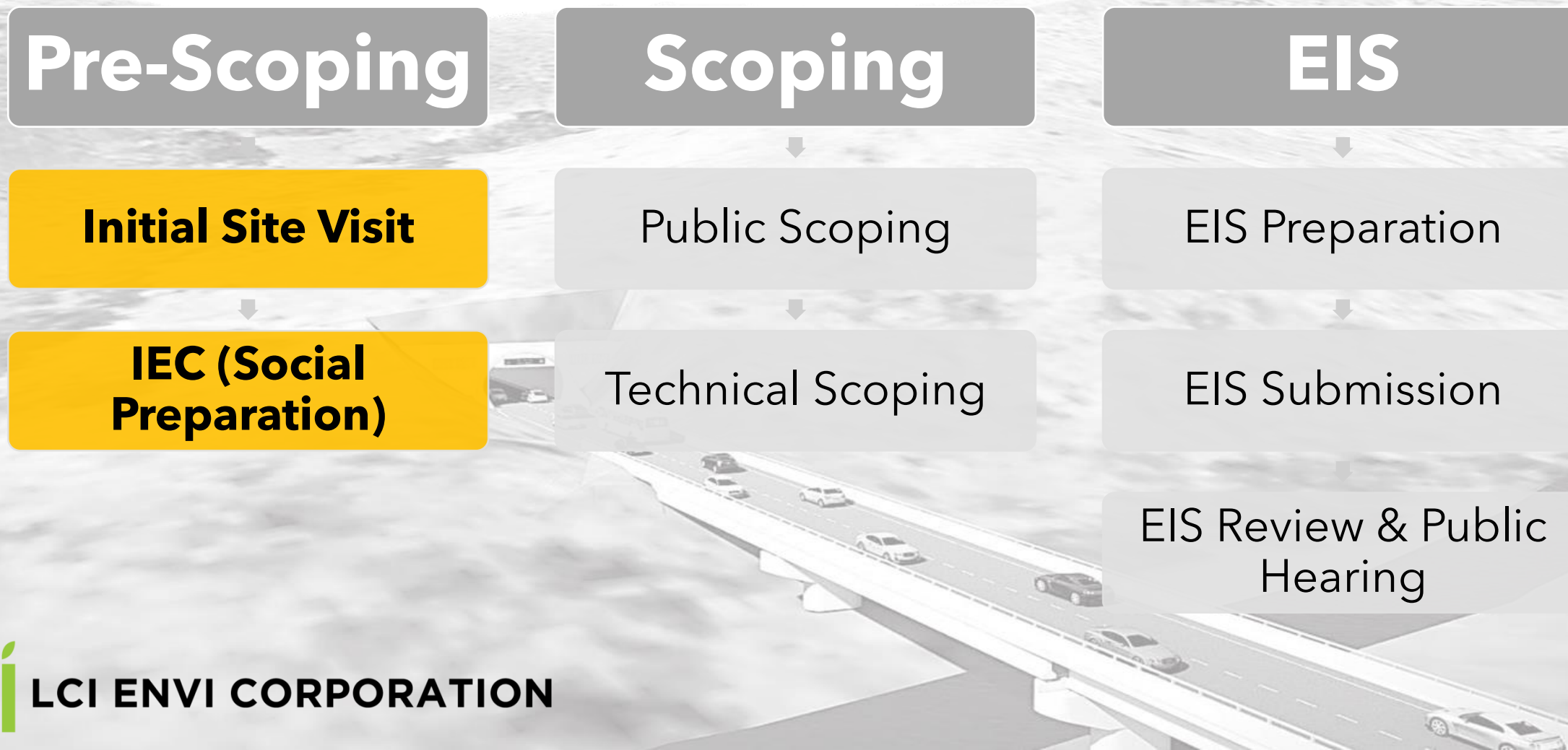


DPEAR Schedule

Project Phase	Timeframe
Preparation Phase (Mga Pag-aaral)	2019 to 2022
NEDA Approval	2022
Design Phase (Detalyadong Disenyo)	2023 to 2024
Construction (Konstruksyon)	3 rd Qtr. of 2025 to 2028
Operation (Operasyon at Maintenance)	2029 - onwards



Mga Gawain at Aktibidad para sa EIA (ECC Application Process)





Mga Gawain at Aktibidad para sa EIA



LAND

AERIAL SURVEY
SOIL SAMPLING
TERRESTRIAL
FLORA & FAUNA



WATER

WATER
SAMPLING



AIR

AIR & NOISE
SAMPLING
VIBRATION
MONITORING



PEOPLE

FOCUS GROUP
DISCUSSION
CONSULTATION
MEETINGS
PERCEPTION
SURVEY



Institutional Set-up ng DPEAR para sa mga Pag-aaral



DPWH UPMO
RMC-I (Bilateral)



JICA STUDY TEAM
(JV)

Environmental Impact
Assessment (EIA) &
Gender Analysis
(LCI Envi Corporation)

Resettlement Action Plan
(RAP)
(Earthus)

Indigenous Peoples Plan
(IPP)
(Consultant)



| Dalton Pass East Alternative Road Project



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NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

Malayang Talakayan





Para sa mga katanungan tungkol sa EIA, maaaring makipag-ugnayan sa mga sumusunod:



Department of Public Works and Highways
Roads Management Cluster I (Bilateral)
Unified Project Management Office

- **Email:** rmc1bupmodpwh@gmail.com
- **Telepono:** +63 (8) 304 3901



LCI ENVI CORPORATION

- **Email:** info@lci-envi.com
- **Telepono:** +63 (8) 442 2830



| Dalton Pass East Alternative Road Project



JOINT VENTURE OF NIPPON KOEI CO., LTD.,
KATAHIRA & ENGINEERS INTERNATIONAL,
NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

MARAMING SALAMAT PO!

Dalton Pass East Alternative Road Project

Date | 9:00am to 11:00am |

Municipal Hall





ATTENDANCE SHEET

ACTIVITY:	Information and Education Campaign (IEC)	VENUE:	Aritao Municipal Hall Aritao, Nueva Vizcaya
DATE:	30 June 2021	TIME:	9:00am to 11:00am

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
1	RONEL BULAN	MALE	ENGINEER III	DPWH - UPMO - PMCI (B)	09055128732		36.6
2	BILL PONCE	MALE	ENGINEER V	-do-	09194328163		36.5
3	BOHLELYN D. MANKULAN	F	OIC - MKU	Vill - Mankul	09361185544		
4	Beyani A. Lerosa	M	IPMR	S.B. Lerosa	09276185775		36.6
5	Joseph A. Copina	M	OIC - MENKO	LGU - Aritao	09656684802		36.4
6	Arlan B. Ponce	F	MSWO	LGU - Aritao	09576870165		36.5
7	Reynaldo J. Prang	M	P.B.	BLGU	09653161903		36.2
8	MARC O. GAYNAT		P.B.	BLGU	09152302093		36.2
9	Romeo Escalona	M	B.K	BLGU			36.2
10	Berniguo B. De Guzman	M	XEW		09361378308		
11	Janin Inguila	F	POI	MPDC			36.2
12	Annie Roso	F	MPDC	MPDC			36.2
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ATTENDANCE SHEET

ACTIVITY:	Information and Education Campaign (IEC)	VENUE:	Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya
DATE:	1 July 2021	TIME:	9:00am to 11:00am

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
1	Fannah C. Augay	F	Tourism Officer	LGU - MTPDO	09774445461		36.2
2	Thomas M. Pasos	F	MBO	LGU -			36.5
3	HENRY A. ANITA	Female	SWA	LGU			36.3
4	Mauricio S. Alfonso	F	Agri II	LGU			36.1
5	JOHN D. SIMON	MALE	MDRS	LGU - SANTA FE	09275480901		36.5
6	DIONISIO MIRAFLORES JR	M	ME	LGU	09171647274		36.7
7	RONEL BULAN	M	Engr. III / Jr. Proj. Engr.	DPWH FMCI (B) - UPMO	09055128732		36.5
8	BILL PONCE	M	ENGR V	- do -	0944328163		36.6
9	Albert Eugene	M	MA	LGU	09171591682		36.6
10	Ruben PINDOG	M	PHR	LGU - KALAHAN/Calanday	09067377046		36.6
11	Kennedy BAWYAN JR	M	MPDC	LGU SANTA FE	09773030966		36.6
12	Adong A. Benik	M	MAYOR	LGU	0917 107 7179		36.9
13							
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ATTENDANCE SHEET

ACTIVITY:	Information and Education Campaign (IEC)	VENUE:	Carranglan Municipal Hall Carranglan, Nueva Ecija
DATE:	2 July 2021	TIME:	9:00am to 11:00am

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
1	KRISHA L. SANTOS	F	PO	LEI ENVI CORP/ EIA team	0915990709		26.1
2	ARIEL M. PALONED	M	MPDC	LGU CARRANGLAN	09756100298		26.4
3	MAURICIO B. BALTAZAR	M	SBM	LGU "	09152962209		26.4
4	GREG S. AUSTIN	M	M.A	LGO - CARR. NB	0986511608		30.5
5	BERNARDO C. DE GUZMAN	M	MUN. ENGR.	LGU - CARRANGLAN	09178609275		36.3
6	RONEL BULAN	M	ENGR. III	DAWH RACI (B) - UPMO	09055128232		36.6
7	BILL PONCE	M	ENGR. V	-do-	09174328163		36.2
8	ANDRES P. BUCCASAN	M	P.B.	SALAZAR	09269629923		36.6
9	LORENA A. MINDANDA	F	SBM	LGU. CARR.	09057285781		35.1
10	AGNES B. RETOTAL	F	IPMR	Kalangaya/IP Ref Com.	09169090756		35.3
11	RICARDY O. MANUCAN	M	SBM	LGU	09169944878		36.4
12	ISAGAN F. ANDRES	M	SBM	LGU	09153082339		36.3
13	JACOB M. TEODORO	M	P.B.	LGU	09353027226		36.2
14	AGUILAR B. LUMAN	M	KGUP	LGU	09262870059		36.2
15	ADONA I. DUZA	F	Brgh Sec	L.G.U.	0925-57 1906		26.1
16	MELANIE V. MURPHY	F	Re-official	LGU			
17	MICHELLE G. JULIAN	F	MSDO	LGU	0935499422		
18							
19							
20							
21							
22							
23							
24							
25							

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong “**DALTON PASS EAST ALTERNATIVE ROAD PROJECT**” ng

Department of Public Works and Highways

Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN			
	<i>Kalye</i>	<i>Purok</i>	<i>Barangay</i>
1.PANGALAN (opsyonal)			
2.KASARIAN	<input type="checkbox"/> Lalaki	<input type="checkbox"/> Babae	EDAD <input type="text"/>
3.ORGANISASYON			
4.POSISYON			
5.KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo		
6.RELIHIYON	<input type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input type="checkbox"/> Iba pa: <input type="checkbox"/> Born Again Christian <input type="checkbox"/> Seventh Day Adventist		
7.EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementary <input type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input type="checkbox"/> Kolehiyo <input type="checkbox"/> Bokasyonal		
8.TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <input type="checkbox"/> 5 – 10 taon <input type="checkbox"/> Higit pa sa 10 taon		
9.TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input type="checkbox"/> Government Employee <i>Uri ng negosyo:</i> <input type="checkbox"/> Private Employee _____ <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangingisda		
10.BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP		

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel inyong lugar?	<input type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input type="checkbox"/> Pulong tungkol sa proyekto <input type="checkbox"/> Proponent ng proyekto (DPWH) <input type="checkbox"/> Ahensya ng gobyerno Tukuyin: _____ <input type="checkbox"/> Iba pa: _____	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input type="checkbox"/> Oo <input type="checkbox"/> Hindi <input type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa: _____	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input type="checkbox"/> Karagdagan trabaho <input type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input type="checkbox"/> Kaghinhawaan sa paglalakbay <input type="checkbox"/> Karagdagang buwis sa mga barangay at local na pamahalaan <input type="checkbox"/> Iba pa: _____	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input type="checkbox"/> Polusyon sa hangin <input type="checkbox"/> Ingay sa paligid <input type="checkbox"/> Polusyon sa tubig <input type="checkbox"/> Polusyon sa lupa <input type="checkbox"/> Karagdagang basura <input type="checkbox"/> Karagdagang trapiko <input type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input type="checkbox"/> Pag-iwas sa polusyon <input type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input type="checkbox"/> Iba pa: _____	

MARAMING SALAMAT PO!

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong "**Dalton Pass East Alternative Road Project**" ng
Department of Public Works and Highways
Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN	Dinal GT. T. L. Padilla		
	Kalye	Purok	Barangay
1. PANGALAN (opsyonal)	MPDO		
2. KASARIAN	<input checked="" type="checkbox"/> Lalaki <input type="checkbox"/> Babae	EDAD	
3. ORGANISASYON	LGU Carranglan		
4. POSISYON			
5. KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo		
6. RELIHIYON	<input checked="" type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input type="checkbox"/> Iba pa: <input type="checkbox"/> Born Again Christian <input type="checkbox"/> Seventh Day Adventist		
7. EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementarya <input type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> Kolehiyo <input type="checkbox"/> Bokasyonal		
8. TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <input type="checkbox"/> 5 – 10 taon <input checked="" type="checkbox"/> Higit pa sa 10 taon		
9. TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input checked="" type="checkbox"/> Government Employee <i>Uri ng negosyo:</i> <input type="checkbox"/> Private Employee <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangingisda		
10. BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input checked="" type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP		

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel sa inyong lugar?	<input checked="" type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input type="checkbox"/> Pulong tungkol sa proyekto <input checked="" type="checkbox"/> Proponent ng proyekto (DPWH) <input type="checkbox"/> Ahensya ng gobyerno Tukuyin: _____ <input type="checkbox"/> Iba pa: _____	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input type="checkbox"/> Oo <input type="checkbox"/> Hindi <input checked="" type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa: _____	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input type="checkbox"/> Karagdagan trabaho <input checked="" type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input checked="" type="checkbox"/> Kaghinhawaan sa paglalakbay <input type="checkbox"/> Karagdagang buwis sa mga barangay at munisipyo <input type="checkbox"/> Iba pa: _____	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input checked="" type="checkbox"/> Polusyon sa hangin <input checked="" type="checkbox"/> Ingay sa paligid <input type="checkbox"/> Polusyon sa tubig <input type="checkbox"/> Polusyon sa lupa <input checked="" type="checkbox"/> Karagdagang basura <input checked="" type="checkbox"/> Karagdagang trapiko <input checked="" type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input checked="" type="checkbox"/> Pag-iwas sa polusyon <input checked="" type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input checked="" type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input type="checkbox"/> Iba pa: _____	

MARAMING SALAMAT PO!

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong "Dalton Pass East Alternative Road Project" ng
Department of Public Works and Highways
Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN	SO-CAMAWINIAN		Minuli	
	Kalye	Purok	Barangay	
1. PANGALAN (opsyonal)	AGNES B. RETOTAL			
2. KASARIAN	<input type="checkbox"/> Lalaki	<input checked="" type="checkbox"/> Babae	EDAD	52
3. ORGANISASYON				
4. POSISYON	IPMR			
5. KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo			
6. RELIHIYON	<input type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input checked="" type="checkbox"/> Iba pa: <input type="checkbox"/> Born Again Christian BAPTIST <input type="checkbox"/> Seventh Day Adventist			
7. EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementarya <input type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input type="checkbox"/> Kolehiyo <input checked="" type="checkbox"/> Bokasyonal			
8. TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <input type="checkbox"/> 5 – 10 taon <input checked="" type="checkbox"/> Higit pa sa 10 taon			
9. TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input checked="" type="checkbox"/> Government Employee Uri ng negosyo: <input type="checkbox"/> Private Employee <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangingisda			
10. BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input checked="" type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP			

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel sa inyong lugar?	<input checked="" type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input type="checkbox"/> Pulong tungkol sa proyekto <input checked="" type="checkbox"/> Proponent ng proyekto (DPWH) <input type="checkbox"/> Ahensya ng gobyerno Tukuyin: _____ <input type="checkbox"/> Iba pa: _____	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input checked="" type="checkbox"/> Oo <input type="checkbox"/> Hindi <input type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa: _____	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input checked="" type="checkbox"/> Karagdagan trabaho <input checked="" type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input checked="" type="checkbox"/> Kaghinhawaan sa paglalakbay <input checked="" type="checkbox"/> Karagdagang buwis sa mga barangay at munisipyo <input type="checkbox"/> Iba pa: _____	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input checked="" type="checkbox"/> Polusyon sa hangin <input checked="" type="checkbox"/> Ingay sa paligid <input checked="" type="checkbox"/> Polusyon sa tubig <input type="checkbox"/> Polusyon sa lupa <input checked="" type="checkbox"/> Karagdagang basura <input type="checkbox"/> Karagdagang trapiko <input checked="" type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input checked="" type="checkbox"/> Pag-iwas sa polusyon <input checked="" type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input checked="" type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input type="checkbox"/> Iba pa: _____	

MARAMING SALAMAT PO!

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong "**Dalton Pass East Alternative Road Project**" ng

Department of Public Works and Highways

Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN	NATIONAL RD., ORCHIDS, TACTAC		
	Kalye	Purok	Barangay
1.PANGALAN (opsyonal)	DIONISIO P. M. JAMES JR.		
2.KASARIAN	<input checked="" type="checkbox"/> Lalaki	<input type="checkbox"/> Babae	EDAD
3.ORGANISASYON	LGU		
4.POSISYON	ME		
5.KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo		
6.RELIHIYON	<input checked="" type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input type="checkbox"/> Iba pa: <input type="checkbox"/> Born Again Christian <input type="checkbox"/> Seventh Day Adventist		
7.EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementarya <input type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> Kolehiyo <input type="checkbox"/> Bokasyonal		
8.TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <input type="checkbox"/> 5 – 10 taon <input checked="" type="checkbox"/> Higit pa sa 10 taon		
9.TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input checked="" type="checkbox"/> Government Employee <i>Uri ng negosyo:</i> <input type="checkbox"/> Private Employee <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangingisda		
10.BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input checked="" type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP		

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel sa inyong lugar?	<input checked="" type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input type="checkbox"/> Pulong tungkol sa proyekto <input checked="" type="checkbox"/> Proponent ng proyekto (DPWH) <input type="checkbox"/> Ahensya ng gobyerno Tukuyin: _____ <input type="checkbox"/> Iba pa: _____	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input checked="" type="checkbox"/> Oo <input type="checkbox"/> Hindi <input type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa: _____	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input type="checkbox"/> Karagdagan trabaho <input type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input checked="" type="checkbox"/> Kaginhawaan sa paglalakbay <input type="checkbox"/> Karagdagang buwis sa mga barangay at munisipyo <input type="checkbox"/> Iba pa: _____	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input type="checkbox"/> Polusyon sa hangin <input type="checkbox"/> Ingay sa paligid <input type="checkbox"/> Polusyon sa tubig <input type="checkbox"/> Polusyon sa lupa <input checked="" type="checkbox"/> Karagdagang basura <input type="checkbox"/> Karagdagang trapiko <input type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input type="checkbox"/> Pag-iwas sa polusyon <input type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input checked="" type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input type="checkbox"/> Iba pa: _____	

MARAMING SALAMAT PO!

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong **"Dalton Pass East Alternative Road Project"** ng
 Department of Public Works and Highways
 Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN	<i>Purok 5</i> Kalye Purok	<i>Poblacion</i> Barangay
1.PANGALAN (opsyonal)	<i>Famiah C. Dugay</i>	
2.KASARIAN	<input type="checkbox"/> Lalaki <input checked="" type="checkbox"/> Babae	EDAD
3.ORGANISASYON	<i>LCM Santa Fe</i>	
4.POSISYON	<i>Tourism Officer (MTPDO)</i>	
5.KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo	
6.RELIHIYON	<input type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input type="checkbox"/> Iba pa: <input type="checkbox"/> Born Again Christian <i>Methodist</i> <input type="checkbox"/> Seventh Day Adventist	
7.EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementarya <input checked="" type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input type="checkbox"/> Kolehiyo <input type="checkbox"/> Bokasyonal	
8.TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <input type="checkbox"/> 5 – 10 taon <input checked="" type="checkbox"/> Higit pa sa 10 taon	
9.TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input checked="" type="checkbox"/> Government Employee <i>Uri ng negosyo:</i> <input type="checkbox"/> Private Employee <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangingisda	
10.BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input checked="" type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP	

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel sa inyong lugar?	<input checked="" type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input type="checkbox"/> Pulong tungkol sa proyekto <input type="checkbox"/> Proponent ng proyekto (DPWH) <input checked="" type="checkbox"/> Ahensya ng gobyerno Tukuyin: <u>MLGU</u> <input type="checkbox"/> Iba pa:	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input checked="" type="checkbox"/> Oo <input type="checkbox"/> Hindi <input type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa:	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input checked="" type="checkbox"/> Karagdagan trabaho <input checked="" type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input checked="" type="checkbox"/> Kaghinhawaan sa paglalakbay <input checked="" type="checkbox"/> Karagdagang buwis sa mga barangay at munisipyo <input checked="" type="checkbox"/> Iba pa:	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input type="checkbox"/> Polusyon sa hangin <input type="checkbox"/> Ingay sa paligid <input checked="" type="checkbox"/> Polusyon sa tubig <input checked="" type="checkbox"/> Polusyon sa lupa <input type="checkbox"/> Karagdagang basura <input type="checkbox"/> Karagdagang trapiko <input type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input checked="" type="checkbox"/> Pag-iwas sa polusyon <input checked="" type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input checked="" type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input checked="" type="checkbox"/> Iba pa:	

MARAMING SALAMAT PO!

Itaas pa ang standard ng paggawa ng proyekto para hindi lang nito masasolusyunan o tutugunan ang transportasyon — kundi maipagmulek din ratin sa Turismo ng Bayan.

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong "Dalton Pass East Alternative Road Project" ng
Department of Public Works and Highways
Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN	<i>Juan Luna St., Bayad, Poblacion</i>		
	<i>Kalye</i>	<i>Purok</i>	<i>Barangay</i>
1.PANGALAN (opsyonal)	<i>BAYANI A-LARAGA</i>		
2.KASARIAN	<input checked="" type="checkbox"/> Lalaki	<input type="checkbox"/> Babae	EDAD
3.ORGANISASYON	<i>Municipal Federation of Indigenous Peoples</i>		
4.POSISYON	<i>Vice-President</i>		
5.KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo		
6.RELIHIYON	<input checked="" type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input type="checkbox"/> Iba pa: <input type="checkbox"/> Born Again Christian <input type="checkbox"/> Seventh Day Adventist		
7.EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementarya <input type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> Kolehiyo <input type="checkbox"/> Bokasyonal		
8.TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <i>77 taon</i> <input type="checkbox"/> 5 – 10 taon <input type="checkbox"/> Higit pa sa 10 taon		
9.TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input type="checkbox"/> Government Employee <i>Uri ng negosyo:</i> <input type="checkbox"/> Private Employee <i>IPMA (municipal)</i> <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangangisda		
10.BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input checked="" type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP		

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel sa inyong lugar?	<input checked="" type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input checked="" type="checkbox"/> Pulong tungkol sa proyekto <input type="checkbox"/> Proponent ng proyekto (DPWH) <input type="checkbox"/> Ahensya ng gobyerno Tukuyin: _____ <input type="checkbox"/> Iba pa: _____	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input checked="" type="checkbox"/> Oo <input type="checkbox"/> Hindi <input type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa: _____	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input type="checkbox"/> Karagdagan trabaho <input type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input checked="" type="checkbox"/> Kaghinhawaan sa paglalakbay <input type="checkbox"/> Karagdagang buwis sa mga barangay at munisipyo <input type="checkbox"/> Iba pa: _____	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input type="checkbox"/> Polusyon sa hangin <input type="checkbox"/> Ingay sa paligid <input type="checkbox"/> Polusyon sa tubig <input type="checkbox"/> Polusyon sa lupa <input type="checkbox"/> Karagdagang basura <input type="checkbox"/> Karagdagang trapiko <input checked="" type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input type="checkbox"/> Pag-iwas sa polusyon <input type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input checked="" type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input type="checkbox"/> Iba pa: _____	

MARAMING SALAMAT PO!

CONTROL NO.:	
DATE:	
TIME:	

INITIAL PERCEPTION SURVEY

Proyektong "Dalton Pass East Alternative Road Project" ng
Department of Public Works and Highways
Mga Probinsya ng Nueva Vizcaya at Nueva Ecija

IMPORMASYON TUNGKOL SA RESPONDENT

TIRAHAN	<div style="text-align: right;">Comon, Ariz, N.V.</div> <div> <div>Kalye</div> <div>Purok</div> <div>Barangay</div> </div>		
1. PANGALAN (opsyonal)	Joseph A. Copina		
2. KASARIAN	<input checked="" type="checkbox"/> Lalaki <input type="checkbox"/> Babae	EDAD	
3. ORGANISASYON	MENRO/PLENRO		
4. POSISYON	OIC - MENRO		
5. KALAGAYANG SIBIL	<input type="checkbox"/> Walang Asawa <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> May Asawa <input type="checkbox"/> Hiwalay sa Asawa <input type="checkbox"/> Balo		
6. RELIHIYON	<input type="checkbox"/> Katoliko <input type="checkbox"/> Iglesia Ni Cristo <input type="checkbox"/> Islam <input type="checkbox"/> Iba pa: <input checked="" type="checkbox"/> Born Again Christian <input type="checkbox"/> Seventh Day Adventist		
7. EDUKASYON (pinakamataas na naabot)	<input type="checkbox"/> Elementarya <input checked="" type="checkbox"/> Post-Graduate <input type="checkbox"/> Hayskul <input type="checkbox"/> Iba pa: <input type="checkbox"/> Kolehiyo <input type="checkbox"/> Bokasyonal		
8. TAGAL NG PANINIRAHAN SA BARANGAY	<input type="checkbox"/> 1 – 2 taon <input type="checkbox"/> Iba pa: <input type="checkbox"/> 3 – 4 taon <input type="checkbox"/> 5 – 10 taon <input checked="" type="checkbox"/> Higit pa sa 10 taon		
9. TRABAHO O PANGKABUHAYAN	<input type="checkbox"/> Barangay Official <input type="checkbox"/> Sariling Negosyo <input checked="" type="checkbox"/> Government Employee <div>Uri ng negosyo:</div> <input type="checkbox"/> Private Employee <input type="checkbox"/> Laborer/Contractor <input type="checkbox"/> Iba pa: <input type="checkbox"/> Tricycle/Jeepney Driver <input type="checkbox"/> Magsasaka <input type="checkbox"/> Mangingisda		
10. BUWANANG KITA	<input type="checkbox"/> 0 – 5,000 PHP <input type="checkbox"/> 15,001 – 20,000 PHP <input type="checkbox"/> 5,001 – 10,000 PHP <input checked="" type="checkbox"/> Higit pa sa 20,000 PHP <input type="checkbox"/> 10,001 – 15,000 PHP		

(MAGPATULOY SA SUSUNOD NA PAHINA)

KAALAMAN AT PANANAW TUNGKOL SA PROYEKTO

11	Alam ba ninyo na may planong gumawa ng isang kalsada na may tunnel sa inyong lugar?	<input checked="" type="checkbox"/> Oo	<input type="checkbox"/> Hindi (Lumaktaw sa 13)
12	Kung oo, saan ninyo nakuha ang kaalaman tungkol sa nabanggit na proyekto?	<input type="checkbox"/> Opisyal ng barangay/munisipyo <input checked="" type="checkbox"/> Pulong tungkol sa proyekto <input type="checkbox"/> Proponent ng proyekto (DPWH) <input type="checkbox"/> Ahensya ng gobyerno Tukuyin: _____ <input type="checkbox"/> Iba pa: _____	
13	Sa inyong palagay, makabubuti ba ang proyektong ito sa inyong pamayanan?	<input checked="" type="checkbox"/> Oo <input type="checkbox"/> Hindi <input type="checkbox"/> Hindi ko pa alam sa ngayon <input type="checkbox"/> Iba pa: _____	
14	Sa inyong palagay, anu-ano ang positibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan	<input checked="" type="checkbox"/> Karagdagan trabaho <input checked="" type="checkbox"/> Oportunidad sa mga negosyo sa mga barangay <input checked="" type="checkbox"/> Kaghinhawaan sa paglalakbay <input type="checkbox"/> Karagdagang buwis sa mga barangay at munisipyo <input type="checkbox"/> Iba pa: _____	
15	Sa inyong palagay, anu-ano ang negatibong bagay ang maidudulot ng proyektong ito sa inyo, sa inyong pamayanan, at sa kalikasan?	<input type="checkbox"/> Polusyon sa hangin <input type="checkbox"/> Ingay sa paligid <input type="checkbox"/> Polusyon sa tubig <input type="checkbox"/> Polusyon sa lupa <input type="checkbox"/> Karagdagang basura <input type="checkbox"/> Karagdagang trapiko <input checked="" type="checkbox"/> Negatibong epekto sa mga ilog	
16	Anu-ano pa ang nais ninyong ipabatid o ipagbigay-alam sa proponent ng proyekto?	<input checked="" type="checkbox"/> Pag-iwas sa polusyon <input checked="" type="checkbox"/> Pangangalaga ng kapaligiran lalo na sa mga ilog <input checked="" type="checkbox"/> Gawin ng maayos at ayon sa standards ang proyekto <input type="checkbox"/> Iba pa: _____	

MARAMING SALAMAT PO!



In cooperation with



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KATAHIRA & ENGINEERS INTERNATIONAL,
NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

Documentation Report **Public Scoping Report**

Dalton Pass East Alternative Road Project

Provinces of Nueva Vizcaya & Nueva Ecija



Submitted to



**Environmental Management Bureau
Central Office**



December 2021

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SECTION 1

PROJECT DESCRIPTION

- Department of Public Works and Highways** (the “Proponent”), through the assistance of Japan International Cooperation Agency (JICA), will be developing the Dalton Pass East Alternative Road (DPEAR) Project in the Provinces of Nueva Vizcaya & Nueva Ecija.
- Table 1** provided some basic information regarding the proposed project, the Proponent, and the Environmental Impact Assessment (EIA) preparer.

Table 1: Basic Information on the Proposed Project, Proponent, and EIA Preparer

Project Name	Dalton Pass East Alternative Road Project		
Project Location	Province	Municipality	Barangay
	Nueva Vizcaya (Region II)	Santa Fe	Canabuan
		Aritao	Canabuan Canarem
	Nueva Ecija (Region III)	Carranglan	Burgos Salazar
Project Type (According to DENR MC 2014-15)	3.4.7 Tunnel and Sub-grade Roads and Railways (Roads, Bridges, Tunnels, and Other Slope Protection Structures)		
Project Size/Capacity	Road	Total Length: ~23 km Lane: 4 lanes Design Speed: 60 km/hr. (60 m ROW)	
	Tunnel	Total Length: ~6.1 km Length of the North Tunnel: 4.5 km Length of the South Tunnel: 1.6 km Construction of lighting, ventilation, and emergency facilities	
	Bridge	Total Number: 10 Passage for rivers and creeks Slope protection is included	
Project Proponent	Department of Public Works and Highways Roads Management Cluster I (Bilateral) Unified Project Management Office Office Address: PJHL Building, NCR Compound-DPWH, 2nd Street, Port Area, Manila Tel. No.: (02) 8304-3901 Authorized Representative: Benjamin A. Bautista Project Director		
EIA Preparer	LCI Envi Corporation Office Address: Unit 8L-M, Future Point Plaza 3, 111 Panay Avenue, South Triangle, Quezon City Tel. No.: (02) 8442-2830 / Fax No.: (02) 8961-9226 Authorized Representative: Engr. Jose Marie U. Lim EIA Team Leader		



SECTION 2

ACTIVITY RATIONALE

2.1 RATIONALE AND OBJECTIVES

- 3 As stipulated in the Department of Environment and Natural Resources (DENR) Administrative Order No. 2017-15 (Guidelines on Public Participation under the Philippine Environmental Impact Statement System) or DAO 2017-15, at the onset of the environmental impact assessment (EIA) process, early involvement of stakeholders must be initiated through the conduct of information and education campaign (IEC) and focused group discussions (FGDs). Once social preparation activities are completed, scoping can then be performed to establish the scope of work and terms of reference for the EIA.
- 4 With the emergence of the Corona Virus Disease 2019 (COVID-19) in the Philippines, the DENR Environmental Management Bureau (DENR-EMB) released last 29 July 2020 the Memorandum Circular No. 2020-30 (Interim Guidelines on Public Participation of the Philippine Environmental Impact Statement System (PD 1586) during the State of National Public Health Emergency.
- 5 This memorandum circular was issued in compliance with Republic Act No. 11469 also known as the “Bayanihan to Heal as One Act” and Inter-Agency Task Force for the Management of Emerging Infectious Diseases (IATF) Resolution No. 11 on the prohibition of mass gatherings.
- 6 The objectives of the abovementioned Memorandum Circular were to provide alternative modes of public participation specifically for public scoping, public consultation, and public hearing in the Environmental Impact Assessment (EIA) process without exposing the public and stakeholders’ health and safety during the COVID-19 pandemic.
- 7 The public scoping invitation letters were prepared and distributed, which had minimal interaction and adhered to the guidelines and protocols set by the IATF, to the stakeholder groups indicated in Section 5 of DAO 2017-15 as well as EMB MC 2020-30. The specific stakeholder groups identified can be found in **Section 3: Stakeholders Representation** of this report.
- 8 In compliance with EMB MC 2020-30, the public consultation was conducted using online video conferencing via zoom.us platform. The notice of online public scoping was posted last 4 November 2021 in the EMB website (http://eia.emb.gov.ph/?page_id=4611).
- 9 The invitation letters for the public scoping were distributed last 10 November 2021. The proof of receipt of the public scoping invitation letters were found as **ATTACHMENT 1** of this report.



2.2 SCHEDULE AND PARTICIPANTS

- ¹⁰ **Table 2** presented the schedule and the gender disaggregated number of participants the public scoping. To provide better connectivity and access to the participants, online public scoping stations were set up for each Municipal Halls.

Table 2: Schedule & No. of Participants

LGU	DATE & TIME	MALE PARTICIPANTS	FEMALE PARTICIPANTS	TOTAL PARTICIPANTS
Aritao, Nueva Vizcaya	16 November 2021 1:00pm to 3:00pm	2	0	2
Santa Fe, Nueva Vizcaya		16	8	24
Carranglan, Nueva Ecija		9	7	16
Zoom Registration		20	6	26
TOTAL		47	21	68

- ¹³ The attendance sheets for the public scoping were included as **ATTACHMENT 2** of this report.



SECTION 3

STAKEHOLDERS REPRESENTATION

- 14 The composition of the stakeholders was presented in **Table 3**. The DPWH and LCI Envi Corporation, with support from the Municipal and Barangay Officials of the respective Local Government Units, organized the local distribution of the public scoping invitation last 10 November 2021.

Table 3: Distribution of Stakeholder Groups

SECTOR/OFFICE	ADDRESSED TO
<i>LGU in areas where all project facilities are proposed to be constructed/situated and where all operations are proposed to be undertaken</i>	
<ul style="list-style-type: none"> ▪ Municipal LGU of Aritao, Nueva Vizcaya (Host Municipal LGU) 	<p>Hon. Remelina M. Peros-Galam (Municipal Mayor) Aritao Municipal Hall, Aritao, Nueva Vizcaya</p> <p>Attention:</p> <ul style="list-style-type: none"> ▪ Municipal Administrator ▪ Municipal Planning and Development Office (MPDO) ▪ Municipal Engineer's Office (MEO) ▪ Municipal Environment and Natural Resources Office (MENRO) ▪ Municipal Health Office (MHO)/Rural Health Unit (RHU) ▪ Municipal Social Welfare and Development Office (MSWDO)
<ul style="list-style-type: none"> ▪ Barangay Canabuan, Aritao (Host Barangay) 	Hon. Reynaldo J. Pugsong (Punong Barangay)
<ul style="list-style-type: none"> ▪ Barangay Canarem, Aritao (Host Barangay) 	Hon. Manric O. Gaynat (Punong Barangay)
<ul style="list-style-type: none"> ▪ Municipal LGU of Santa Fe, Nueva Vizcaya (Host Municipal LGU) 	<p>Hon. Tidong A. Benito (Municipal Mayor) Santa Fe Municipal Hall, Santa Fe, Nueva Ecija</p> <p>Attention:</p> <ul style="list-style-type: none"> ▪ Municipal Administrator ▪ Municipal Planning and Development Office (MPDO) ▪ Municipal Engineer's Office (MEO) ▪ Municipal Environment and Natural Resources Office (MENRO) ▪ Municipal Health Office (MHO)/Rural Health Unit (RHU) ▪ Municipal Social Welfare and Development Office (MSWDO)
<ul style="list-style-type: none"> ▪ Barangay Canabuan, Santa Fe (Host Barangay) 	Hon. Ben L. Balalong (Punong Barangay)
<ul style="list-style-type: none"> ▪ Municipal LGU of Carranglan, Nueva Ecija (Host Municipal LGU) 	<p>Hon. Mary B. Abad (Municipal Mayor) Carranglan Municipal Hall, Carranglan, Nueva Ecija</p> <p>Attention:</p> <ul style="list-style-type: none"> ▪ Municipal Administrator ▪ Municipal Planning and Development Office (MPDO) ▪ Municipal Engineer's Office (MEO)



SECTOR/OFFICE	ADDRESSED TO
	<ul style="list-style-type: none"> Municipal Environment and Natural Resources Office (MENRO) Municipal Health Office (MHO)/Rural Health Unit (RHU) Municipal Social Welfare and Development Office (MSWDO)
<ul style="list-style-type: none"> Barangay Burgos, Carranglan (Host Barangay) 	Hon. Santos M. Teodoro (Punong Barangay)
<ul style="list-style-type: none"> Barangay Salazar, Carranglan (Host Barangay) 	Hon. Andres P. Bucasan (Punong Barangay)
Government agencies with related mandate on the type of project and its impacts	
<ul style="list-style-type: none"> DENR Region II 	RED Gwendolyn C. Bambalan OIC Regional Executive Director 14 Dalan Na Pagayaya Corner Angicacua Regional Government Center, Carig Sur, Tuguegarao City T: (078) 304-8049
<ul style="list-style-type: none"> DENR Region III 	RED Paquito T. Moreno, Jr. Regional Executive Director Diosdado P. Macapagal Government Center, Maimpis, City of San Fernando, Pampanga T: (045) 455-3648
<ul style="list-style-type: none"> Protected Area Management Board Pantabangan-Carranglan Watershed Forest Reserve (PAMB-PCWFR) 	
<ul style="list-style-type: none"> DENR EMB Region II 	RD Nelson P. Honrado, LLB Regional Director 20 Pagayaya Road, Regional Government Center, Carig Sur Tuguegarao City, Cagayan T: (078) 396-0724
<ul style="list-style-type: none"> DENR EMB Region III 	RD Wilson L. Trajeco Regional Director Turquoise Street, Ramar Village, San Augustin City of San Fernando Pampanga T: (045) 455-4340
<ul style="list-style-type: none"> Provincial Environment and Natural Resources Office (PENRO) – Nueva Vizcaya 	Mr. Edgar T. Martin PENR Officer Capitol Compound, Bayombong, Nueva Vizcaya T: (078) 321-2084
<ul style="list-style-type: none"> Provincial Environment and Natural Resources Office (PENRO) – Nueva Ecija 	Mr. Joselito M. Blanco PENR Officer Brgy. Singalat, Palayan City. Nueva Ecija T: (044) 940-1973
People whose socio-economic welfare and cultural heritage are projected to be affected by the project especially vulnerable sectors and indigenous populations	
Indigenous Peoples Mandatory Representative (IPMR) of Aritao	
Indigenous Peoples Mandatory Representative (IPMR) of Santa Fe	
Indigenous Peoples Mandatory Representative (IPMR) of Carranglan	
Local institutions (schools, churches, hospitals)	
Education Sector Representatives	
Municipalities of Aritao, Santa Fe, and Carranglan	
Religious Sector Representatives	
Municipalities of Aritao, Santa Fe, and Carranglan	



SECTION 4

SUMMARY OF ISSUES AND CONCERNS

- 15 The public scoping for the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways (DPWH) was held last 16 November 2021 (Tuesday) from 1:00pm to 3:00pm. The total number of participants who participated in the public scoping via zoom conference was 68. In addition, the presentation used for the public scoping was included as **ATTACHMENT 3** of this report.
- 16 The participants were also reminded that the public scoping proceedings were recorded, and in participating in the public scoping, they provided consent on the recording. The recording of the public scoping was included as **ATTACHMENT 4** of this report.
- 17 Regional Director Nelson Honrado of the Environmental Management Bureau Region II (EMB RII) facilitated the open forum discussions.
- 18 The issues, concerns, and suggestions raised by the participants during the open forum and the corresponding responses of the Proponent, and the EIA preparer were summarized in the matrix below.

Table 4: Matrix of Issues and Concerns Raised during the Public Scoping

ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROONENT RESPONSE TO ISSUES/CONCERNS
A. PROJECT DESCRIPTION		
Are there alternative routes for the proposed project?	Municipal Engineering Officer of Sta. Fe	Engr. Ronel Bulan (DPWH): We have considered alternate routes, such as the North Luzon East Expressway (NELEX), before. However, the NELEX economic feasibility failed. There were no other alternatives for DPEAR Project.
Will there be maintenance and improvement work in the existing roads like Dalton Pass and others?	Municipal Administrator of Sta. Fe	Engr. Ronel Bulan (DPWH): We have regional and district engineering offices implementing various maintenance projects along the Pan Philippine Highway Network.
B. LAND		
The tunnel sections of the proposed project contain minerals like quartz based on the previous studies conducted in the area. What will DPWH do with the mined minerals, if any?	Municipal Engineering Officer of Sta. Fe	LCI Envi Corporation: This comment was noted. This will form part of the EIA study for the proposed project.
Will there be disposal sites of the excavated materials for the proposed project?		Engr. Ronel Bulan (DPWH): We have identified disposal sites for the proposed project. If the materials excavated were found to be suitable for construction, the project will utilize them.



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPONSE TO ISSUES/CONCERNS
		If unsuitable, we will transport them in the identified disposal sites.
C. AIR		
<i>No issues and concerns raised for the air module.</i>		
D. WATER		
<i>No issues and concerns raised for the water module.</i>		
E. PEOPLE		
What are your plans for the indigenous peoples (IPs)? Will the IPs be affected?	Municipal Environment and Natural Resources Officer of Sta. Fe	Engr. Ronel Bulan (DPWH): We have secured the certification precondition (CP) from the National Commission on Indigenous Peoples (NCIP), which contains the commitments of DPWH to the ADs and IPs affected by the proposed project.
Will DPWH consider getting laborers in the affected LGUs to work for the proposed project?	Municipal Administrator of Sta. Fe	Engr. Ronel Bulan (DPWH): As part of the compliance to the Department of Labor and Employment (DOLE) requirements of hiring, DPWH, through its qualified contractors will prioritize hiring of the qualified skilled laborers in the proposed project.
We are supportive of the proposed project. We will wait for further consultations for the proposed project for the implementation of the development projects for the affected barangays, especially on indigenous peoples.	Municipal Mayor of Carranglan	Lalaine Catulong (DPWH): An Indigenous Peoples Plan (IPP) will be prepared to address the impacts, mitigation, and development programs/projects/activities (P/P/As). LCI Envi Corporation: This comment was noted. This will form part of the EIA study for the proposed project. We will integrate the IPP and Resettlement Action Plan (RAP) in the EIA study.


- 19 As presented, the preliminary issues and concerns raised and addressed during the IEC activities for the proposed project covered a wide array of subject matter, from alignment concerns, impacts to the indigenous peoples, policies on hiring, and among others.
- 20 The importance of constant open communication between the community and the project Proponent throughout the different phases of the project implementation was emphasized during the meeting.



SECTION 5

PHOTO-DOCUMENTATION

Figure 1: Photo Documentation of the Public Scoping Meeting

GOVPH Home About Us Services E-Library News Archive Back to EMB Website Contact Us Search					
 ENVIRONMENTAL MANAGEMENT BUREAU ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT DIVISION					
Philippine Standard Time: Friday, December 03, 2021, 4:05:37 PM					
Notice of Online Public Scoping					
ECC Requirement Registry of EIA Practitioners Updated List of ECPs with ECCs Template MOA Template MOO Calendar of Events					
YOU ARE HERE: NOTICE OF ONLINE PUBLIC SCOPING					
Date Posted	Project Name	Project Proponent	Project Location	Date/Time	Videoconference (via Zoom)
Thursday, 04 November 2021	Dalton Pass East Alternative Road Project	Department of Public Works and Highways (DPWH)	Municipalities of Aritao and Santa Fe in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija	16 November 2021 (Tuesday) 1:00 PM to 3:00 PM	https://us02web.zoom.us/j/83244952499?pwd=a3FWZE1PQ2ErVUhwU5ESTJwM01Xdz09 Meeting ID: 832 4495 2499 Passcode: 862529
					Notice of Public Scoping Project Description

Notice of Public Scoping as Posted in the DENR-EMB Website (http://eia.emb.gov.ph/?page_id=4611)



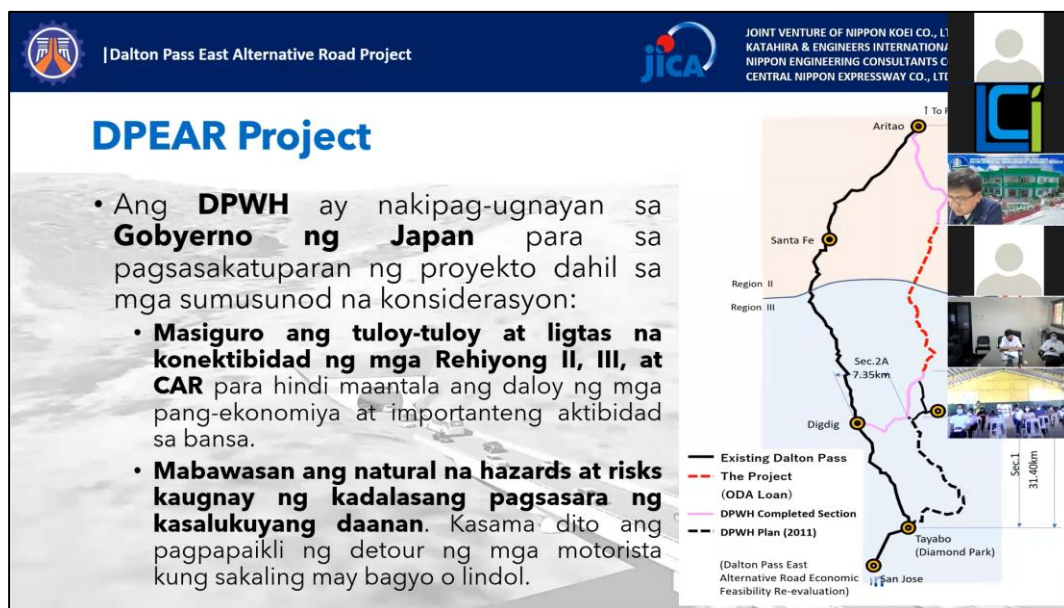
Proof of Posting on Municipal and Barangay Halls

SOURCE: Photos taken by LCI Study Team

FIGURE NO.		FIGURE TITLE	
1		Photo Documentation of the Public Scoping Meeting	
PROJECT PROPONENT: DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT TITLE & LOCATION: DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	REPORT PREPARER: LCI ENVI CORPORATION



Figure 2: Photo Documentation of the Public Scoping Meeting



Presentation of DPWH-UPMO-RMC-I(B) for the Proposed DPEAR Project



Open Forum

SOURCE: Photos taken by LCI Study Team

FIGURE NO.		FIGURE TITLE	
2		Photo Documentation of the Public Scoping Meeting	
PROJECT PROPONENT:	PROJECT TITLE & LOCATION:		REPORT PREPARER:
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija		LCI ENVI CORPORATION



Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

DENR Compound, Visayas Avenue, Diliman, Quezon City 1116
Tel.Nos. (632)927-1517; 928-3725; Fax No.(632)920-2258
Website: www.emb.gov.ph Email: recordsco@emb.gov.ph



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November 09, 2021

Representative

Protected Area Management Board

Pantabangan-Carranlan Watershed Forest Reserve (PAMB- PCWFR)



Dear Sir/Madam :

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

Date / Time	Videoconference (via zoom)
16 November 2021 (Tuesday)/ 1:00 PM to 3:00 PM	https://us02web.zoom.us/j/83244952499?pwd=a3FWZE1PO2ErVUhwU5ESTJwM01Xdz09 Meeting ID: 832 4495 2499 Passcode: 862529

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For more details, please contact the EMB Central Office at (02) 8539 4378 loc. 116.

We look forward to your participation.

Very truly yours,


ENGR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

DENR Compound, Visayas Avenue, Diliman, Quezon City 1116
Tel.Nos. (632)927-1517; 928-3725; Fax No.(632)920-2258
Website: www.emb.gov.ph Email: recordsco@emb.gov.ph



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November 09, 2021

Hon. Romelina M. Peros-Galam

Municipal Mayor

Municipal Mayor's Office

Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
R E C E I V E D
DATE: NOV. 10, 2021
BY: [Signature]
ARITAO, NUEVA VIZCAYA

Dear Mayor Peros-Galam:

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

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Very truly yours,

ENGR. WILLIAM P. CUÑADO
Director





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ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Representative

Municipal Administrator

Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
R E C E I V E D
DATE: Nov-10, 21
BY: [Signature]
ARITAO, NUEVA VIZCAYA

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ENGR. WILLIAM P. CUÑADO
Director





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November 09, 2021

Representative

Municipal Planning and Development Office
Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
RECEIVED
DATE: Nov 10, 2021
BY: [Signature]
ARITAO, NUEVA VIZCAYA

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ENCR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Representative

Municipal Engineer's Office

Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
R E C E I V E D
DATE: Nov. 10, 2021
BY: [Signature]
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Director





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November 09, 2021

Representative

Municipal Environment and Natural Resources Office

Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
RECEIVED
DATE: Nov 10, 2021
BY: [Signature]
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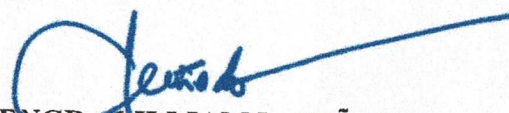
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Very truly yours,


ENCR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Representative

Municipal Health Office

Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR

R E C E I V E D

DATE: Nov 10, 2021

BY: [Signature]

ARITAO, NUEVA VIZCAYA

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ENGR. WILLIAM P. CUÑADO
Director





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November 09, 2021

Representative

Municipal Social Welfare and Development Office

Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
RECEIVED
DATE: Nov 10, 21
BY: [Signature]
ARITAO, NUEVA VIZCAYA

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Very truly yours,

ENGR. WILLIAM P. CUÑADO
Director





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ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Representative

Indigenous People of Aritao
Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
RECEIVED
DATE: Nov. 10, 2021
BY: [Signature]
ARITAO, NUEVA VIZCAYA

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We look forward to your participation.

Very truly yours,

ENGR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

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ID: 9105082327



November 09, 2021

Representative

Religious Sector of Aritao

Anitao, Nueva Vizcaya

Dear Sir/Madam :

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We look forward to your participation.

Very truly yours,

ENGR. WILLIAM P. CUÑADO
Director



11-10-2021
Handwritten notes:
Blanca G. Remon
St. Joseph Parish Aritao
received by



Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

DENR Compound, Visayas Avenue, Diliman, Quezon City 1116
Tel.Nos. (632)927-1517; 928-3725; Fax No.(632)920-2258
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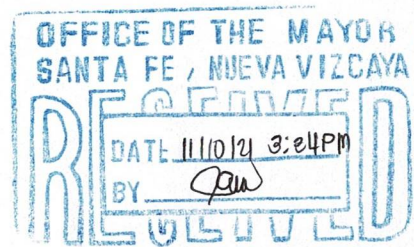
November 09, 2021

Hon. Tidong A. Benito

Municipal Mayor

Municipal Mayor's Office

Santa Fe, Municipal Hall, Santa Fe, Nueva Vizcaya



Dear Mayor Benito:

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We look forward to your participation.

Very truly yours,

ENCR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

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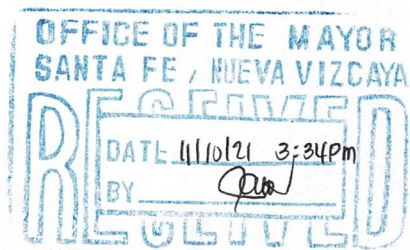


November 09, 2021

Representative

Municipal Administrator

Santa Fe, Municipal Hall, Santa Fe, Nueva Vizcaya



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Director





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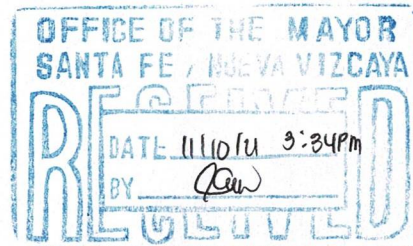


November 09, 2021

Representative

Municipal Engineer's Office

Santa Fe, Municipal Hall, Santa Fe, Nueva Vizcaya



Dear Sir/Madam :

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ENVIRONMENTAL MANAGEMENT BUREAU

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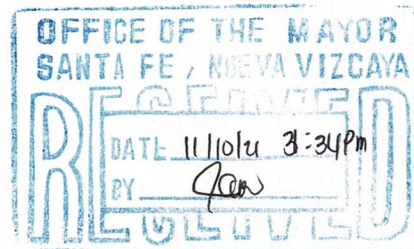


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Santa Fe, Municipal Hall, Santa Fe, Nueva Vizcaya



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Website: www.emb.gov.ph Email: recordsco@emb.gov.ph



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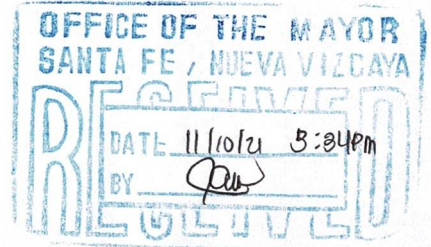


November 09, 2021

Representative

Municipal Health Office

Santa Fe, Municipal Hall, Santa Fe, Nueva Vizcaya



Dear Sir/Madam :

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

Date / Time	Videoconference (via zoom)
16 November 2021 (Tuesday)/ 1:00 PM to 3:00 PM	https://us02web.zoom.us/j/83244952499?pwd=a3FWZE1PQ2ErVUhwU5ESTJwM01Xdz09 Meeting ID: 832 4495 2499 Passcode: 862529


The public scoping is an early stage in the Environmental Impact Assessment Process where the proponent aims to provide an overview of the proposed project, proposed action, gather issues and concerns, and other relevant information to provide the scope of work and terms of reference for the preparation of Environmental Impact Statement.

A copy of the Project Description Report for Scoping is downloadable at our website: www.eia.emb.gov.ph (kindly access the Notice of Public Scoping link found at the lower right portion of our website).

For more details, please contact the EMB Central Office at (02) 8539 4378 loc. 116.

We look forward to your participation.

Very truly yours,


ENCR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

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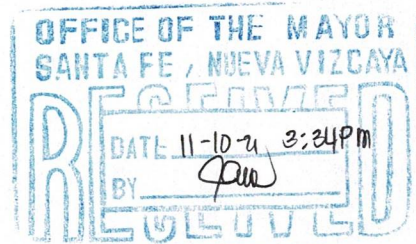


November 09, 2021

Representative

Municipal Social Welfare and Development Office

Santa Fe, Municipal Hall, Santa Fe, Nueva Vizcaya



Dear Sir/Madam :

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

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Very truly yours,


ENGR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

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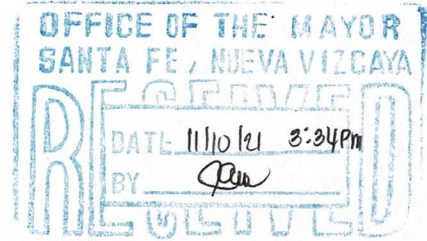


November 09, 2021

Representative

Indigenous People of Santa Fe
Santa Fe, Nueva Vizcaya

Dear Sir/Madam :



We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

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We look forward to your participation.

Very truly yours,


ENGR. WILLIAM P. CUÑADO
Director





Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Representative

Religious Sector of Santa Fe

Santa Fe, Nueva Vizcaya

Dear Sir/Madam :

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We look forward to your participation.

Very truly yours,

ENGR. WILLIAM P. CUÑADO
Director



*Our Mother of Perpetual Help Parish -
Received by - 11-16-21*



Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Hon. Mary B. Abad

Municipal Mayor

Municipal Mayor's Office

Carranglan Municipal Hall, Carranglan, Nueva Ecija

Dear **Hon. Abad**:

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

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We look forward to your participation.

Very truly yours,

ENGR. WILLIAM P. CUÑADO

Director



MAYOR'S OFFICE
RECEIVED BY:
DATE: Nov. 11, 2021
TIME: 10:11 AM



Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

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November 09, 2021

Representative

Municipal Administrator

Carranglan Municipal Hall, Carranglan, Nueva Ecija

Dear Sir/Madam :

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

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We look forward to your participation.

Very truly yours,

ENCR. WILLIAM P. CUÑADO
Director



MAYOR'S OFFICE
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DATE: Nov. 11, 2021
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Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU

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ID 9105082327



November 09, 2021

Hon. Santos M. Teodoro
Punong Barangay
Barangay Burgos, Carranglan, Nueva Ecija

Dear **Hon. Teodoro**:

We are pleased to invite you and your constituents to attend the Public Scoping for the proposed Dalton Pass East Alternative Road Project of the Department of Public Works and Highways (DPWH) represented by Mr. Benjamin A. Bautista to be located in the Municipalities of Santa Fe and Aritao in Nueva Vizcaya and the Municipality of Carranglan in Nueva Ecija. The said Scoping is scheduled on:

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For more details, please contact the EMB Central Office at (02) 8539 4378 loc. 116.

We look forward to your participation.

Idonka I. Duza



Very truly yours,

ENGR. WILLIAM P. CUÑADO
Director



ATTENDANCE SHEET

ACTIVITY:	Public Scoping	VENUE:	Zoom.us
DATE:	16 November 2021 (Tuesday)	TIME:	1:00pm to 3:00pm

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
1	Jason Esguerra	M	Site Engineer	DENR-EMB EIAMD			
2	Roberto Quizon	M	DMO-IV	DENR RIII			
3	Bryan Magante	M	EIA Preparer	LCI Envi Corporation			
4	John Simeon	M	MENRO	Sta. Fe LGU			
5	Arthur Salazar	M	ARD	DENR RIII			
6	Lester Abando	M	EIA Preparer	LCI Envi Corporation			
7	Karlo Ordenez	M	Exec. Asst.	Aritao LGU			
8	Bayani Larosa	M	IMPR	Aritao LGU			
9	Dexter Tabada	M	Engr II	DENR-EMB EIAMD			
10	Lynn Monsanto	F	CEO	EarthUs			
11	Ronel Bulan	M	Engr III	DPWH			
12	Mark Anthony Tuliao	M	-	EMB			
13	Julie Anne Tunac	F	EMS II	DENR-EMB RII			
14	Herlu Lucero	M	PCWFR Staff	DENR-CENRO Munoz			
15	Jerome Leano	M	EIA Preparer	LCI Envi Corporation			
16	Albert Eugenio	M	MA	Sta. Fe LGU			
17	Patricia Sanchez	F	DENR-BMB	EMS II			
18	Patrocinia Daliuag	F	Supervising EMS	DENR-EMB RII			
19	Nelson Honrado	M	Regional Director	DENR-EMB RII			
20	Daniel Garino, Jr.	M	Sr. EMS	DENR-BMB			
21	Dionisio Mijares, Jr.	M	ME	Sta. Fe LGU			
22	Aruthur Tanguilan	M	Sr. EMS	DER-EMB RII			



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
23	Joma Lim	M	EIA Team Leader	LCI Envi Corporation			
24	Krishna Santos	F	EIA Preparer	LCI Envi Corporation			
25	Ronald Estrada	M	DMO II	DENR RIII			
26	Sol Lim	F	Manager	LCI Envi Corporation			
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ATTENDANCE SHEET

ACTIVITY:	Public Scoping	VENUE:	Municipal Hall/Zoom.us
DATE:	16 November 2021 (Tuesday)	TIME:	1:00pm to 3:00pm

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
1	ROGELIO B. ABAD	M	ABC		0916242005		
2	Iduna I. Duza	F	Bugt. Sec		09955721906		
3	PICARDO A. FERNANDES	M	Administrator	LGU CARRANGALAN	09069015438		
4	Santos M. Todorov	M	P. B.		0925702726		
5	JENNIFER P. GUINTU	F	LAOD II	LGU - Carrangalan	091711371		
6	ARIEL M. PALONTO	M	MPDC	LGU - Carrangalan			
7	MARY D. ABAD	F	Mayor	U	09669015438		
8	KIMUEL A. SORIANO	M	ENGINEERING REP.	LGU - CARRANGALAN	09657382852		
9	AICEL A. BALTARAN	F		LGU CARRANGALAN	09752971834		
10	KARLSON D. DOMINIANO	F	bigg hnd	U - Carrangalan	09669942368		
11	FORSTINO C. NATIVIDAD	M	R.B. BUNGA	L.G.U. CARRANGALAN	09269539778		
12	WILMA T. NATIVIDAD	F	Bugt. Sec - BUNGA	L.G.U. CARRANGALAN	09051741100		
13	Julia Saleen	F	Engr. Agustin	Staff	0920105416		
14	Aida Amos				09056234574		
15	ALEXANDER F. RAYONA	M	D. C. MAGLALAO		09176482437		
16	CHRISTIAN SOLOMON	M	F.C. OTIC	STAFF	09066319901		
17	LESTER ABANDO	M	EIA TEAM	LGU ENVI. CORP	09798069244		
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ATTENDANCE SHEET

ACTIVITY:	Public Scoping	VENUE:	Municipal Hall/Zoom.us
DATE:	16 November 2021 (Tuesday)	TIME:	1:00pm to 3:00pm

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP	CONTACT NO.	SIGNATURE	TEMP (°C)
1	MANRIC D. GAYMAT	M	P.B		09152307095		
2	Karlo Marco Ovelonez	M			09955391659		
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| Dalton Pass East Alternative Road Project



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KATAHIRA & ENGINEERS INTERNATIONAL,
NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

Public Scoping for the Environmental Compliance
Certificate (ECC) Acquisition

Dalton Pass East Alternative Road Project

16 November 2021 | 1:00pm to 3:00pm|
Zoom.us





Ecumenical Prayer

Sung by Berlinda Mambo-o

Mufti Alem Mohammad Y. Pasigan

Fr. Bong Gonzaga DCD

Wala'y Makalabaw Nimo

Composed by Pastor Bernard Paundag





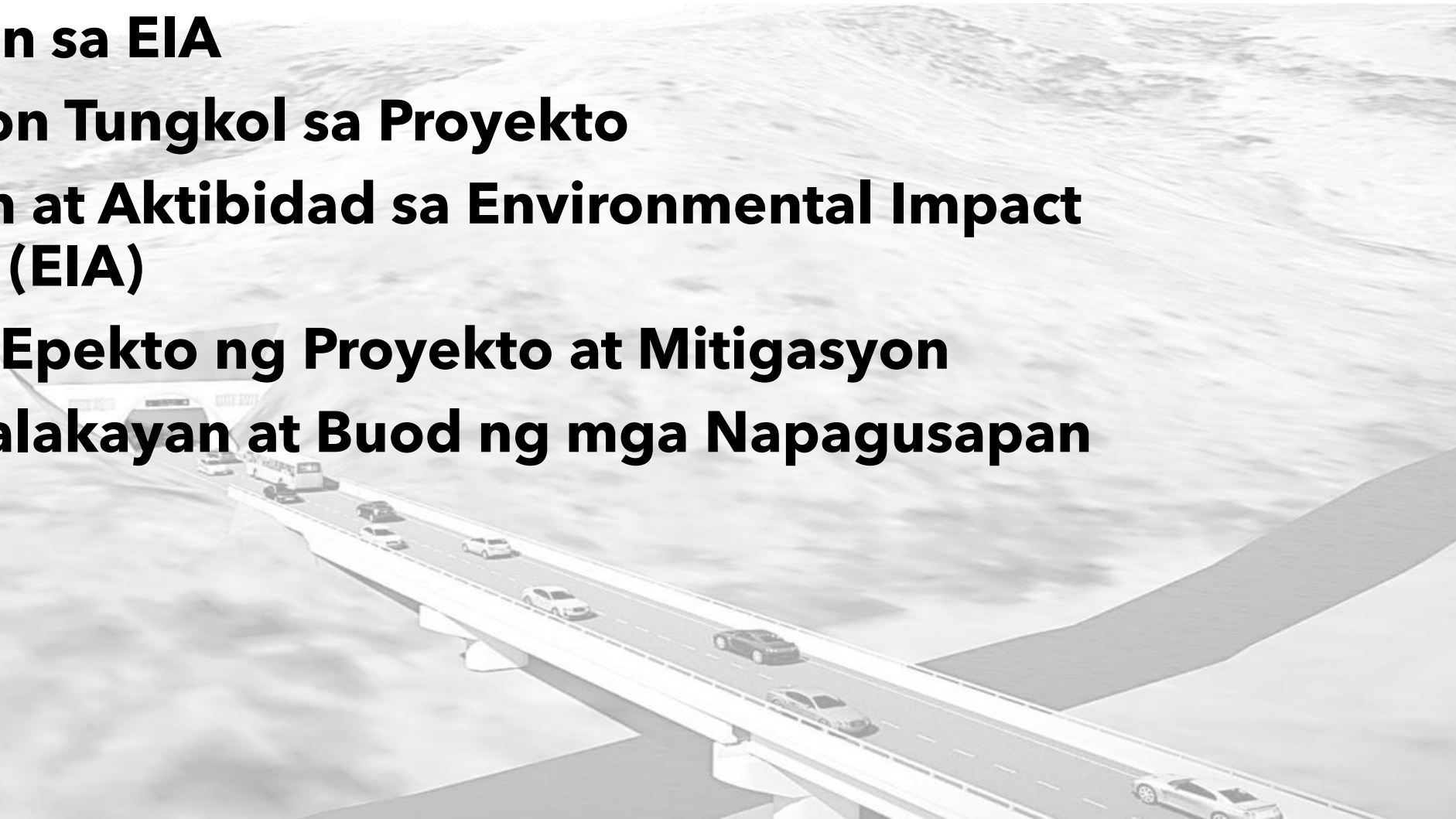
Programa

ORAS	AKTIBIDAD	RESPONSIBLE
1:00pm – 1:30pm	Opening Preliminaries National Anthem Invocation Welcome Remarks	LCI Envi Corporation
1:30pm – 1:45pm	Introduksyon sa Environmental Impact Assessment (EIA)	Director Nelson Honrado DENR-EMB Region II Director
1:45pm – 2:00pm	Impormasyon Tungkol sa Proyekto	Project Director Benjamin Bautista DPWH-UPMO-RMCI (B)
2:00pm – 2:30pm	Mga Gawain at Aktibidad sa EIA Inaasahang Epekto at Mitigasyon	LCI Envi Corporation
2:30pm –	Malayang Talakayan Buod ng mga Napagusapan	Mga Dumalo sa Public Scoping



Agenda ng Meeting

- **Introduksyon sa EIA**
- **Impormasyon Tungkol sa Proyekto**
- **Mga Gawain at Aktibidad sa Environmental Impact Assessment (EIA)**
- **Inaasahang Epekto ng Proyekto at Mitigasyon**
- **Malayang Talakayan at Buod ng mga Napagusapan**





| Dalton Pass East Alternative Road Project



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INTRODUKSYON SA ENVIRONMENTAL IMPACT
ASSESSMENT (EIA)

Dalton Pass East Alternative Road Project

16 November 2021 | 1:00pm to 3:00pm |
Zoom.us





| Dalton Pass East Alternative Road Project



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NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

IMPORMASYON TUNGKOL SA PROYEKTO

Dalton Pass East Alternative Road Project

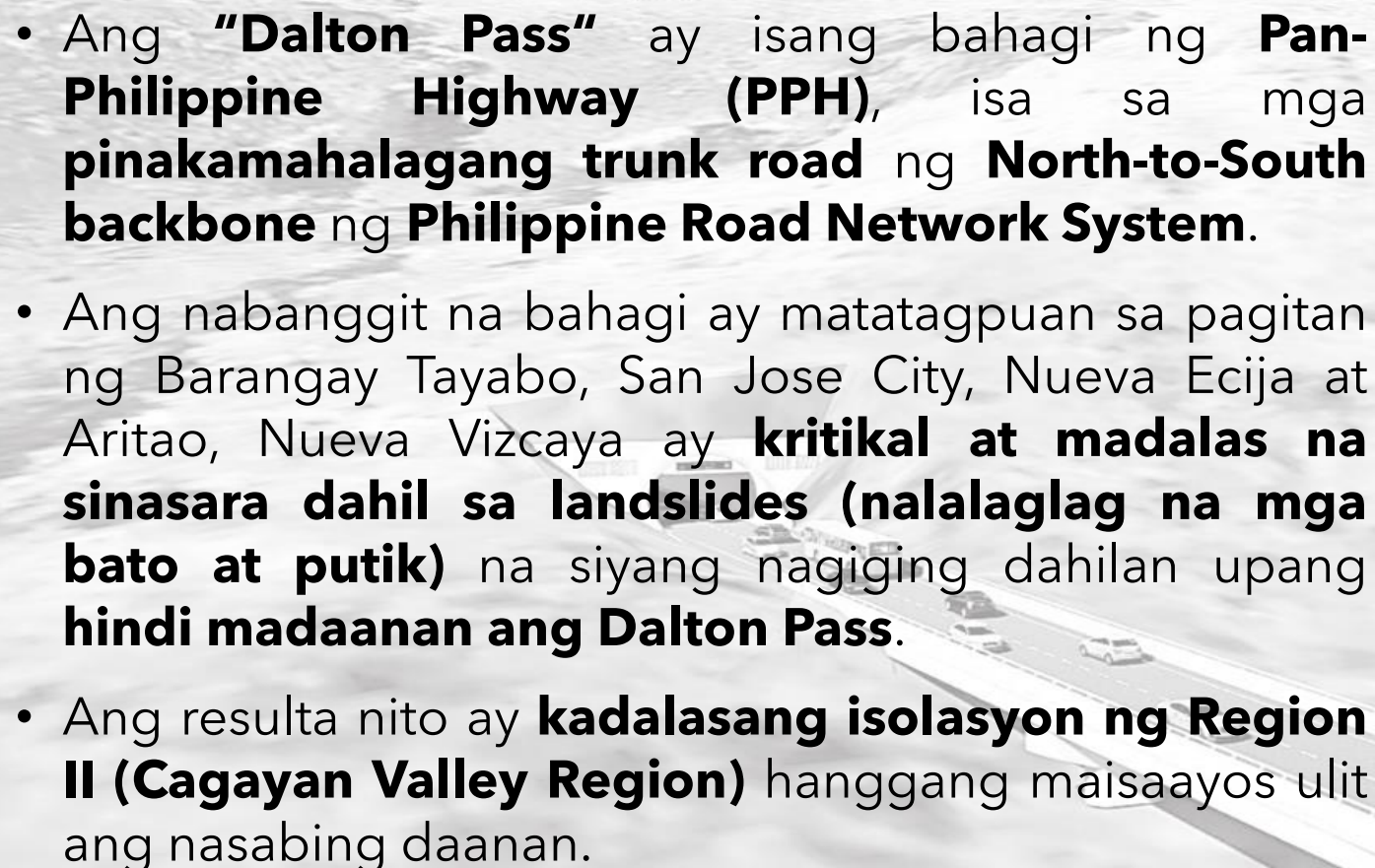
16 November 2021 | 1:00pm to 3:00pm|
Zoom.us

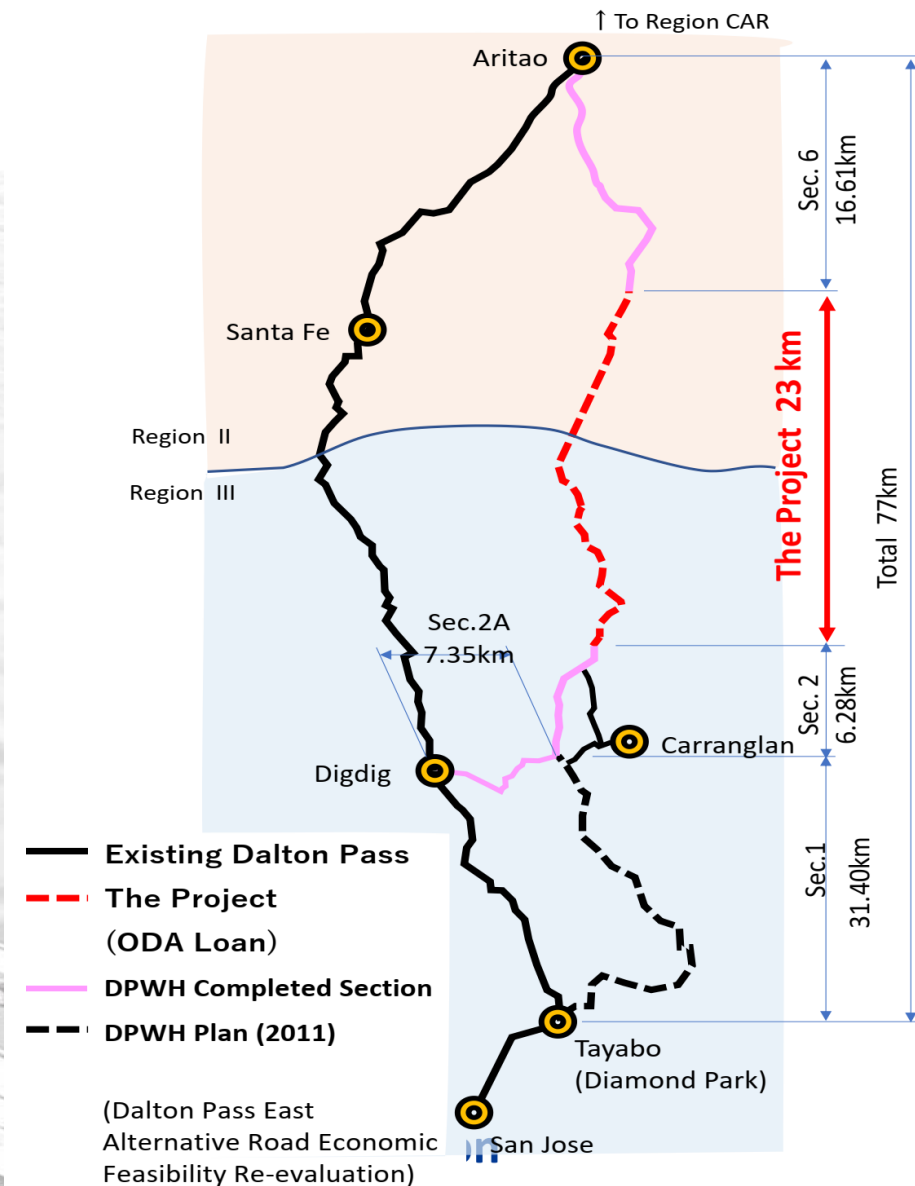




**JOINT VENTURE OF NIPPON KOEI CO., LTD.,
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NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.**

Dalton Pass East Alternative Road (DPEAR) Project

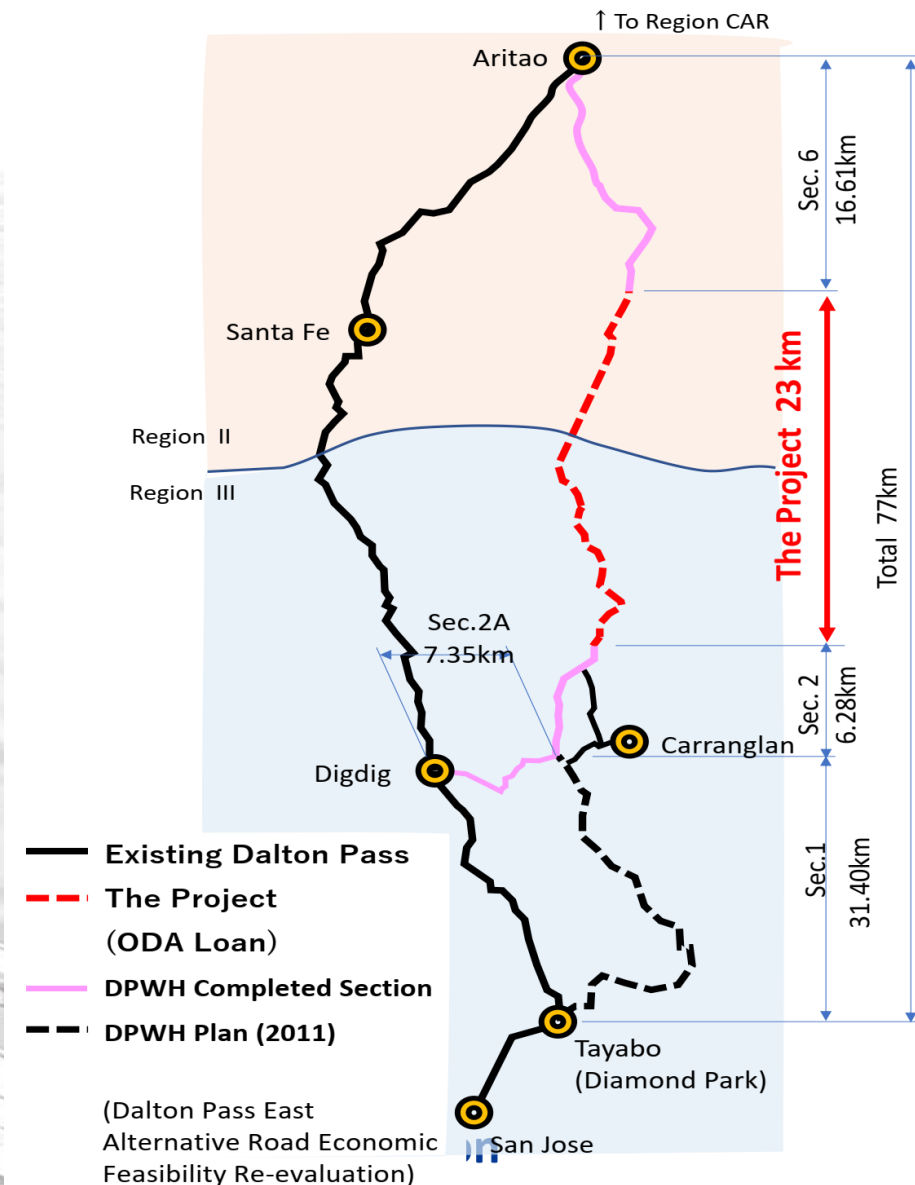
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- Ang **"Dalton Pass"** ay isang bahagi ng **Pan-Philippine Highway (PPH)**, isa sa mga **pinakamahalagang trunk road** ng **North-to-South backbone** ng **Philippine Road Network System**.
 - Ang nabanggit na bahagi ay matatagpuan sa pagitan ng Barangay Tayabo, San Jose City, Nueva Ecija at Aritao, Nueva Vizcaya ay **kritikal at madalas na sinasara dahil sa landslides (nalalaglag na mga bato at putik)** na siyang nagiging dahilan upang **hindi madaanan ang Dalton Pass**.
 - Ang resulta nito ay **kadalasang isolasyon ng Region II (Cagayan Valley Region)** hanggang maisaayos ulit ang nasabing daanan.





DPEAR Project

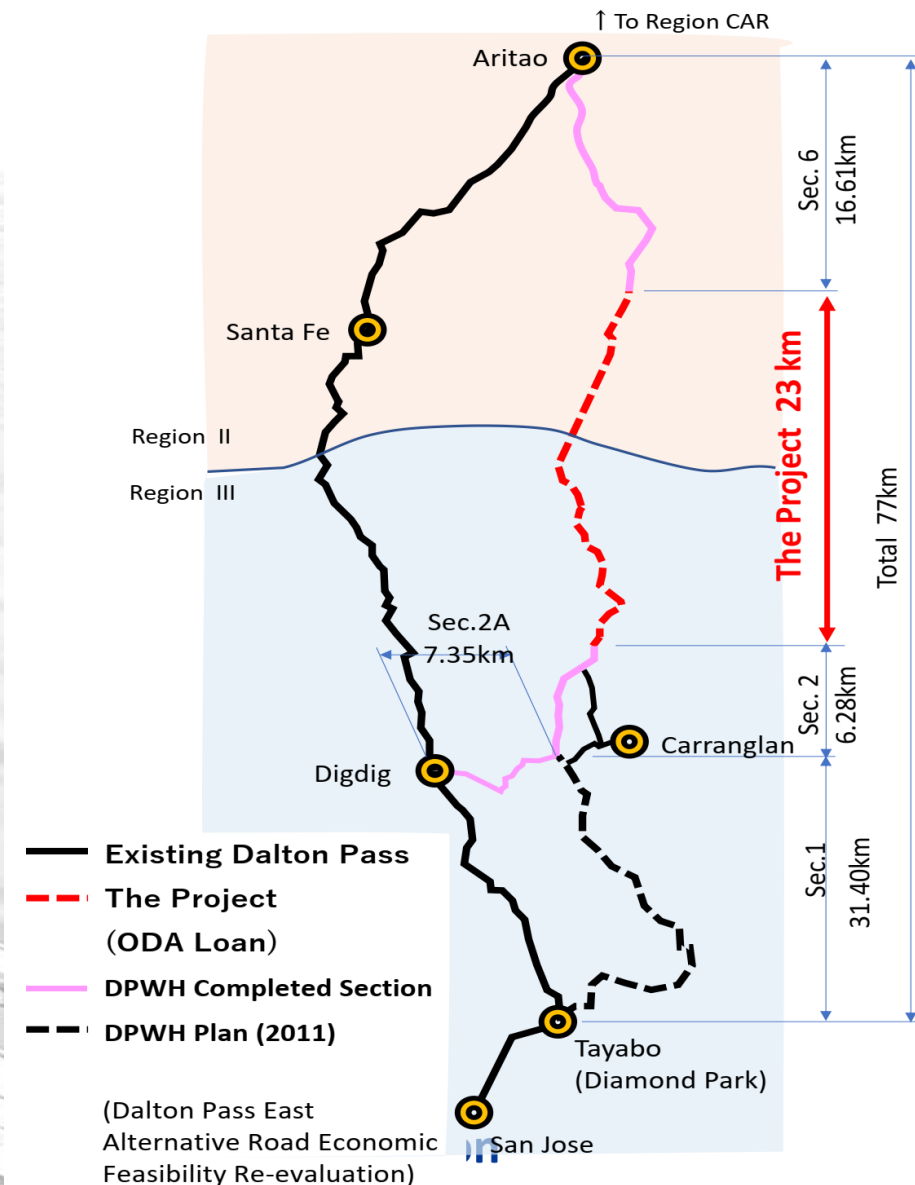
- Ang **DPWH** ay nakipag-ugnayan sa **Gobyerno ng Japan** para sa pagsasakatuparan ng proyekto dahil sa mga sumusunod na konsiderasyon:
 - **Masiguro ang tuloy-tuloy at ligtas na konektibidad ng mga Rehiyong II, III, at CAR** para hindi maantala ang daloy ng mga pang-ekonomiya at importanteng aktibidad sa bansa.
 - **Mabawasan ang natural na hazards at risks kaugnay ng kadalasang pagsasara ng kasalukuyang daanan.** Kasama dito ang pagpapaikli ng detour ng mga motorista kung sakaling may bagyo o lindol.






Layunin ng Proyekto

- Gumawa ng panibago at ligtas na daanan na magdudugtong at magpapadali ng konektibidad sa Region II at Region III.
- Ang daanan na ito ay magsisilbing alternatibong ruta ng kasalukuyang Dalton Pass.





DPEAR Project

Uri ng Proyekto (Base sa DENR MC 2014-05)	3.4.7 Tunnel and sub-grade roads and railways		
Lokasyon ng Proyekto	Probinsya	Munisipalidad	Barangay
	Nueva Vizcaya (Region II)	Sante Fe	Canabuan
		Aritao	Canabuan Canarem
	Nueva Ecija (Region III)	Carranglan	Burgos Salazar
Maikling Detalye ng Proyekto	Kalsada	Kabuuang Haba:~23 km Linya: 4 na linya Disenyo para sa bilis ng mga sasakyan: 80 km/hr. (rolling terrain) 70 km/hr. (mountainous terrain)	
	Tunnel	Kabuuang Haba: ~6.06 km Haba ng North Tunnel: 4.46 km Haba ng South Tunnel: 1.6 km Konstruksyon ng pailaw, bentilasyon at emergency facilities	
	Tulay	Kabuuang Bilang: 10 na tulay Tawiran ng ilog at creek Kasama ang slope protection	
Proponent ng Proyekto	 Department of Public Works and Highways Roads Management Cluster I (Bilateral) Unified Project Management Office		

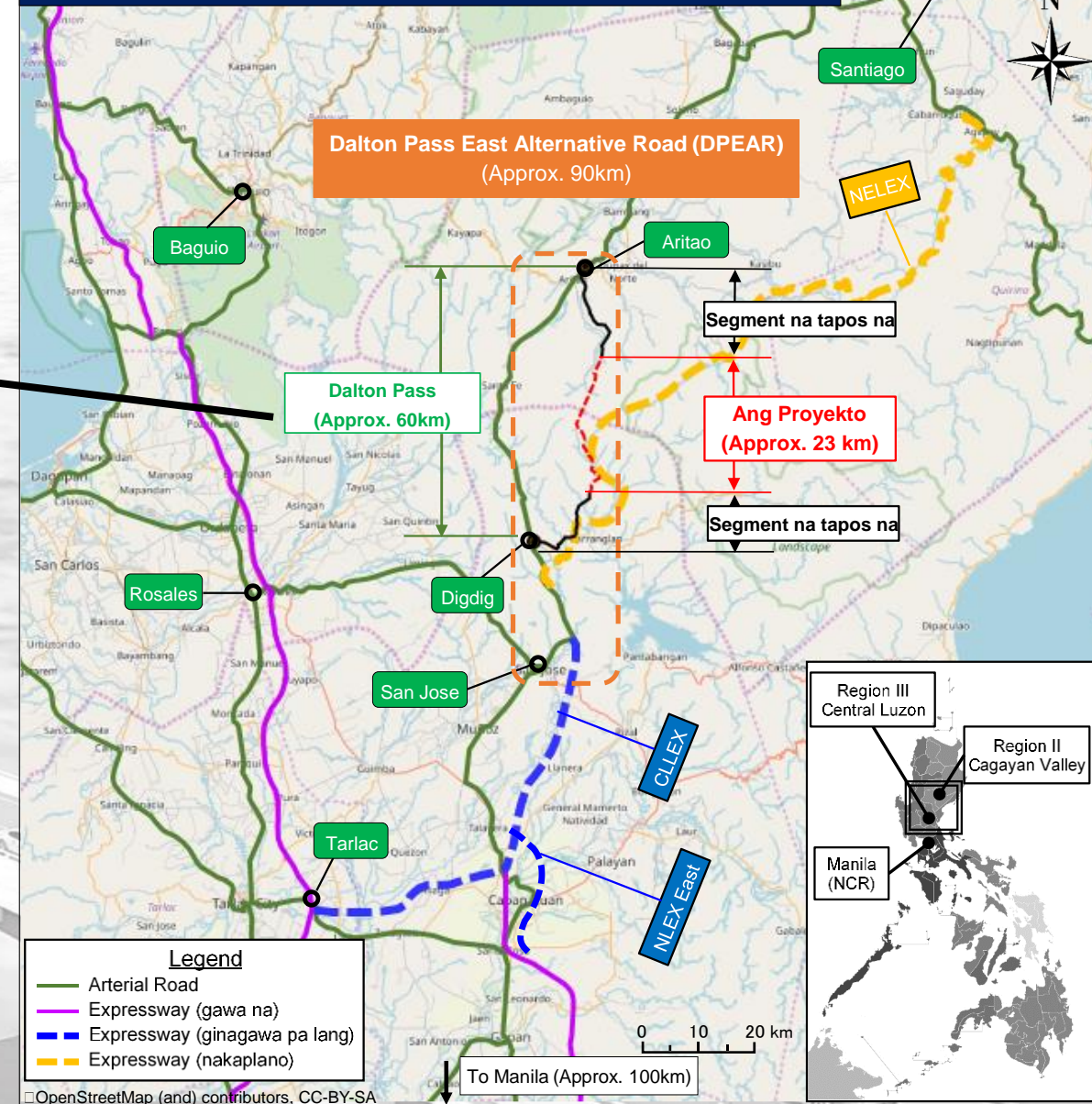
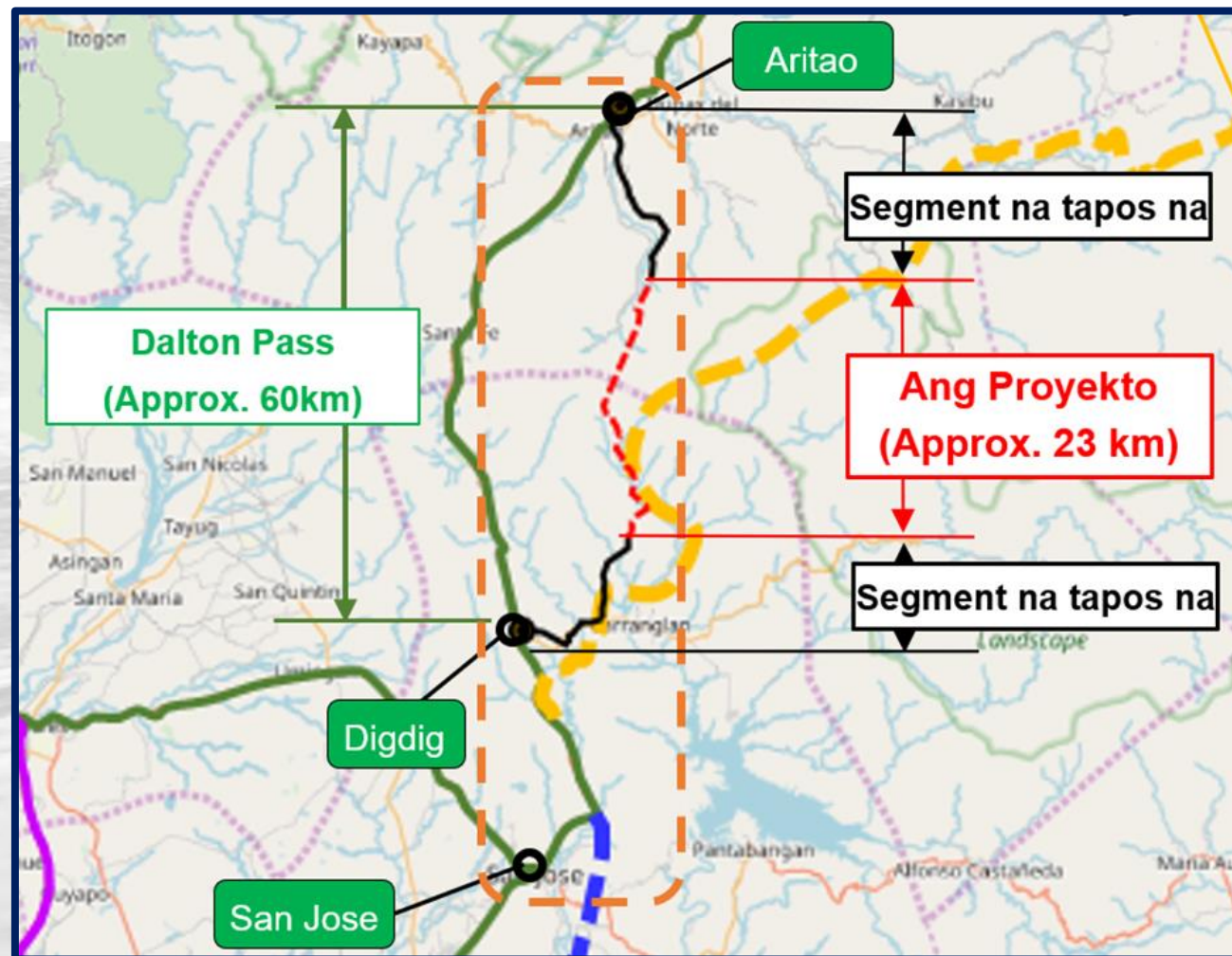


| Dalton Pass East Alternative Road Project



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Dalton Pass East Alternative Road(DPEAR) in the Philippines



- Legend**
- Arterial Road
 - Expressway (gawa na)
 - Expressway (ginagawa pa lang)
 - Expressway (nakaplano)

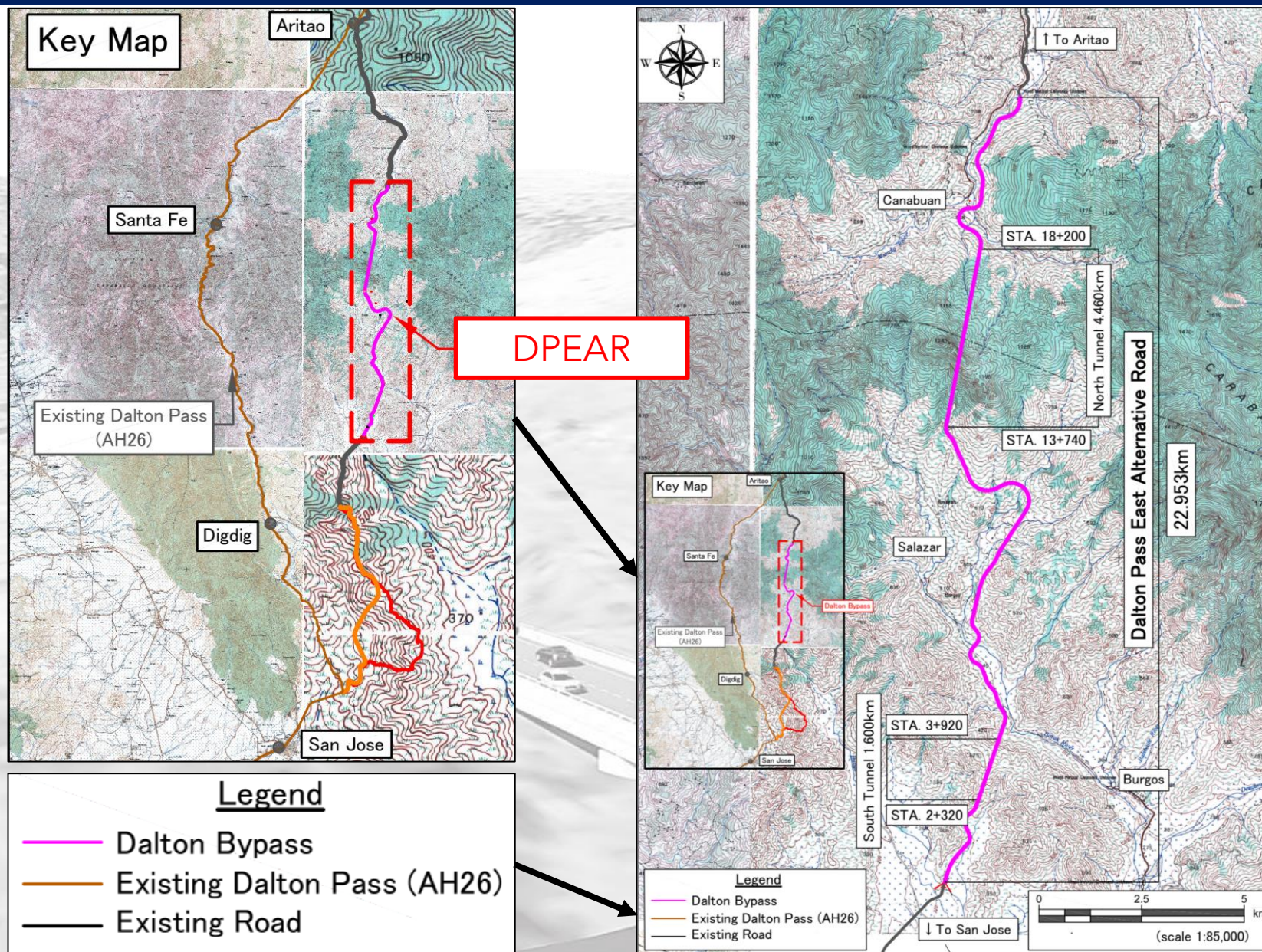
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| Dalton Pass East Alternative Road Project



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Katangian ng DPEAR Project



Kabilang sa prayoridad na proyekto ng kasalukuyang Administrasyon



Official Development Assistance (ODA) Project ng Japan International Cooperation Agency (JICA)



Dalton Pass nuong Luzon Earthquake, 1990
Photo credits: Robert John Martin Gunabe

Nabuo ang plano ng proyekto upang hindi maulit ang nangyari nuong 1990 Luzon Earthquake



Kaybiang Tunnel Nasugbu-Ternate Highway
Maragondon, Cavite

20 beses na mas mahaba ang tunnel kesa sa Kaybiang Tunnel, kasalukuyang pinakamahabang *subterranean road tunnel*, na mayroong haba na 300 metro



Pantabangan-Carranglan Watershed Forest Reserve

Ilang bahagi ng proyekto ay pasok sa Pantabangan-Carranglan Watershed Forest Reserve (PCWFR)

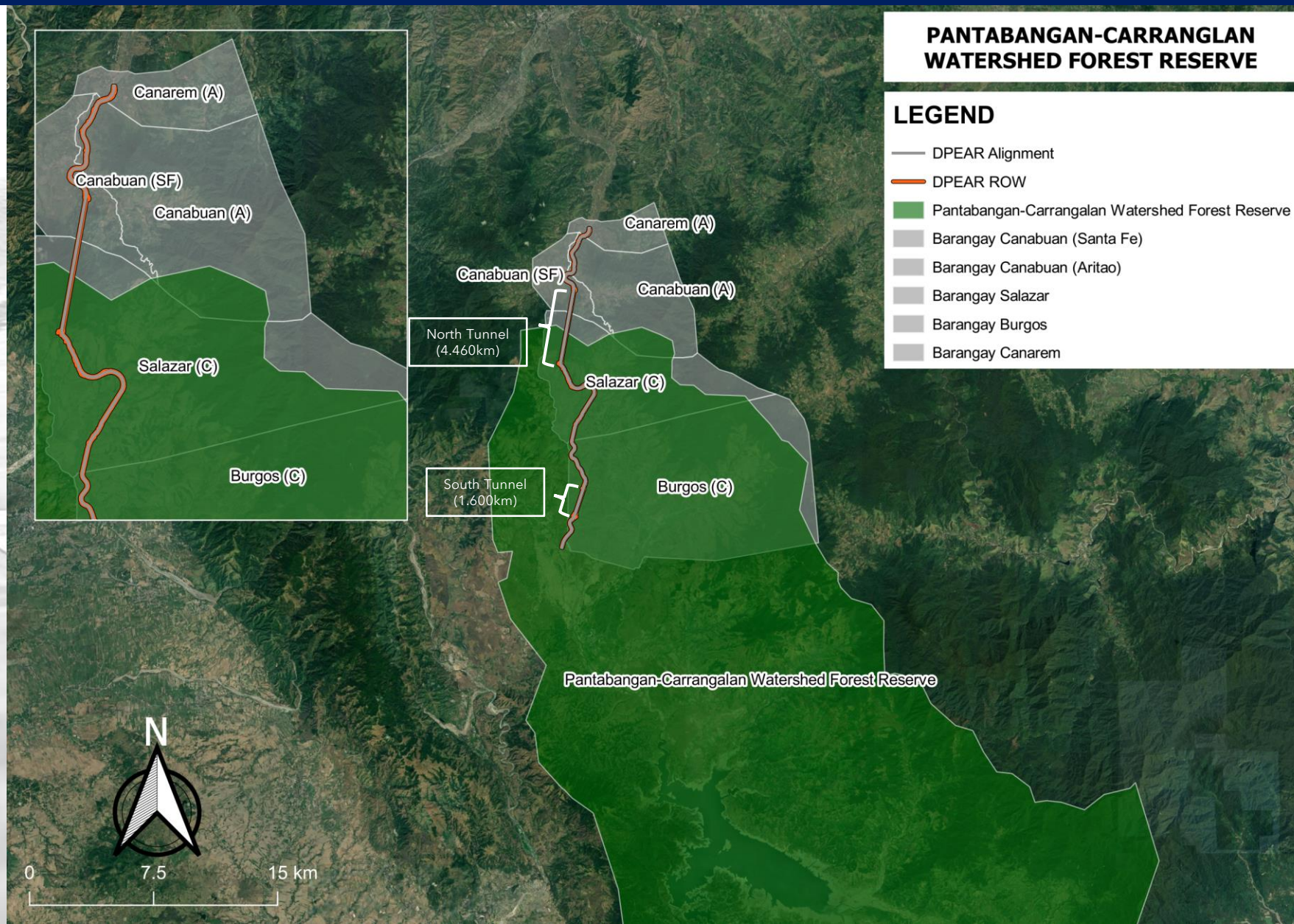


Ilang bahagi ng proyekto ay pasok sa 2 Ancestral Domains (ADs), at nakakuha na ng karampatang permiso (Certification Precondition) sa mga katutubo at NCIP



PCWFR

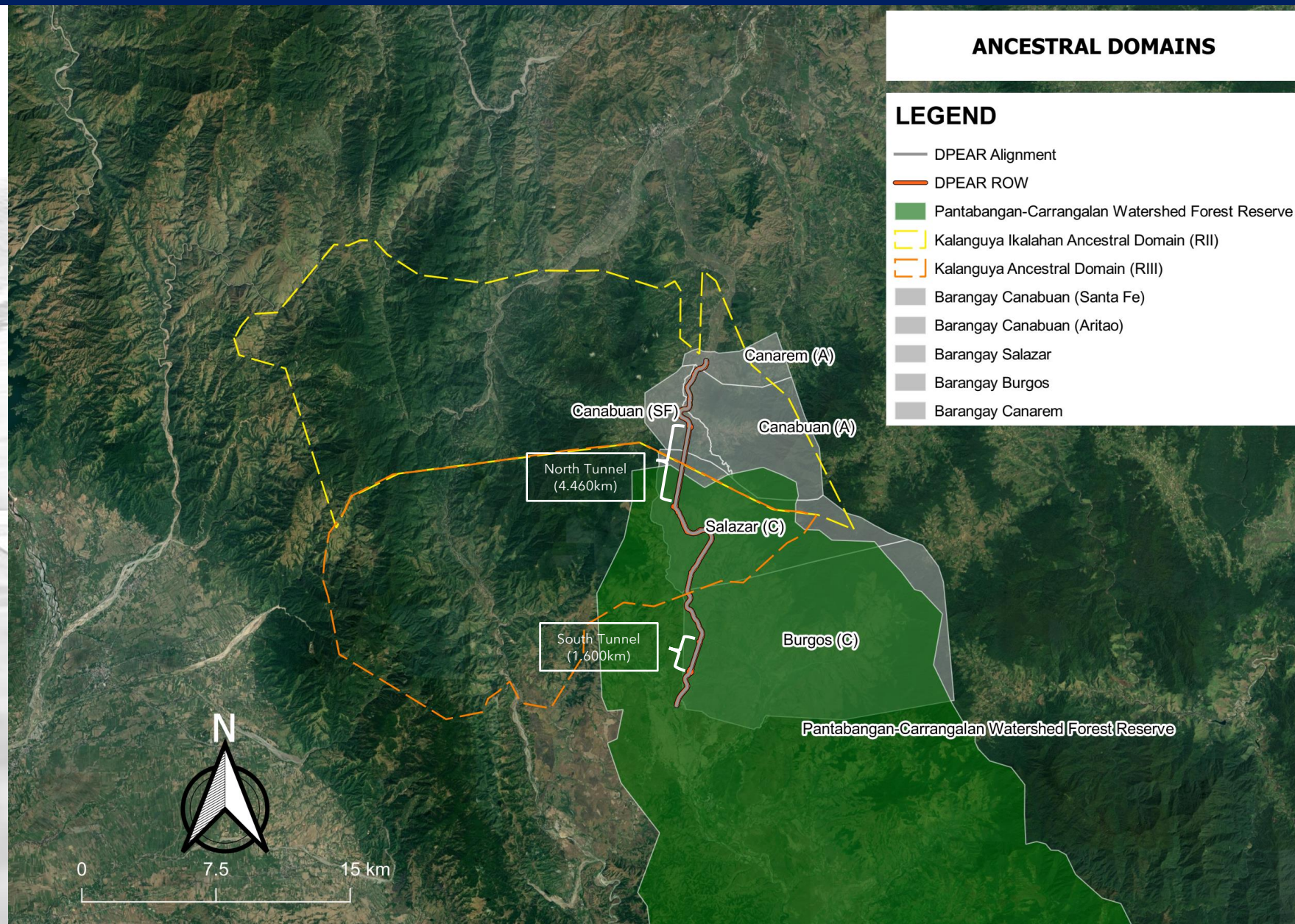
- Ang Pantabangan - Carranglan Watershed Forest Reserve ay isang protected area ayon sa Presidential Proclamation No. 561 taong 1969.
- Makikita sa mapa na may bahagi ng DPEAR ang papasok sa loob nito (Brgy. Burgos at Brgy. Salazar).
- Ang DPWH ay tuloy-tuloy na nakikipagugnayan sa DENR, PENRO/CENRO at PAMB para sa DPEAR.





Ancestral Domains

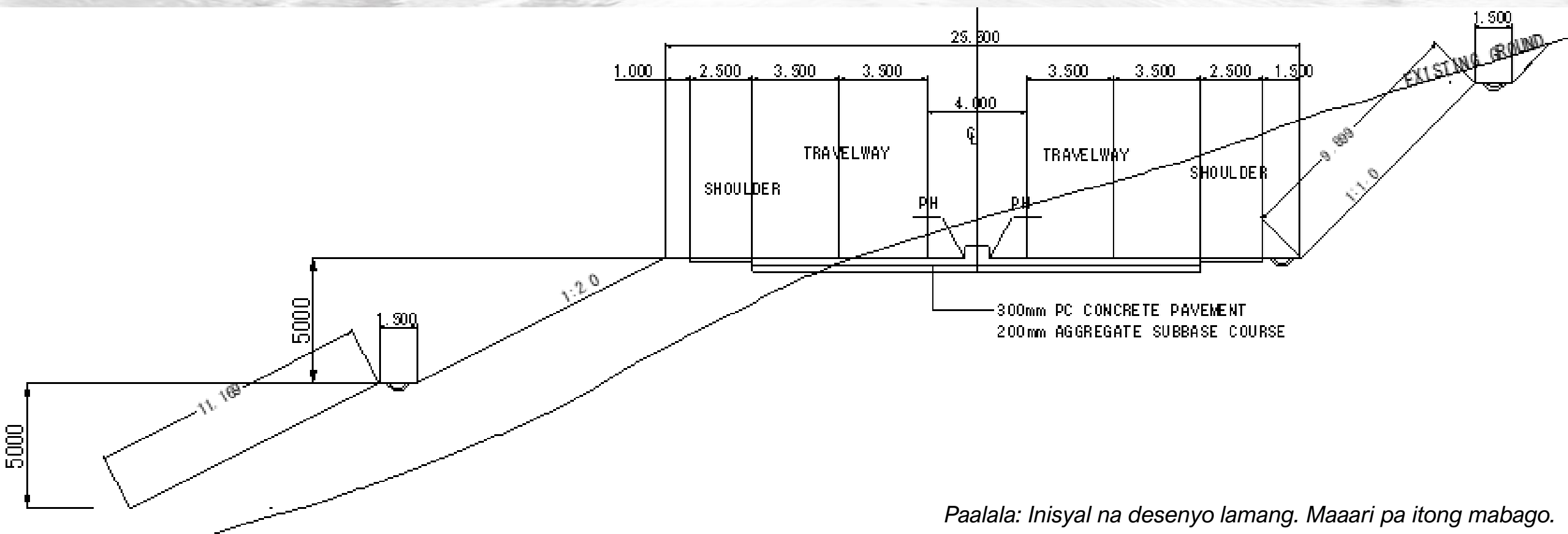
- Malaking bahagi ng DPEAR ay saklaw ng Ancestral Domains (AD) ng mga katutubo sa Nueva Ecija at Nueva Vizcaya.
- Nagkaroon ng pakikipag-ugnayan at kasunduan ang DPWH, kasama ang NCIP, sa mga katutubo sa pamamagitan ng pagsasagawa ng Free and Prior Informed Consent (FPIC) ayon sa RA No. 8371 o IPRA Law.





Kalsada

- Ang disenyo ay nakabase sa DPWH Design Guidelines, Criteria & Standards (DGCS), 2015.
- 4 na linya ang kalsadang gagawin.
- Disenyo para sa bilis ng mga sasakyan: 80 km/hr. (rolling terrain) at 70 km/hr. (mountainous terrain)



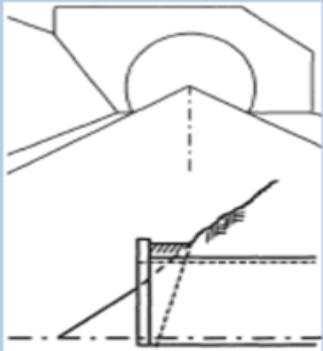
Paalala: Inisyal na disenyo lamang. Maaari pa itong mabago.



Tunnel

No.	Item	Description	Standard
1	Traffic and Number of tunnel tube	1 main tunnel of 2-way traffic and 1 evacuation tunnel.	Road Structure Ordinance (JP)
3	Lane width	3.35m	DGCS: Vol. 4 2015
4	Vertical clearance	5.0 m	DGCS: Vol. 4 2015, P. 3-81
5	Width of shoulder	1.25 m	DGCS: Vol. 4 2015, P. 3-65
6	Width of sidewalk	0.50 m	DGCS: Vol. 4 2015, P. 3-81
7	Width of maintenance walk	0.75 m	NEXCO standard
8	Height of maintenance walk	0.90 m	NEXCO standard
9	Maximum gradient	3.0%	Road Structure Ordinance (JP) 2004
10	Minimum gradient	0.5%	Road Structure Ordinance (JP) 2015
11	Vertical clearance of maintenance walk	2.00 m	NEXCO standard
12	Interval of emergency crossing passage for vehicle	375 m	Technical Standard for Road Tunnel (Structure Division)
13	Interval of emergency crossing passage for vehicle	750 m	Technical Standard for Road Tunnel (Structure Division)
14	Interval of emergency parking lane	375 m	Technical Standard for Road Tunnel (Structure Division)
15	Ventilation	Mechanical Jet-fan	Technical Standard for Road Tunnel (Ventilation Division)

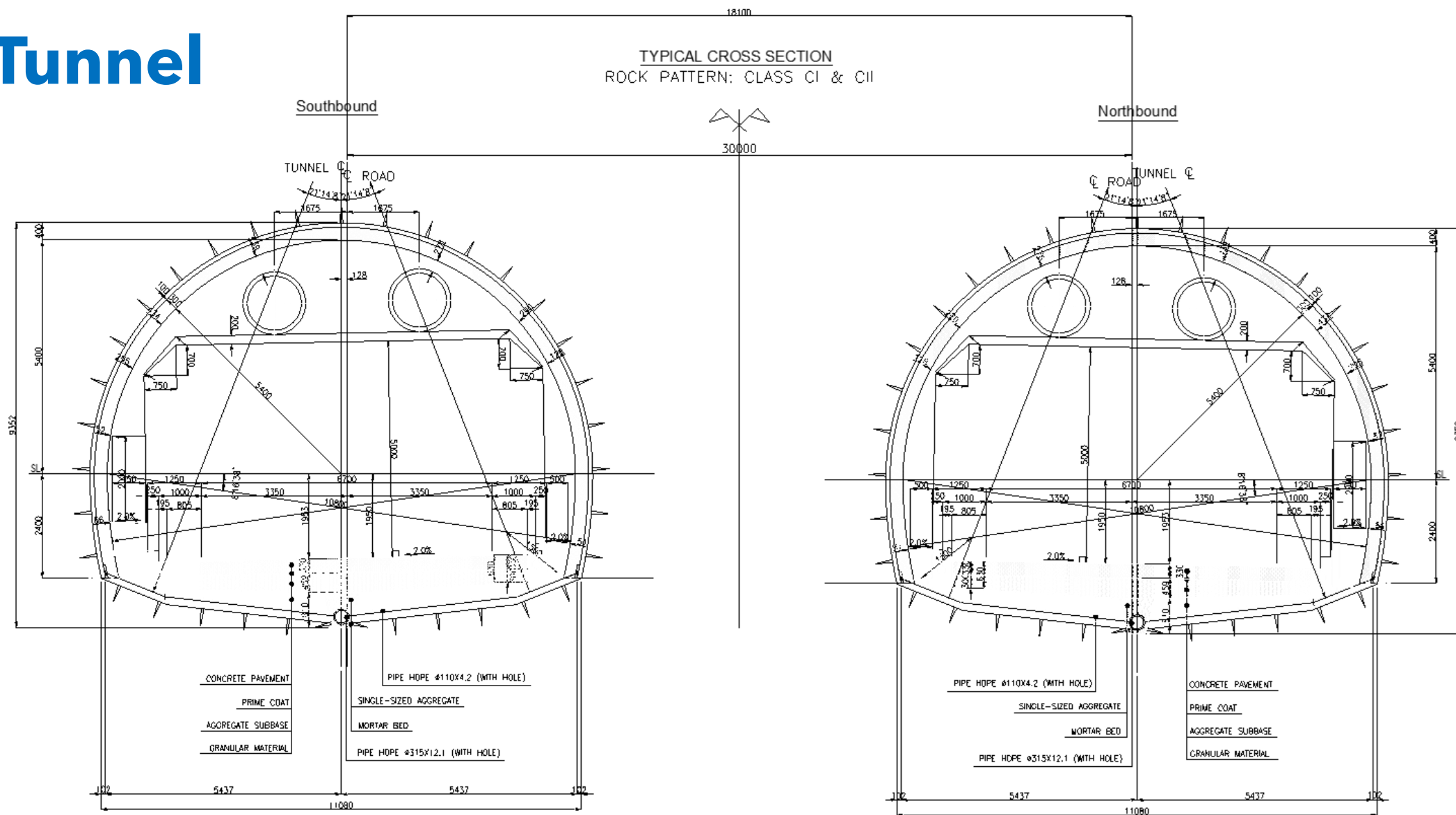
Source: JICA Study Team

Type Item	Wall Type
	Wing Type
Shape	
Overview	Planned as an earth retaining wall by cutting the ground. Economical because tunnel length can be shortened. Adopted for most railway tunnels.
Ground conditions appropriate for application	<ul style="list-style-type: none"> - Comparatively steep topographic features where ground will be cut and portal will be constructed - Where an earth retaining wall or enlarged retaining wall will be constructed for an oblique type slope.
Meteorological conditions appropriate for application	- Few problems even when used in snowy areas.



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Tunnel

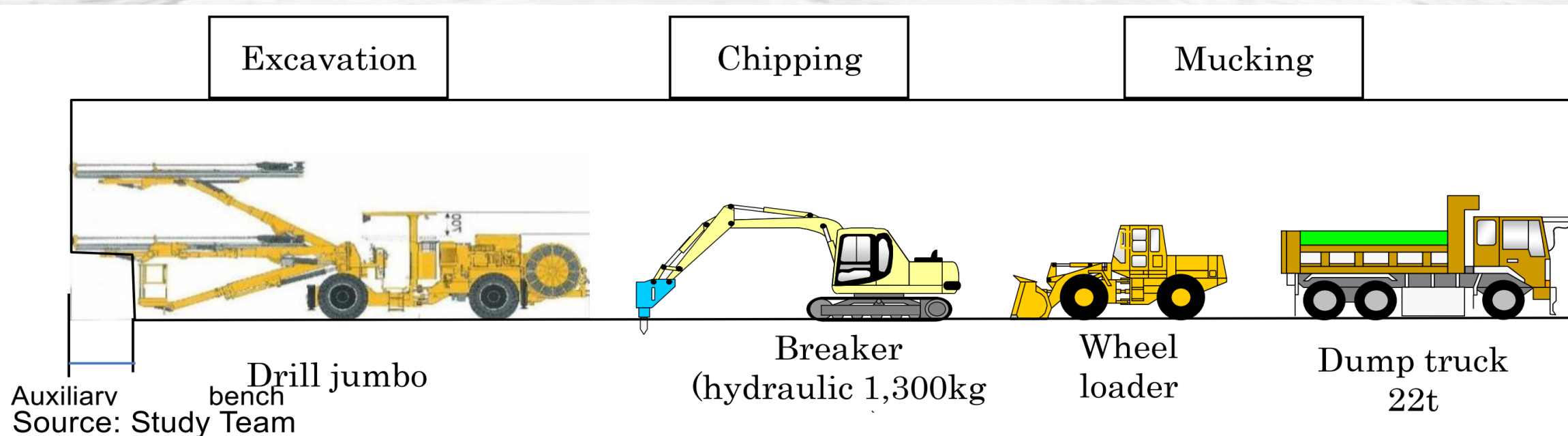


Paalala: Inisyal na disenyo lamang. Maaari pa itong mabago.



Tunnel Construction Methodology

- Ang tunnel ay gagawin sa pamamagitan ng New Austrian Tunneling Method (NATM).



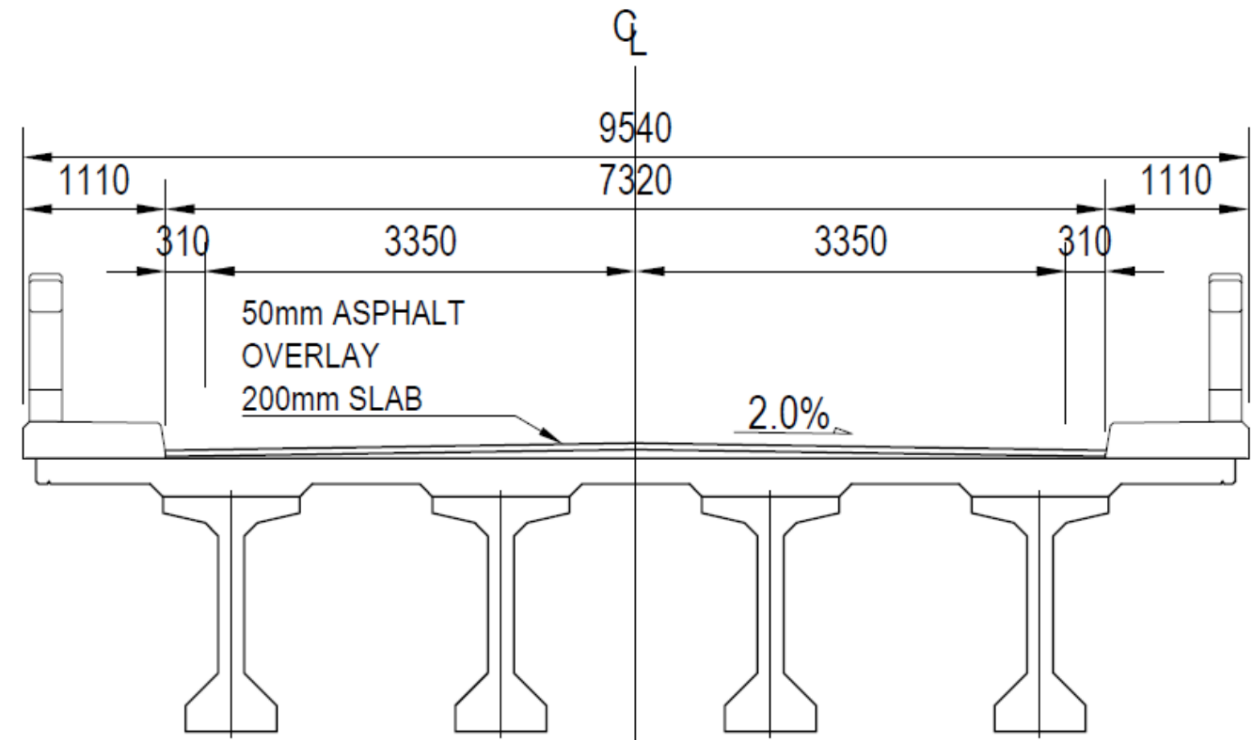


Tulay

No.	Technical Standard	Year
1	Design Guidelines, Criteria and Standards Volume V (DPWH)	2015
2	LRFD Bridge Seismic Design Specifications, 1st Edition, 2013 & Interim Revision 2019 (BSDS) (DPWH)	2019
3	LRFD Bridge Design Specifications 8th Edition (AASHTO)	2018
4	LRFD Bridge Construction Specifications 3rd Edition (AASHTO)	2016
5	Specifications for Highway Bridges (Japan Road Association)	2017

No.	Item		Value
1	Design Flood Level (DFL)	River	5m from riverbed
		Irrigation canal	5m from riverbed
2	Freeboard		1.5m
3	Construction Limit (Project Road)		5m

Source: JICA Study Team



Source JICA Study Team



Disposal Area

- Ang mga mahuhukay na lupa sa paggawa ng tunnel ay dadalhin sa mga nakatakdang disposal area.
- Maari ding magamit ang mga lupa bilang panambak sa paggawa ng kalsada.
- Ang mga disposal area ay ilalagay sa mga lupain malapit sa mga tunnel (North Tunnel at South Tunnel).

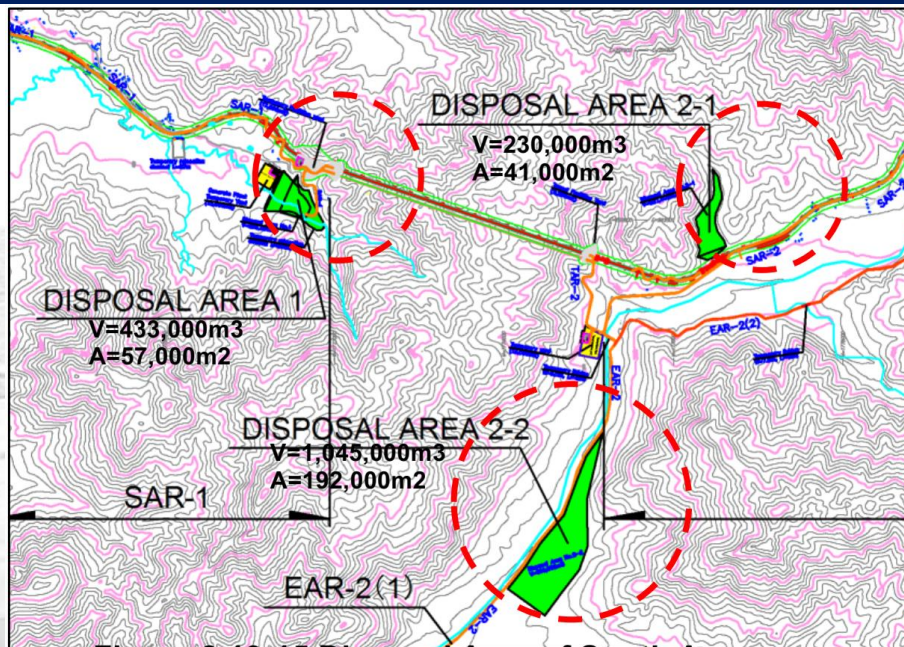
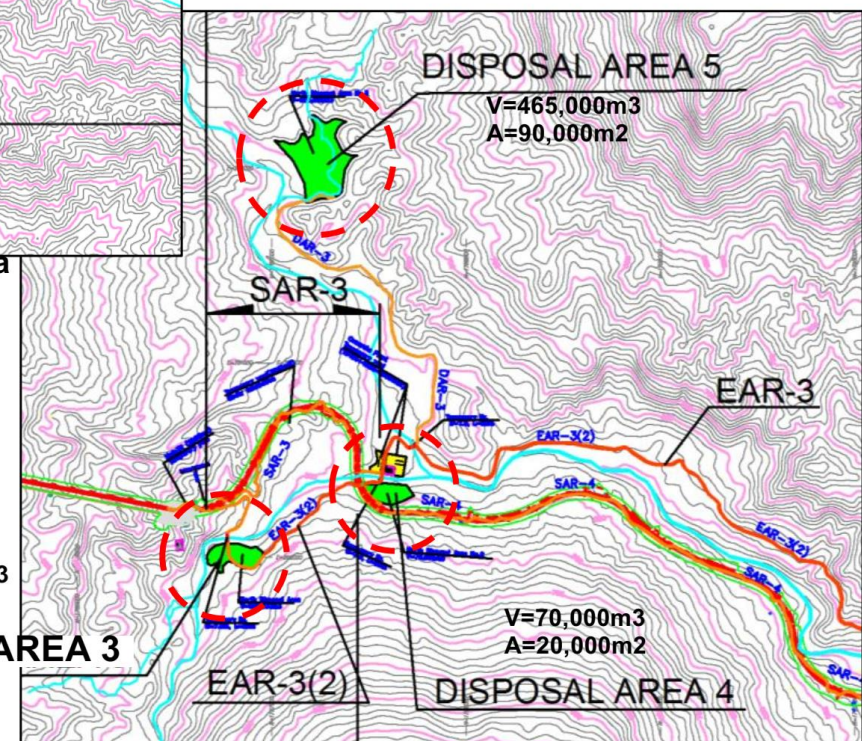


Figure 8.13-15 Disposal Area of South Area



Source: Study Team

Figure 8.13-16 Disposal Area of North Side


Selected Route	South area (m3)		North Area (m3)	
	No.1		No.3	
R3a	No.1	433,000	No.3	162,000
	No.2-1	230,000	No.4	70,000
	No.2-2	1,045,000	No.5	465,000
Total		1,708,000		697,000

Source: Study Team

Soil Disposal Area

Dalton Pass East Alternative Road Project

Legend


 DPEAR Alignment

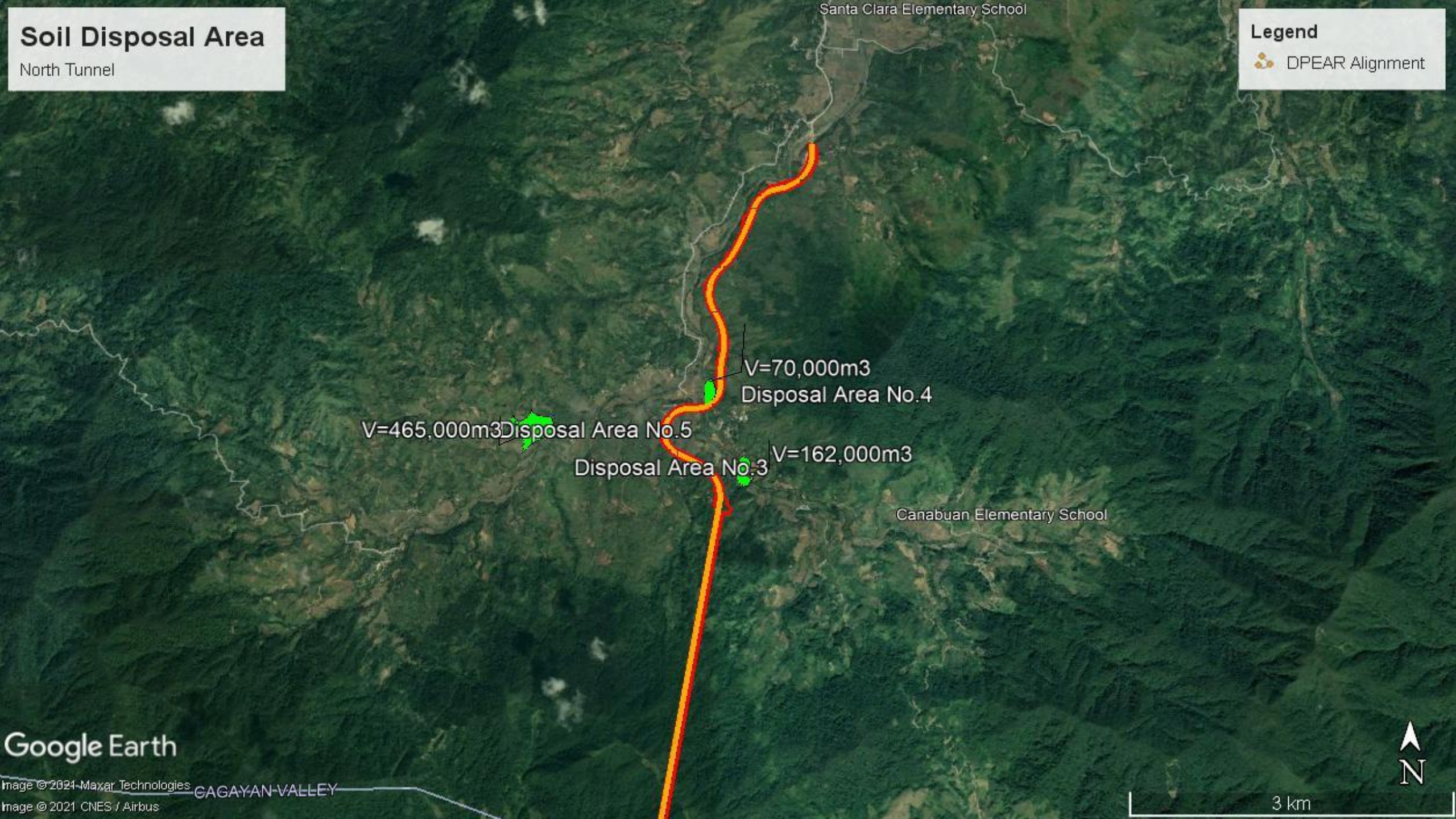


Soil Disposal Area

North Tunnel

Legend

 DPEAR Alignment



Google Earth

GAGAYAN-VALLEY



N

3 km

Soil Disposal Area

South Tunnel

Legend

 DPEAR Alignment

V=230,000m³ Disposal Area No.2-1

V=1,045,000m³ Disposal Area No.2-2

Daldalayap Elementary School

Kingdom Hall of Jehovah's Witnesses

V=433,000m³

Bunga Elementary School


N

 3 km



Iskedyul ng Proyekto

Project Phase	Timeframe
Preparation Phase <i>(Mga Pag-aaral)</i>	2019 hanggang 2022
NEDA Approval	2022
Design Phase <i>(Detalyadong Disenyo)</i>	2023 hanggang 2024
Construction <i>(Konstruksyon)</i>	3 rd Qtr. of 2025 hanggang 2028
Operation <i>(Operasyon at Maintenance)</i>	2029 -



Institutional Set-up ng DPEAR para sa mga Pag-aaral



DPWH UPMO
RMC-I (Bilateral)



JICA STUDY TEAM
(JV)

Environmental Impact
Assessment (EIA) &
Gender Analysis
(LCI Envi Corporation)

Resettlement Action Plan
(RAP)
(Earthus)

Indigenous Peoples Plan
(IPP)
(Consultant)



| Dalton Pass East Alternative Road Project



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MGA GAWAIN AT AKTIBIDAD PARA SA EIA

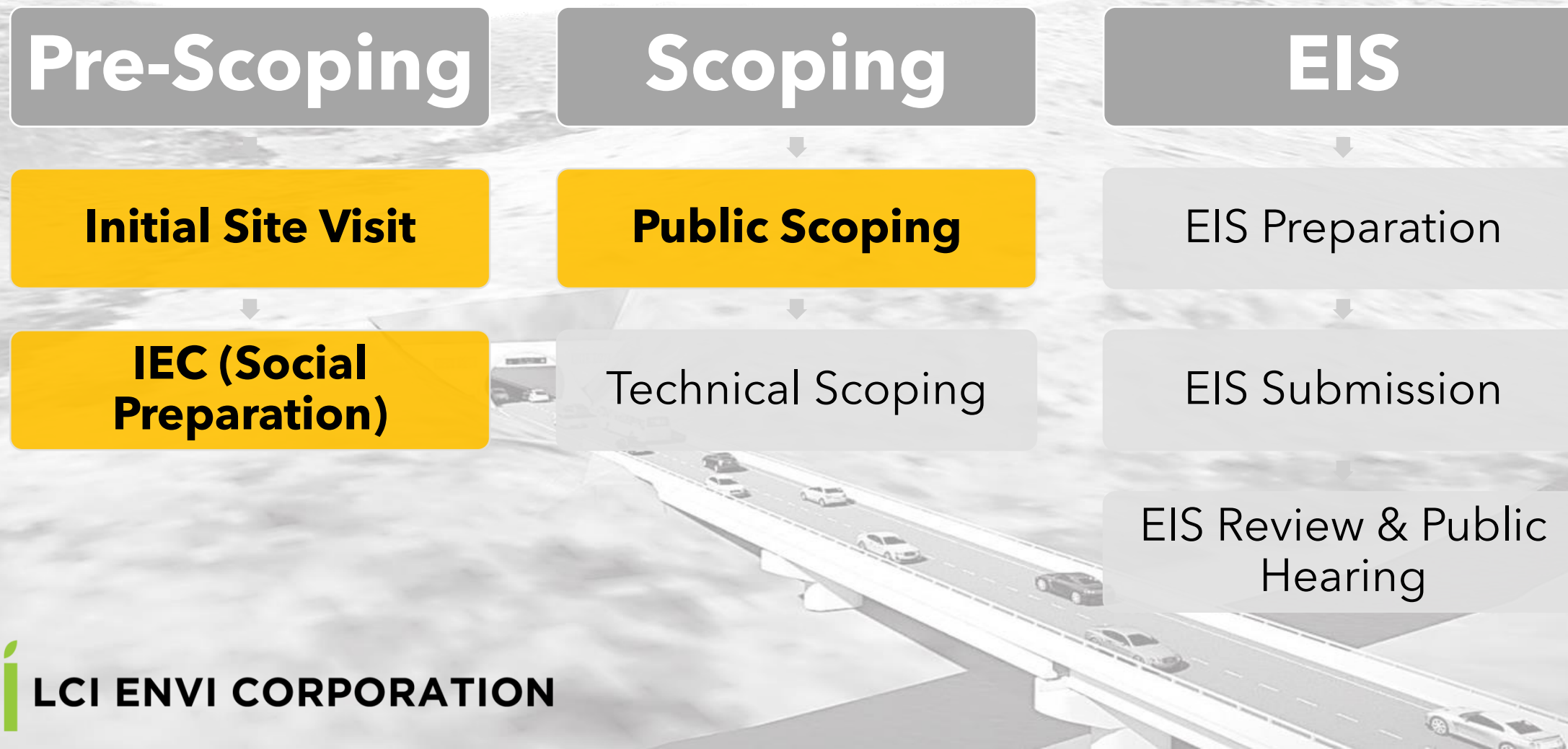
Dalton Pass East Alternative Road Project

16 November 2021 | 1:00pm to 3:00pm |
Zoom.us





Mga Gawain at Aktibidad para sa EIA (ECC Application Process)





Mga Gawain at Aktibidad para sa EIA



LAND

AERIAL SURVEY
SOIL SAMPLING
TERRESTRIAL
FLORA & FAUNA



WATER

WATER
SAMPLING



AIR

AIR & NOISE
SAMPLING
VIBRATION
MONITORING



PEOPLE

FOCUS GROUP
DISCUSSION
CONSULTATION
MEETINGS
PERCEPTION
SURVEY



Information and Education Campaign (IEC)

LGU	DATE & TIME	MALE PARTICIPANTS	FEMALE PARTICIPANTS	TOTAL PARTICIPANTS
Aritao, Nueva Vizcaya	30 June 2021 9:00-11:00AM	8	4	12
Santa Fe, Nueva Vizcaya	1 July 2021 9:00-11:00AM	8	4	12
Carranglan, Nueva Ecija	2 July 2021 9:00-11:00AM	11	6	17
TOTAL		27	14	41





Buod ng mga Tinalakay na Isyu sa IEC (Aritao, NV)

ISSUE/CONCERN RAISED	RAISED BY	RESPONSE FROM THE PROPONENT/CONSULTANT
Where will the drilled materials from tunneling be disposed?	Municipal Planning and Development Coordinator	DPWH: Spoils disposal areas have been identified near the portals of the tunnels, subject for finalization and approval. Some of the spoils may be used as fill materials for the project.
Will you incorporate the tourism potential and features in the project design?	Municipal Agriculture Officer	EIA Study Team: The tourism potential and features will be brought up to DPWH and JICA.
Will there be resettlement in the project?	Municipal Social Welfare and Development Officer	EIA Study Team: Resettlement considerations are part of the JICA study for the project. A separate study team will be preparing a resettlement action plan (RAP) for the project.
Will there be agricultural areas that will be affected by the proposed project?	Municipal Agriculture Officer	EIA Study Team: The project-affected lands (agriculture and non-agriculture) and structures will be discussed during the RAP study team.



Buod ng mga Tinalakay na Isyu sa IEC (Santa Fe, NV)

ISSUE/CONCERN RAISED	RAISED BY	RESPONSE FROM THE PROPONENT/CONSULTANT
<p>This is a good project.</p> <p>How about the road issues of the existing Dalton Pass?</p>	<p>Municipal Planning and Development Coordinator</p>	<p>DPWH:</p> <p>The proposed alternative road will allow for DPWH to address the issues and give opportunity to implement rehabilitation of the existing Dalton Pass.</p> <p>There is also an ongoing road widening across the Pan Philippine Highway.</p>
<p>Is the project part of the North-East Luzon Expressway (NELEX)?</p>	<p>Municipal Administrator</p>	<p>DPWH:</p> <p>The project is not part of NELEX.</p>
<p>Why not widen the existing expressway in San Nicolas, Pangasinan?</p> <p>Our concern is on the economic impact once traffic is diverted from existing Dalton Pass to the alternative road.</p>	<p>Indigenous Peoples Mandatory Representative</p>	<p>DPWH:</p> <p>San Nicolas, Pangasinan was originally envisioned as the alternate route but was strongly opposed by the IPs during the Free and Prior Informed Consent (FPIC).</p> <p>DPWH did not push through with the alignment/project due to strong opposition.</p> <p>The economic implications of the project to the municipality of Santa Fe will be part of the study. The project will undergo evaluation by the National Economic and Development Authority (NEDA).</p>



Buod ng mga Tinalakay na Isyu sa IEC (Carranglan, NE)

ISSUE/CONCERN RAISED	RAISED BY	RESPONSE FROM THE PROPONENT/CONSULTANT
<p>The on-going study on NELEX:</p> <p>Private domains (including agricultural areas) and ancestral lands that will be affected.</p> <p>Both NELEX and DPEAR projects can affect agricultural areas in Carranglan. Agriculture is the main source of livelihood in the municipality.</p>	<p>Municipal Planning and Development Coordinator</p>	<p>DPWH:</p> <p>NELEX is under DPWH-UPMO-RMCII (Multilateral).</p> <p>Due to the complexity of the project, the cost is too much high and the EIRR is below the required value, therefore not economically feasible.</p> <p>Regarding the effects to agriculture (food security and economy), this will be included in the study being conducted for the proposed project.</p>
<p>Who will undertake the operations and maintenance (O&M) of the existing segments?</p>	<p>Municipal Planning and Development Coordinator</p>	<p>DPWH:</p> <p>The O&M for the existing segments is within jurisdiction of the DPWH Regional Office and District Engineering Offices (DEOs).</p>
<p>It is important that all those who will be affected by the project will be properly compensated and supported.</p>	<p>Mayor Mary Abad</p>	<p>EIA Study Team:</p> <p>Consultations will be conducted by EIA Team, RAP Team, IP Team for all stakeholders.</p>



| Dalton Pass East Alternative Road Project



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INAASAHANG EPEKTO NG PROYEKTO AT
MITIGASYON

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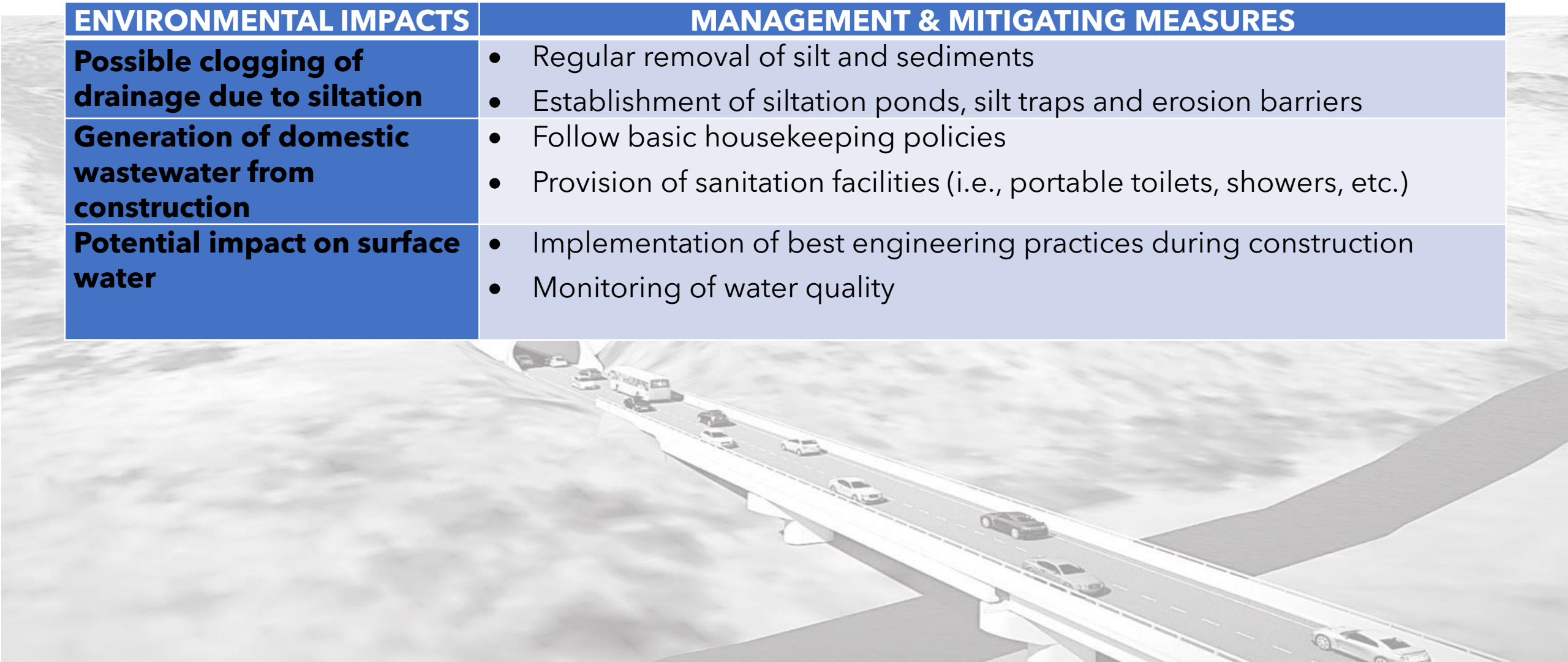
Para sa Environmental Component: Lupa

ENVIRONMENTAL IMPACTS	MANAGEMENT & MITIGATING MEASURES
Accumulation of construction debris and other solid waste	<ul style="list-style-type: none">• Implementation of the solid waste management program by the contractor• Regular transport of construction debris and other solid waste in the approved designated area by the DENR
Generation hazardous wastes (used oil, busted bulbs)	<ul style="list-style-type: none">• Segregation of hazardous materials by waste type• Wastes stored and sealed in labeled containers• Wastes are treated and disposed by DENR-EMB accredited transporters, haulers, and treaters
Generation of excavated soil from excavation and tunneling	<ul style="list-style-type: none">• Provision of on-site disposal site• Regular hauling of excavated soil• Reuse of excavated soil as backfill
Possible damage of nearby properties due to ground vibration during construction works	<ul style="list-style-type: none">• Apply non-vibration and/or vibration-avoiding techniques during construction, if possible• Notify nearby residents about use of heavy equipment• Regularly monitor vibrations• For hauling trucks, comply with road weight limit standards to avoid ground vibration
Slope failures, landslides, and subsidence during tunneling activities	<ul style="list-style-type: none">• Apply excavating techniques giving few or no impacts on landslide and surface conditions• Proper reinforcement of excavation and tunneling sections• Implementation of construction management plan and best engineering practices



Para sa Environmental Component: Tubig

ENVIRONMENTAL IMPACTS	MANAGEMENT & MITIGATING MEASURES
Possible clogging of drainage due to siltation	<ul style="list-style-type: none">• Regular removal of silt and sediments• Establishment of siltation ponds, silt traps and erosion barriers
Generation of domestic wastewater from construction	<ul style="list-style-type: none">• Follow basic housekeeping policies• Provision of sanitation facilities (i.e., portable toilets, showers, etc.)
Potential impact on surface water	<ul style="list-style-type: none">• Implementation of best engineering practices during construction• Monitoring of water quality





Para sa Environmental Component: Hangin

ENVIRONMENTAL IMPACTS	MANAGEMENT & MITIGATING MEASURES
Generation of dust during construction	<ul style="list-style-type: none">• Minimize/prevent unnecessary earth-movement• Regular watering of construction sites that will generate dust• Avoid long exposure of excavated soil piles to strong winds by applying canvass covers
Generation of air emissions & noise during construction	<ul style="list-style-type: none">• Proper and regular maintenance of heavy equipment and vehicles• Perform noisy activities during daytime





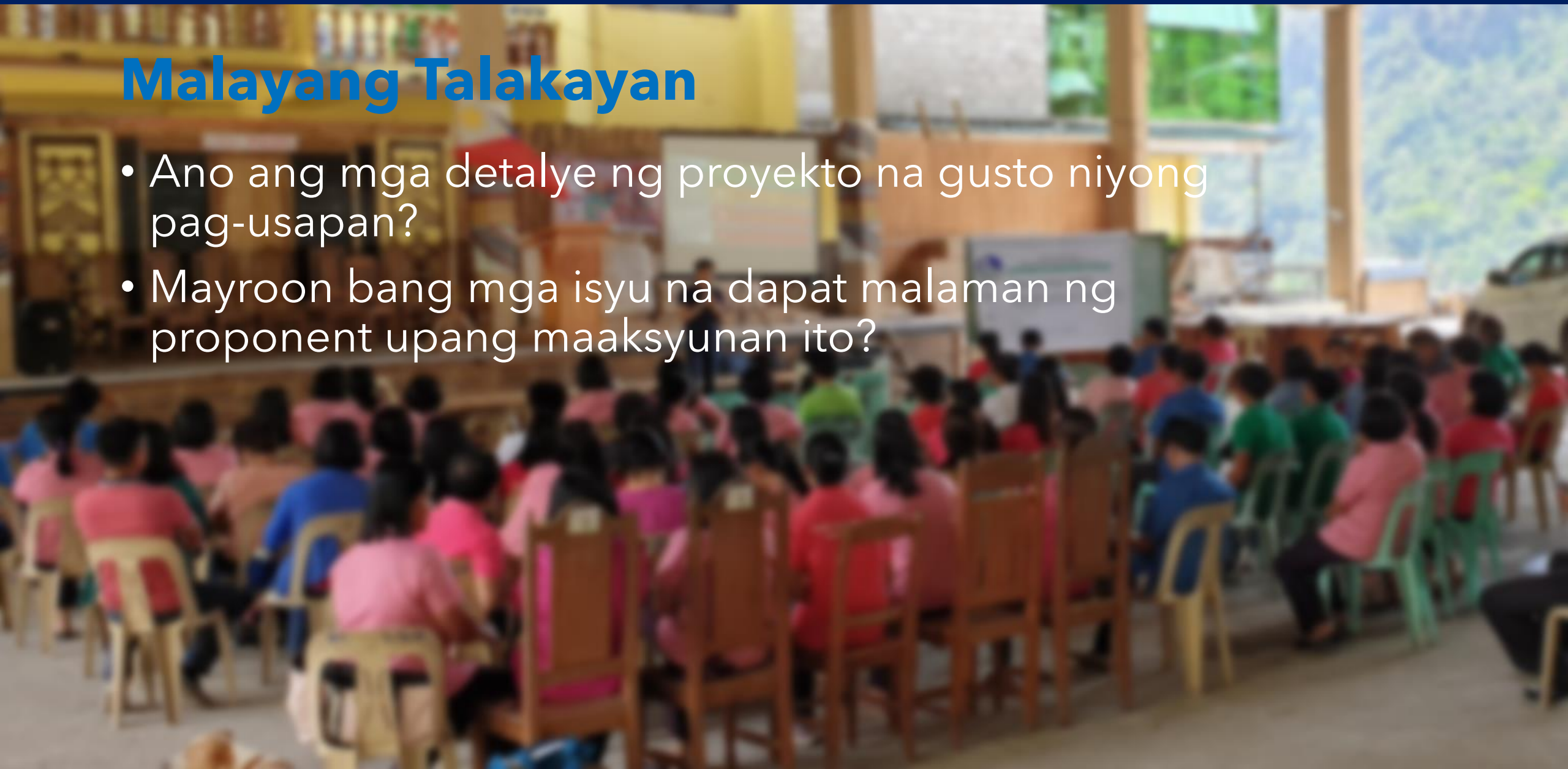
Para sa Environmental Component: Tao

ENVIRONMENTAL IMPACTS	MANAGEMENT & MITIGATING MEASURES
Increased occupational safety and health risks during construction	<ul style="list-style-type: none">• All personnel are required to wear proper personal protective equipment (PPE)• All civil and electro-mechanical works will be supervised by trained engineers• First-aid stations, safety equipment and signage shall be made available on working areas
Generation of employment, taxes and additional income	<ul style="list-style-type: none">• Prioritize hiring of qualified residents of the host communities• Prioritize purchasing of local items, if applicable, within the host communities
Involuntary resettlement	<ul style="list-style-type: none">• Develop Resettlement Action Plan (RAP)• Provision of compensation to affected households based on RA No. 10752 and DPWH DO No. 124 series of 2017
Potential impacts on Indigenous Peoples	<ul style="list-style-type: none">• Conduct Free and Prior Informed Consent (FPIC)• Obtain Certification Precondition (CP)• Develop Indigenous People's Development Plan (IPDP)
Generation of traffic during construction	<ul style="list-style-type: none">• Provide early warning devices/road signs• Provide parking spaces within project site• Implement Traffic Management Plan• Coordinate with the concerned LGU offices



Malayang Talakayan

- Ano ang mga detalye ng proyekto na gusto niyong pag-usapan?
- Mayroon bang mga isyu na dapat malaman ng proponent upang maaksyunan ito?





Para sa mga katanungan tungkol sa EIA, maaaring makipag-ugnayan sa mga sumusunod:



Department of Public Works and Highways
Roads Management Cluster I (Bilateral)
Unified Project Management Office

- **Email:** rmc1bupmodpwh@gmail.com
- **Telepono:** +63 (8) 304 3901



LCI ENVI CORPORATION

- **Email:** info@lci-envi.com
- **Telepono:** +63 (8) 652 5890



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MARAMING SALAMAT PO!

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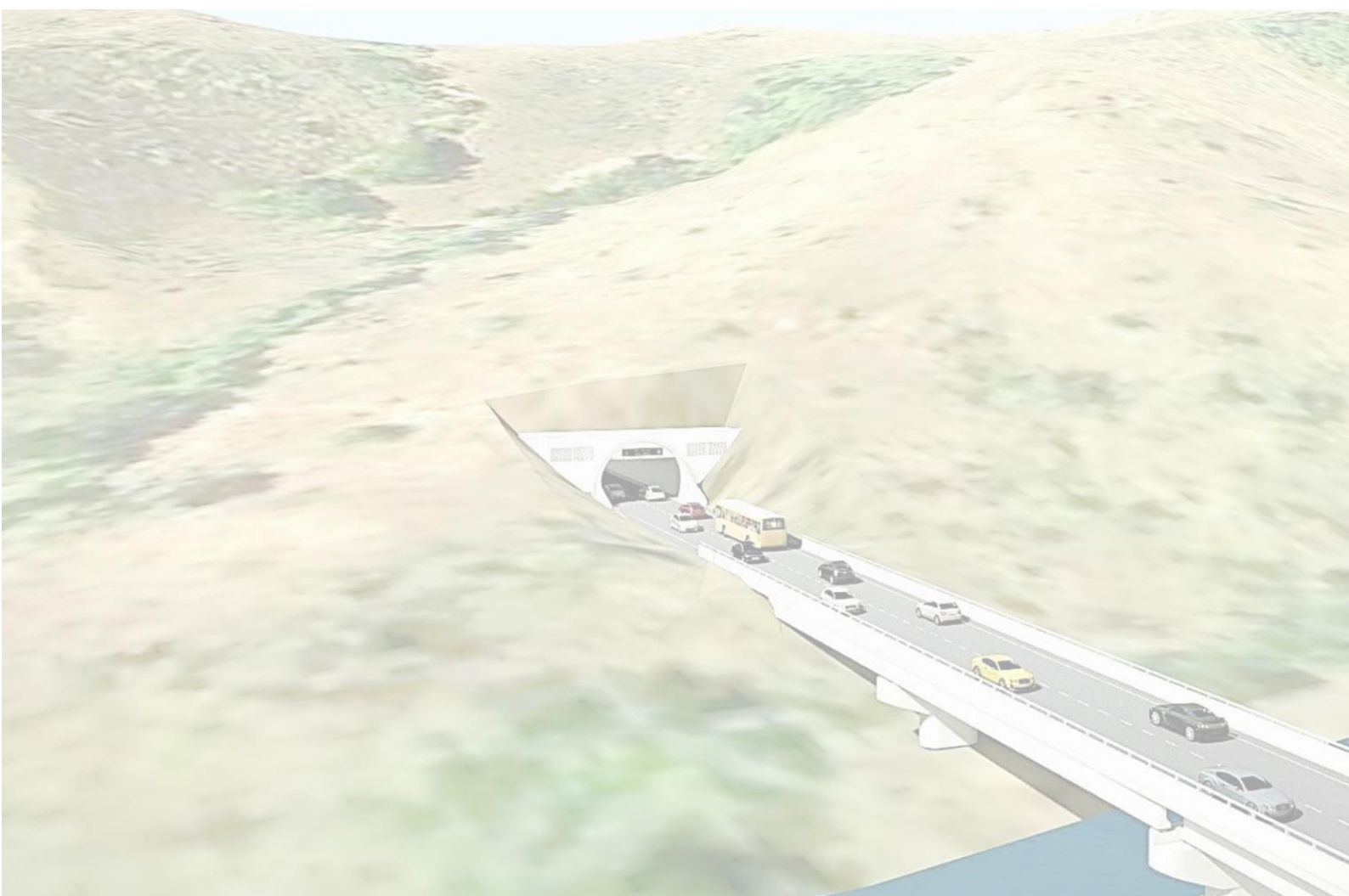
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Documentation Report

PUBLIC CONSULTATION MEETING

DALTON PASS EAST ALTERNATIVE ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija



November 2022



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Table 3:	Matrix of Issues and Concerns raised during the Public Consultation Meeting	5

LIST OF ATTACHMENTS

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Attachment 2 :	Posting of Posters/Banners
Attachment 3 :	PCM Attendance Sheet
Attachment 4 :	PCM Presentation Material



PUBLIC CONSULTATION MEETING (PCM)

1.1 RATIONALE AND OBJECTIVES

- 1 The main objective of the consultation meeting was to inform the host community about the development of the proposed Dalton Pass East Alternative Road Project and to give them the opportunity to express their opinions on the presented potential impacts and mitigation measures of the project. This activity will allow the Project proponent, DPWH, to examine and respond to such comments to avoid potential conflicts or complaints in the future.
- 2 This **Documentation Report** covers the **Public Consultation Meetings** held in the Municipalities of Aritao and Santa Fe in Nueva Vizcaya, and Carranglan in Nueva Ecija.

1.2 PREPARATION FOR THE PCM

- 3 To achieve a meaningful consultation, the **DPWH** invited the following stakeholder groups for the Public Consultation Meeting:

A. LGUs in areas where all project facilities are proposed to be constructed/situated and where all operations are proposed to be undertaken

1. Santa Fe, Nueva Vizcaya (host municipality)
2. Aritao, Nueva Vizcaya (host municipality)
3. Carranglan, Nueva Ecija (host municipality)

B. Barangay LGUs:

1. Brgy. Canabuan, Aritao (host barangay)
2. Brgy. Canarem, Aritao (host barangay)
3. Brgy. Canabuan, Santa Fe (host barangay)
4. Brgy. Poblacion, Santa Fe (adjacent barangay)
5. Brgy. Bunga, Carranglan (host barangay)
6. Brgy. Burgos, Carranglan (host barangay)
7. Brgy. Salazar, Carranglan (host barangay)
8. Brgy. R.A. Padilla, Carranglan (adjacent barangay)

C. Interest groups, preferably those with mission/s specifically related to the type and impacts of the proposed undertaking

1. Indigenous Peoples Mandatory Representatives (IPMRs) representing the Ikalahan Kalanguya Ancestral Domain, Ikalahan Ancestral Domain, and Indigenous People from the host barangays
2. Women's Association
3. Youth Representatives
4. Transport Groups
5. Project Affected Persons (PAPs)
6. NGOs



- 4 The proof of receipts of Public Consultation Meeting invitation letters were presented as **Attachment 1** of this report.
- 5 Further, the EIA Study Team visited the host and neighboring barangays and municipal LGUs days prior to the conduct of the Public Consultation Meeting. Posters were given to the barangay and municipal officials/representatives as an invitation to the public (see **Attachment 2**).
- 6 The EIA Study Team also did follow-ups through text and call messages to ensure broad participation of the various stakeholders for the proposed project.
- 7 In the Municipality of Aritao, the invitation was also posted in their official Facebook page.



1.3 MEETING PROPER

- 8 The Public Consultation meeting for the Proposed Dalton Pass East Alternative Road Project was held on 24 November 2022 (Thursday) from 9:00 AM to 11:30 AM in Aritao Municipal Covered Court covering the host barangays of Canabuan and Canarem, and from 1:30 PM to 4:00 PM in Santa Fe Municipal Covered Court covering the host barangay of Canabuan. Moreover, another session was held on 25 November 2022 (Friday) from 9:00 AM to 11:30 AM in Carranglan Municipal (Pag-asa) Covered Court covering the host Barangays of Bunga, Burgos, and Salazar.
- 9 With the emergence of the Corona Virus Disease 2019 (COVID-19) in the Philippines, the conduct of the Public Consultation Meeting (PCM) was done with social distancing and adhered to guidelines and protocols for mass gatherings set by the Inter-Agency Task Force for the Management of Emerging Infectious Diseases (IATF).

1.3.1 Attendance

- 10 As presented in **Table 1**, a total of 161 participants (93 males and 68 females) participated in the consultation covering Aritao and Santa Fe in Nueva Vizcaya and Carranglan in Nueva Ecija. The attendance sheets are compiled as **Attachment 3** of this report.
- 11 The officials of each municipality attended the Public Consultation Meeting to hear updates on the environmental aspects of the proposed project.
- 12 It is worth noting that the participants from the host barangays are mostly Indigenous people who also represent other sectors like women, youth, and senior citizens and/or who also occupy a position in the Barangay LGU.



Table 1: Composition of the PCM Participants

DATE & TIME		ATTENDEES	PARTICIPANTS		
			MALE	FEMALE	TOTAL
Aritao, Nueva Vizcaya					
23 November 2022 9:00 – 11:30 AM	LGU Aritao		6	3	9
	<ul style="list-style-type: none">Municipal Vice MayorSB MemberMENROMunicipal IPMR				
	Barangay Canabuan		13	13	26
	<ul style="list-style-type: none">Barangay OfficialsBarangay IPMRWomen’s AssociationNon-Government OfficeIndigenous People				
	Barangay Canarem		5	3	8
	<ul style="list-style-type: none">Barangay OfficialsYouth RepresentativeWomen’s AssociationBACDI AssociationAbot-Palad (Women’s Group)				
	DENR-EMB Region II		1	1	2
	DENR-PENRO Nueva Vizcaya		2	1	3
	DENR-CENRO		0	1	1
DPWH Representatives		1	2	3	
LCI (Local Consultant)		3	1	4	
		SUB-TOTAL	31	25	56
Santa Fe, Nueva Vizcaya					
23 November 2022 9:00 – 11:30 AM	LGU Santa Fe		8	3	11
	<ul style="list-style-type: none">Municipal MayorMunicipal AdministratorMunicipal Planning and Development CoordinatorMunicipal EngineerMunicipal Health OfficerSB MemberStaff				
	Santa Fe Office of the Senior Citizens Representative		1	0	1
	Transport Cooperative Representative		2	0	2
	Barangay Canabuan		5	3	8
	<ul style="list-style-type: none">Barangay OfficialsBarangay IPMRIP ElderWomen’s Association (BATWA & Baracbac)				
	Barangay Poblacion		2	0	2
	<ul style="list-style-type: none">Barangay Officials				
	DENR-EMB Region II		1	1	2
	DENR-PENRO Nueva Vizcaya		2	1	3
	DENR-CENRO		0	1	1
	DPWH Representatives		1	2	3
	LCI (Local Consultant)		3	1	4
		SUB-TOTAL	25	12	37



DATE & TIME	ATTENDEES	PARTICIPANTS		
		MALE	FEMALE	TOTAL
Carranglan, Nueva Ecija				
23 November 2022 9:00 – 11:30 AM	LGU Carranglan <ul style="list-style-type: none">• Municipal Administrator• Municipal Planning and Development Coordinator• Municipal Engineer• MENRO• Tourism Officer• Clerk	5	1	6
	Barangay Bunga <ul style="list-style-type: none">• Barangay Officials and staff• PAPs (Sitio Laat)• Women’s Association• Senior Citizens’ Representative• Barangay IPMR	12	10	22
	Barangay Burgos <ul style="list-style-type: none">• Barangay Officials and staff• Youth Representative• Sitio Leader• Barangay IPMR• IP Elder	4	6	10
	Barangay Salazar <ul style="list-style-type: none">• Barangay Officials• Senior Citizens’ Representative• People’s Organization Representative• BMPAI Organization	7	6	13
	Barangay R.A. Padilla <ul style="list-style-type: none">• Barangay Officials• Bantay Bayan• Women’s Group	2	5	7
	DENR-CENRO	3	0	3
	DPWH Representatives	1	2	3
	LCI (Local Consultant)	3	1	4
	SUB-TOTAL		37	31
TOTAL		93	68	161

1.3.2 Program

- ¹³ **Table 2** presents the final program of the Public Consultation Meetings for the three (3) municipalities. The presentation materials are compiled as **Attachment 4** of this report.

Table 2: Program of the PCM

TIME (150 minutes)	ACTIVITY	RESOURCE PERSON/ FACILITATOR
10 minutes	Opening Preliminaries <ul style="list-style-type: none"> • Invocation • Singing of the National Anthem • Introduction of the participants • Welcome Remarks 	LCI Envi Corporation Municipal Local Government Unit Representative
10 minutes	Overview of the Project	DPWH



TIME (150 minutes)	ACTIVITY	RESOURCE PERSON/ FACILITATOR
45 minutes	Environmental Impact Assessment (EIA) <ul style="list-style-type: none"> Activities Undertaken Highlights of the Findings and Measures 	LCI Envi Corporation
45 minutes	Open Forum	DPWH & LCI Envi Corporation
10 minutes	Gender and Development (GAD) <ul style="list-style-type: none"> Activities Undertaken Highlights of the Findings and Measures 	LCI Envi Corporation
25 minutes	Plenary	LCI Envi Corporation & Participants
5 minutes	Next Steps Closing Remarks	LCI Envi Corporation DPWH

- 14 The issues, concerns, and suggestions that were raised by the participants during the Open Forum, and the corresponding responses of the Project Proponent (DPWH) and the EIA Consultant (LCI) are summarized in the succeeding section.

1.3.3 Summary of Issues and Concerns

- 15 During the open forum, Filipino, English, and Ilokano (native language in the area) were used to respond to the queries and concerns of the participants.
- 16 **Table 3** summarizes the issues raised by the participants and the corresponding responses from DPWH and EIA consultant.
- 17 The photo documentation of the Public Consultation Meetings in Aritao, Santa Fe, and Carranglan are shown in **Figure 1 to Figure 3**, respectively.

Table 3: Matrix of Issues and Concerns raised during the Public Consultation Meeting

ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
Aritao, Nueva Vizcaya		
Project Description		
<ul style="list-style-type: none"> Does the presented 60-meter span of the project encompass both road and tunnel designs? 	Mr. Reynaldo Pugsong, Chairman, Barangay Canabuan	<p>EIA Preparer Yes, based on the latest design of the project.</p> <p>To achieve the 60 meters, measure 30 meters to the left and right of the centerline of the project.</p>
<ul style="list-style-type: none"> As previously stated, the Project may become a tourist destination; is there a difference in traffic safety between the proposed project and the existing tunnel? 	Mr. Bernel A. Prado, SB Member, LGU-Aritao	<p>EIA Preparer The Tunnel Operations Center (TOC) is what makes this project distinctive.</p> <p>CCTVs will be installed along the length of the tunnel, and emergency and firefighting facilities are included into the design of the tunnel to ensure the safety of the road users.</p>
<ul style="list-style-type: none"> Does the project qualify as an expressway? If so, will there be a toll? 	DENR-CENRO	<p>DPWH There will, indeed, be a toll.</p> <p>This suggestion was acknowledged by the Proponent.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
<ul style="list-style-type: none"> If yes, would a sum be allocated to assist the community? Will there be road fencing if this project is classified as an expressway? 	Mr. Bernel A. Prado, SB Member, LGU-Aritao	<p>DPWH</p> <p>To avoid accidents from crossing humans and animals, fence will be built along the side of the road. During the DED Phase of the Project, this topic will be discussed in greater depth.</p>
Land		
<ul style="list-style-type: none"> When was the tree inventory conducted in relation to the given number of trees affected along the project alignment? The DENR also oversees a National Greening Program in Barangays Canarem and Canabuan. 	For. Marlon Bayag, DENR-PENRO Nueva Vizcaya	<p>EIA Preparer</p> <p>The Resettlement Action Plan (RAP) Team conducted a preliminary tree inventory survey in 2022. Aerial/Remote Satellite Photos were utilized to estimate the number of trees.</p> <p>The affected trees covered by the National Greening Project was considered in the report. Furthermore, the EIA Study Team has previously spoken with Forest Management Plan-Project Management.</p> <p>During the DED Stage of the project, the team will conduct a full tree inventory survey and will cooperate with DENR during validation.</p>
<ul style="list-style-type: none"> It was indicated in the presentation that for every tree that is cut down, 100 saplings would be planted. Is it feasible to substitute fruit-bearing tree saplings? 	Kagawad, Barangay Canarem	<p>EIA Preparer</p> <p>We will adhere to the process of the Tree Cutting Permit.</p> <p>The replacement seedlings will be given to the DENR-PENRO or CENRO in charge of the area. They will also decide which tree species are required in the region and who will get seedlings.</p>
Water		
<ul style="list-style-type: none"> What are the specific names of the waterbodies sampled to acquire the baseline data along the project alignment? In which stations or barangays did the Fecal Coliform findings exceed the DENR standards? 	For. Steve Esguerra, DENR-EMB Region II	<p>EIA Preparer</p> <p>The complete EIA report for the Project includes a more detailed discussion and presentation of data on the baseline assessment. Following the first Technical Review, it will be posted to the EMB website.</p> <p>Once the EIA Report is posted online, we will send a copy to your office.</p>
<ul style="list-style-type: none"> We appreciate the information presented in the EIA Report, which might serve as a benchmark for the LGU. We request to obtain a copy of the study as well 	Mr. Joseph Opena, MENRO, LGU-Aritao	<p>EIA Preparer</p> <p>We are obligated to send a copy of the report to the local governments. The report will be available for download from the Official EMB website.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
as the IP Development Plan (IPDP).		Concerning the IPDP, the consultation findings and report will be completed before being shared with the LGU.
Air		
This module received no comments.		
People		
<ul style="list-style-type: none"> What will happen to the structures (houses) impacted by the project alignment? Will they be moved or paid before the project construction begins? We hope that the settlement with the affected households will be completed before the commencement of construction in 2026. 	Mr. Manric Gaynat, Chairman, Barangay Canarem	<p>DPWH</p> <p>As a policy of the DPWH, the project will not commence if the right-of-way is not yet cleared or settled.</p> <p>During the Project's Detailed Engineering Design Phase, the optimal alignment will be established, and negotiations with individuals inside the alignment's 60-meter width will begin.</p> <p>Rest confident that public engagement will continue during the DED, and appropriate compensation will be provided prior to the commencement of the project.</p> <p>EIA Preparer</p> <p>JICA will also monitor the implementation of RAP and ensure that impacted individuals are compensated prior to the start of the project.</p>
<ul style="list-style-type: none"> What types of project-related works are appropriate for women? 	Carmelita Pugsong, Women's Association Representative, Barangay Canabuan	<p>EIA Preparer</p> <p>As stated in the law, there shall be no discrimination in the workplace. Individuals are permitted to work in any occupation if they are willing and have an able body.</p> <p>There will also be a posting of manpower requirements, and the proponent will coordinate with the LGU's Public Employment Service Office (PESO) to discuss this matter.</p>
<ul style="list-style-type: none"> What relevant livelihood programs can you provide to our constituents, particularly women? 	Hon. Jason Ferrer, Vice Mayor, LGU-Aritao	<p>EIA Preparer</p> <p>The RAP discusses livelihood rehabilitation (skills training) for those whose livelihoods may be impacted by the project.</p> <p>LGUs may collaborate with TESDA to secure the manpower requirements of the project.</p>
<ul style="list-style-type: none"> The LGU of Aritao can enter into a Memorandum of Agreement (MOA) with the DPWH to ensure that residents of Aritao can apply for job in the TOC. 	Hon. Jason Ferrer, Vice Mayor, LGU-Aritao	<p>EIA Preparer</p> <p>We will take note of your suggestion and will discuss it once the specifics of the Tunnel Operation's manpower have been finalized.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
Santa Fe, Nueva Vizcaya		
Project Description		
<ul style="list-style-type: none"> Previously, the road and tunnel design were only two lanes; however, in today's presentation, it was altered to four lanes. Could you kindly specify which is which? 	Mr. Benjamin Baguyo, Municipal IPMR	<p>EIA Preparer The latest design is being developed for the 60-meter right-of-way, regardless of the number of lanes.</p> <p>DPWH The change from two to four lanes has no major impact on the current environment as long as it stays within the 60-meter road-right-of-way.</p>
Land		
<ul style="list-style-type: none"> A Memorandum of Agreement (MOA) was recently signed between DPWH Region 2 and DENR Regional Executive Director about the seedling replacement. Based on the MOA there is a new guideline regarding seedling establishment and replacement. 	For. Marlon Bayag, DENR-PENRO Nueva Vizcaya	<p>EIA Preparer We will look into that guideline and check its applicability to the project.</p>
<ul style="list-style-type: none"> In terms of the Tree Cutting Permit procedure, what steps will it take if the tree is within a CADT? 	Mr. Benjamin Baguyo, Municipal IPMR	<p>EIA Preparer A tree inventory will be performed to determine whether a tree has been planted. Trees that are planted will be tagged to their owner (e.g., IP).</p> <p>According to the project's RAP, persons who own a certain number of trees would be compensated. This procedure is distinct from the application for a tree cutting permission.</p> <p>DPWH The individual who planted the tree will receive compensation for the trees that will be cut down. The DPWH will get a certification from the barangay to verify who owns the tree.</p>
<ul style="list-style-type: none"> Where are we going to dispose of the excavated soil during tunnel works? 	Mr. Aries Valderama, OIC Municipal Engineer, LGU-Santa Fe	<p>EIA Preparer A designated soil disposal site will be established. As of now, possible disposal sites have been identified at the tunnel section's entrance and exit points, which are still subject to IP approval (for locations areas inside a CADT).</p> <p>There is also prior discussion that if the excavated soil may be utilized as a construction material, compensation would be provided.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
<ul style="list-style-type: none"> What are the findings on the minerals that can be extracted during the excavation? 	Engr. Kennedy Baluyan Jr., MPDC	<p><u>EIA Preparer</u> A tunnel boring survey was carried out, although it was only conducted to the tunnel entrance and exits.</p> <p>We also consulted DENR-MGB about the minerals that may be discovered in the region. They confirmed that the proposed area is not designated as mineral land (no valuable minerals).</p>
Water		
<ul style="list-style-type: none"> Did the study address the implications of tunnel boring on local water sources? 	Mr. Aries Valderama, OIC Municipal Engineer, LGU-Santa Fe	<p><u>EIA Preparer</u> It should be noted that the New Austrian Tunneling Method (NATM) use a drill jumbo rather than a tunnel boring equipment.</p> <p>The alignment of the tunnel is intended to avoid crossing any bodies of water or subsurface water, as this might jeopardize the structural stability of the tunnel.</p>
<ul style="list-style-type: none"> If the project is completed by 2030, there is a good chance it will become a tourist attraction. What measures does the government do to ensure that the livelihood along the existing Dalton Pass will not be severely affected by the alternate route? 	Mr. Aries Valderama, OIC Municipal Engineer, LGU-Santa Fe	<p><u>EIA Preparer</u> Yes, the tunnel in this project has the potential to be a tourist destination given that it will be the longest tunnel in the country.</p> <p>This concern is being considered. In fact, not all vehicles will be able to use the Dalton Pass East Alternative Road. Many vehicles will still use the existing one.</p> <p>These things are still being studied and subject to NEDA approval.</p>
<ul style="list-style-type: none"> Considering the project's stated design and its potential as a tourist attraction, we recommend providing a parking space for individuals who wish to appreciate the structure while also considering their safety. 	Engr. Kennedy Baluyan Jr., MPDC	<p><u>EIA Preparer</u> The suggestion is great and has been taken into consideration. These are the details that may be addressed further during the project's DED Stage.</p> <p>As of now, emergency bays are one of the safety features of this project.</p> <p>We underline that the highway's design speed is 60 kph. It may endanger individuals who stop in the middle of the road.</p>
Air		
<ul style="list-style-type: none"> Dust might be present during the construction. Does it have an effect to our Barangay Constituents? And how will we address this? 	Mr. Alejo Talapi, Brgy. Canabuan IPMR	<p><u>EIA Preparer</u> To reduce the spread of dust, mitigating measures include using coverings and dampening the roadways.</p> <p>Morbidity and mortality rate of the project area is also incorporated in the report as a baseline. If there is an increase in</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
		respiratory diseases and there is construction going on, it might be ascribed to the activities. You can file a complaint with the GRM and request that the proponent address your concerns.
People		
<ul style="list-style-type: none"> As previously agreed during the earlier consultations, manpower will be sourced from Barangay Canabuan. 	Mr. Ben Balalong, Chairperson, Barangay Canabuan	<p>EIA Preparer Yes, it is the commitment of the proponent to hire manpower from the impact barangays.</p> <p>We presented DPWH hiring policies to underline that there will be no discrimination while applying for project work.</p> <p>We also presented the project timeline to ensure that the workers from barangays will be able to prepare and equipped themselves for the work.</p>
<ul style="list-style-type: none"> How can we be certain that the workers will receive the correct compensation/rate? 	Engr. Kennedy Baluyan Jr., MPDC	<p>EIA Preparer The fact that this project is foreign assisted is a plus. JICA guarantees that the social safeguards will be enforced.</p> <p>A Grievance Redress Mechanism will also be established to address grievances, such as wage difficulties and the like.</p>
<ul style="list-style-type: none"> As shown in the presentation, what will be the composition of the monitoring team for the project? 	Benjamin Baguyo, Municipal IPMR	<p>EIA Preparer The DENR will require the project to establish a Multi-Partite Monitoring Team (MMT) once the proponent has acquired the ECC.</p> <p>The MMT will be composed of the municipal officials, IPs, and DPWH. A separate MOA will be formulated by the DENR.</p> <p>DPWH The MMT that will be formed is required by the DENR to monitor the environmental impact of the project</p> <p>There is another Monitoring Evaluation Team initiated by NCIP for the RAP. It was mentioned in the previous MOA, and it undergone the FPIC process. Representatives from affected families will also be part of the Monitoring Team.</p> <p>The DPWH also has a monitoring team called "Municipal Resettlement Implementation Committee". This committee will monitor the process on how to acquire the road right-of-way.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
		The monitoring of DPWH and on the MOA is being conducted prior to the start of the constructions.
<ul style="list-style-type: none"> Since the project has a 60-meter span, many households will be affected. Will they be compensated? 	Mr. Romeo, ME Office	<p>EIA Preparer Since the alignment of the project has been identified, a team was sent to identify the households or individuals affected by the project. The study is ongoing for this and the list of individuals that will be affected will be finalized during the DED Stage of the project.</p> <p>Rest assured that the process is documented, and all project affected individuals will be compensated before the start of the construction.</p> <p>DPWH Clarification, the compensation for the affected lands inside a CADT area will be given to People's Organization and not to a certain individual.</p>
<ul style="list-style-type: none"> Will a consultation meeting take place even at the DED stage of the project? 	Mr. Aries Valderama, OIC Municipal Engineer, LGU-Santa Fe	<p>EIA Preparer Consultation with the stakeholders will be continuous.</p>
Others		
<ul style="list-style-type: none"> We request a copy of the MOA with DPWH so that we may monitor the agreements indicated in the Agreement. 	Benjamin Baguyo, Municipal IPMR	<p>EIA Preparer On behalf of the DPWH, we can send a copy of the MOA to the LGU through email.</p>
<ul style="list-style-type: none"> The present Dalton Pass in Santa Fe is quite narrow. We are optimistic that the DPWH will be able to expand the current road by 2031. 	Engr. Kennedy Baluyan Jr., MPDC	<p>EIA Preparer We will take note of this and will discuss this on another forum.</p>
<ul style="list-style-type: none"> The existing Dalton Pass Road is usually broken. We hope that the DPWH would investigate this and come up with an appropriate solution. 	Hon. Liwayway Caramat, Municipal Mayor	<p>DPWH If the DPWH performs a project, all materials that will be utilized in the construction are tested.</p> <p>We guarantee everyone that the materials and design for Dalton Pass East Alternative Road Project meets all standards and requirements.</p> <p>Regarding the concerns with the existing Dalton Pass, you may submit a letter to the DPWH CO.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
<ul style="list-style-type: none"> We hope that we can name the tunnels/ roads/ bridges that will be constructed after our culture. 	Engr. Kennedy Baluyan Jr., MPDC	<p>EIA Preparer This suggestion is highly appreciated, and we will take note of this.</p>
Carranglan, Nueva Ecija		
<ul style="list-style-type: none"> Will the affected farmlands in Barangay Bunga be compensated? 	Betty Bankial, Brgy. Salazar	<p>EIA Preparer We are still determining the extent of the project's impact. The amount of compensation for properties will be disclosed prior to the start of the project.</p>
<ul style="list-style-type: none"> Since most of the affected households in Barangay Burgos are tenants, would they also be compensated? 	Espino Bagsic, Zone 1 President, Barangay Burgos	<p>EIA Preparer If the survey starts, the owner of the structure/s and land/s are entitled for compensation.</p>
<ul style="list-style-type: none"> We have had the experience of not getting paid even after the road project was done. When will the compensation be settled? Before or after the completion of the project? What are the requirements for presenting to DPWH to claim the compensation? 	Mr. Faustino Natividad, Chairman, Barangay Bunga	<p>EIA Preparer Since the project is foreign-funded and managed by the DPWH Central Office, construction will not begin until compensation for project-affected persons is finalized.</p> <p>The requirements will be coordinated with the local government. To be eligible for compensation, you must have a Land Title and a Tax Declaration.</p>
<ul style="list-style-type: none"> We hope that the worth of our properties will not be as low as the official price suggests. 	Ms. Annaliza Inway, BHW and IP, Barangay Salazar	<p>DPWH (in Ilokano) We went through the FPIC process with the NCIP to explore property agreements for the Barangays within an Ancestral Domain. We agreed that compensation for properties inside CADT would be based on the BIR Zonal Value. The compensation amount will be given to the People's Organization.</p> <p>Private properties in non-IP areas will be compensated depending on market value.</p> <p>Consultation meetings will be continuous throughout the DED.</p>
<ul style="list-style-type: none"> Does this meeting fall under the purview of the Feasibility Study Stage? 	For. Alfredo Kimayong, CENRO Munoz	<p>EIA Preparer Yes, we intend to complete the FS Stage by early next year.</p>
<ul style="list-style-type: none"> Will a fence be built to avoid accidents (for animals)? 	CENRO Munoz	<p>EIA Preparer Based on the discussions yesterday, it is possible that a fence will be built on some sections of the road.</p>
<ul style="list-style-type: none"> I would like to follow up the results of the concerns discussed 	Barangay Bunga	<p>DPWH (in Ilokano) The initial RAP was conducted this year and the report will be submitted to us by the RAP Team this month.</p>



ISSUES/CONCERNS/QUERIES	RAISED BY	RESPONSES
during our meeting with the RAP Team.		The final RAP will be validated and based during the DED stage of the project.

- 18 As presented, the preliminary issues and concerns raised and addressed during the Public Consultation Meeting for the proposed projects includes the topics on the environmental impacts of the projects which includes implementation of mitigating measures to address pollution (dust), impact of the tunnel boring activity to waterbodies, tree inventory along the alignment, and employment during the construction and operations phases of the project.
- 19 The DPWH representatives responded to the questions regarding the Resettlement Action Plan.



Figure 1: Photo Documentation of the PCM for Aritao, Nueva Vizcaya

	
<p>Registration</p>	<p>Opening Preliminaries</p>
	
<p>Opening Remarks of the Municipal IPMR</p>	<p>Open Forum</p>
	
<p>Engr. Bill Ponce of DPWH responding to the queries</p>	<p>Ms. Lalaine Catulong of DPWH responding to the queries</p>
<p>SOURCE: Photos taken by LCI Study Team on 24-25 November 2022</p>	
<p>FIGURE NO. 1</p>	<p>FIGURE TITLE Photo Documentation of the PCM for Aritao, NV</p>
<p>PROJECT PROPONENT: DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	<p>PROJECT TITLE & LOCATION: DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija</p>
	<p>REPORT PREPARER: LCI ENVI CORPORATION</p>



Figure 2: Photo Documentation of the PCM for Santa Fe, Nueva Vizcaya

		
Registration	Opening Preliminaries	
		
Engr. Dianne of DPWH discussing the Project Background	Newly elect Mayor Caramat raising her concerns regarding the project during the Open Forum	
		
Municipal IPMR during the Open Forum	Engr. Bill Ponce of DPWH delivering his Closing Remarks	
SOURCE: Photos taken by LCI Study Team on 24-25 November 2022		
FIGURE NO. 2	FIGURE TITLE Photo Documentation of the PCM for Santa Fe, NV	
PROJECT PROPONENT: DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT TITLE & LOCATION: DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	REPORT PREPARER: LCI ENVI CORPORATION



Figure 3: Photo Documentation of the PCM for Carranglan, Nueva Ecija

		
Registration	Opening Preliminaries	
		
Ms. Inway (IP and Women's Representative) raising her concerns during the Open Forum	Ms. Lalaine Catulong of DPWH responding to the raised issues and concerns	
		
Chairman of Barangay Bunga Faustino Natividad during the Open Forum	Engr. Bill Ponce of DPWH delivering his Closing Remarks	
SOURCE: Photos taken by LCI Study Team on 24-25 November 2022		
FIGURE NO. 3	FIGURE TITLE Photo Documentation of the PCM for Carranglan, NE	
PROJECT PROPONENT: DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT TITLE & LOCATION: DALTON PASS EAST ALTERNATIVE ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	REPORT PREPARER: LCI ENVI CORPORATION



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila



November 14, 2022

GWENDOLYN C. BAMBALAN, DPA, CESO III

Regional Executive Director

Department of Environment and Natural Resources Region II

14 Dalan Na Pagayayya cor. Angicacau, Regional Government Center

Carig Sur, Tuguegarao City, Cagayan

T: (078) 304-0768 M: (+63)9650655607

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear Regional Executive Director Bambalan:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project.

The date and time of the activity are as follow:

Municipality	Aritao	Santa Fe
Date	November 24, 2022 (Thursday)	
Time	9:00 AM to 11:30 AM	1:30 PM to 4:00 PM
Venue	Aritao Municipal Covered Court, Aritao, Nueva Vizcaya	Santa Fe Municipal Covered Court, Santa Fe, Nueva Vizcaya

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts. Further, a separate Public Hearing, to be facilitated by the Department of Environment and Natural Resources-Environmental Management Bureau (DENR-EMB), will be conducted for the project under the Philippine Environmental Impact Statement System (PEISS) in connection to the Department's application of the Environmental Compliance Certificate (ECC).

The results and documentation of the PCM will form part of the GAD Assessment Report as incorporated in the JICA Study Team's (JST's) Draft Final Report (DFR) for the aforesaid preparatory survey.

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

Very truly yours,



BENJAMIN A. BAUTISTA

Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM

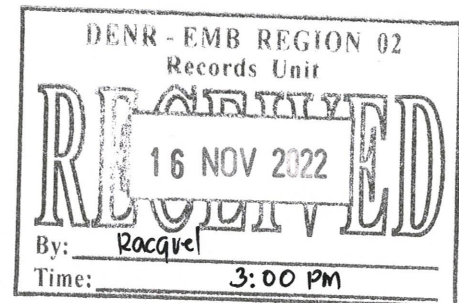


Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

NELSON P. HONRADO, LLB

Regional Director
Environmental Management Bureau Region II
Department of Environment and Natural Resources
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Carig Sur, Tuguegarao City, Cagayan
T: (078) 396-0724
E: recordsr2@emb.gov.ph/emb_r02@yahoo.com



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear Regional Director Honrado:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project.

The date and time of the activity are as follow:

Municipality	Aritao	Santa Fe
Date	November 24, 2022 (Thursday)	
Time	9:00 AM to 11:30 AM	1:30 PM to 4:00 PM
Venue	Aritao Municipal Covered Court, Aritao, Nueva Vizcaya	Santa Fe Municipal Covered Court, Santa Fe, Nueva Vizcaya

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts. Further, a separate Public Hearing, to be facilitated by the Department of Environment and Natural Resources-Environmental Management Bureau (DENR-EMB), will be conducted for the project under the Philippine Environmental Impact Statement System (PEISS) in connection to the Department's application of the Environmental Compliance Certificate (ECC).

The results and documentation of the PCM will form part of the GAD Assessment Report as incorporated in the JICA Study Team's (JST's) Draft Final Report (DFR) for the aforesaid preparatory survey.

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

GIOVANNIE M. MAGAT

PENR Officer

Provincial Environment and Natural Resources – Nueva Vizcaya
Department of Environment and Natural Resources Region II
Datacom Capitol Building, Capitol Street, Capitol Compound
Bayombong, Nueva Vizcaya
T: (078) 321-2084



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear PENR Officer Magat:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project.

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Very truly yours,


BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

LENSY F. BUNUEN

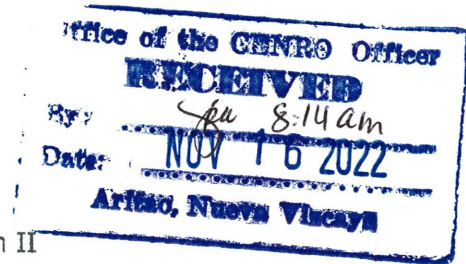
CENR Officer

City Environment and Natural Resources Office – Aritao

Department of Environment and Natural Resources Region II

CENRO Compound, Banganan,

Aritao, Nueva Vizcaya



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and Its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear CENR Officer Bunuen:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project.

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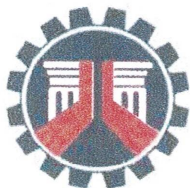
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We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

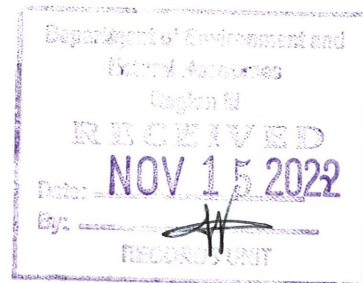
November 14, 2022

Engr. PAQUITO T. MORENO, JR., CESO III

Regional Executive Director

Department of Environment and Natural Resources Region III
DENR R3 Building, Diosdado P. Macapagal Government Center,
Maimpis, San Fernando City, Pampanga

T: (045) 455-3648



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear Regional Executive Director Moreno, Jr.:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project.

The date and time of the activity are as follow:

Municipality	Carranglan
Date	November 25, 2022 (Friday)
Time	9:00 AM to 11:30 AM
Venue	Carranglan Municipal Covered Court, Carranglan, Nueva Ecija

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts. Further, a separate Public Hearing, to be facilitated by the Department of Environment and Natural Resources-Environmental Management Bureau (DENR-EMB), will be conducted for the project under the Philippine Environmental Impact Statement System (PEISS) in connection to the Department's application of the Environmental Compliance Certificate (ECC).

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We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

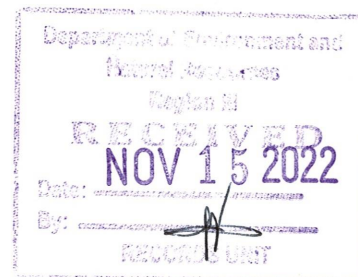
19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

Engr. PAQUITO T. MORENO, JR., CESO III
Regional Executive Director/PAMB Chairperson
Department of Environment and Natural Resources Region III
DENR R3 Building, Diosdado P. Macapagal Government Center,
Maimpls, San Fernando City, Pampanga
T: (045) 455-3648



ATTENTION : GERUNDIO FERNANDEZ
PENR Officer (OIC) – Nueva Ecija/PASu - PCWFR

SUBJECT : Request for Protected Area Management Board – Pantabangan-Carranglan Watershed Forest Reserve (PAMB-PCWFR) Representative for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear PAMB Chairpeson Moreno, Jr.:

This is in connection to our letter dated November 14, 2022 regarding the conduct of **Public Consultation Meeting (PCM)** for the Preparatory Study for the Proposed Dalton Pass East Alternative Road Project. Hence, may cordially invite a *representative from the PAMB – PCWFR* to also join in the previously mentioned PCM.

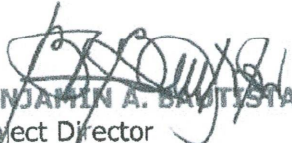
The date and time of the activity are as follow:

Municipality	Carranglan
Date	November 25, 2022 (Friday)
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Venue	Carranglan Municipal Covered Court, Carranglan, Nueva Ecija

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We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

WILSON L. TRAJECO

Regional Director

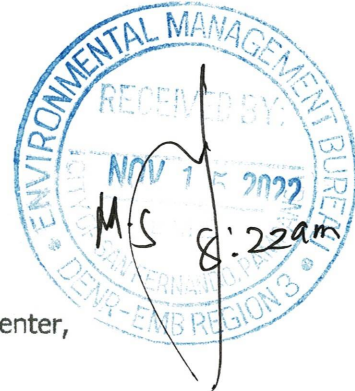
Environmental Management Bureau Region III

Department of Environment and Natural Resources

Masinop Cor. Matalino St., Diosdado P. Macapagal Government Center,

Maimpis, San Fernando City, Pampanga

T: (045) 963-3623 M: 09190694230



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear Regional Director Trajeco:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project.

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BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

GERUNDIO FERNANDEZ

PENR Officer (OIC)

Provincial Environment and Natural Resources – Nueva Ecija
Department of Environment and Natural Resources Region III
Government Center, Brgy. Singalat,
Palayan City, Nueva Ecija
T: (044) 940-1973
E: penronuevaecija@denr.gov.ph



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear PENR Officer Fernandez:

Greetings of peace and development!

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BENJAMIN A. BAUTISTA

Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

FLORENCIO LALU

CENR Officer

City Environment and Natural Resources Office – Muñoz
Department of Environment and Natural Resources Region III
Brgy. Poblacion West, Muñoz, Nueva Ecija

T: (044) 456-0712

E: cenromunoz@denr.gov.ph/cenromunoz@yahoo.com



SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

Dear CENR Officer Lalu:

Greetings of peace and development!

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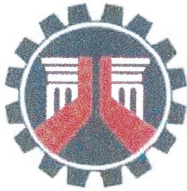
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BENJAMIN A. BAUTISTA

Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

HON. REMELINA PEROS-GALAM
Municipal Mayor
Municipal Government of Aritao
Province of Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
R E C E I V E D
DATE: 11/16/22 8:23a
BY: ONV
ARITAO, NUEVA VIZCAYA

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

ATTENTION : Municipal Administrator
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)/Rural Health Unit (RHU)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)
Representative from Women's Group, Youth Sector,
Senior Citizens, IP Elders/Chieftain, Transport Groups,
Education Sector, and Religious Sector
Barangay Chairpersons (Brgy. Canabuan and Brgy. Canarem)

Dear Mayor Peros-Galam:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project and further requesting for your any possible assistance to smoothly conduct this vital undertaking of the Department.

In line with this, we would like to kindly request also the presence of the representatives from the offices/groups mentioned above. The date and time of the activity are as follow:

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Time	9:00 AM to 11:30 AM
Venue	Aritao Municipal Covered Court, Aritao, Nueva Vizcaya

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Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

Very truly yours,



BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

HON. REMELINA PEROS-GALAM
Municipal Mayor
Municipal Government of Aritao
Province of Nueva Vizcaya

[Signature]
MR. N. F. BASATAN
11/16/22

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

ATTENTION : Municipal Administrator
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)/Rural Health Unit (RHU)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)
Representative from Women's Group, Youth Sector,
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Barangay Chairpersons (Brgy. Canabuan and Brgy. Canarem)

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Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

HON. REMELINA PEROS-GALAM

Municipal Mayor
Municipal Government of Aritao
Province of Nueva Vizcaya

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

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Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
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Indigenous Peoples Mandatory Representative (IPMR)
Representative from Women's Group, Youth Sector,
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Education Sector, and Religious Sector
Barangay Chairpersons (Brgy. Canabuan and Brgy. Canarem)

Dear Mayor Peros-Galam:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project and further requesting for your any possible assistance to smoothly conduct this vital undertaking of the Department.

In line with this, we would like to kindly request also the presence of the representatives from the offices/groups mentioned above. The date and time of the activity are as follow:

Date	November 24, 2022 (Thursday)
Time	9:00 AM to 11:30 AM
Venue	Aritao Municipal Covered Court, Aritao, Nueva Vizcaya

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts.

The results and documentation of the PCM will form part of the GAD Assessment Report as incorporated in the JICA Study Team's (JST's) Draft Final Report (DFR) for the preparatory survey of the proposed Project.

Received, 11-16-22
[Signature] - P.B

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

HON. LIWAYWAY C. CARAMAT

Municipal Mayor
Municipal Government of Santa Fe
Province of Nueva Vizcaya

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

ATTENTION : Municipal Administrator
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)/Rural Health Unit (RHU)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)
Representative from Women's Group, Youth Sector,
Senior Citizens, IP Elders/Chieftain, Transport Groups,
Education Sector, and Religious Sector
Barangay Chairperson (Brgy. Canabuan)

Dear Mayor Caramat:

Greetings of peace and development!

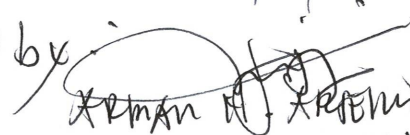
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In line with this, we would like to kindly request also the presence of the representatives from the offices/groups mentioned above. The date and time of the activity are as follow:

Date	November 24, 2022 (Thursday)
Time	1:30 PM – 4:00 PM
Venue	Santa Fe Municipal Covered Court, Santa Fe, Nueva Vizcaya

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts.

The results and documentation of the PCM will form part of the GAD Assessment Report as incorporated in the JICA Study Team's (JST's) Draft Final Report (DFR) for the preparatory survey of the proposed Project.

Received by 
HERMAN A. ARREOLA
OFFICER OF THE DAY

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

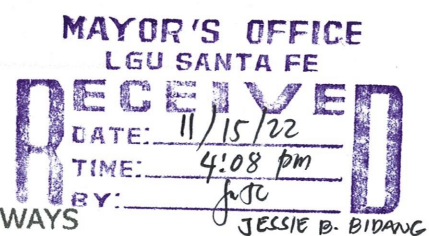
Very truly yours,


BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila



November 14, 2022

HON. LIWAYWAY C. CARAMAT

Municipal Mayor
Municipal Government of Santa Fe
Province of Nueva Vizcaya

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

ATTENTION : Municipal Administrator
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
Municipal Environment and Natural Resources Office (MENRO)
Municipal Agriculture Office (MAO)
Municipal Health Office (MHO)/Rural Health Unit (RHU)
Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)
Representative from Women's Group, Youth Sector,
Senior Citizens, IP Elders/Chieftain, Transport Groups,
Education Sector, and Religious Sector
Barangay Chairperson (Brgy. Canabuan)

Dear Mayor Caramat:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project and further requesting for your any possible assistance to smoothly conduct this vital undertaking of the Department.

In line with this, we would like to kindly request also the presence of the representatives from the offices/groups mentioned above. The date and time of the activity are as follow:

Date	November 24, 2022 (Thursday)
Time	1:30 PM – 4:00 PM
Venue	Santa Fe Municipal Covered Court, Santa Fe, Nueva Vizcaya

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts.

The results and documentation of the PCM will form part of the GAD Assessment Report as incorporated in the JICA Study Team's (JST's) Draft Final Report (DFR) for the preparatory survey of the proposed Project.

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

Your generosity and utmost support in this activity are highly appreciated.

We look forward to your favorable response.

Very truly yours,


BENJAMIN A. BAUTISTA
Project Director
Roads Management Cluster 1 (Bilateral) – Unified Project Management Office

19.1 RMD/RRB/LDMC/BGP/AERA/RCM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

HON. ROGELIO B. ABAD

Municipal Mayor
Municipal Government of Carranglan
Province of Nueva Ecija

SUBJECT : Invitation for the Public Consultation Meeting for Gender and Development (GAD) and its Relation to Environmental Impact
Preparatory Survey for the Proposed Dalton Pass East Alternative Road Project

ATTENTION : Municipal Administrator
Municipal Planning and Development Office (MPDO)
Municipal Engineering Office (MEO)
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Municipal Social Welfare and Development Office (MSWDO)
Indigenous Peoples Mandatory Representative (IPMR)
Representative from Women's Group, Youth Sector,
Senior Citizens, IP Elders/Chieftain, Transport Groups,
Education Sector, and Religious Sector
Barangay Chairpersons (Brgys. Burgos, Bunga, and Salazar)

Dear Mayor Abad:

Greetings of peace and development!

This is in connection to the ongoing conduct of Preparatory Survey of the Proposed Dalton Pass East Alternative Road Project; thus, we are cordially inviting you to the **Public Consultation Meeting (PCM)** with regards to the above-captioned subject for the Proposed Dalton Pass East Alternative Road Project and further requesting for your any possible assistance to smoothly conduct this vital undertaking of the Department.

In line with this, we would like to kindly request also the presence of the representatives from the offices/groups mentioned above. The date and time of the activity are as follow:

Date	November 25, 2022 (Friday)
Time	9:00 AM to 11:30 AM
Venue	Carranglan Municipal Covered Court, Carranglan, Nueva Ecija

Please be informed that the PCM aims to provide an update and overview of the proposed Project, discuss/present the Gender and Development (GAD) measures and its relation to environmental impact, and to create an avenue for the stakeholders to communicate their views and concerns regarding the proposed Project and its impacts.

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MAYOR'S OFFICE
RECEIVED BY: *[Signature]*
DATE: *Tues, Nov. 15, 2022*
TIME: *2:05 pm*

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

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BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

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Municipal Mayor
Municipal Government of Carranglan
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SK
Arslan ray Castro
11-15-2022

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BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

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Municipal Government of Carranglan
Province of Nueva Ecija

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Rogelio B. Abad
41-15-222

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BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

November 14, 2022

HON. ROGELIO B. ABAD

Municipal Mayor
Municipal Government of Carranglan
Province of Nueva Ecija

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Barangay Chairpersons (Brgys. Burgos, Bunga, and Salazar)

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Received by: *11/17/2022, 2pm*
Asister
WILMA T. NATIVIDAD
Brgy. Per.

Rest assured that all safety protocols would be observed, in accordance with the local IATF protocols, in conducting this activity. For further coordination and confirmation of participation, your staff may contact Engr. Ronel R. Bulan (09055128732/bulan.ronel@dpwh.gov.ph), Engr. Rod Michael L. Dacanay (09664009813/roddacanay.ust.eng@gmail.com), or our GAD and EIA Consultant, Mr. Jerome B. Leaño (09178488191/jerome.leano@lci-envi.com)

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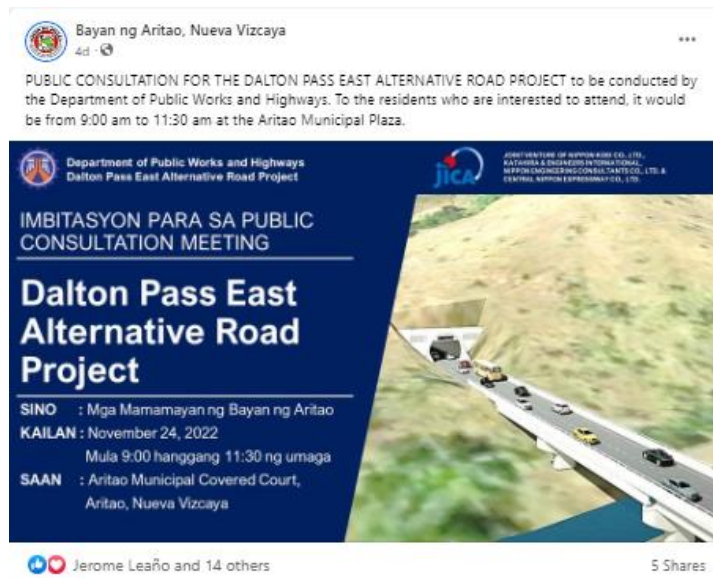
Very truly yours,


BENJAMIN A. BAUTISTA
Project Director

Roads Management Cluster 1 (Bilateral) – Unified Project Management Office



Posting of invitation at the venue



Posting of the invitation using the Municipality's Facebook Page

FIGURE NO.

1

FIGURE TITLE

**Photo Documentation of the Posting of Invitation
in the Municipality of Aritao, Nueva Vizcaya**



Newly elect Mayor Caramat receiving the Invitation Poster



Posting of invitation at the Municipal Hall

FIGURE NO.
2

FIGURE TITLE

**Photo Documentation of the Posting of Invitation
in the Municipality of Santa Fe, Nueva Vizcaya**



Posting of invitation at the venue



Posting of invitation at the venue

FIGURE NO.
3

FIGURE TITLE

**Photo Documentation of the Posting of Invitation
in the Municipality of Carranglan, Nueva Ecija**



Barangay Canabuan



Barangay Canarem



Barangay Poblacion

FIGURE NO.
4

FIGURE TITLE
**Photo Documentation of the
Distribution of Invitation Posters in Barangays in Aritao**



Barangay Canabuan



Barangay Poblacion

FIGURE NO.

5

FIGURE TITLE

**Photo Documentation of the
Distribution of Invitation Posters in Barangays in Aritao**



Barangay Bunga



Barangay Burgus



Barangay Salazar



Barangay R.A. Padilla

FIGURE NO.
6

FIGURE TITLE
**Photo Documentation of the
Distribution of Invitation Posters in Barangays in Carranglan**



ATTENDANCE SHEET

ACTIVITY:	Public Consultation Meeting	VENUE:	Aritao Municipal Covered Court, Aritao, NV
DATE:	24 November 2022	TIME:	9:00am to 11:30am

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
1	LEVY B. LINDAWAN	F		CANABUAN			36.7
2	LITO LAROZA	M		"			
3	DAVID LINO	M		"			35.7
4	Mary Diwag	F		"			
5	Elmira S. Batayan	F		"			36.2
6	Martisa Matidis	F		canabuan			
7	Elpidio Guzman	M		"			
8	Carmen F. Diwag	F		"			
9	Juan B. Coyat	M		Canabuan			
10	LUKAS LAROZA	M		canabuan			
11	PANOS, JULIA	F		canabuan			
12	Nena S. Vient	F		Canabuan			
13	Juliet Guinan Punki	F		Canabuan			
14	Marcelyn S. Maoldawat	F		Canabuan			35.2
15	Luz B. Dulasay	F		canabuan			36.3
*16	GILBERT Tubba	M		CANABUAN-IP			
17	ARITA I. APERO	F		Canabuan			36.3



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
18	TOUO D. AGNASE	M	Brgy Kgd	Canaran	09639122866		36.3
19	MARC E. GAYNAT	M	P.B	" Canarem	09152307095		35.8
*20	Alejandro W. Agnase	M	Brgy Kgd	BACDI Association	IP		35.8
21	Marina P. Valda	F	President	BWID Organization			35.8
22	Mayra P. Valda	F	Brgy Kgd	Canaran	09167724544		32.8
*23	LEONIDA M. VILORIA	F	Brgy Kgd	Canaran - Umahan, ng Katahiaran	09364503188		35.4
24	JOHNNY B. DELCA	M	"	Canabuan - IKC - Akot-palad	0926770720		36.3
25	Alberto T. Espedro Jr.	M	Brgy Kgd	Canabuan			33
26	Alex P. Lucas	M	IPTR	Canabuan			35.2
27	Alvaros M. Aban	M	Brgy Kgd	Canabuan			35.7
28	Reynaldo J. Pungsang	M	P.B	Canabuan	09653161903		35.3
29*	Carmelita M. Pungsang	F	UGO - CIS President	Canabuan - IPI & Kababalan	09266220093		36.3
30	Marlon Jay M. Bayag	M	CDO II	DENR DENRO	09364770955		35.4
31	Manilo Malano	F	AOI	DENR CERRO Aritaw	09141536843		36.3
32	XOE S. LIGMAYO	M	SK CHAIRMAN	CANAREM			36.3
33	Ednard Atana	M	ISA II	DENRO N-V.	09752161514		36
34	Nobe O. Daniel	M	Brgy Kgd	Canarem			35.7
35	ALEXIS O. GARCIA	M	AT	MAGRO			34.9
36	Steve D. Bisnera	M	Chief, PENMNV	ENR - PENMNV	01262385702		
37	Merlyn C. Calasang	F	IO II	ENR - PENMNV	09065794115		36.3



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
38	Juvy T. Carganilla	F	POI	LGU Aritao MPDO			36.4
39	TRISHA FERNANDEZ	F	ER	LGU Aritao MPDO			36.2
40	Bayemi A. Lanza	M	IPMA-SB	LGU-SB			35.3
41	Lina Bagio	F		Canabuan			36.3
42	Nolie B. Palotta	M		Canabuan			35.5
43	Kenn Montecano	F	GIP	LGU - ARITAO			34.1
44	Joseph A. Capera	M	MENRO	LGU-Aritao	09656689802		36.6
45	Janson E. Ferrer	M	VMD	LGU-Aritao			35.8
46	Bernel A. Proad	M	CBM	LGU-Aritao			34.3
47	Warlito N. Naval Jr.	M	MA	LGU-Aritao	09970175011		36.0
48	Romeo B. Escalona	M	B-K	BLGU Canabuan			36.5
49	EDNA G. WILLIE	F	PO III	DPWH-PENRO, NV	09368072967		36.5
50	Dianne Ramirez	F	EII	DPWH-VPMD	09669052701		36
51	BLU PUNE	M	Eng. V	- do -	09194328613		36
52	CAIAINE CATULON	F	SENY	DPWH-PRICI	0975500209		36.6
53	Benedict Baragan	M	ETA	JST	09453192513		
54	KRISTA SANTOS	F	ET&GAD	JST			36.6
55	ADON PATILSA	M	PDMM				36.6
56	JEROME LERMA	M	ET&GAD	JST	09178488197		36.5
57							



ATTENDANCE SHEET

ACTIVITY:	Public Consultation Meeting	VENUE:	Santa Fe Municipal Covered Court, Santa Fe, NV
DATE:	24 November 2022	TIME:	1:30pm to 4:00pm

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
1	Celestino de Guzman	M	Head	OSCA			36.5
2	Donny Dg. Dumagay	F		BATAWA - Women's Association			36.6
3	EDIE B. CARAMAT	M		SB MEMBER			36.6
4	BENJAMIN B. BASILLO	M		Brig. Kag. / Poblacion			36.6
5	PEN I. PALALAN	M	P. Co	CANA MUKAL / IP			36.5
6	Benjamin P. Baguys	M	IPMR	IPMR / IP			36.3
7	Cesar Agones	M	Elder	ag / IP			36.4
8	ALFIO R. TALAHA	M	Sup. I.P.M.R	Barangay Canabuan	0955922196		36.4
9	TEOFILO D. PALLAY	M	KAGANAD	BARANGAY CANABUAN IP			36.1
10	OSCAR O. BAGUYA	M	B.O.D	TRANSPORT. COOP.	0917730829		36.4
11	Juho L. Palgac	F	CSD	Kababaihan / Baracbae	09069243489		36.6
12	Marge Dingog	F		Canabuan (IP)			36.4
13	Gilhard Anan	M	ISA II	PENRO N.V.			36
14	EDNA G. WILLIK	F	PO III	PENRO - NV (DENA)	09368072967		36.5
15	Maulin Malan	F	AOI	Canabuan			36.9
16	DOYAN D. Cilo	M	KBN	CANA BUAN			35
17	Marlon Jay M. Bayag	M	CDO II	PENRO - PENRO N	09364770755		35.6



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
18	Meryl C. Calalang	F	IT	EMB-PENUNJUTAN	0906579117		
19	Kennedy B. BALUYAN JR	male	MPDC	MLGU	89773030906		36.5
20	Roma A. Pelaez	M	Legislative Staff	MLGU Santa Fe	0927-3748098		36.3
21	CHARITY M. CASEM	F	Mun. Agriculturist	MLGU Santa Fe	09175600070		36.7
22	Eduardo Y. PANGANLO	M	MHO	LGU Santa Fe	09171765468		36.6
23	JOHN B. PANGANLO	M	P.B.				
24							
25	Bernardo Dante	M	DRIVER	Pb (I.P)			36.2
26	ARIES VALERIANO	M	AC-MEO	LGU-Santa Fe	09555723073		36.6
27	EXUSTO BAKSAO	M	MEO STAFF	LGU-Santa Fe	092645504		36.4
28	STEVE D. BISQUITRA	M	Chief, PENUNJUTAN	EMB-PENUNJUTAN	0967847647		36.4
29	LWAYWAY C. CARAMAT	F	MAYOR	LGU SANTA FE	0917223049		36.4
30	Lonella Chengay	F	M.O STAFF	LGU-Santa Fe	095946192		
31	HERNAN CARAMAT	M	MEO STAFF	LGU-Santa Fe	0916619858		36.3
32	Dianne Ramirez	F	Engineer II	DPWH-UPMU	09669052209		36
33	LALAINA CATILONG	F	SEMS	DPWH RMC	0917550020		36.6
34	Benedict Banagan	M	EIA	JST			
35	KRISTA SANTOS	F	EIA/GAB	JST			36.6
36	ADON BAUNSI	M	ADMIN ASST				36.3
37	JEROME LOMIN	M	EIA/GAB	JST	09198488191		36.5



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
38	Jim Jones	M	Eng. J	DPWH. PCW	0919 43 28 12		26
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ATTENDANCE SHEET

ACTIVITY:	Public Consultation Meeting	VENUE:	Carranglan Municipal Covered Court, Carranglan, NE
DATE:	25 November 2022	TIME:	9:00am to 11:30am

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
1	Julie S. Cantor	F		Brgy Bunga (Kababaihan)	09265703268	Julie	35.8
2	Jennifer N. Villalobos	F	Kababaihan	Brgy. Bunga	09517407074	J Villalobos	36.2
3	Melody Dg. Returban	F	"	Brgy Bunga	09659039637	Mel Returban	36.3
4	CHRISTINA S-UY	F	"	"	09264122534	Chy	36.2
5	Mari Lynn A. Aguilar	F	"	"	09753734177	Mari Lynn	35.6
6	JAMES M. Paulista	M	TANOD	"	09975391307	JP	36.2
7	LEOPOLDO VALDEZ	M	"	"	09753179652	SDelac	36.2
8	Genio Jose	M	TANOD	"		Genio	35.8
9	Sally V. Rembrano	F	BHW	R.A Padilla (Kababaihan)	0274138398	Rembrano	35.9
10	Bertina C. Nortes	F	BHW	R.A Padilla (Kababaihan)	09656320600	Bertina	36.4
11	Teusita O. dela Cruz	F	B.B.	R.A Padilla (Kababaihan)	09368494151	Teusita	36.2
12	Robinson M. Alegro	M	Kgwd	Salazar		Alegro	36.5
13	Abraham Vicente	M	Kgwd	Salazar/Env.		Abraham	36.3
14	Annaliza Inway	F	BHW	Salazar/IP	09656316868	Annaliza	36.4
15	Betty P. Barchal	F	BHW	Salazar/IP	09350916228	Betty	36.4
16	Gabricla G. Tomas	F	Kababaihan	Salazar/IP	0965356129	Gabricla	36.2
17	Irine P. Bayasan	F	Kababaihan	Bunga Kab/IIP	09357758881	Irine	36.1



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
18	Galvario Valdez	M	Senior Aling	Brgy. Bunga			35.0
19	Benny Y. Banagasan	M	IPMR	Bunga			35.4
20	Lenie Grace Ignacio	F	BHW	Burgos			36.4
21	JENNIFER DE GUZMAN	F	BHW	BURGOS			36.2
22	Susan E. Theodore	F	BHW	Bunga			36.0
23	Rose B. Bucayan	F	BHW/I-P	Salazar			
24	Marilyn P. Fragata	F		Bunga			
25	Agustine B. Riosan	M	KAGAWAD	Burgos			
26	MARY G. Cueva	M.	IPMR	Bunga			36.4
27	Rommel F. Medana	M.	Tonod	Bunga	8935 116127		35.6
28	ADRIANO FORTES	"	Kagawad	Bunga			36.3
29	John L. Llanera	M	SENIOR/IP	STRETZER			36.2
30	Lemmy Quinones	F	IP	Salazar			36.5
31	Donchita Bucayan	F	I.P	Salazar			36.1
32	Margarita Tabares	F	Kgd	Bunga Dept	09365087271		36.5
33	MISSES T. PUNENTINO	M	CUBAK III	San-Camaguan (D.A.)	69975608281		36.2
34	WILMA T. NATIVIDAD	F	Brgy. Ser.	Bunga	09051741500		36.5
35	Jojo T. Uy	M	Kagawad	Bunga	09914540312		36.2
36	RENO G. NABAYAN	M	Kagawad	Bunga	09169313626		36.4
37	FARFAN G. NATIVIDAD	M	P.B	Bunga	09269539788		36.1



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
38	EDUARDO BALTISTA	M	P/B	R.A. PADILLA			34.3
39	MELVIN MACARAYAS	M	Kagawad	R.A.P (INFRA)			36.1
40	ESPINO D. Bagese	M	Tanghalang	BURGOS CONCEIL			36.4
41	INESA G. Gallego		IP Elder	BURGOS			36.3
42	SANTOS M. TEODORO	M	P/B	Burgos			36.5
43	Idona L. Daza	F	Brgy Sec	Burgos			36.4
44	Strine Asuncion	F	sk Kagawad	Burgos			35.9
45	Dominador	M	Senior - IP	Salazar			36.4
46	CHRISTOPHER ANTONIO	M	MEMRO	LGU - CALANCAHAN			36.4
47	NORA M. BAÑON	F	KAGAWAD	R.A. PADILLA			36.0
48	Yemita Eda	F	MB-13.	R.A. Padilla			36.5
49	GREG S. ALPATAR	M	M.A.	LGU - CARAP. N.T			36.3
50	SHERILYN V. DIZON	F	Residente	Brgy Bunga			36.4
51	BASTRO C. BATA	M	M.F.	LGU - CALANCAHAN			36.1
52	Felino S. Cruz, Jr	M	Res.	Bunga/Laat	0997-348-1607		36.4
53	WILSON A. Tuberg	M	RES	Bunga Laa	09132952000		36.2
54	XOBRES C. DUMALO	M	KALANCAHAN	SALAZAR (IP)			36.7
55	ARIEL M. PASCONO	M	MPDC	MPDO	0961 0036537		36.4
56	NIEVA V. LADERES	F	Tourism Officer	LGU			
57	OLNES BAROL	M	Peoples Organization	SALAZAR (IP)			36.6



ATTENDANCE SHEET

NO.	NAME	GENDER	POSITION	ORGANIZATION/GROUP/ BARANGAY	CONTACT NO.	SIGNATURE	TEMP (°C)
58	ALFREDO C. CAYAN	M	F-III	DEWR-CEN Muro2	0997728614	[Signature]	36.2
59	Eduardo M. Rillera	M	FPO	DEWR-CEN Muro2	0935 4743536	[Signature]	36.9
60	John C. Fulcland			SALASAR-BMPAI		[Signature]	35.7
61	Alexandro P. Jabelonay	M	Eng-II	DEWR-CEN Muro2	0935-848-8087	[Signature]	36.4
62	Dianne Ramirez	F	EII	OPNH-UPMO		[Signature]	36.2
63	Bill Ponce	M	Eng. V	-do-	09194328163	[Signature]	36.6
64	LALAINÉ CATULANG	F	SEMS	DPWH RMC1	09175500209	[Signature]	36.6
65	KRISHA SANDOZ	F	EIA/GAD	JST	09425248582	[Signature]	36.6
66	Benedict Banagan	M	EIA	JST	09453192513	[Signature]	36.3
67	ADON BAUTISTA	M	ADMIN	JST		[Signature]	35.6
68	JEROME LEMUS	M	EIA/GAD	JST	09178488191	[Signature]	35.6
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Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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PUBLIC CONSULTATION MEETING

Dalton Pass East Alternative Road Project

November 2022 | Time | Municipality, Province





Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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INVOCATION

Dalton Pass East Alternative Road Project





Department of Public Works and Highways
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SINGING OF THE NATIONAL
ANTHEM

Dalton Pass East Alternative Road Project





Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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INTRODUCTION OF THE
PARTICIPANTS

Dalton Pass East Alternative Road Project





Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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WELCOME REMARKS

Dalton Pass East Alternative Road Project





Programme

TIME (150 minutes)	ACTIVITY	RESOURCE PERSON/ FACILITATOR
10 minutes	Opening Preliminaries <ul style="list-style-type: none">• Invocation• Singing of the National Anthem• Introduction of the participants• Welcome Remarks	LCI Envi Corporation Municipal Local Government Unit Representative
10 minutes	Overview of the Project	DPWH
45 minutes	Environmental Impact Assessment (EIA) <ul style="list-style-type: none">• Activities Undertaken• Highlights of the Findings and Measures	LCI Envi Corporation
45 minutes	Open Forum	DPWH & LCI Envi Corporation
10 minutes	Gender and Development (GAD) <ul style="list-style-type: none">• Activities Undertaken• Highlights of the Findings and Measures	LCI Envi Corporation
25 minutes	Plenary	LCI Envi Corporation & Participants
5 minutes	Next Steps	LCI Envi Corporation
	Closing Remarks	DPWH



Meeting Agenda

As part of the project's compliance to the Japan International Cooperation Agency's (JICA's) requirements:

- To present the proposed project
- To present the GAD findings and measures
- To present the EIA findings and mitigating measures
- To obtain feedback and discuss issues and concerns raised



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Dalton Pass East Alternative Road Project



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OVERVIEW OF THE PROJECT

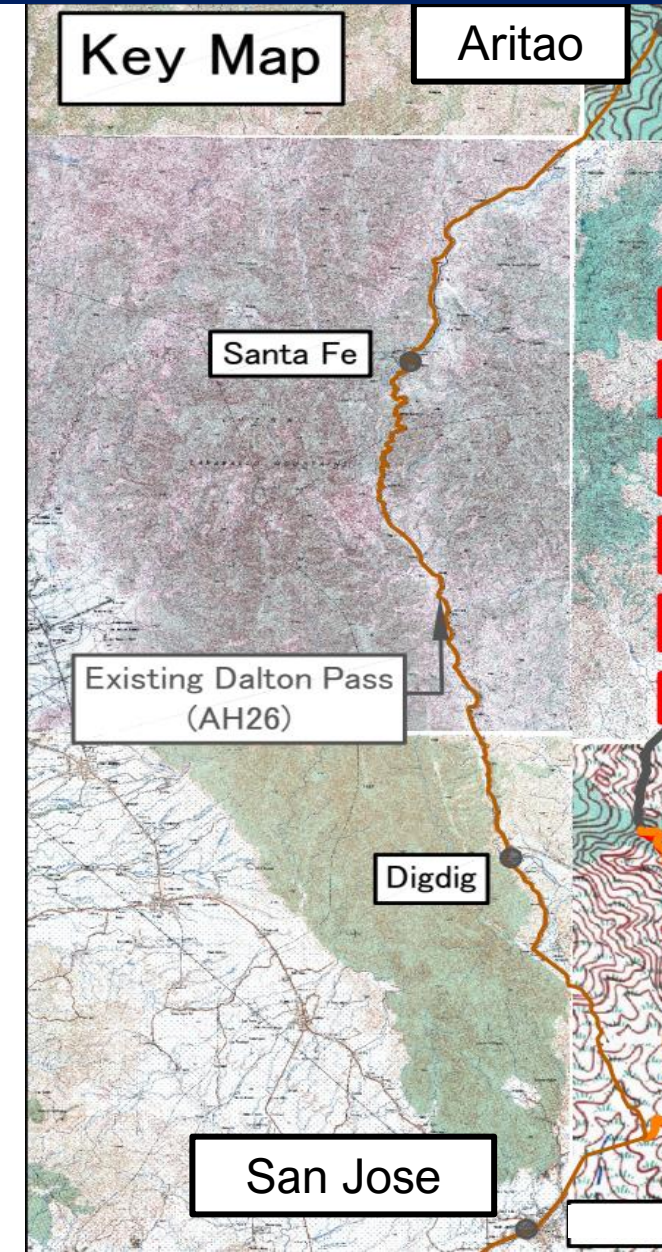
Dalton Pass East Alternative Road Project





Dalton Pass Road (AH26)

- The existing **Dalton Pass** is a section of the **Pan-Philippine Highway (PPH)**, **one of the most important trunk roads** of the **North-to-South backbone** of the **Philippine Road Network System**.
- The Dalton Pass is located between **Barangay Tayabo, San Jose City, Nueva Ecija** and **Aritao, Nueva Vizcaya** is critical and prone to **frequent road closures** due to the occurrences of **landslides (rock falls/mudslides)** causing the Dalton Pass impassable resulting to a **long-time isolation** of **Region II** (Cagayan Valley Region) until restored.
- Natural disasters caused by typhoons and earthquakes have frequently brought closures of the Dalton Pass. **Sharp curves (vertical and horizontal)** cause to a **slow-moving traffic flow**. **Steep vertical gradient causes accidents** (including fatal accidents). Dalton Pass is the **only arterial road** connecting to **Metro Manila and Central/Northern regions of Luzon**.
- More than **600 trucks** pass through Dalton Pass every day for **carrying products** to **Metro Manila**. Thus, heavy vehicles such as trucks and trailers **run at speed** of about **10km/h**.





Dalton Pass East Alternative Road Project (DPEARP)

- The **Government of the Philippines (GOP)** made a request to the **Government of Japan**, through the **Japan International Cooperation Agency (JICA)** in funding and implementing the Dalton Pass East Alternative Road (DPEAR) Project for the following reasons:
 - Ensure **fast, continuous, safer connectivity**, and transport of people, goods, and services from **Regions II and III** to the **mainstreams and lifeline economic activities of the country** as well as support agricultural, commercial, industrial, tourism, and other **socio-economic activities** within the project road's influence area thereby helps in uplifting the **Philippine's economic growth**.
 - **Reduce the risks brought** about by **natural hazards** often leading to **road closure** of the existing Dalton Pass. This also includes **shorter detour** of motorists and travelers in case **there are calamities/natural disasters**.



Objectives of the Project


- To construct a **bypass road** (that includes but not limited to roads, bridges, tunnels and slope protection works) that will serve as an **alternate route** bypassing the existing **Dalton Pass** along the **Pan-Philippine Highway (PPH)**.



Department of Public Works and Highways Dalton Pass East Alternative Road Project



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Project Type (According to DENR MC 2014-05)	3.4.7 Tunnel and sub-grade roads and railways		
Project Location	Province	Municipality	Barangay
	Nueva Vizcaya (Region II)	Santa Fe	Canabuan
		Aritao	Canabuan Canarem
	Nueva Ecija (Region III)	Carranglan	Burgos Salazar
Project Size/Capacity	Road	Total Length:~23 km Lanes: 4 (60m Road ROW) Design Speed: 60 km/hr.	
	Tunnel	Total Length: ~6.1 km Length of North Tunnel: 4.5 km Length of South Tunnel: 1.6 km Includes construction of lighting, ventilation, and emergency facilities	
	Bridge	Total Number: 14 Passage for rivers and creeks Slope protection is included	
Project Proponent	 Department of Public Works and Highways Roads Management Cluster I (Bilateral) Unified Project Management Office Authorized Representative: Director Benjamin A. Bautista		



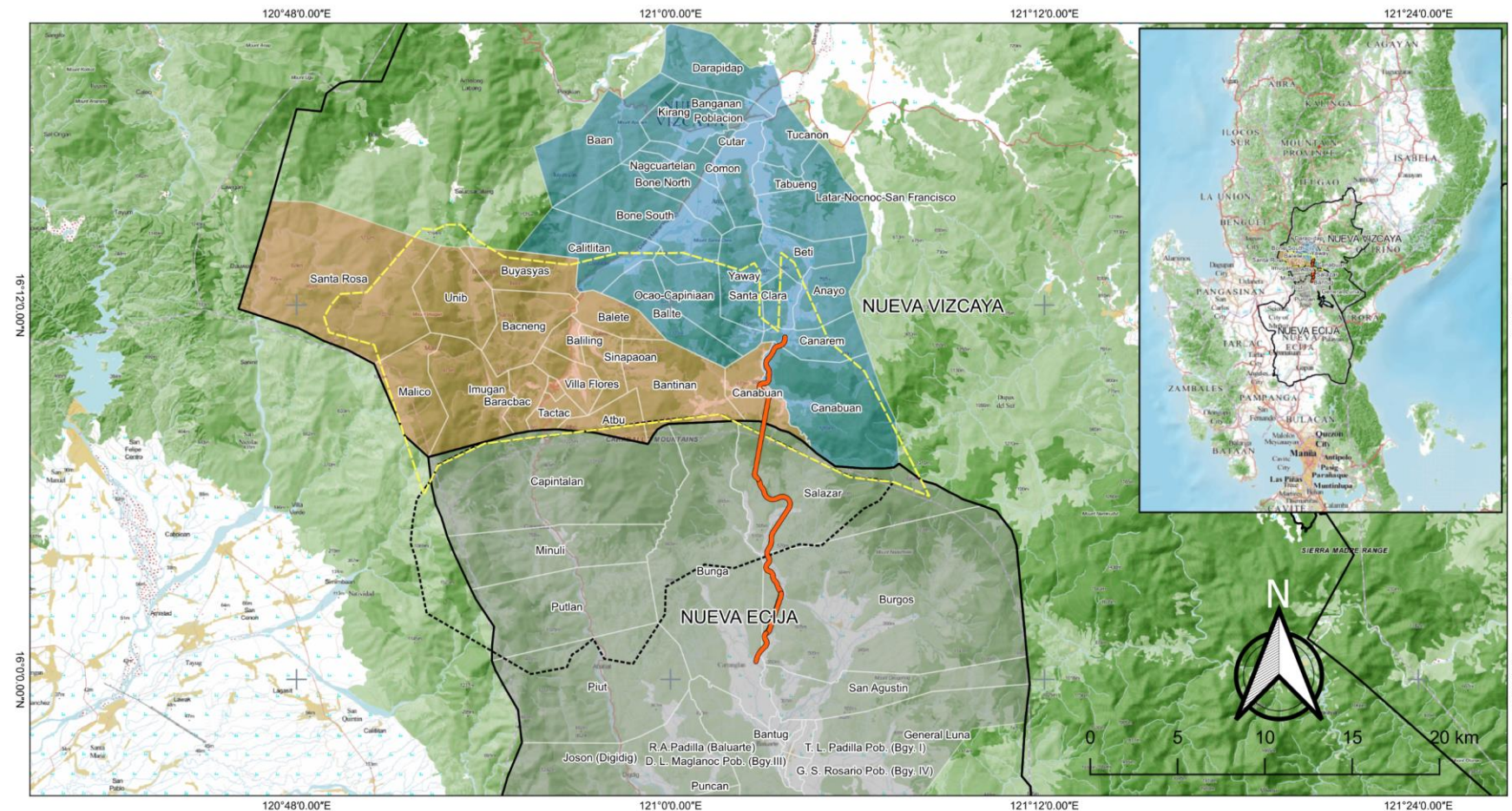
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Dalton Pass East Alternative Road Project



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Project Location



MAP SOURCE/S:
NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

MAP INFORMATION:
Map Scale : 1 : 2 5 0 , 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Philippine Geoportal
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.



Map Legend

- DPEAR Project Alignment
- Administrative Boundaries
 - Province of Nueva Vizcaya
 - Province of Nueva Ecija
- Municipality of Aritao
- Municipality of Santa Fe
- Municipality of Carranglan
- Ancestral Domain
 - Kalanguya Ikalahan AD
 - Kalanguya AD

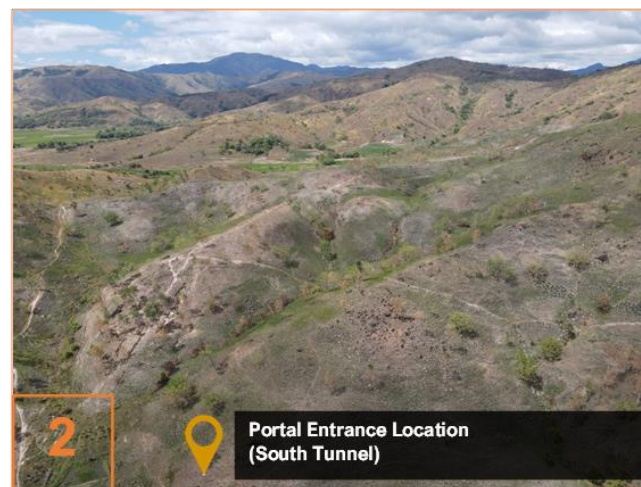
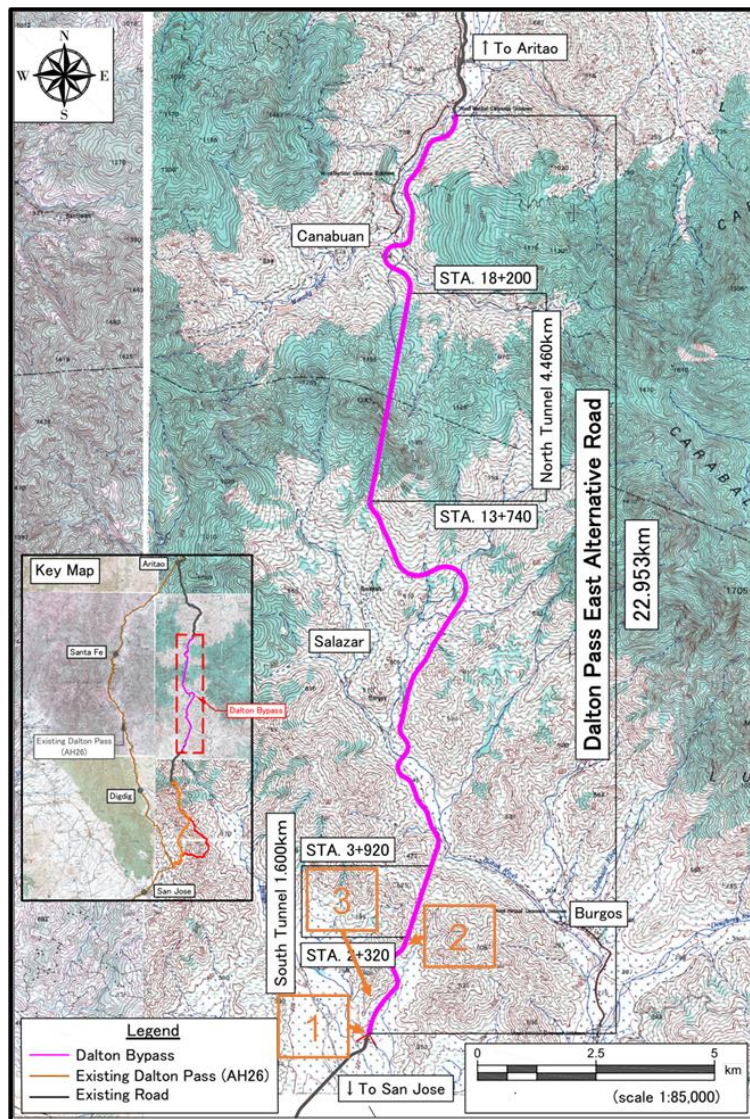


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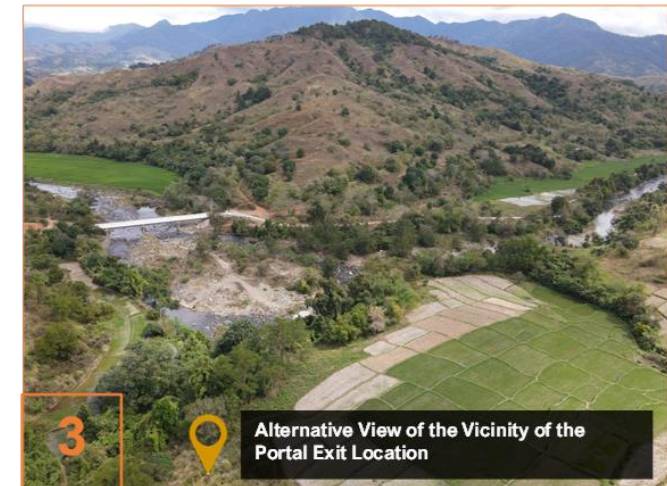
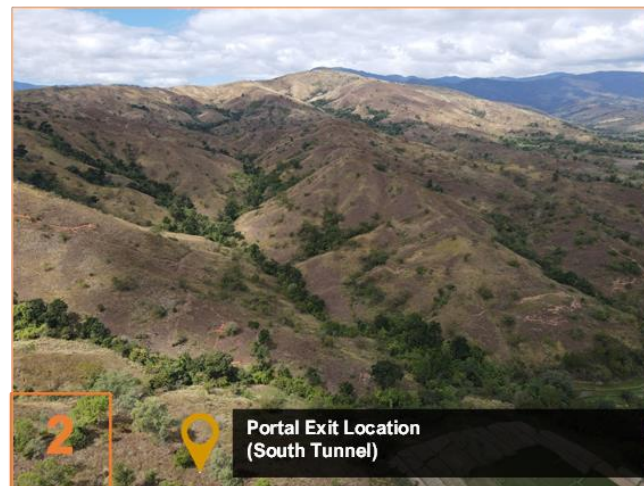
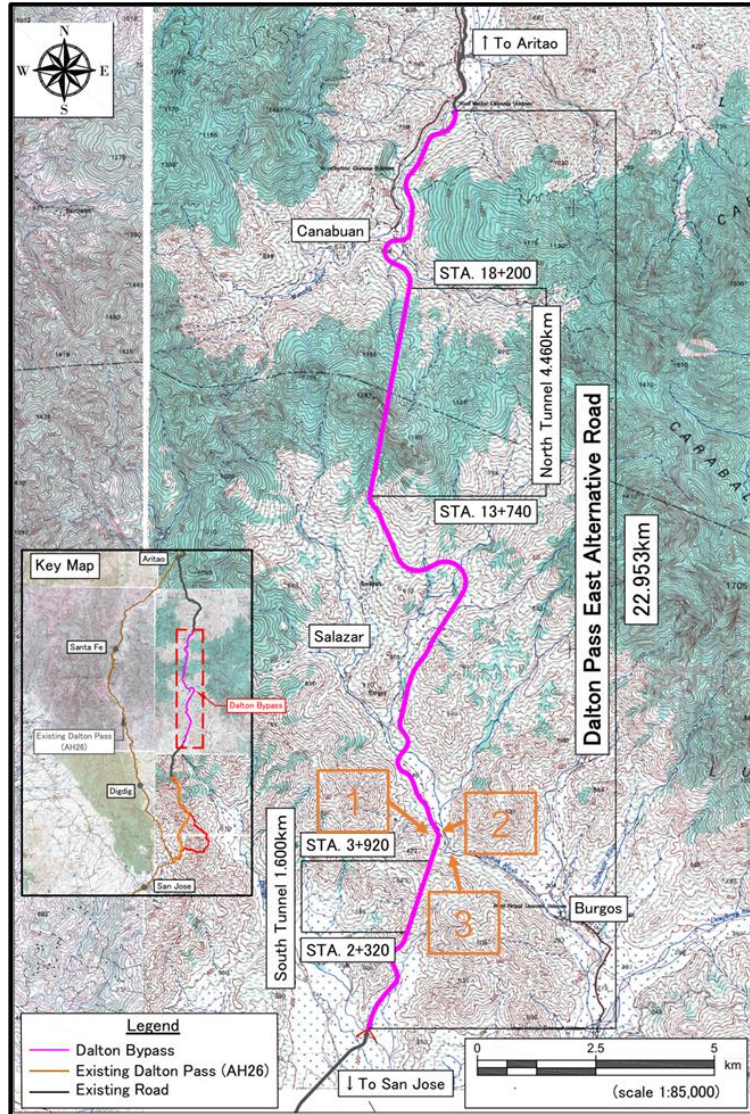


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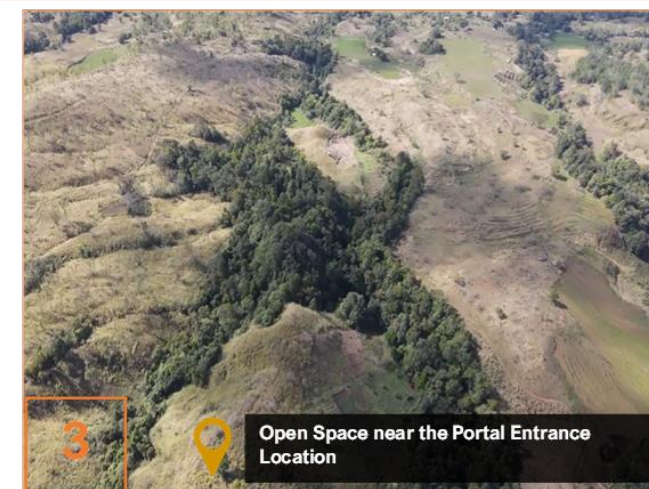
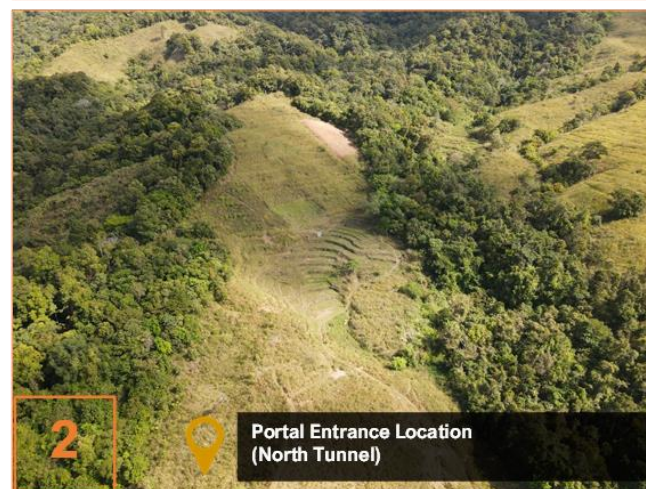
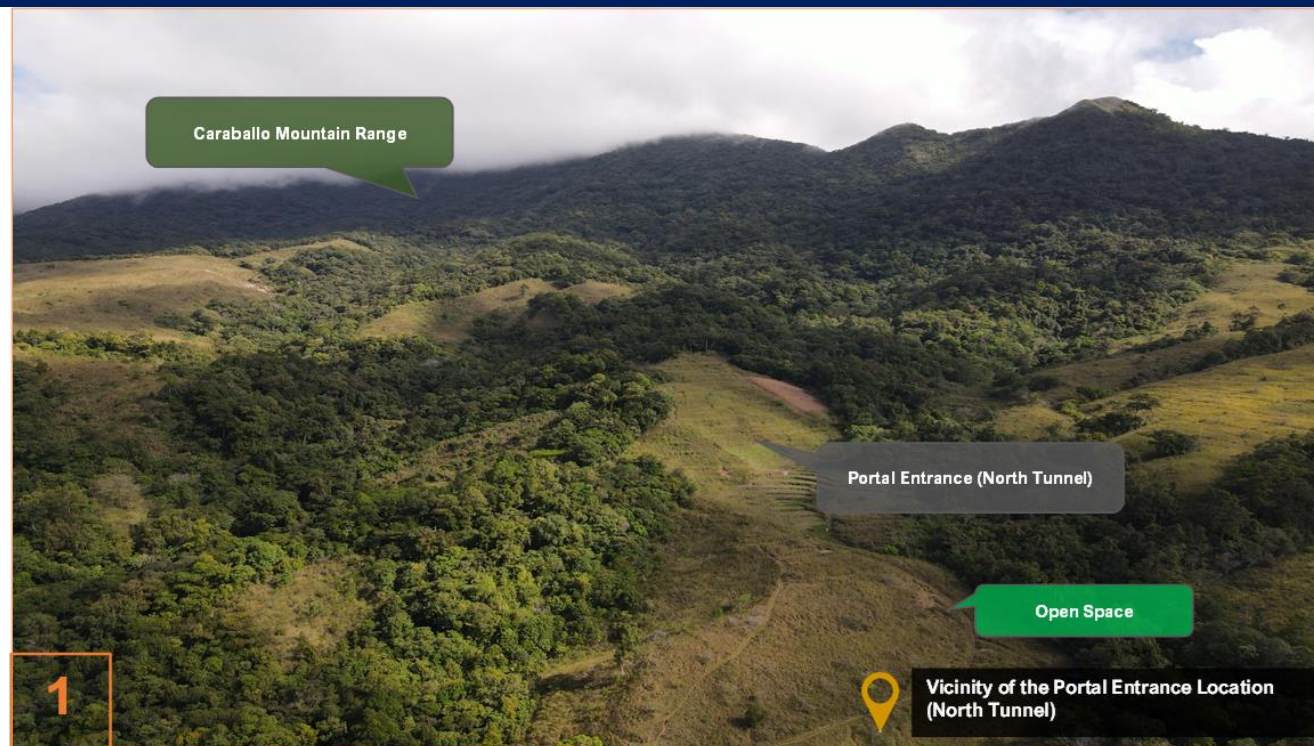
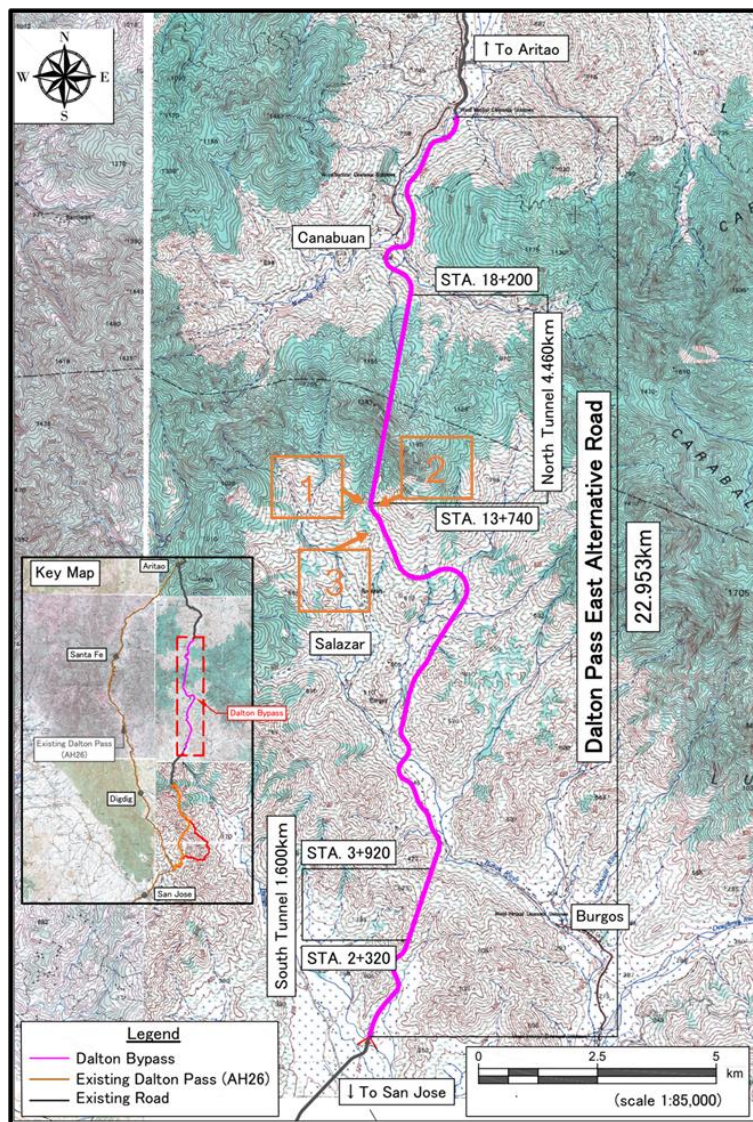


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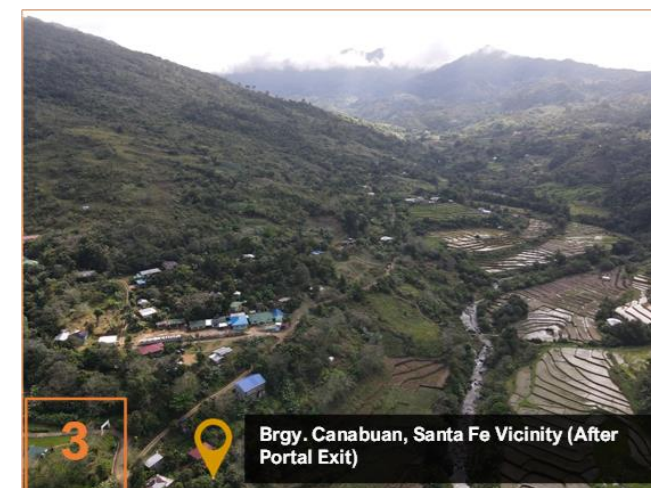
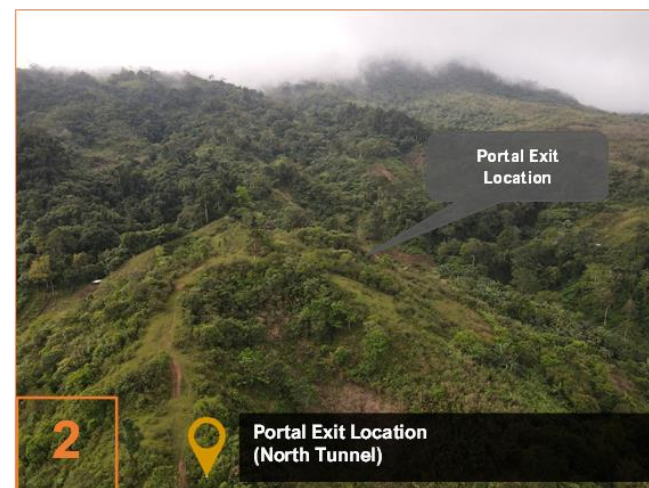
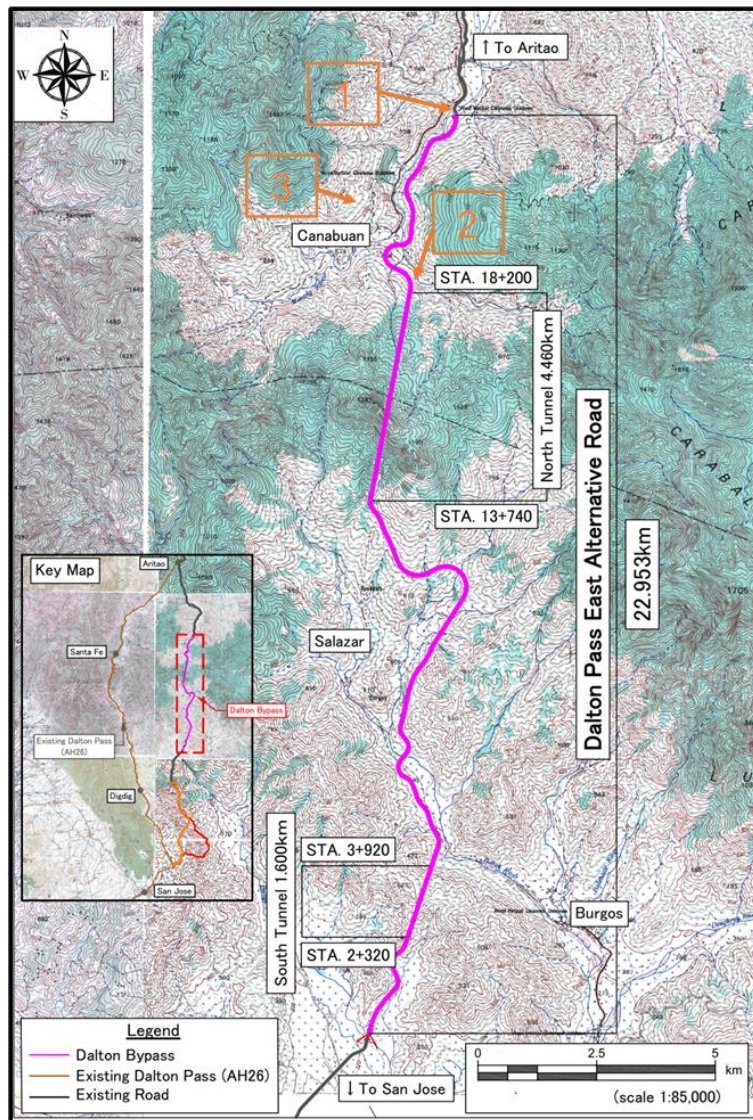


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Salient Features of DPEAR Project



One of the priority projects
of the current
Administration



Official Development Assistance
(ODA) Project of the Japan
International Cooperation Agency
(JICA)



The plan was
conceptualized to prevent
the disaster that happened
during the 1990 Luzon
Earthquake



The tunnels are 20 times longer
than Kaybiang Tunnel – current
longest *subterranean road
tunnel* in the Philippines, with a
length of 300m



Sections of the project is
within Pantabangan-
Carranglan Watershed
Forest Reserve (PCWFR)

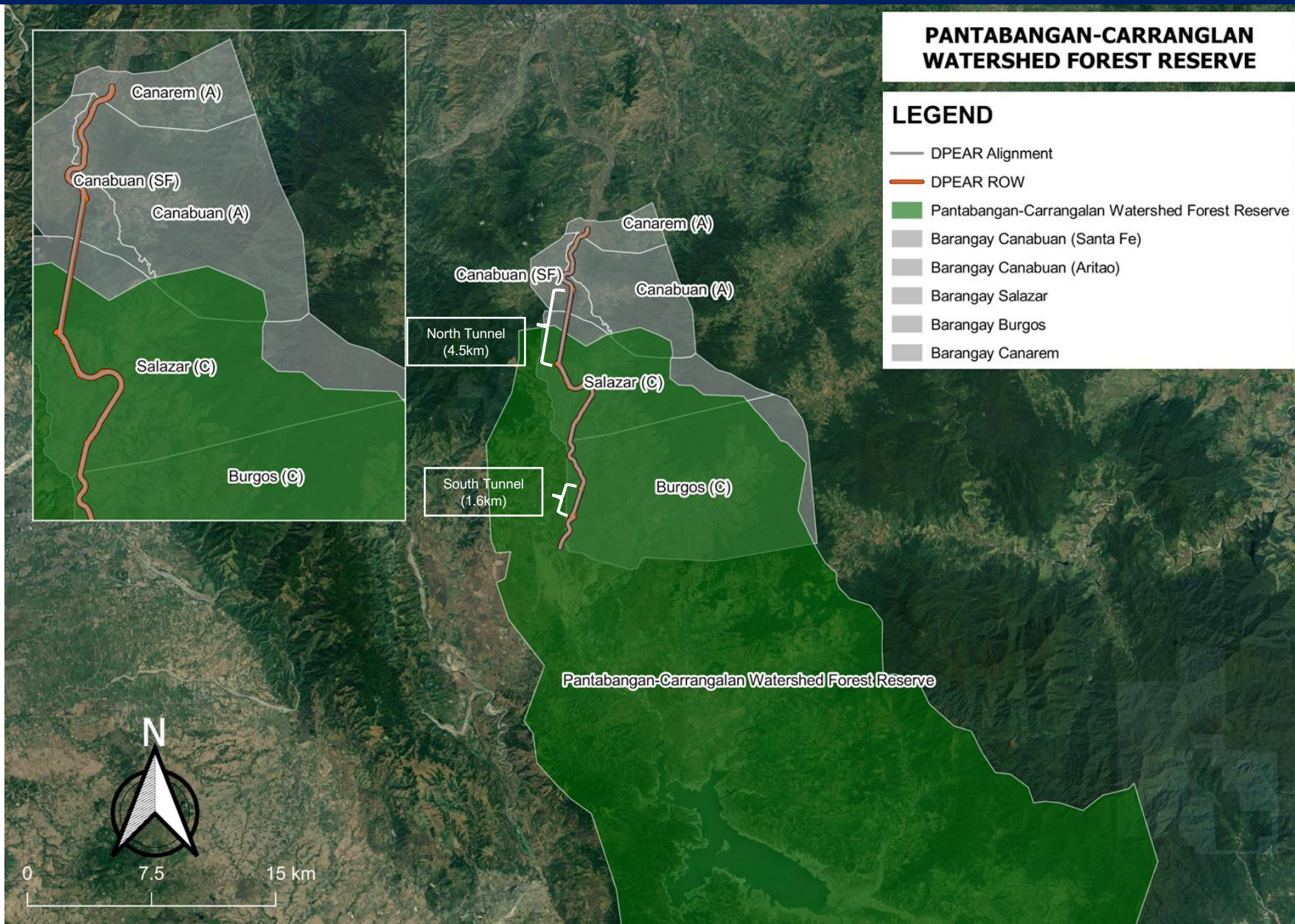


Sections of the project are within
2 Ancestral Domains (ADs). The
project has already secured
Certification Preconditions (CPs).



PCWFR

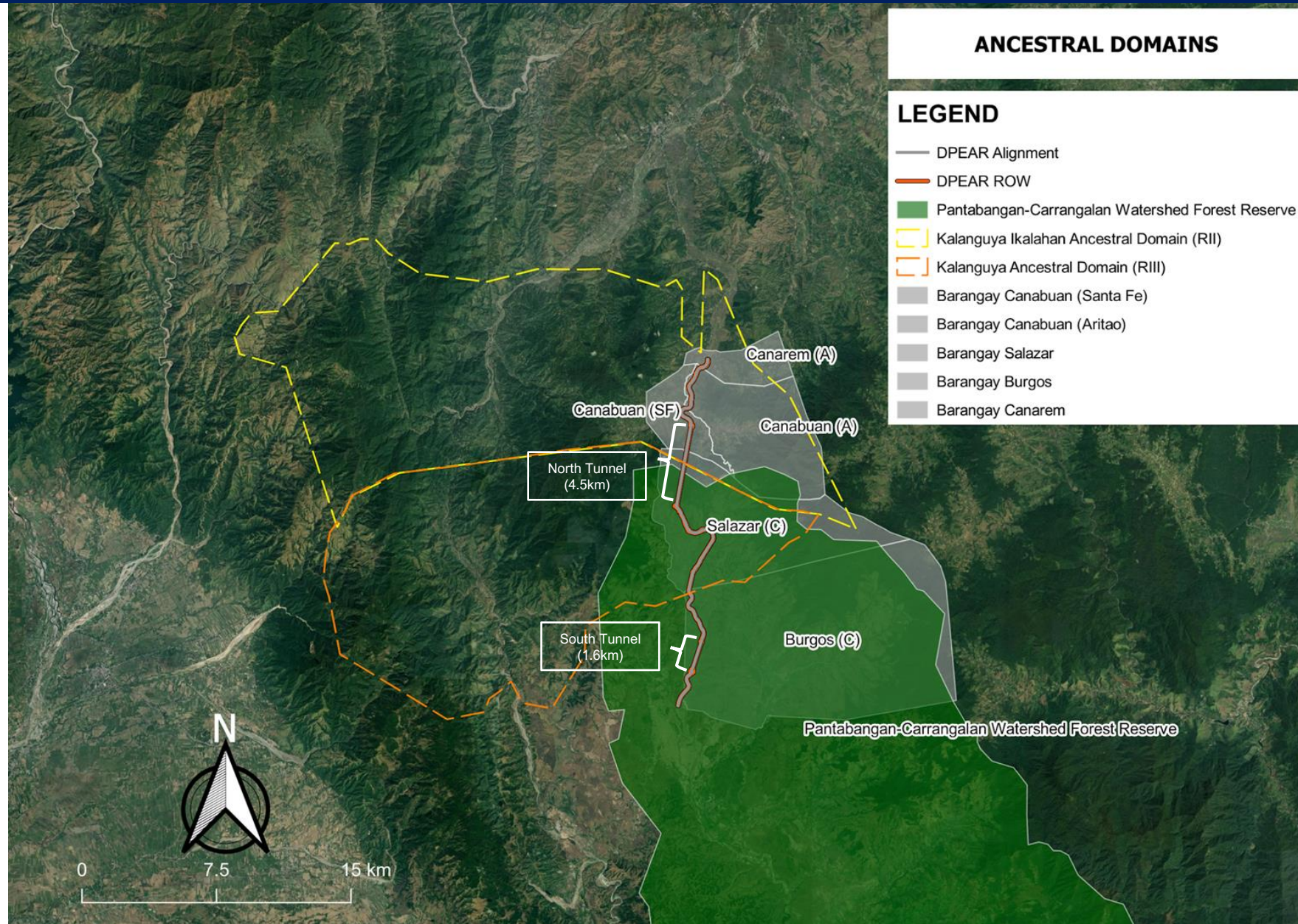
- The Pantabangan - Carranglan Watershed Forest Reserve (PCWFR) is a protected area based on Presidential Proclamation No. 561 series of 1969.
- Portions of the proposed project will be inside PCWFR.
- DPWH has been constantly coordinating with DENR, PENRO/CENRO, and PAMB for the proposed project.





Ancestral Domains

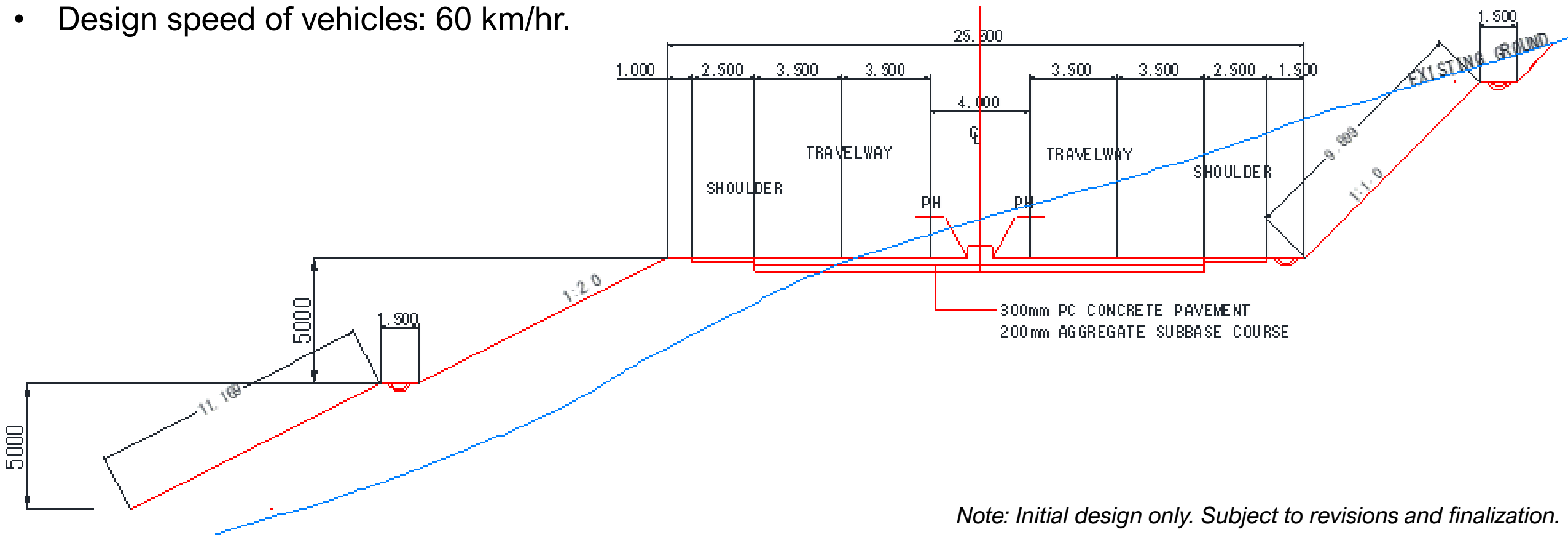
- Large portions of DPEARP are within Ancestral Domains (AD) of the indigenous peoples (IPs) in Nueva Vizcaya and Nueva Ecija.
- DPWH undertook the free and prior informed consent (FPIC) in accordance with RA No. 8371 otherwise known as the IPRA Law.
- DPWH has secured Certification Preconditions (CPs) for DPEARP.





Road

- The design of the road was based on the DPWH Design Guidelines, Criteria & Standards (DGCS), 2015.
- The road will be 4-lanes and constructed within the 60m road right-of-way (RROW)
- Design speed of vehicles: 60 km/hr.



Note: Initial design only. Subject to revisions and finalization.



Tunnel

No.	Item	Description	Standard
1	Traffic and Number of tunnel tube	1 main tunnel of 2-way traffic and 1 evacuation tunnel.	Road Structure Ordinance (JP)
3	Lane width	3.35m	DGCS: Vol. 4 2015
4	Vertical clearance	5.0 m	DGCS: Vol. 4 2015, P. 3-81
5	Width of shoulder	1.25 m	DGCS: Vol. 4 2015, P. 3-65
6	Width of sidewalk	0.50 m	DGCS: Vol. 4 2015, P. 3-81
7	Width of maintenance walk	0.75 m	NEXCO standard
8	Height of maintenance walk	0.90 m	NEXCO standard
9	Maximum gradient	3.0%	Road Structure Ordinance (JP) 2004
10	Minimum gradient	0.5%	Road Structure Ordinance (JP) 2015
11	Vertical clearance of maintenance walk	2.00 m	NEXCO standard
12	Interval of emergency crossing passage for vehicle	375 m	Technical Standard for Road Tunnel (Structure Division)
13	Interval of emergency crossing passage for vehicle	750 m	Technical Standard for Road Tunnel (Structure Division)
14	Interval of emergency parking lane	375 m	Technical Standard for Road Tunnel (Structure Division)
15	Ventilation	Mechanical Jet-fan	Technical Standard for Road Tunnel (Ventilation Division)

Source: JICA Study Team

Type	Wall Type
Item	Wing Type
Shape	
Overview	Planned as an earth retaining wall by cutting the ground. Economical because tunnel length can be shortened. Adopted for most railway tunnels.
Ground conditions appropriate for application	<ul style="list-style-type: none"> - Comparatively steep topographic features where ground will be cut and portal will be constructed - Where an earth retaining wall or enlarged retaining wall will be constructed for an oblique type slope.
Meteorological conditions appropriate for application	- Few problems even when used in snowy areas.

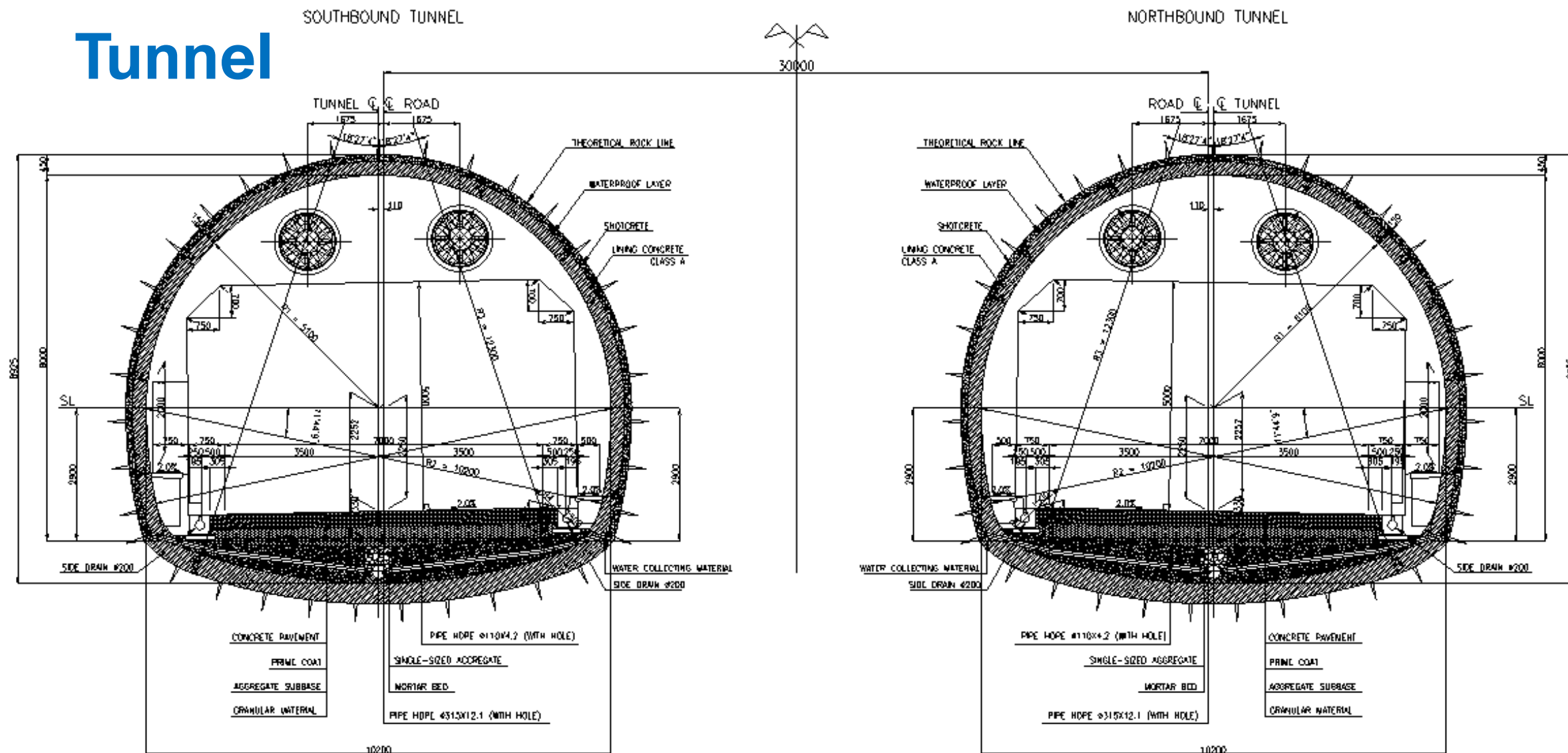


Department of Public Works and Highways Dalton Pass East Alternative Road Project



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Tunnel



Note: Initial design only. Subject to revisions and finalization.



Tunnel Construction Methodology

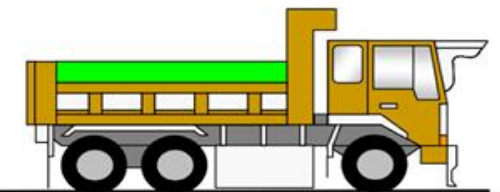
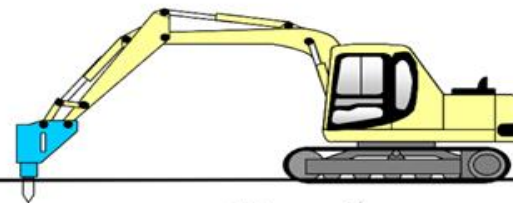
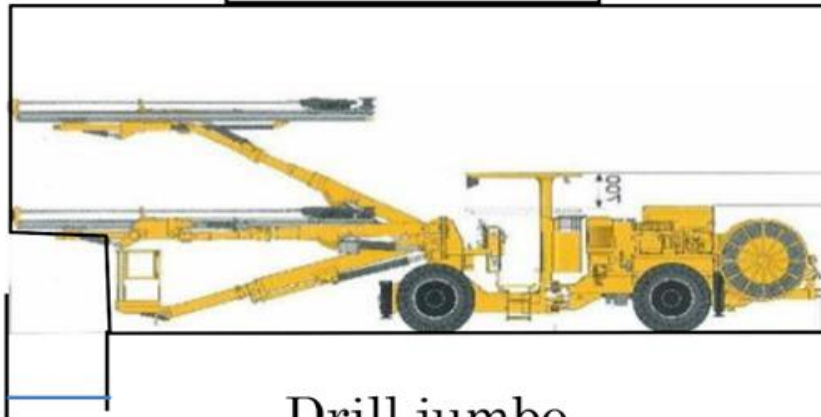
- The tunnel construction will be done using the New Austrian Tunneling Method (NATM).



Excavation

Chipping

Mucking



Breaker
(hydraulic 1,300kg)

Wheel
loader

Dump truck
22t

Auxiliary bench
Source: Study Team

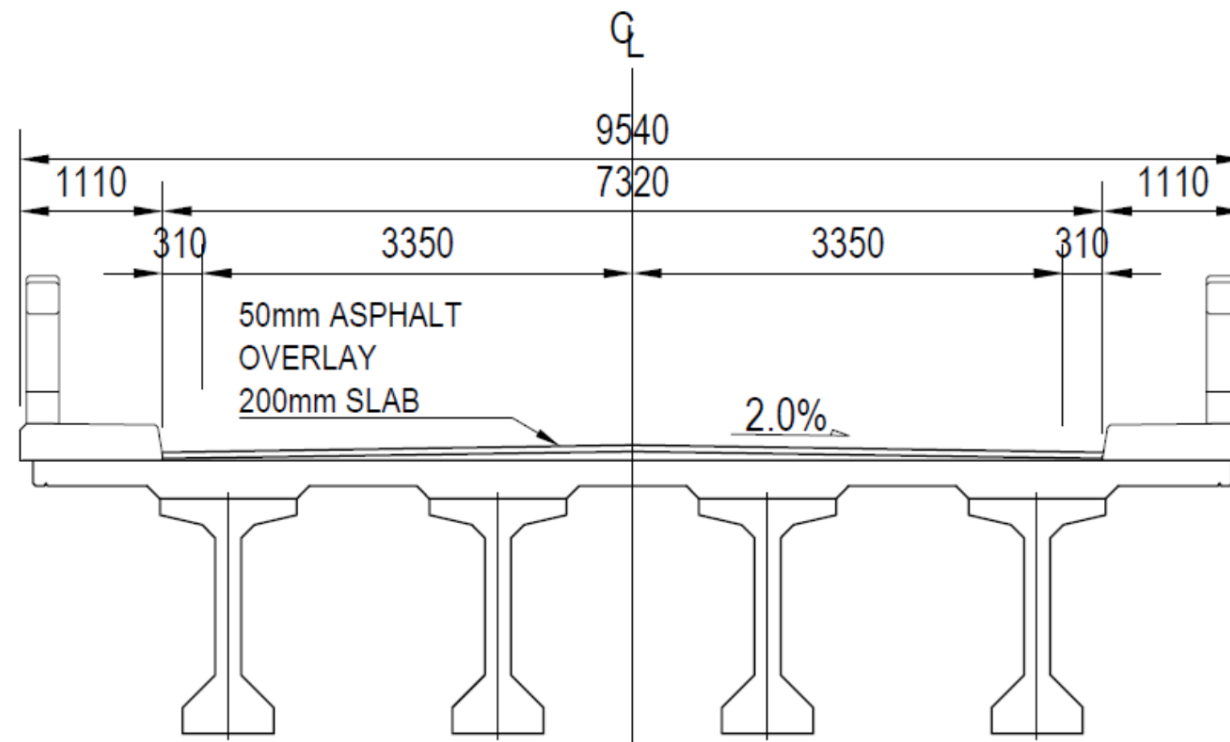


Bridge

No.	Technical Standard	Year
1	Design Guidelines, Criteria and Standards Volume V (DPWH)	2015
2	LRFD Bridge Seismic Design Specifications, 1st Edition, 2013 & Interim Revision 2019 (BSDS) (DPWH)	2019
3	LRFD Bridge Design Specifications 8th Edition (AASHTO)	2018
4	LRFD Bridge Construction Specifications 3rd Edition (AASHTO)	2016
5	Specifications for Highway Bridges (Japan Road Association)	2017

No.	Item		Value
1	Design Flood Level (DFL)	River	5m from riverbed
		Irrigation canal	5m from riverbed
2	Freeboard		1.5m
3	Construction Limit (Project Road)		5m

Source: JICA Study Team



Source JICA Study Team

Note: Initial design only. Subject to revisions and finalization.



Project Utilities

Water Supply	The water supply requirements of the proposed project will be obtained from local water supply in the area. Other options considered are based on available water sources (i.e., spring water, groundwater, rainwater, etc.).
Power Supply	The power supply requirements of the proposed project will be obtained from local power supply utilities in the area. In some portions where electricity lines are not available/serviceable, generator sets will be utilized.
Construction Materials	<p>Materials for construction, including aggregates, will be procured, as much as possible, within the Provinces of Nueva Vizcaya and Nueva Ecija.</p> <p>Supplies from other nearby provinces shall also be considered.</p>



Project Schedule

PROJECT PHASE	TIMEFRAME
Preparation Phase	2019 to 2022
NEDA Approval	2022
Design Phase (Detailed Engineering)	2023 to 2024
Construction	3 rd Qtr. of 2025 to 2028
Operation and Maintenance	2029 onwards



Manpower Requirements

PROJECT PHASE	ESTIMATED MANPOWER REQUIREMENT
Pre-Construction	120
Construction	2,000
Operation	25
Abandonment	50



Manpower Requirements

Guidelines for the **Implementation of the Provisions of Republic Act No. 6685 and Republic Act No. 9710** or the **Magna Carta on Women**. Pursuant to Section 7 of RA No. 6685 and MCW, the following implementing rules and regulations are issued accordingly:

- **The mandatory minimum percentage of 50% of unskilled labor requirement shall be recruited and be equally accessible to both women and men.**
- **The mandatory minimum 30% of the skilled labor requirement shall be recruited and be equally accessible to both women and men.**

In case of a project traversing two or more barangays/ municipalities/ cities/ provinces, the labor requirement shall be recruited proportionately from the localities traversed by the project.



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Dalton Pass East Alternative Road Project



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GENDER AND DEVELOPMENT
(GAD) FINDINGS AND MEASURES

Dalton Pass East Alternative Road Project





GAD Focused Group Discussions (FGDs)

30 June to 2 July 2021

LGU	Date	Male	Female	Total
Aritao, NV	30 Jun 2021	8	4	12
Santa Fe, NV	1 Jul 2021	8	5	13
Carranglan, NE	2 Jul 2021	11	6	17
	TOTAL	27	15	42



Aritao



Santa Fe



Carranglan



GAD Focused Group Discussions (FGDs)

16 to 17 February 2022

LGU	Date	Male	Female	Total
Aritao, NV	16 Feb 2022	4	7	11
Santa Fe, NV	16 Feb 2022	3	10	13
Carranglan, NE	17 Feb 2022	9	6	15
	TOTAL	16	23	39



Aritao



Santa Fe



Carranglan



Summary of Key Findings – LGU Aritao

Potential Benefits

- Faster trip, less accidents, less traffic
- Ease of transport in case of emergencies
- Employment during project construction, O&M
- Tourism potential of the proposed tunnels (longest in the Philippines)

Potential Negative Impacts

- Impact on air quality from air emissions of vehicles that will be using the new road
- Potential adverse impact on the livelihood of people, especially among women selling goods, along the existing Dalton Pass.
- Road development may induce in-migration/influx of outsiders potentially affecting the IPs.
- IPs will be the ones who will be greatly affected; Emphasis on project compliance with the MOA with IPs



Summary of Key Findings – LGU Aritao

Recommended Design Features

- Lighting
- Road safety signages
- Gender-sensitive comfort rooms near the tunnel entrance/exit points
- CCTV cameras
- Protection measures/emergency features at the entry and exit points, Emergency Bay area
- Bike lanes
- Imposition of speed limits
- Lane designation (especially for trucks/large vehicles)
- Weighing bridge to detect overloading trucks/delivery vehicles
- Design adjustments (reinforced roads) to withstand trucks/heavy vehicles



Summary of Key Findings – LGU Aritao

Measures for Community Participation

- Barangay contribution/cooperation on road maintenance (e.g., de-clogging of canals); maintaining peace and order in the area
- Barangay and Municipal LGU support in safeguarding the road and tunnel installations, equipment, security features – protecting against pilfering/vandalism
- To address soil erosion, stricter enforcement of prohibition on kaingin in cooperation with the DENR



Summary of Key Findings – LGU Santa Fe

Potential Benefits

- Faster travel time
- Tourism potential

Potential Negative Impacts

- Impact on economic activities/livelihood of establishments/residents along the existing Dalton Pass
- Potential increase in the incidence of youth abuse during the construction activities.
- Impact on livelihood of people with project-affected farmlands
- Impact on the environment – Tree-cutting, loss of vegetation
- Potential adverse impact
- Impact of tunnel excavation on existing spring water sources in the area



Summary of Key Findings – LGU Santa Fe

Recommended Design Features

- Road safety signages and lighting
- Restrooms rooms near the proposed tunnels/along the proposed roads in Brgy. Canabuan area
- Stop-over area for trucks (somewhere in Aritao or before the tunnel entry points); Rest area for truck drivers and motorists/tourists near the tunnel entry/exit points
- Provision of solid waste management facilities (i.e., trash bins)
- Implementation of road setback
- Bike lanes to add to tourism potential from the project
- Beautification of the highway through planting of ornamental plants/trees); consider provincial ordinance on tree planting requirements and planted outside of road right of way to avoid roadside friction or obstruction (prevent accidents);
- MOA between the DPWH (including Contractors) and the LGU to protect the welfare of minors who can fall victim to abuses that can occur during the Construction Phase



Summary of Key Findings – LGU Santa Fe

Measures for Community Participation

- Prioritize Santa Fe residents in hiring personnel/staff for the construction and O&M of the project
- Coordination with local rescue team to respond during emergencies (in coordination MDRRMO)



Summary of Key Findings – LGU Carranglan

Potential Benefits

- Shorter travel time, better travel conditions, especially during rainy seasons; less travel expenses
- Increase in property prices near the road alignment
- May encourage economic growth in the project area
- Tourism potential from the tunnels
- Presence of DPEAR Project will allow for the existing Dalton Pass to be rehabilitated

Potential Negative Impacts

- Potential in-migration, of both non-IPs and IPs, who will be attracted to the economic activities/opportunities in the project area.
- Potential negative impact on the livelihood of people operating businesses along the existing Dalton Pass; Less people using the existing Dalton Pass = less customers
- Road access development and tourism might expose the area and its natural resources to exploitation, such as illegal logging.



Summary of Key Findings – LGU Carranglan

Recommended Design Features

- Warning devices, emergency facilities
- Widen the road shoulder for the safety of pedestrians, especially children
- Comfort rooms/washing area/rest stop for commuters, visitors, tourists – can be adjoined to the Tourist Assistance Center Tourist Assistance Center to assist visitors/tourists
- Police outpost to maintain peace and order
- Bike lanes
- Garbage disposal facilities
- Ensure that Contractors are credible and will deliver the project in accordance with standards and the plans/program of works (ensure construction quality)



Summary of Key Findings – LGU Carranglan

Measures for Community Participation

- LGU support through implementing local regulations or adopting national policies at the municipal and barangay level to protect/sustain functionality of the roads and tunnels; close coordination with the PNP and other concerned agencies for the enforcement of the laws/regulations
- Barangays to strictly implement regulations to prevent road accidents (e.g., wandering animals) and in protecting the tunnels from vandalism
- Strict implementation of zoning



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Dalton Pass East Alternative Road Project



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ENVIRONMENTAL IMPACT ASSESSMENT
(EIA) FINDINGS AND MEASURES

Dalton Pass East Alternative Road Project

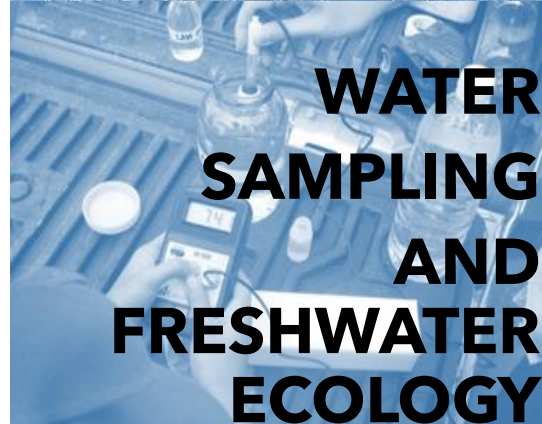




EIA Activities Conducted



**TERRESTRIAL
FLORA & FAUNA
SOIL SAMPLING**



**WATER
SAMPLING
AND
FRESHWATER
ECOLOGY**



**AIR
SAMPLING
NOISE AND
VIBRATION**



**FOCUS GROUP
DISCUSSIONS
CONSULTATION
MEETINGS
PERCEPTION
SURVEY**



Department of Public Works and Highways

Dalton Pass East Alternative Road Project



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DIA (LAND):

- Areas that will be cleared and excavated within the DPEAR Project Alignment.
- Also includes the soil disposal areas (tunnel construction).
- Areas within the Pantabangan-Carranglan Watershed Forest Reserve (PCWFR)

DIA (WATER):

- Rivers and creeks that the DPEAR Project will pass through (temporary: construction phase)

DIA (AIR):

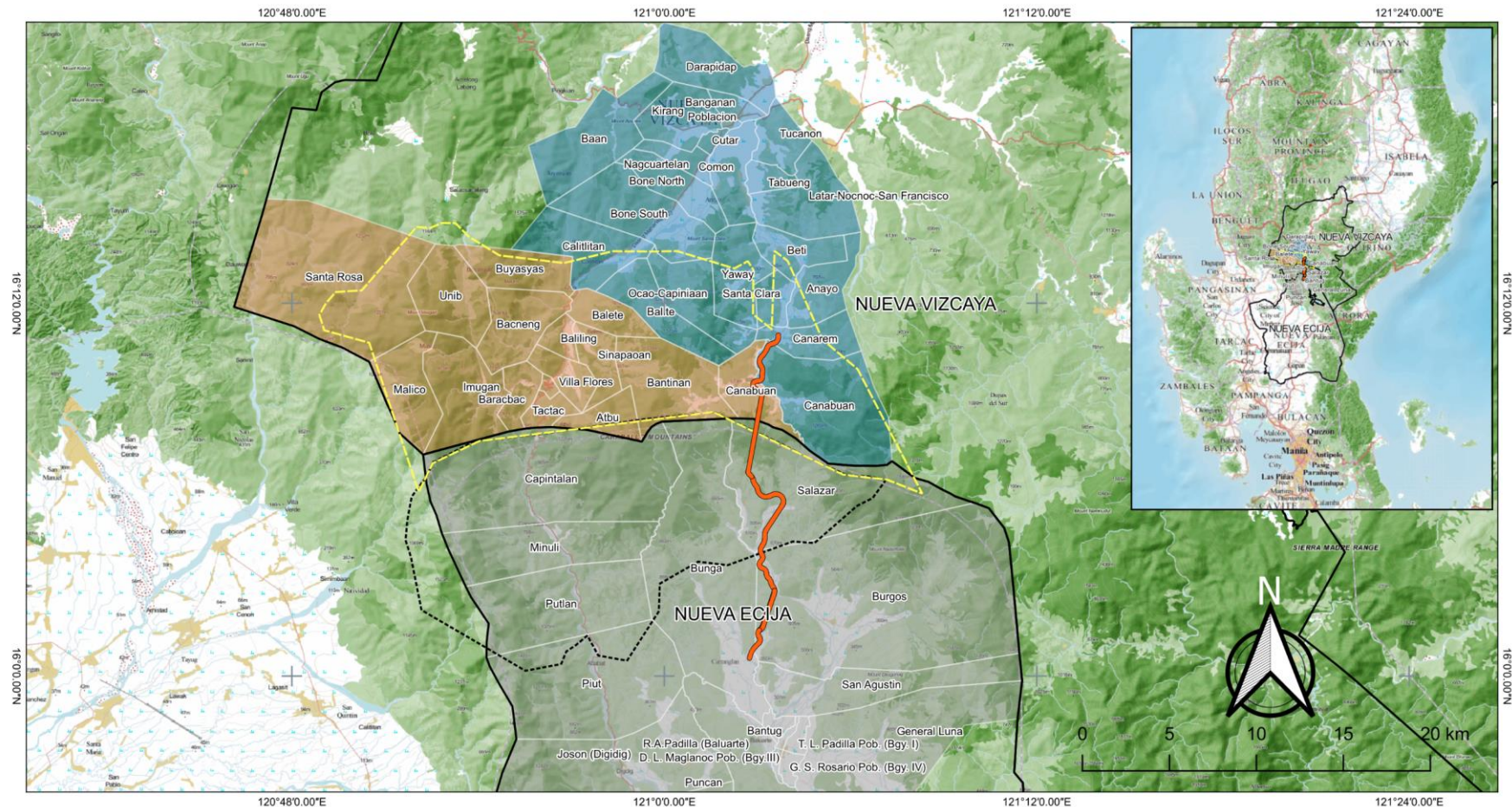
- Road-right-of-way (RRoW) of the project within the impact barangays (temporary: construction phase)

DIA (PEOPLE):

- Project Affected Families (PAFs) living within the alignment (RAP).
- Municipalities of Aritao, Santa Fe and Carranglan
- Barangays Canabuan, Canabuan, Canarem, Bunga, Burgos, and Salazar.
- Kalanguya Ikalahan and Kalanguya Ancestral Domains where the proposed project is located.

IIA (PEOPLE):

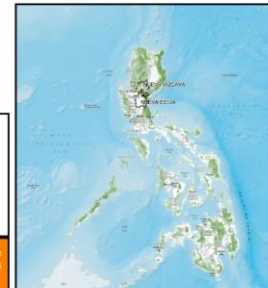
- Barangays outside the project alignment and within the municipalities of Aritao, Santa Fe and Carranglan.



MAP SOURCE/S:
NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

MAP INFORMATION:
Map Scale : 1 : 2 5 0 , 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Philippine Geoportal
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.



Map Legend

- DPEAR Project Alignment
- Administrative Boundaries
 - Province of Nueva Vizcaya
 - Municipality of Aritao
 - Municipality of Santa Fe
 - Province of Nueva Ecija
 - Municipality of Carranglan
- Ancestral Domain
 - Kalanguya Ikalahan AD
 - Kalanguya AD



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Dalton Pass East Alternative Road Project



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FINDINGS AND IMPACTS ON LAND

Dalton Pass East Alternative Road Project



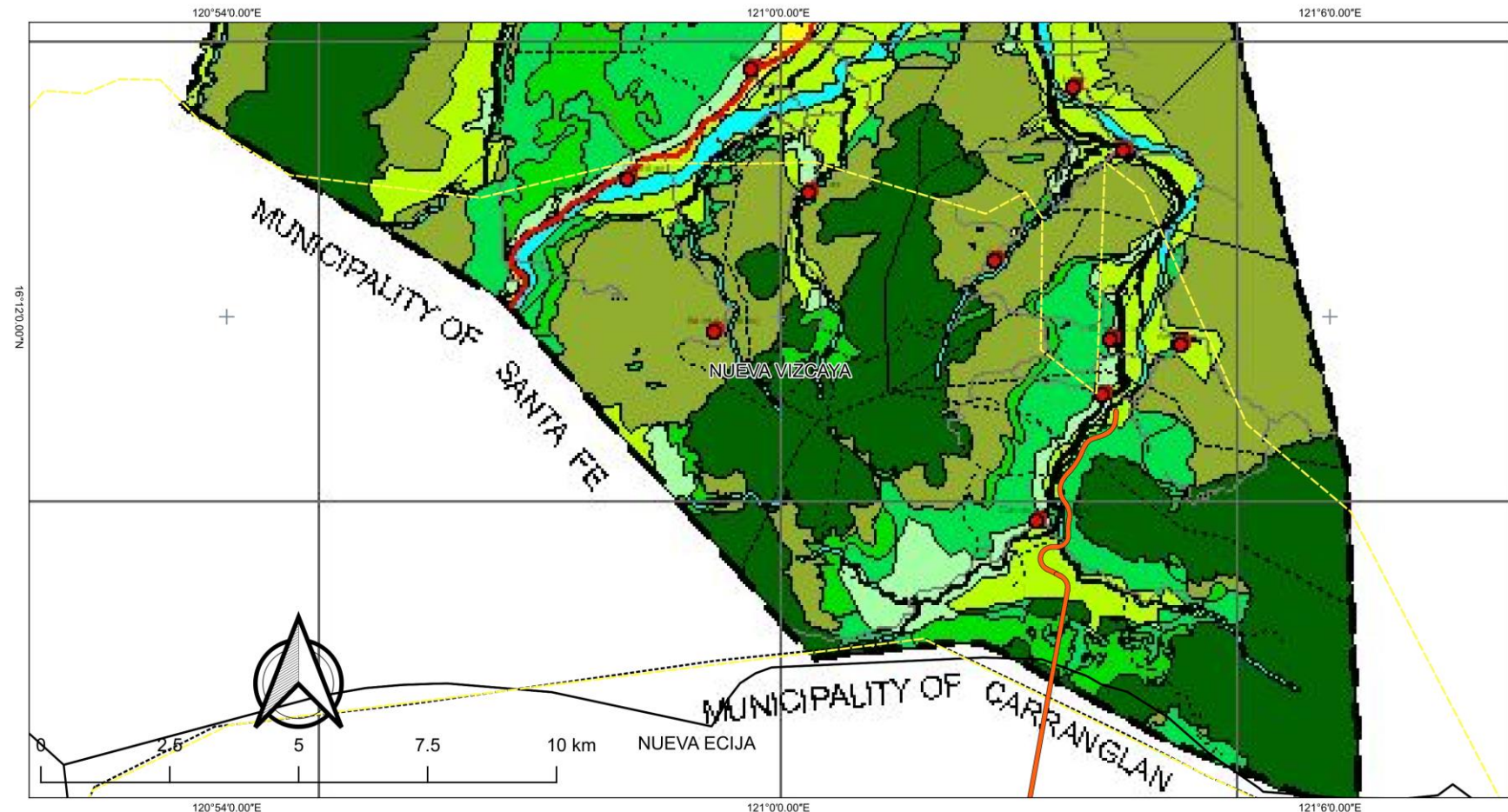


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NIPPON ENGINEERING CONSULTANTS CO., LTD. &
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Land Use of Aritao



MAP SOURCE/S:
MUNICIPALITY OF ARITAO
PROPOSED GENERAL LAND USE MAP

MAP INFORMATION:
Map Scale : 1 : 8 5 , 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Aritao Proposed General Land Use Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- | | | | |
|---------------------------|-----------------------|------------------------|------------------------|
| DPEAR Project Alignment | Ancestral Domain | Agro-forestry | Protection Agriculture |
| Administrative Boundaries | Kalanguya Ikalahan AD | Cemetery | Rivers/Easement |
| Province of Nueva Vizcaya | Kalanguya AD | Dumpsite | Roads/Infrastructure |
| Municipality of Aritao | | Institutional | Agro-Industrial Zone |
| | | Multiple Use | Built-up Area |
| | | New Protection Forest | Commercial |
| | | Production Agriculture | Industrial Zone |
| | | | Timberland |

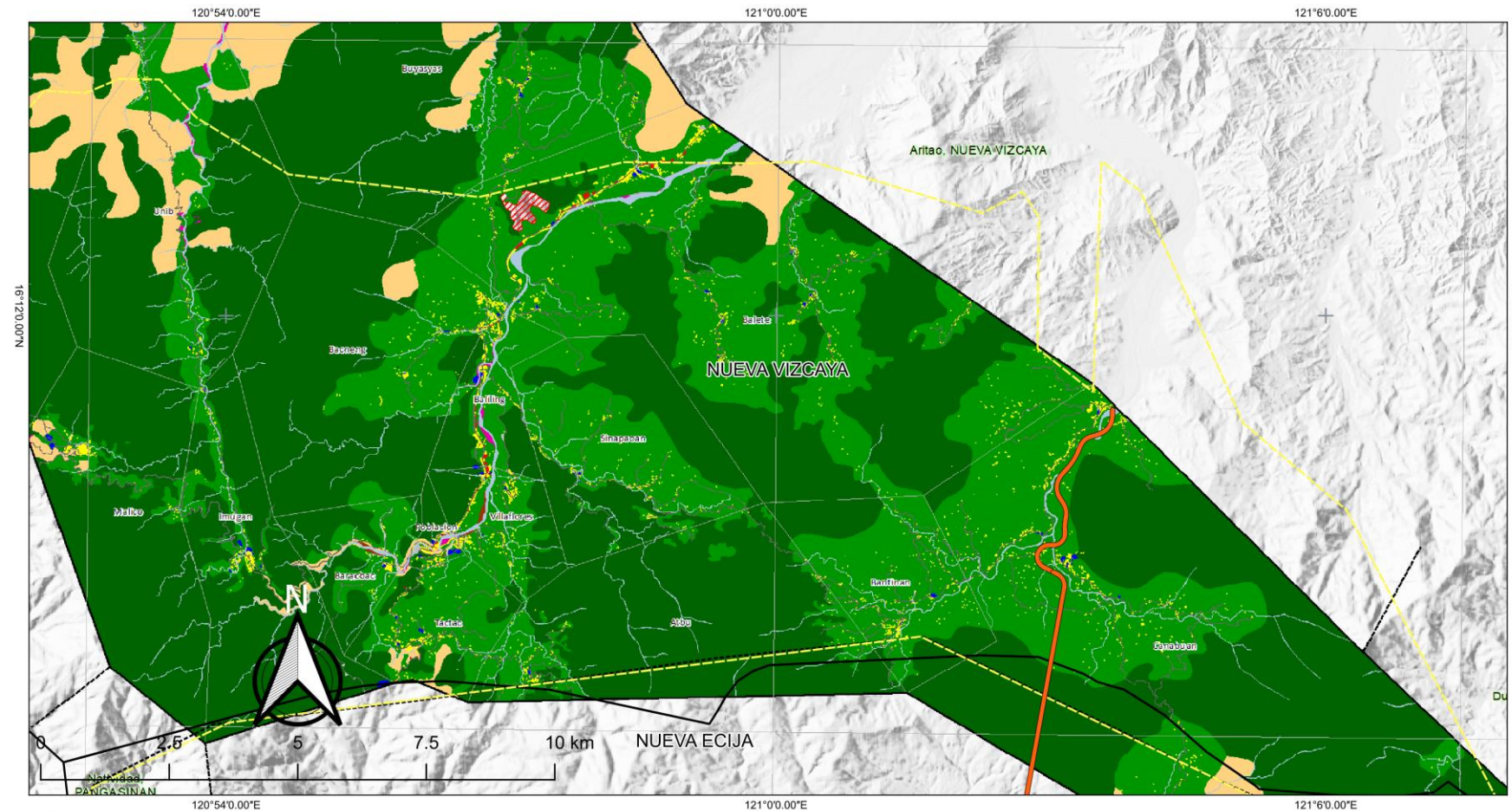


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Land Use of Santa Fe



MAP SOURCE/S:

MUNICIPALITY OF SANTA FE
ACTUAL LAND USE MAP

MAP INFORMATION:
Map Scale : 1 : 8 5 , 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Santa Fe Actual Land Use Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- | | | | |
|---------------------------|-----------------------|---------------|-----------------------|
| DPEAR Project Alignment | Ancestral Domain | Agricultural | Institutional |
| Administrative Boundaries | Kalanguya Ikalahan AD | Barren | Livestock |
| Province of Nueva Vizcaya | Kalanguya AD | Cemetery | Quarry |
| Municipality of Santa Fe | | Commercial | Residential |
| | | Flood Control | Road |
| | | Forest | Waterways |
| | | Grassland | Reforestation Project |

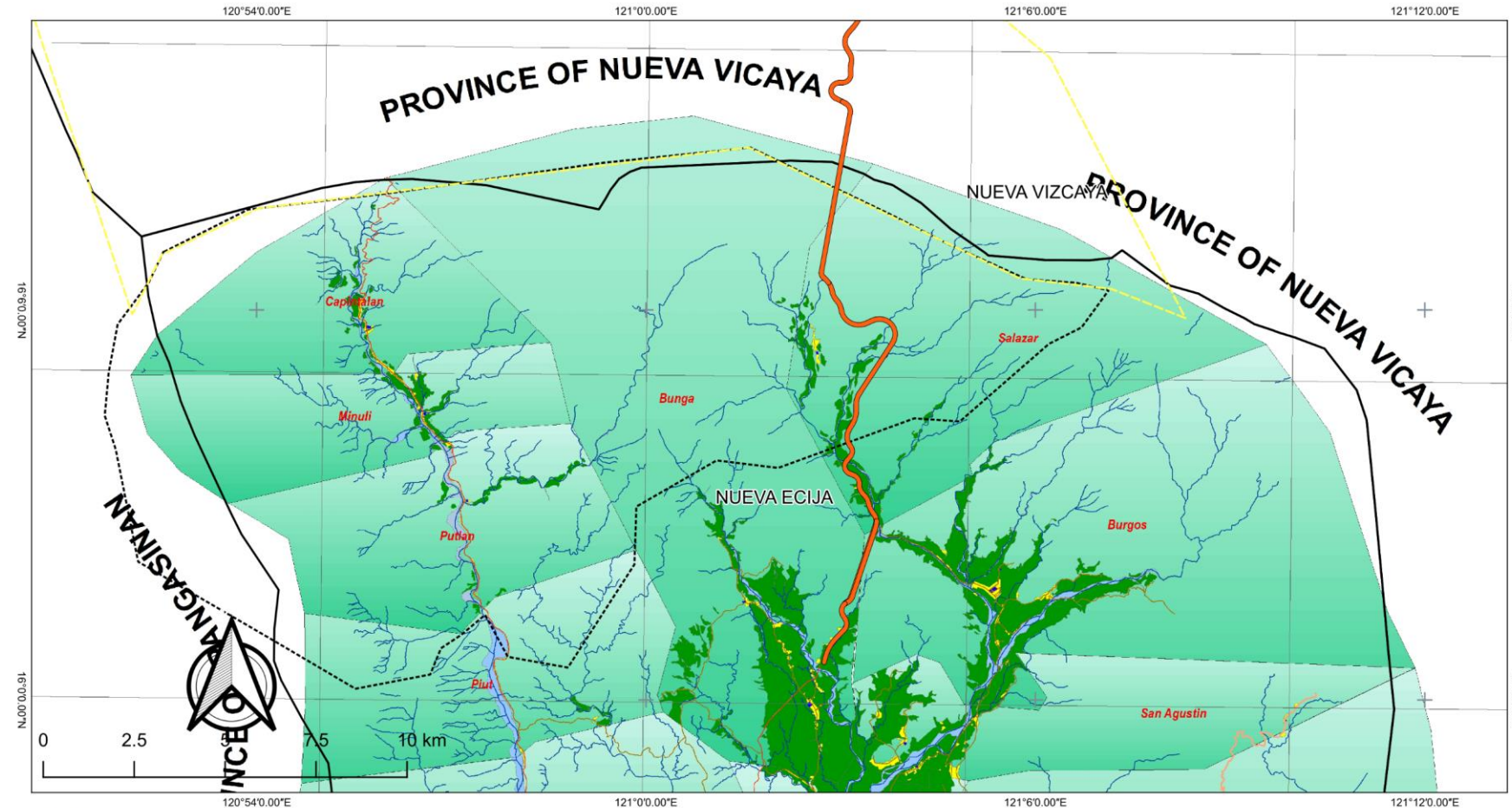


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Land Use of Carranglan



MAP SOURCE/S:

MUNICIPALITY OF CARRANGLAN
PROPOSED GENERAL LAND USE MAP

MAP INFORMATION:
Map Scale : 1 : 120,000
Administrative Boundaries: UN OCHA
Base Map: Carranglan Proposed General Land Use Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

DPEAR Project Alignment	Ancestral Domain	Forest
Administrative Boundaries	Kalanguya Ikalahan AD	Agricultural
Province of Nueva Ecija	Kalanguya AD	Cemetery
Municipality of Carranglan		Commercial
		Institutional
		Residential
		Agri-Industrial



Geohazard Assessment

GEOLOGIC HAZARD	FINDINGS (PROJECT LOCATION)
Earthquake	<ul style="list-style-type: none">▪ The project location is approximately 11 km east of the Philippine Fault System.▪ The project location is susceptible to earthquake.
Liquefaction	<ul style="list-style-type: none">▪ The entry and exit roads of the proposed alignment are susceptible to liquefaction.
Landslide	<ul style="list-style-type: none">▪ The project location has varying susceptibility to earthquake-induced landslide.▪ Portion of the north tunnel and the exit road in Brgys. Canabuan and Canarem have high susceptibility to rain-induced landslide.
Volcanic Events	<ul style="list-style-type: none">▪ The project location is not susceptible to any volcanic events.
Tsunami	<ul style="list-style-type: none">▪ The project location is not prone to tsunami.
Flooding	<ul style="list-style-type: none">▪ The southern portion of the project alignment in Barangays Salazar, Burgos and Bunga have low to moderate susceptibility to flooding.▪ The northern/exit road of the alignment has high susceptibility to flooding.



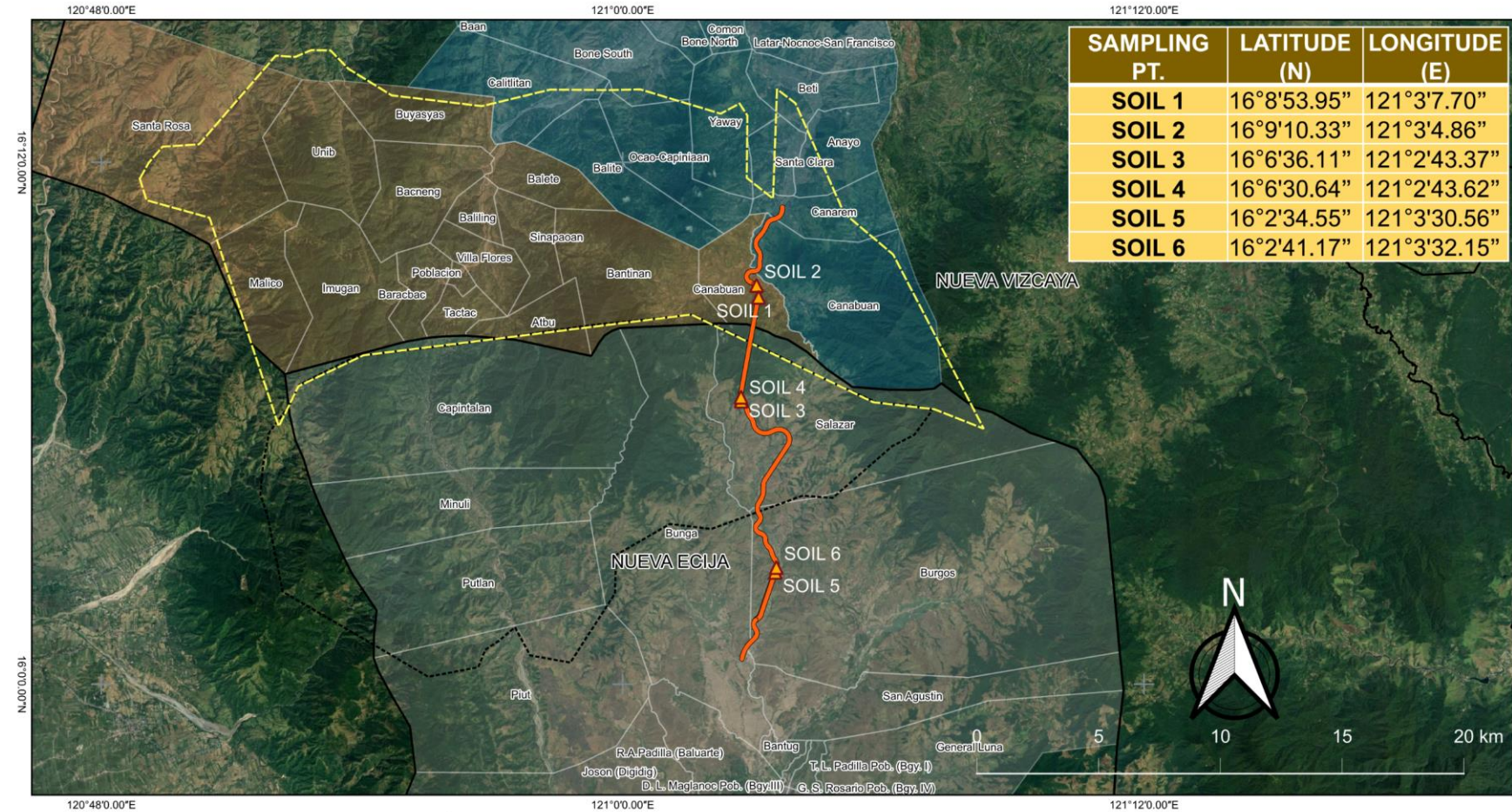
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Soil Quality



MAP SOURCE/S:
JICA STUDY TEAM

MAP INFORMATION:
Map Scale : 1 : 1 8 0 . 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Google Earth Satellite
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- DPEAR Project Alignment
- Municipality of Carranglan
- Administrative Boundaries
 - Province of Nueva Vizcaya
 - Municipality of Aritao
 - Municipality of Santa Fe
 - Province of Nueva Ecija
- Ancestral Domain
 - Kalanguya Ikalahan AD
 - Kalanguya AD
- Sampling Station
 - SOIL 1 to SOIL 6



- Soil quality **did not exceed** the standards.

NOTES: SP = Sampling Point | ND = Not Detected | mg/kg = milligrams per kilogram | (*) Method detection limit
REFERENCE: Dutch Soil Remediation Circular, 2013, Annex 1, Table 1



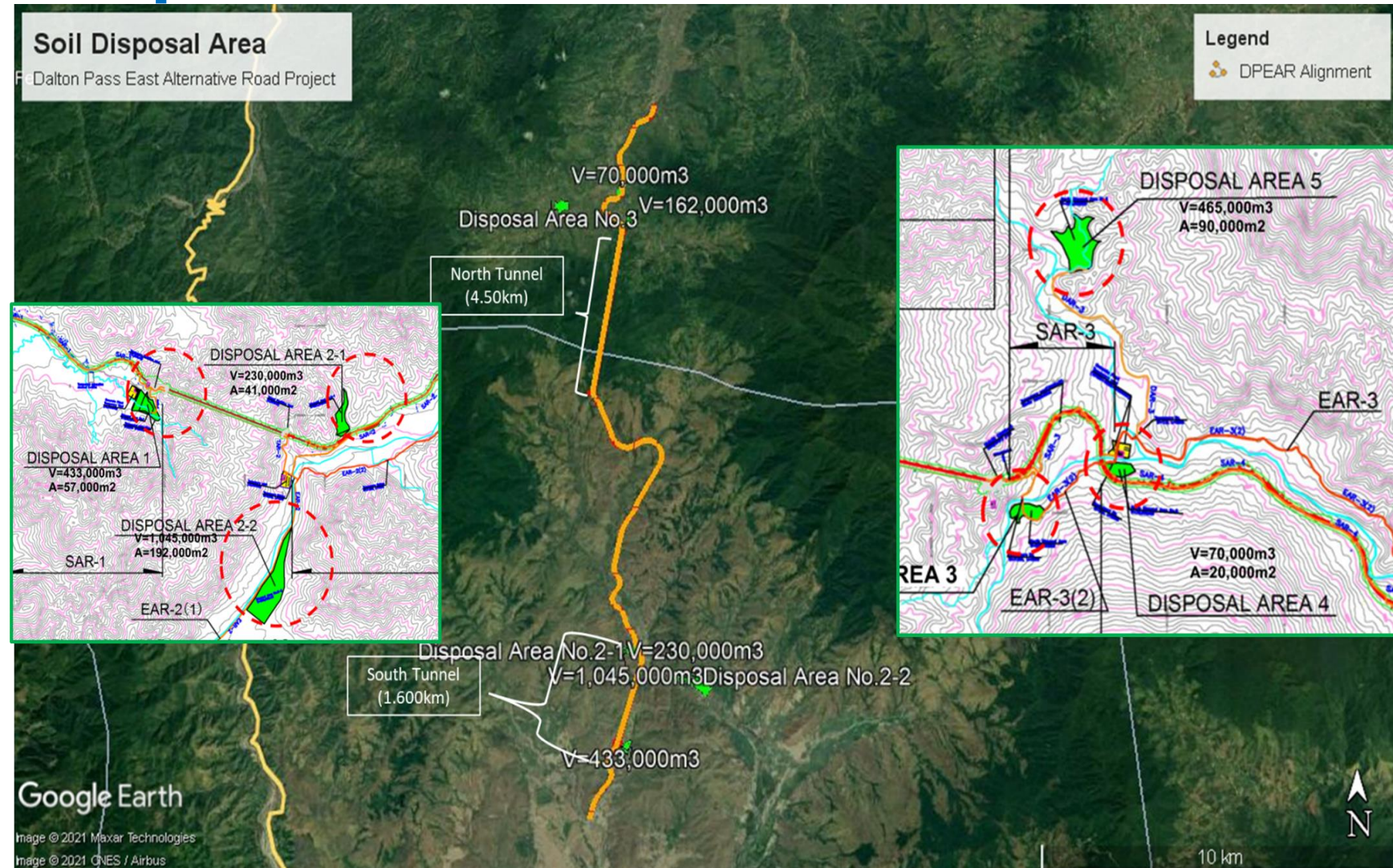
Terrestrial Ecology

- Under the IUCN, only one species is considered as highly threatened with endangered (EN) status which is **Narra**.
- There are **six fauna species** under the **updated list of threatened Philippine fauna species**. One Critically Endangered (Amethyst Brown Dove), one Endangered (Philippine Deer), two Vulnerable (Wild Boar and Philippine Duck) and two species are under the Other Threatened Species category (Gecko and Python).
- Under the DENR AO 2019-09, only **two of the recorded species are included in the updated list of threatened Philippine fauna species**. These are the Indigo Banded King Fisher (*Ceyx cyanopectus*) which is Critically Endangered, and the Gecko/Tokay (*Gecko gecko*) which is under the Other Threatened Species (OTS) category.



Generation of Surplus Soil

- A total of **2.4 million m³** of excavated soil will be generated.
- There were 5 disposal sites near the tunnel portals of the project where the excavated soils will be stored.
- The excavated soils may also be used as fill materials in the road construction.
- Final location will be subjected for the approval of the IP Leaders of the 2 Ancestral Domains.





Vegetation Removal

- The initially identified planted timber species accounts for **870 timber trees**. In addition, there were **18 fruit-bearing trees and perennials** identified throughout the RRoW.
- A Tree Cutting Permit (TCP) will be secured. DPWH will comply with the requirements of tree replacement. Joint Memorandum Circular (JMC) 2014-01 requires **100 seedlings/ saplings/ propagules** for **each tree cut**.



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Dalton Pass East Alternative Road Project



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FINDINGS AND IMPACTS ON WATER

Dalton Pass East Alternative Road Project



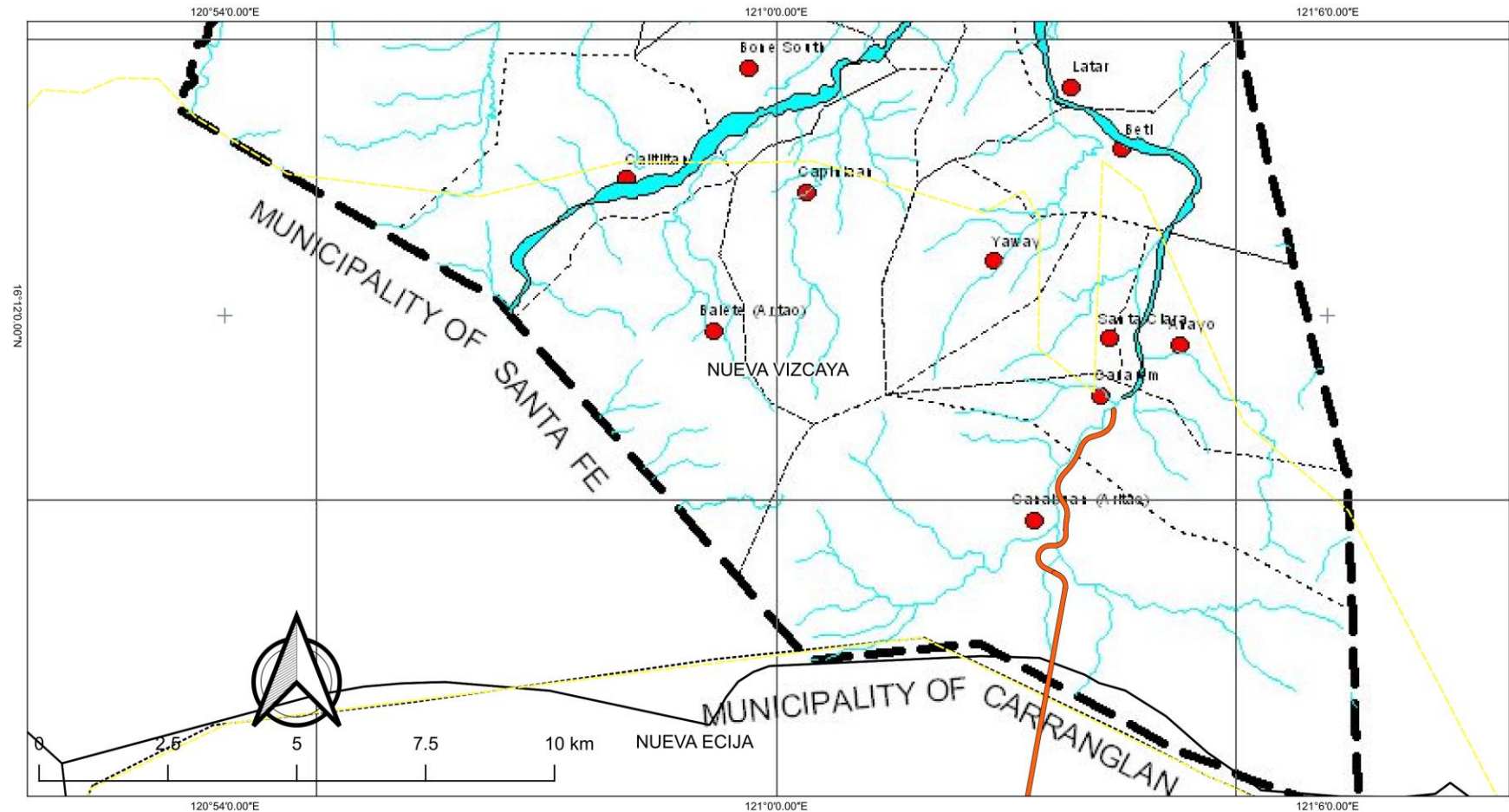


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Drainage Map of Aritao



MAP SOURCE/S:
MUNICIPALITY OF ARITAO
SURFACE DRAINAGE MAP

MAP INFORMATION:
Map Scale: 1:85,000
Administrative Boundaries: UN OCHA
Base Map: Aritao Surface Drainage Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- | | | | |
|---------------------------|----------------------------------|-------------------------|------------------------|
| DPEAR Project Alignment | Administrative Boundaries | Ancestral Domain | Drainage System |
| Province of Nueva Vizcaya | Municipality of Aritao | Kalanguya Ikalahan AD | Rivers |
| | | Kalanguya AD | |



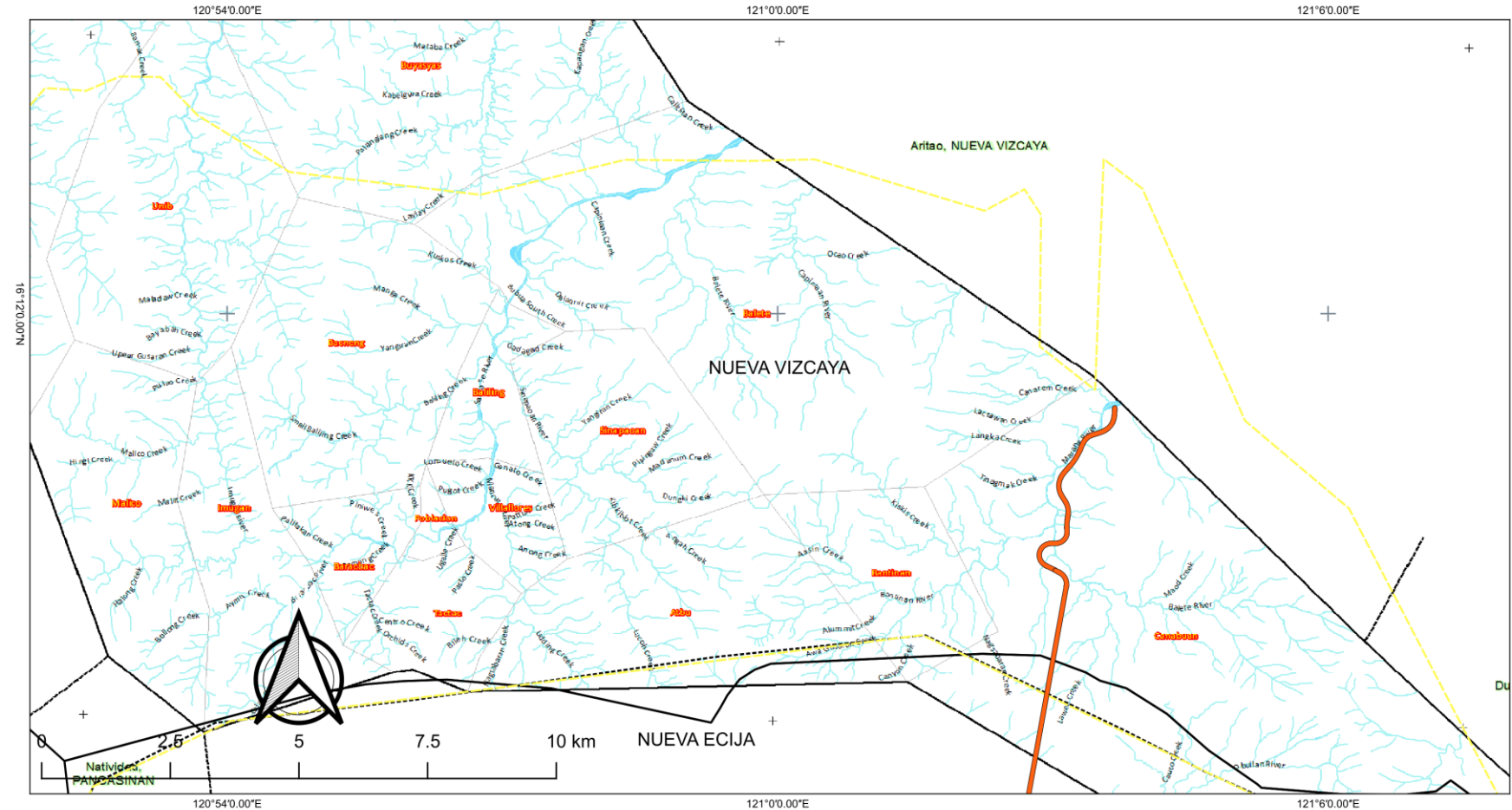
Department of Public Works and Highways

Dalton Pass East Alternative Road Project



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Drainage Map of Santa Fe



MAP SOURCE/S:

MUNICIPALITY OF SANTA FE
DRAINAGE MAP

MAP INFORMATION:
Map Scale: 1 : 85,000
Administrative Boundaries: UN OCHA
Base Map: Santa Fe Drainage Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

DPEAR Project Alignment	Administrative Boundaries	Ancestral Domain	Drainage System
	Province of Nueva Vizcaya	Kalanguya Ikalahan AD	Rivers
	Municipality of Santa Fe	Kalanguya AD	

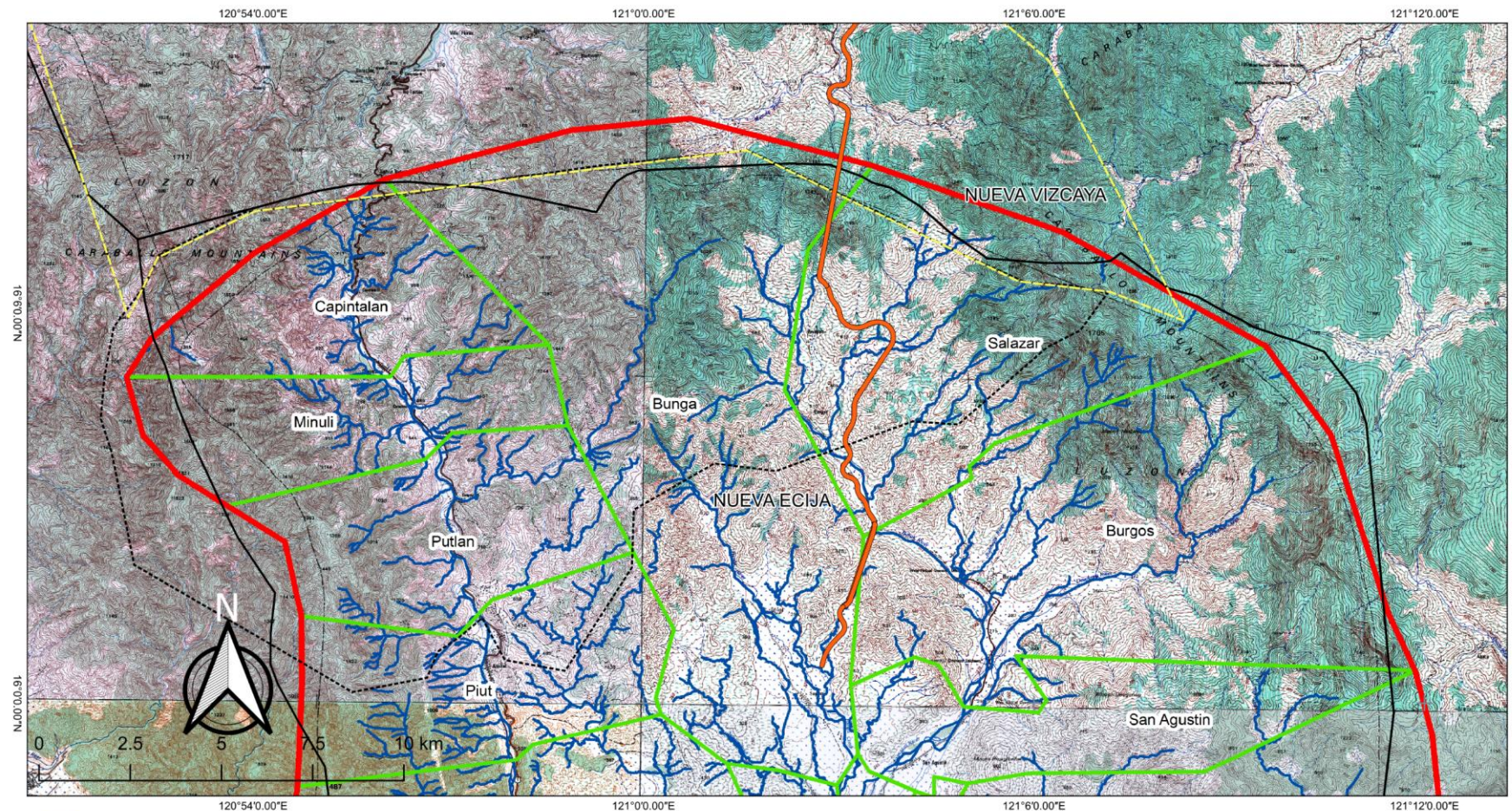


Department of Public Works and Highways Dalton Pass East Alternative Road Project



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NIPPON ENGINEERING CONSULTANTS CO., LTD. &
CENTRAL NIPPON EXPRESSWAY CO., LTD.

Drainage Map of Carranglan



MAP SOURCE/S:

MUNICIPALITY OF CARRANGLAN
DRAINAGE MAP

MAP INFORMATION:
Map Scale: 1 : 120,000
Administrative Boundaries: UN OCHA
Base Map: Carranglan Drainage Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- | | | |
|----------------------------|-----------------------|-----------------|
| DPEAR Project Alignment | Brgy. Boundary | Drainage System |
| Administrative Boundaries | Ancestral Domain | Rivers |
| Province of Nueva Ecija | Kalanguya Ikalahan AD | |
| Municipality of Carranglan | Kalanguya AD | |



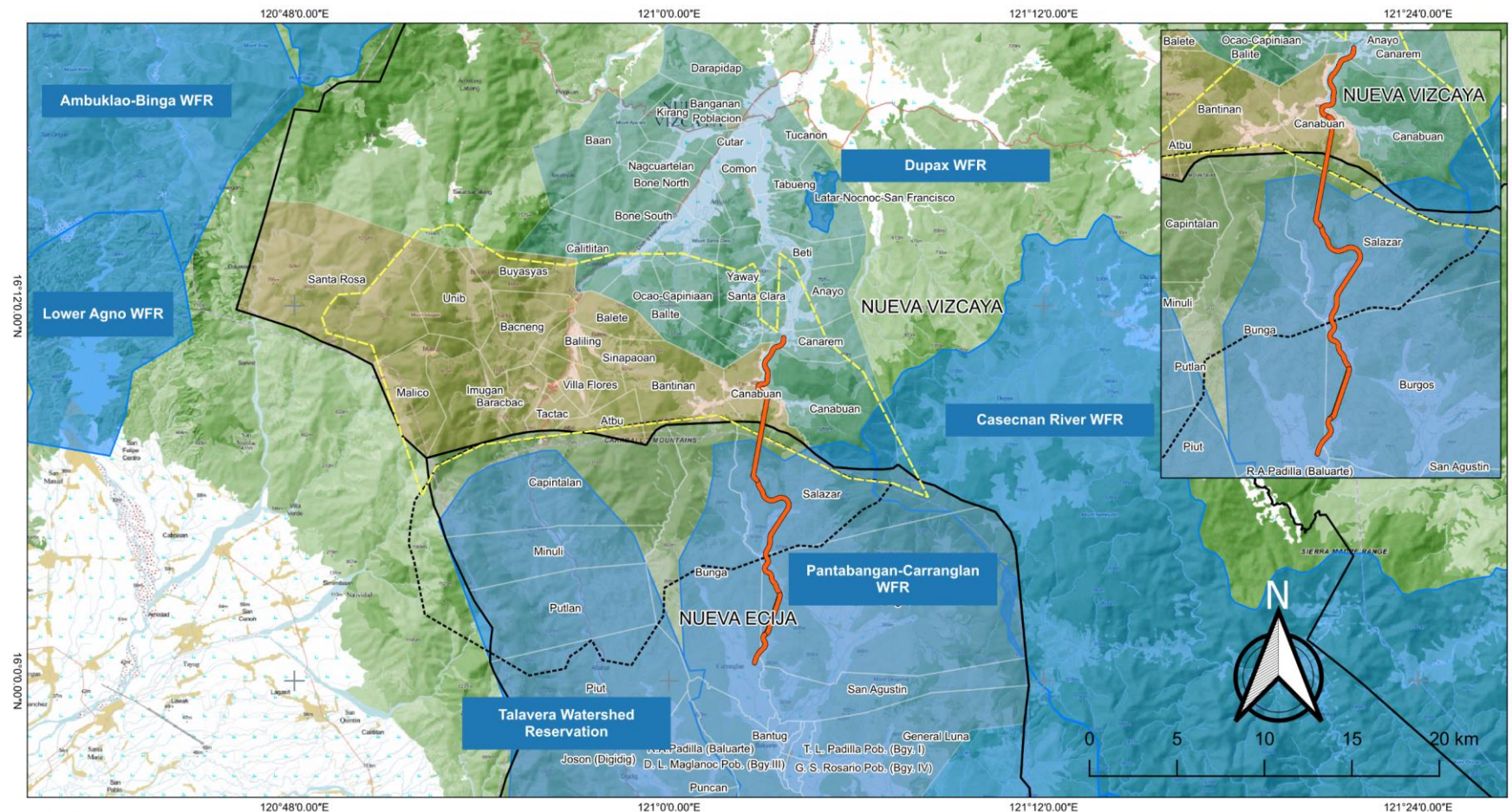
Department of Public Works and Highways

Dalton Pass East Alternative Road Project



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CENTRAL NIPPON EXPRESSWAY CO., LTD.

Proclaimed Watersheds



MAP SOURCE/S:
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Forest Management Bureau

MAP INFORMATION:
Map Scale : 1 : 250,000
Administrative Boundaries: UN OCHA
Base Map: Philippine Geoportal
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- DPEAR Project Alignment
- Municipality of Carranglan
- Administrative Boundaries**
 - Province of Nueva Vizcaya
 - Municipality of Aritao
 - Municipality of Santa Fe
 - Province of Nueva Ecija
- Ancestral Domain**
 - Kalanguya Ikalahan AD
 - Kalanguya AD
- Proclaimed Watershed**
 - Proclaimed Watershed



Water Requirement

ACTIVITIES	EST. WATER REQUIREMENT (CU. M./DAY)	REMARKS
A. Construction Phase		
Civil Works	47.65	3000 psi cement mix
Drilling Operations	288	0.2 m ³ /min
Domestic Use	140	70 Liters/person/day
TOTAL	475.65	
B. Operation Phase		
Domestic Use	1.75	70 Liters/person/day
TOTAL	1.75	

- Water supply during the construction and operation phase of the proposed project will be obtained from the local water supply in the area as well as available water sources (i.e., spring water, groundwater, rainwater, etc.). The project's peak water requirement during construction is **475.65 m³/day** for civil works, drilling operations, and domestic use.
- The water requirement will significantly drop to **1.75 m³/day** during the operations of the project. Water utilization is limited to domestic use. Should there be emergencies in the tunnel sections, firefighting equipment will be supplied with water through nearby springs and groundwater sources.

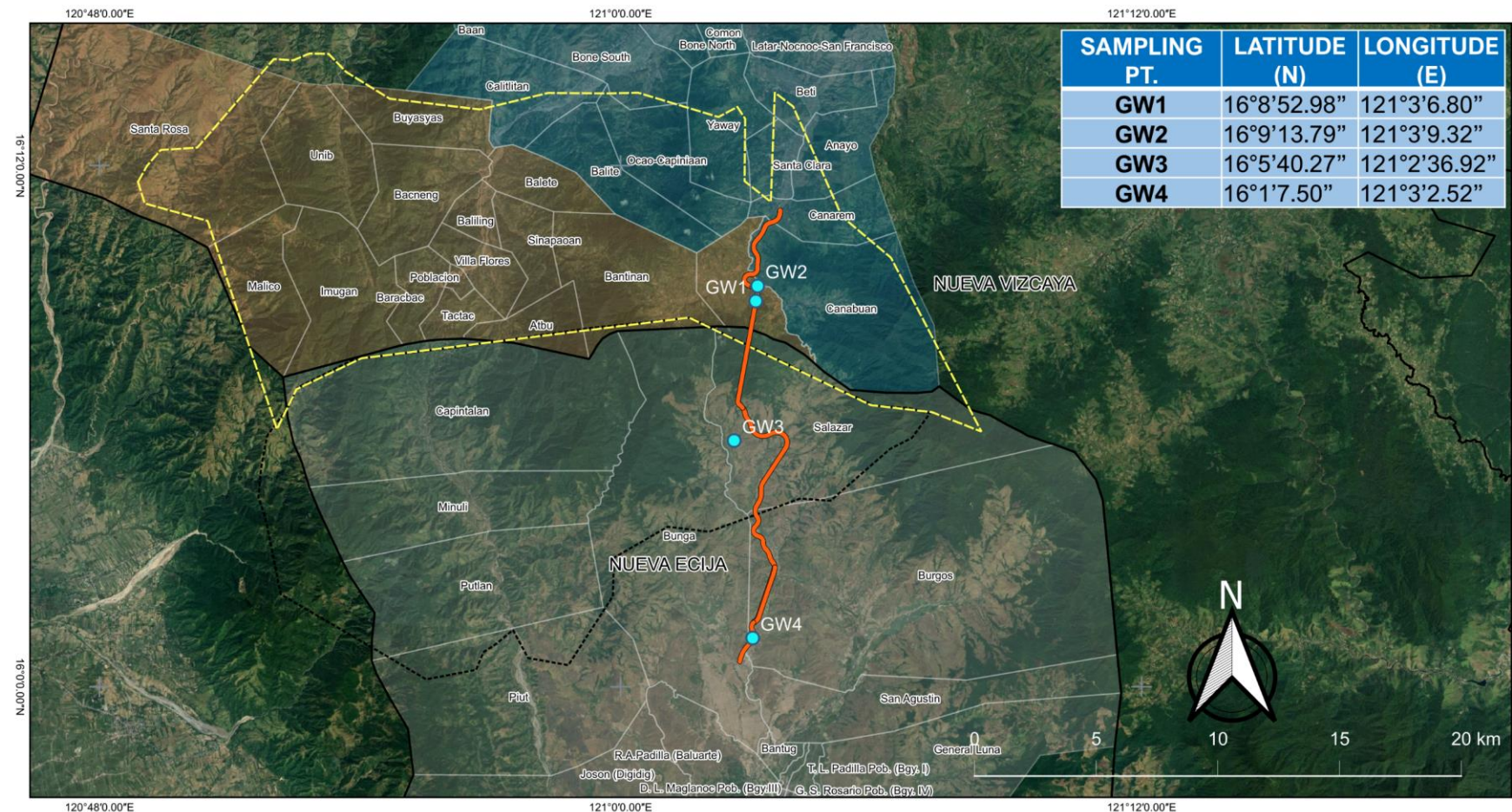


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CENTRAL NIPPON EXPRESSWAY CO., LTD.

Groundwater Quality



MAP SOURCE/S:
JICA STUDY TEAM

MAP INFORMATION:
Map Scale : 1 : 180,000
Administrative Boundaries: UN OCHA
Base Map: Google Earth Satellite
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- DPEAR Project Alignment
- Municipality of Carranglan
- Administrative Boundaries
 - Province of Nueva Vizcaya
 - Municipality of Antao
 - Municipality of Santa Fe
 - Province of Nueva Ecija
- Ancestral Domain
 - Kalanguya Ikalahan AD
 - Kalanguya AD
- Sampling Station
 - GW1 to GW4



Groundwater Quality

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)				GUIDELINE VALUE FOR CLASS A WATER BODY (DAO 2016-08)	GUIDELINE VALUE FOR DRINKING WATER QUALITY (DOH AO 2017-10)
		GW 1	GW 2	GW 3	GW 4		
pH	pH	7.96	7.24	8.1	7.48	6.5-8.5	6.5 – 8.5
Temperature	°C	22.2	25.0	28.4	27.9	26-30	*
Total Suspended Solids	mg/L	<2.38	<2.38	<2.38	<2.38	50	*
Color	CU	5	3	5	3	50	10
Nitrate	mg/L	<0.006	<0.006	<0.006	0.7	7	50
Phosphate	mg/L	<0.0064	0.02	<0.0064	<0.0064	0.5	*
Fecal Coliform	MPN/100 mL	>8.0	<1.1	<1.1	<1.1	<1.1	<1.1
Chloride	mg/L	<0.14	<0.14	<0.14	18	250	250

NOTES: GW = Groundwater | (*) = No guideline value at present | mg/L = Milligrams per liter | MPN/100mL = Most probable number per 100 milliliters | NTU = Nephelometric Turbidity unit

REFERENCES: DOH AO 2017-0010 (Philippine National Standards for Drinking Water of 2017)

DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)

- All parameters are within the standards, except **fecal coliform** in **GW 1** may be due to extrusion of contaminants in the pipeline.
- Continuous monitoring activities especially during tunneling activities must be implemented to check for contaminants in groundwater sources.

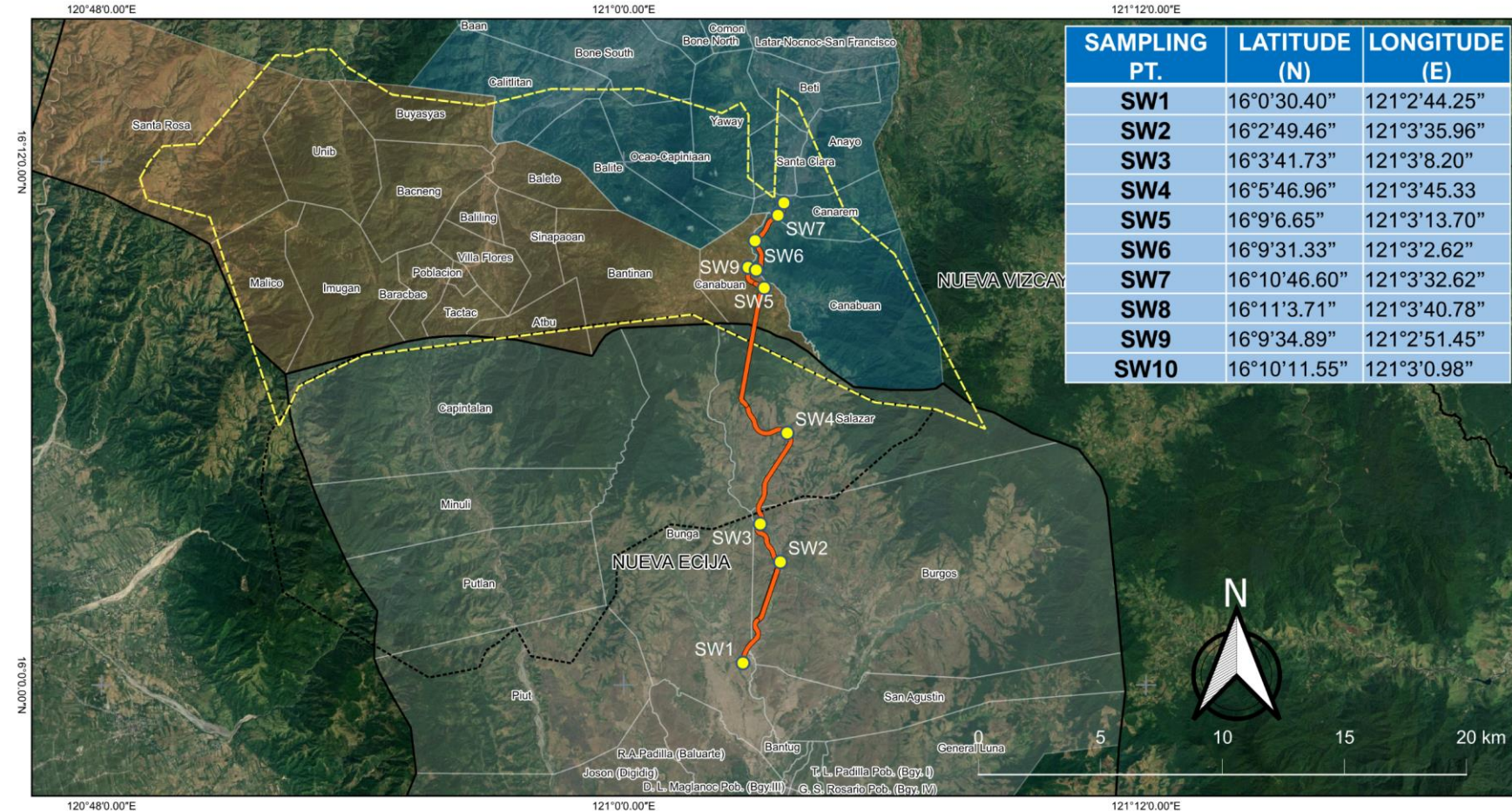


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Surface Water Quality



MAP SOURCE/S:
JICA STUDY TEAM

MAP INFORMATION:
Map Scale : 1 : 1 8 0 , 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Google Earth Satellite
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Envi Corporation

NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- DPEAR Project Alignment
- Municipality of Carranglan
- Administrative Boundaries
 - Province of Nueva Vizcaya
 - Municipality of Aritao
 - Municipality of Santa Fe
 - Province of Nueva Ecija
- Ancestral Domain
 - Kalanguya Ikalahan AD
 - Kalanguya AD
- Sampling Station
 - SW1 to SW10



Surface Water Quality (Wet Season)

- All parameters are within the standards, except for **fecal coliform** may be due to possible wastes upstream of river caused by **agricultural activities (i.e., farming)** and **oil and grease** on **SW9**. due to anthropogenic activities in the area.
- The proposed projects will not pose any impacts on the water quality of the nearby rivers except during the construction activities due to excavation and backfilling activities.
- Installation of silt protection and regular monitoring may be done to mitigate these effects.

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)										GUIDELINE VALUE FOR CLASS C WATER BODY (DAO 2016-08)
		SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	
Color	TCU	5	8	8	8	8	8	8	8	8	8	75
pH	pH	7.8	8.0	7.9	7.9	8.1	8.2	8.2	8.2	8.3	8.3	6.5 – 9.0
Temperature	°C	34.2	30.9	30.5	28.5	26.1	25.4	25.8	26.3	26.0	25.8	25-31
Dissolved Oxygen	mg/L	7	9	8	8	8	8	9	8	8	9	5 (minimum)
Total Suspended Solids	mg/L	<2.38	8	22	11	7.5	2.5	5.5	3.5	0.08	4	80
Biochemical Oxygen Demand	mg/L	2	1	<1	1	1	1	<1	<1	<1	1	7
Chloride	mg/L	5	1.5	1.5	2	1.5	1	1	1.5	1.5	1	350
Nitrate	mg/L	0.06	0.07	0.06	0.05	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	7
Oil and Grease	mg/L	0.98	1.2	1.6	1.5	1.1	1.1	1.1	1.1	6	1.2	2
Phosphate	mg/L	<0.0064	<0.0064	<0.0064	0.01	<0.0064	0.01	0.01	0.02	0.02	<0.0064	0.5
Surfactants	mg/L	0.09	0.07	0.08	0.09	0.07	0.08	0.1	0.08	0.08	0.06	1.5
Fecal Coliform	MPN/100mL	5,400	350	3,500	240	790	2,800	5,400	3,500	2,400	9,200	200
Total Coliform	MPN/100mL	9,200	1,600	5,400	1,600	1,700	9,200	5,400	1,600	9,200	2,400	*
Dissolved Copper	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.004	<0.003	0.02
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0.02
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Hexavalent Chromium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Cyanide	mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.1
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Organophosphate as Malathion	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3

NOTES: SW = Surface Water | (*) = No guideline value at present | mg/L = Milligrams per liter | TCU = True color unit | ND = Not Detected
[REFERENCE: DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)]



Surface Water Quality (Dry Season)

- All parameters are within the standards, except for **fecal coliform** may be due to possible wastes upstream of river caused by **agricultural activities (i.e., farming)**. due to anthropogenic activities in the area.
- The proposed projects will not pose any impacts on the water quality of the nearby rivers except during the construction activities due to excavation and backfilling activities.
- Installation of silt protection and regular monitoring may be done to mitigate these effects.

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)										GUIDELINE VALUE FOR CLASS C WATER BODY (DAO 2016-08)
		SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	
Color	TCU	5	10	10	8	8	8	8	8	8	8	75
pH	pH	8.4	8.4	7.9	7.9	8	7.7	8.9	8.9	8.4	8.5	6.5 – 9.0
Temperature	°C	28.9	28.7	28.2	24.7	22.1	22.4	23.5	24.1	22.9	23.1	25-31
Dissolved Oxygen	mg/L	9	8	9	8	9	8	9	8	9	9	5 (minimum)
Total Suspended Solids	mg/L	12	9	7	<2.38	3.5	3.5	11	12	8	7.5	80
Biochemical Oxygen Demand	mg/L	<1	<1	<1	<1	1	1	2	1	1	<1	7
Chloride	mg/L	4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	350
Nitrate	mg/L	0.1	0.06	0.02	0.03	0.2	0.2	0.1	0.2	0.1	0.3	7
Oil and Grease	mg/L	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.4	2
Phosphate	mg/L	0.01	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	0.5
Surfactants	mg/L	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5
Fecal Coliform	MPN/ 100mL	350	110	390	350	920	540	2,400	1,300	1,300	2,400	200
Total Coliform	MPN/ 100mL	1,600	350	2,200	540	920	1,600	2,400	2,400	2,400	2,400	*
Dissolved Copper	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.02
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Hexavalent Chromium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Cyanide	mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.1
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Organophosphate as Malathion	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3

NOTES: SW = Surface Water | (*) = No guideline value at present | mg/L = Milligrams per liter | TCU = True color unit | ND = Not Detected
[REFERENCE: DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)]



Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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FINDINGS AND IMPACTS ON AIR, NOISE,
AND VIBRATION

Dalton Pass East Alternative Road Project



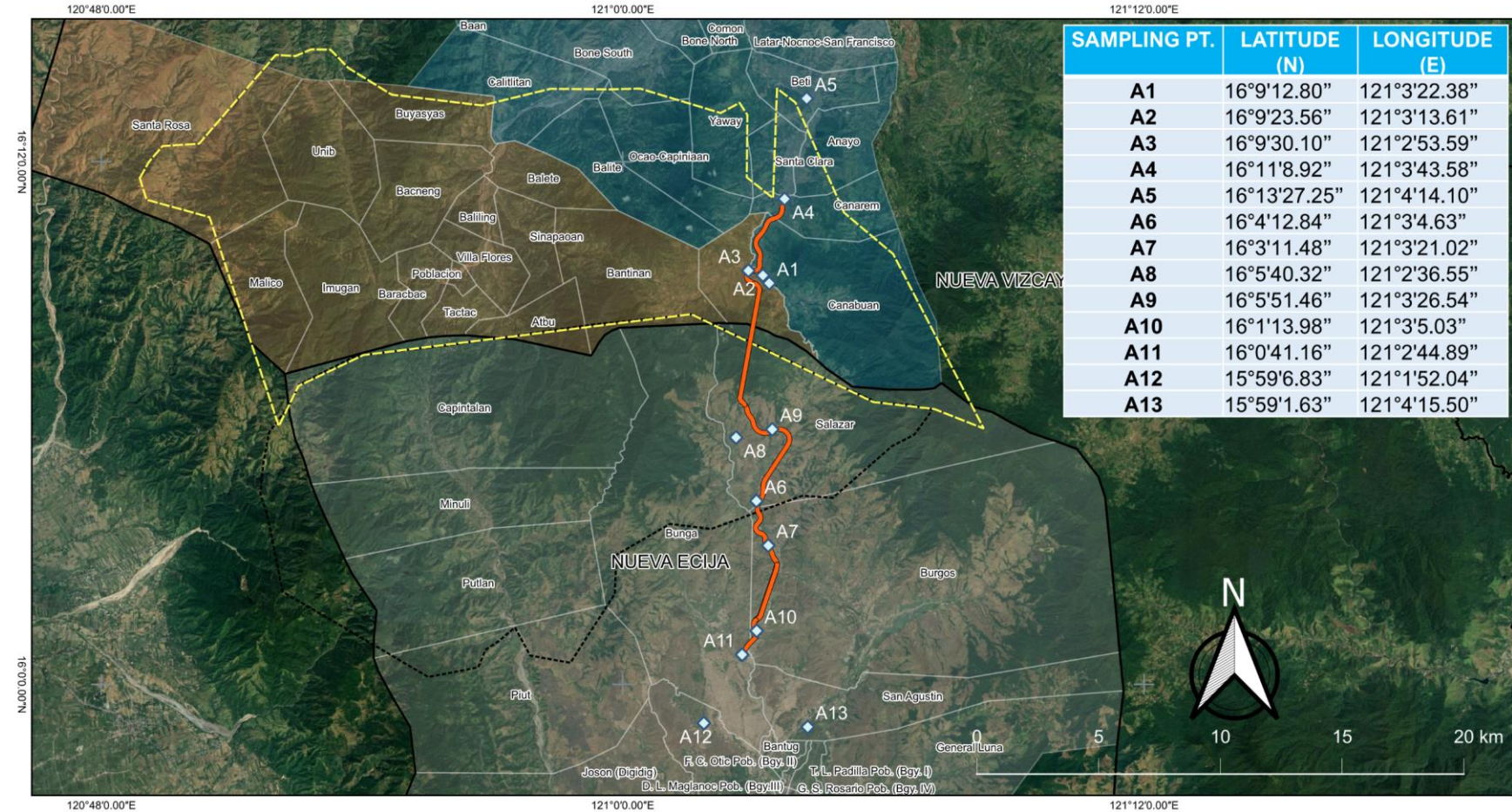


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CENTRAL NIPPON EXPRESSWAY CO., LTD.

Ambient Air, Noise, and Vibration



MAP SOURCE/S:
JICA STUDY TEAM

MAP INFORMATION:
Map Scale : 1 : 1 8 0 , 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Google Earth Satellite
Geographic Coordinate System: EPSG:4326
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NOTE: This map has been prepared for the Environmental Impact Assessment (EIA) of the proposed Dalton Pass East Alternative Road (DPEAR) Project of the Department of Public Works and Highways. The boundaries reflected herewith are not authoritative.

Map Legend

- DPEAR Project Alignment
- Municipality of Carranglan
- Administrative Boundaries
 - Province of Nueva Vizcaya
 - Municipality of Aritao
 - Municipality of Santa Fe
 - Province of Nueva Ecija
- Ancestral Domain
 - Kalanguya Ikalahan AD
 - Kalanguya AD
- Sampling Station
 - A1 to A13



Ambient Air Quality (Wet Season)

- The results showed **acceptable ambient air condition** with **all values below** the specified NAAQS limits.
- Implementation of construction mitigating measures and regular monitoring will still be conducted check if there are exceedances from the standards.

STATION	LOCATION	OBSERVED 24-HOUR AMBIENT AIR CONCENTRATIONS, $\mu\text{g}/\text{Ncm}$						
		TSP	PM ₁₀	NO ₂	SO ₂	Lead	O ₃	CO
A1	Brgy. Canabuan, Sta. Fe (NV), near church	29.1	9.9	1.9	7.9	ND	13.10	1.07
A2	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	28.0	14.9	1.9	6.0	ND	3.80	1.21
A3	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	21.0	19.3	1.3	4.1	ND	4.9	1.34
A4	Brgy. Canarem, Aritao (NV), near residential area	18.4	11.6	1.0	16.7	ND	4.9	1.34
A5	Brgy. Beti Aritao (NV), near residential area	29.1	14.1	2.2	9.9	ND	9.2	1.22
A6	Brgy. Salazar, Carranglan (NE), Sitio Popo	42.2	16.3	1.8	8.8	ND	11.2	1.56
A7	Brgy. Burgos, Carranglan (NE), Sitio Barat	66.4	65.8	1.2	15.1	ND	9.5	1.64
A8	Brgy. Salazar, Carranglan (NE), Zone II	52.1	41.6	3.5	10.4	ND	5.2	2.83
A9	Brgy. Salazar, Carranglan (NE), Sitio Labug	22.8	13.1	1.8	14.6	ND	5.5	1.25
A10	Brgy. Bunga, Carranglan (NE), Sitio Laat 1	13.7	13.2	1.8	14.6	ND	10.0	1.12
A11	Brgy. Bunga, Carranglan (NE), Sitio Laat 2	12.6	21.9	2.0	ND	ND	11.5	1.06
A12	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	21.2	24.7	1.5	7.6	ND	12.4	1.08
A13	Brgy. San Agustin, Carranglan (NE), near day care center	30.0	23.5	4.7	61.6	ND	6.3	1.87
NAAQS (24-hour sampling)		230	150	150	180	20*	60	9

NOTES:

ND = Not detected / below detection limit (NO₂ = 0.26 μg ; SO₂ = 0.75 μg);

(*) = Evaluation of this standard is carried out for 30-minute averaging time.

REFERENCE: DAO 2000-81 (IRR of Republic Act 8749)

Red Marks: Exceeds Standards



Ambient Air Quality (Dry Season)

- The results showed **acceptable ambient air condition** with **all values below** the specified NAAQS limits.
- Implementation of construction mitigating measures and regular monitoring will still be conducted check if there are exceedances from the standards.

STATION	LOCATION	OBSERVED 24-HOUR AMBIENT AIR CONCENTRATIONS, $\mu\text{g}/\text{Ncm}^3$						
		TSP	PM ₁₀	NO ₂	SO ₂	Lead	O ₃	CO
A1	Brgy. Canabuan, Sta. Fe (NV), near church	25.5	27.7	1	ND	NA	ND	2.34
A2	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	15.1	14.7	1.7	ND	NA	ND	5.67
A3	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	11.5	6.2	1	ND	NA	ND	2.67
A4	Brgy. Canarem, Aritao (NV), near residential area	23.3	17.3	0.8	ND	NA	ND	2.73
A5	Brgy. Beti Aritao (NV), near residential area	35.2	31.5	2.2	ND	NA	ND	2.32
A6	Brgy. Salazar, Carranglan (NE), Sitio Popo	36.2	26.6	1.6	8.7	NA	24.7	2.95
A7	Brgy. Burgos, Carranglan (NE), Sitio Barat	10.3	6	1.5	8.6	NA	17.4	3.85
A8	Brgy. Salazar, Carranglan (NE), Zone II	14.5	6	1.6	ND	NA	77	2.11
A9	Brgy. Salazar, Carranglan (NE), Sitio Labug	11.9	14.7	0.8	ND	NA	ND	3.29
A10	Brgy. Bunga, Carranglan (NE), Sitio Laat 1	10.4	6.1	2.2	ND	NA	ND	3.26
A11	Brgy. Bunga, Carranglan (NE), Sitio Laat 2	28.1	16.1	2.2	2.5	NA	ND	2.54
A12	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	24	11.2	1.8	ND	NA	ND	3.59
A13	Brgy. San Agustin, Carranglan (NE), near day care center	30.4	15	2.5	ND	NA	ND	2.72
NAAQS (24-hour sampling)		230	150	150	180	20*	60	9

NOTES:

ND = Not detected / below detection limit (NO₂ = 0.26 μg ; SO₂ = 0.75 μg);

NA = Not analyzed

(*) = Evaluation of this standard is carried out for 30-minute averaging time.

REFERENCE: DAO 2000-81 (IRR of Republic Act 8749)

Red Marks: Exceeds Standards



Noise Level Monitoring (Wet Season)

- During the wet season sampling, more sampling stations were compliant to the maximum allowable noise level.
- Most sampling stations recorded noise level which exceeded the standards during the morning and nighttime monitoring.**
- This can be attributed to the **passing vehicles, animals, human activities, and the weather condition** during the sampling activity.
- It was recorded that there were days/nights where rainfall occurred.

STATION	LOCATION	OBSERVED 24-HOUR NOISE LEVEL dB(A)			
		Morning (0500-0900H)	Daytime (0900-1800H)	Evening (1800-2200H)	Nighttime (2200-0500H)
A1*	Brgy. Canabuan, Sta. Fe (NV), near church	46	49	48	44
A2*	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	49	48	45	45
A3**	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	53	51	49	48
A4**	Brgy. Canarem, Aritao (NV), near residential area	52	52	50	50
A5**	Brgy. Beti Aritao (NV), near residential area	52	53	52	53
A6**	Brgy. Salazar, Carranglan (NE), Sitio Popo	47	48	42	37
A7**	Brgy. Burgos, Carranglan (NE), Sitio Barat	52	54	49	48
A8**	Brgy. Salazar, Carranglan (NE), Zone II	59	56	58	59
A9**	Brgy. Salazar, Carranglan (NE), Sitio Labug	62	63	68	60
A10**	Brgy. Bunga, Carranglan (NE), Sitio Laat 1	50	49	46	47
A11**	Brgy. Bunga, Carranglan (NE), Sitio Laat 2	54	58	48	54
A12**	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	43	45	47	40
A13*	Brgy. San Agustin, Carranglan (NE), near day care center	51	55	53	39
MAXIMUM ALLOWABLE NOISE LEVEL, dB(A)	*Class AA	45	50	45	40
	**Class A	50	55	50	45

Notes:

(*) Class AA = Area which required quietness (areas within 100 m from nursery schools and institutions)

(**) Class A = Residential area

REFERENCE: NPCC Memorandum Circular No. 1980-002

Red Marks: Exceeds Standards



Noise Level Monitoring (Dry Season)

- During the dry season, the level of noise at almost all monitoring stations were **above the maximum allowable level**. Some noise sources that were recorded in the sampling stations were passing **vehicles, animals, and human activities** within the vicinity.
- In addition, the alignment passes under residential, churches and institutions, and along major roads, where noise level is higher in the evening as compared in the morning.

STATION	LOCATION	OBSERVED 24-HOUR NOISE LEVEL dB(A)			
		Morning (0500-0900H)	Daytime (0900-1800H)	Evening (1800-2200H)	Nighttime (2200-0500H)
A1*	Brqy. Canabuan, Sta. Fe (NV), near church	56	59	58	57
A2*	Brqy. Canabuan, Sta. Fe (NV), near barangay hall	52	53	55	53
A3**	Brqy. Canabuan, Sta. Fe (NV), Sitio Spanish	55	54	57	56
A4**	Brqy. Canarem, Aritao (NV), near residential area	60	63	64	62
A5**	Brqy. Beti Aritao (NV), near residential area	58	60	62	59
A6**	Brqy. Salazar, Carranglan (NE), Sitio Popo	52	53	53	52
A7**	Brqy. Burgos, Carranglan (NE), Sitio Barat	55	58	59	56
A8**	Brqy. Salazar, Carranglan (NE), Zone II	48	53	51	49
A9**	Brqy. Salazar, Carranglan (NE), Sitio Labug	53	54	55	54
A10**	Brqy. Bunga, Carranglan (NE), Sitio Laat 1	55	56	56	55
A11**	Brqy. Bunga, Carranglan (NE), Sitio Laat 2	56	55	58	56
A12**	Brqy. R.A. Padilla, Carranglan (NE), Sitio Coral	59	56	61	60
A13*	Brqy. San Agustin, Carranglan (NE), near day care center	60	61	61	61
MAXIMUM ALLOWABLE NOISE LEVEL, dB(A)	*Class AA	45	50	45	40
	**Class A	50	55	50	45

Notes:

(*) Class AA = Area which required quietness (areas within 100 m from nursery schools and institutions)

(**) Class A = Residential area

REFERENCE: NPCC Memorandum Circular No. 1980-002

Red Marks: Exceeds Standards



Vibration Levels

- Three stations (A1, A2 and A13) were considered under the Offices Category of the BS 6472-1992 which includes institutions, schools, and churches. While the other 10 stations were considered under the Residences Category.
- It can be observed that in most stations, vibration is higher during daytime as compared to the nighttime. But **none of the stations exceeded the preferred vibration level** stated in BS 6472-1992 for residences and offices.

STATION	LOCATION	Daytime	Nighttime
A1**	Brgy. Canabuan, Sta. Fe (NV), near church	72	68
A2**	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	73	68
A3*	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	69	71
A4*	Brgy. Canarem, Aritao (NV), near residential area	70	69
A5*	Brgy. Beti Aritao (NV), near residential area	68	68
A6*	Brgy. Salazar, Carranglan (NE), Sitio Popo	69	69
A7*	Brgy. Burgos, Carranglan (NE), Sitio Barat	68	68
A8*	Brgy. Salazar, Carranglan (NE), Zone II	68	68
A9*	Brgy. Salazar, Carranglan (NE), Sitio Labug	70	69
A10*	Brgy. Bunga, Carranglan (NE), Sitio Laat 1	71	67
A11*	Brgy. Bunga, Carranglan (NE), Sitio Laat 2	67	66
A12*	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	72	67
A13**	Brgy. San Agustin, Carranglan (NE), near day care center	72	67
BS 6472-1992 Preferred Vibration Level (dB)	Residences*	80	77
	Offices**	86	86

NOTE:
(*) Residential area
(**) Offices
REFERENCE: BS 6472-1992
Red Marks: Exceeds Standards



Dusts, Noise, and Ground Vibration during Construction

- Construction activities may increase dust emissions.
 - Regular watering of construction sites
 - Provision of truck covers
- Noise will be generated due construction to construction activities
 - Ensure proper maintenance of engines and other mechanical parts of the heavy equipment
 - Installation of exhaust mufflers
 - Installation of enclosures surrounding the project site
 - Noisy activities will be performed during daytime
- Ground vibration may be experienced due to excavation (tunneling) and construction works



Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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FINDINGS AND IMPACTS ON PEOPLE

Dalton Pass East Alternative Road Project





Scale and Scope of Involuntary Resettlement

- The project is expected to displace settlers along its road right-of-way (RRoW). Primarily, the affected settlers are residing within the Kalanguya Ikalahan and Kalanguya Ancestral Domains (ADs).
- DPWH, in cooperation with the National Commission on Indigenous Peoples (NCIP), has already underwent Free and Prior Informed Consent (FPIC).
- In 2020, DPWH managed to secure the Certification Precondition (CP) from both Indigenous Cultural Communities (ICCs).
- **Right-of-Way Acquisition and Resettlement Policy.** A Right-of-Way Acquisition Plan (RAP) is currently being prepared for the involuntary resettlement and acquisition of lots, affected-structures, improvements, utilities, trees, and perennials within the RRoW of the proposed project.
- The RAP will be finalized during the Detailed Engineering Design (DED) stage of the project.



Displacement of Settlers

Preliminary Right-of-Way Acquisition Plan (RAP)

- **Project Affected Persons.** From the initial survey of the JICA Study Team, there were **170** project-affected persons (PAPs) identified who are living/occupying and/or doing economic activities inside the proposed ROW.
- **Land.** The potential total land area to be cleared to secure the project's ROW is approximately **129.4 Has.** or **1,294,280 m²**.
- A total of **107 PAPs** owned or have stewardship over these lands.
- **Structures and Improvement.** A total of **102 structures** and improvements were inventoried in the six barangays. There are **55 residential structures**, **2 institutional structures (church)**, **1 warehouse**, and **44 other structural improvements** (i.e., solar dryers, windmill, farmhouses, dirty kitchens, animal pens, small stores, grave houses, deepwell, and shed).



Displacement of Settlers

Preliminary Right-of-Way Acquisition Plan (RAP)

- **Public Structures and Utilities.** There are **23 public structures** located within the project ROW in Brgys. Bunga and Burgos. These include a **basketball court** and a **waiting shed** both owned by BLGU of Bunga. Further, there are **21 electric posts** to be affected in Brgys. Bunga and Burgos, which are owned by **Nueva Ecija Electric Cooperative (NEECO)**.
- **Trees and Perennials.** The estimated total area with planted timber species accounts for 51,937 m² or **870 timber trees**. In addition, there were **18 fruit-bearing trees and perennials** identified throughout the RRoW.
- **Croplands Affected by the Project.** The estimated agricultural areas affected by the project is **307,928.71 m²**. Most of the agricultural areas are planted with rice. From the KIIs of the RAP Study Team, there are no irrigation facilities in the area and the rice fields are rain-fed.



Benefits of the Project

- **Alignment to Higher Level Plans.** The Philippine Development Plan 2017-2022 prepared by the National Economic and Development Authority (NEDA) is the highest-level National Development Plan in the Philippines. Accelerating infrastructure development is regarded as one of the key-issues in the said plan. To develop foundations for sustainable development, the following transport strategies are presented to implement strategic infrastructure programs and projects:
 - Enhance efficiency of the transport sector through providing adequate, accessible, reliable, and safe access for people and goods.; and
 - Improve road-based transport to address traffic congestion through “engineering, enforcement, and education”, and upgrade the road network to the highest quality standards.



Benefits of the Project

- **Regional Development Plan.** Cagayan Valley's Regional Development Plan (RDP) 2017 -2022 also aligns with the thrust of the country which endeavors to pursue development through Accelerating Infrastructure Development in the region.
 - Anticipating the need for alternative land transport, Region II endorsed 4 major road projects for the improvement of inter- and intra-regional connectivity. (1) Cagayan Valley East Alternative Road Project; (2) Proposed Cagayan Valley Eastern Seaboard Highway; (3) Northeastern Luzon Expressway; and (4) Cagayan Valley Railway System will provide an alternative route to the Dalton Pass to ensure uninterrupted traffic flow between Cagayan Valley and the rest of Luzon.
- Central Luzon's RDP 2017-2022 promotes internal access and inter-regional connectivity. The provision of a fast, safe, and efficient transportation system in the region is expected to encourage and accelerate the development of the region.



Department of Public Works and Highways

Dalton Pass East Alternative Road Project

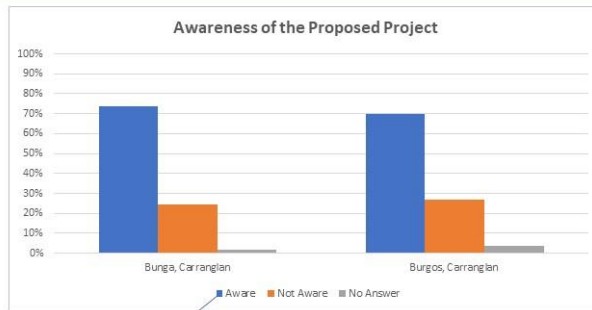


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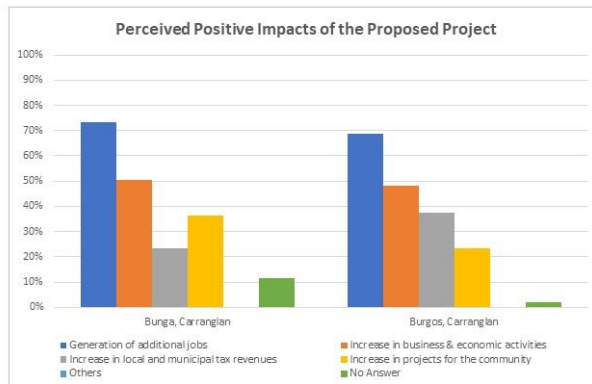
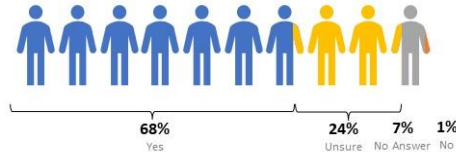
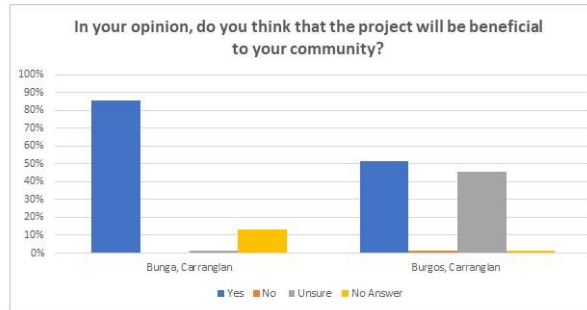
Results of the Socio-Economic and Perception Survey

Results of the Perception Survey (DIA)



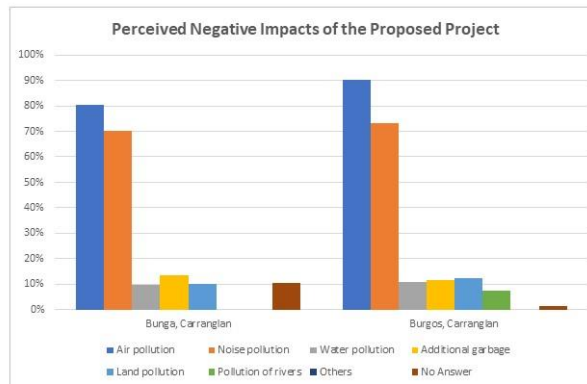
82%

The Barangay/
Municipal Officials
are the sources of
the information.



7 out of 10

respondents believed that the proposed project will generate more jobs in their communities



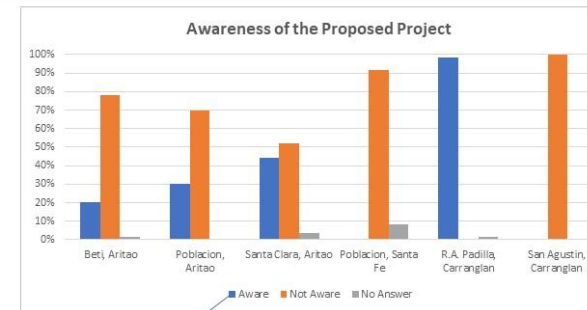
9 out of 10

respondents believed that the proposed project will bring air pollution in their communities



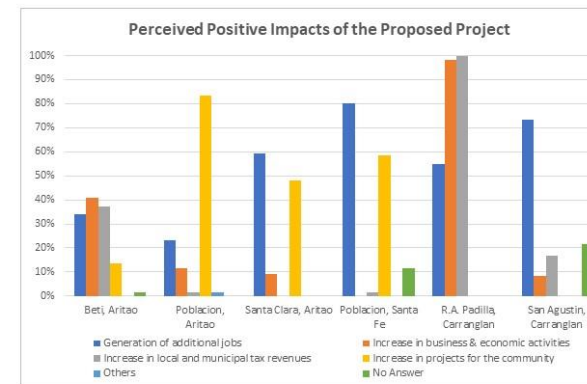
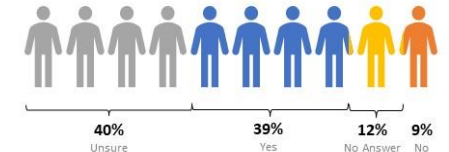
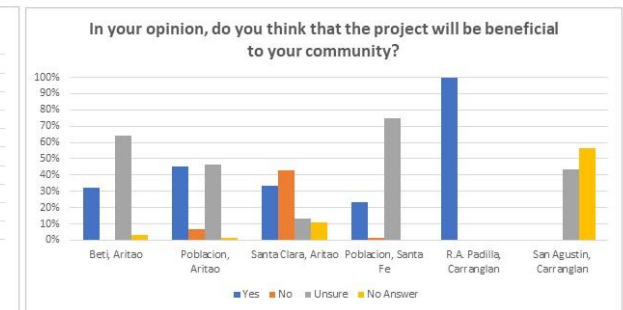
Results of the Socio-Economic and Perception Survey

Results of the Perception Survey (IIA)



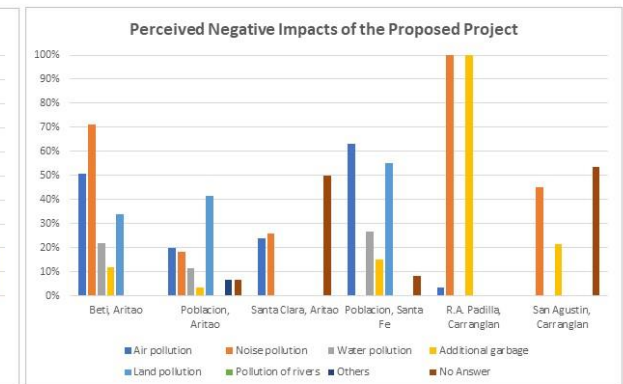
39%

The Barangay/
Municipal Officials
are the sources of
the information.



6 out of 10

respondents believed that the proposed project will generate more jobs in their communities



5 out of 10

respondents believed that the proposed project will bring noise pollution in their communities



Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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OPEN FORUM

Dalton Pass East Alternative Road Project





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NEXT STEPS

Dalton Pass East Alternative Road Project





Next Steps

- **Updating** of the project's **Gender and Development (GAD)** based on the additional inputs from sectoral representatives.
- The proposed project will have the official **Public Hearing** in accordance with the Department of Environment and Natural Resources (DENR) Philippine Environmental Impact Statement System (PEISS) as part of the project's **Environmental Compliance Certificate (ECC) acquisition**.



Department of Public Works and Highways
Dalton Pass East Alternative Road Project



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CLOSING REMARKS

Dalton Pass East Alternative Road Project





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Dalton Pass East Alternative Road Project



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THANK YOU VERY MUCH!

Dalton Pass East Alternative Road Project





In cooperation with:



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Documentation Report

PUBLIC HEARING REPORT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

Submitted to:



**Environmental Management Bureau
Central Office**



May 2023



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SECTION 1

PROJECT OVERVIEW

- ¹ The Department of Public Works and Highways (DPWH), through the assistance of Japan International Cooperation Agency (JICA), will be developing the Dalton Pass East Alignment Road (DPEAR) Project in the Provinces of Nueva Vizcaya & Nueva Ecija.
- ² The basic objective of this project is to construct a bypass road that includes but not limited to roads, bridges, tunnels and slope protection works, that will serve as an alternate route bypassing the existing Dalton Pass Section along Pan-Philippine Highway (PPH) in the event of road closure brought about by calamities/natural disasters such as typhoons and earthquakes, thereby directly connecting the Cagayan Valley Region (Region II) and eastern part of Central Luzon Region (Region III) to the National Capital Region (NCR).
- ³ The realization of this project will ensure the fast, continuous, and safer connectivity and transport of people, goods, and services from Regions II and III to the mainstreams and lifeline economic activities of the country as well as support agricultural, commercial, industrial, tourism, and other socio-economic activities within the project road's influence area thereby helps in uplifting the Philippine's economic growth.
- ⁴ As enshrined in the Executive Order No. 292 Series of 1987, Book IV, Title V, Chapter I, DPWH is the Philippine Government's engineering and construction arm tasked to continuously develop its technology, for the purposes of ensuring the safety of all infrastructure facilities and securing for all public works and highways the highest efficiency and the most appropriate quality in construction.
- ⁵ The planning, design, construction and maintenance of infrastructure facilities, especially national highways, flood control and water resources development of systems, and other public works in accordance with national development objectives, shall be the responsibility of DPWH.
- ⁶ The state has accorded DPWH powers and functions to carry out its mandate, relative to the proposed project:
 1. Provide technical services for the planning, design, construction, maintenance, or operation of infrastructure facilities;
 2. Develop and implement effective codes, standards, and reasonable guidelines to ensure the safety of all public and private structures in the country and assure efficiency and proper quality in the construction of public works;
 3. Ascertain that all public works plans, and project implementation designs are consistent with current standards and guidelines;
 4. Identify, plan, secure funding for, program, design, construct or undertake prequalification, bidding, and award of contracts of public works projects with the exception only of specialized projects undertaken by Government corporate entities with established technical capability and as directed by the President of the Philippines or as provided by law;



5. Provide the works supervision function for all public works constructions and ensure that actual construction is done in accordance with approved government plans and specifications;
 6. Maintain or cause to be maintained all highways, flood control, and other public works throughout the country except those that are the responsibility of other agencies as directed by the President of the Philippines or as provided by law; and
 7. Perform such other functions as may be provided by law.
- 7 DPWH has managed to secure Certification Preconditions (CPs) from the 2 Ancestral Domains (AD)s that the proposed project will traverse, as well as the Protected Areas Management Board (PAMB) Certification to conduct its feasibility study within Pantabangan-Carranglan Watershed Forest Reserve.



8 **Table 1** shows the Project, Proponent, and EIA Preparer details.

Table 1: Basic Information on the Proposed Project, Proponent, and EIA Preparer

Project Name	Dalton Pass East Alignment Road Project		
Project Location	Province	Municipality	Barangay
	Nueva Vizcaya (Region II)	Santa Fe	Canabuan
		Aritao	Canabuan Canarem
	Nueva Ecija (Region III)	Carranglan	Bunga Burgos Salazar
	Component	Municipality	Barangay
	Road (Highway)	All Municipalities	All Barangays
	North Tunnel	Santa Fe Carranglan	Canabuan Salazar
	South Tunnel	Carranglan	Burgos
Bridge	Aritao Santa Fe Carranglan	Canabuan Canabuan Salazar Burgos	
Project Type (According to DENR MC 2014-15)	3.4.1 Roads New Construction & 3.4.7 Tunnel and Sub-grade Roads and Railways		
Project Size/Capacity	Road (Highway)	Total Length: ~23 km Lane: 4 lanes Design Speed: 60 km/hr. Width: 60 m ROW	
	Tunnel	Total Length: ~6.1 km Length of the North Tunnel: 4.5 km Length of the South Tunnel: 1.6 km Construction of lighting, ventilation, and emergency facilities	
	Bridge	Total Number: 14 Passage for rivers and creeks Slope protection is included	
Project Proponent	Department of Public Works and Highways Roads Management Cluster I (Bilateral) Unified Project Management Office Office Address: PJHL Building, NCR Compound-DPWH, 2nd Street, Port Area, Manila Tel. No.: (02) 8304-3901 Authorized Representative: Benjamin A. Bautista Project Director		
EIA Preparer	LCI Envi Corporation Office Address: Unit 8L-M, Future Point Plaza 3, 111 Panay Avenue, South Triangle, Quezon City Tel. No.: (02) 8652-5890 / Fax No.: (02) 8961-9226 Authorized Representative: Engr. Jose Marie U. Lim EIA Team Leader		



SECTION 2

ACTIVITY RATIONALE

2.1 RATIONALE AND OBJECTIVES

- ⁹ As stipulated in the Department of Environment and Natural Resources (DENR) Administrative Order No. 2017-15 (Guidelines on Public Participation under the Philippine Environmental Impact Statement System) or DAO 2017-15, at the onset of the Environmental Impact Assessment (EIA) process, early involvement of stakeholders must be initiated through the conduct of information and education campaign (IEC) and focused group discussions (FGDs). Once social preparation activities are completed, scoping can then be performed to establish the scope of work and terms of reference for the EIA.
- ¹⁰ With the emergence of the Corona Virus Disease 2019 (COVID-19) in the Philippines, the DENR Environmental Management Bureau (DENR-EMB) released last 29 July 2020 the Memorandum Circular No. 2020-30 (Interim Guidelines on Public Participation of the Philippine Environmental Impact Statement System (PD 1586) during the State of National Public Health Emergency.
- ¹¹ The objectives of the abovementioned Memorandum Circular were to provide alternative modes of public participation specifically for public scoping, public consultation, and public hearing in the Environmental Impact Assessment (EIA) process without exposing the public and stakeholders' health and safety during the COVID-19 pandemic.
- ¹² The public hearing invitation letters and the EIA Summary for the Public (ESP) were prepared and distributed which had minimal interaction and adhered to the guidelines and protocols set by the IATF, to the stakeholder groups indicated in Section 5 of DAO 2017-15 as well as EMB MC 2020-30.

 - a. LGUs in areas where all project facilities are proposed to be constructed/situated and where all operations are proposed to be undertaken**

 - i. Provincial Government of Nueva Vizcaya
 - ii. Municipal LGU of Aritao, Nueva Vizcaya
 - iii. Barangay LGU of Canabuan, Aritao
 - iv. Barangay LGU of Canarem, Aritao
 - v. Municipal LGU of Santa Fe, Nueva Vizcaya
 - vi. Barangay LGU of Canabuan, Santa Fe
 - vii. Provincial Government of Nueva Ecija
 - viii. Municipal LGU of Carranglan, Nueva Ecija
 - ix. Barangay LGU of Burgos, Carranglan
 - x. Barangay LGU of Bunga, Carranglan
 - xi. Barangay LGU of Salazar, Carranglan
 - b. Government agencies with related mandate on the type of project and its impacts**

 - i. DENR Region II
 - ii. DENR-EMB Region II
 - iii. DENR-PENRO Nueva Vizcaya
 - iv. DENR-CENRO Aritao



- v. NCIP Region II
- vi. DENR Region III
- vii. DENR-EMB Region III
- viii. DENR-PENRO Nueva Ecija
- ix. DENR-CENRO Munoz
- x. PCWFR-PAMB
- xi. NCIP Region III

c. Interest groups, preferably those with mission/s specifically related to the type and impacts of the proposed undertaking

- i. Women's Group
- ii. Indigenous Peoples of Ikalahan-Kalanguya
- iii. Indigenous Peoples of Ikalahan
- iv. Women's Group
- v. Senior Citizens' Group
- vi. Transport Group
- vii. Youth Group

d. Local institutions (schools, churches, hospital)

- i. Religious Institutions in Nueva Vizcaya and Nueva Ecija

- 13 The notice of public hearing was posted last 11 April 2023 on the DENR-EMB official website (https://eia.emb.gov.ph/?page_id=72).

Figure 1: Notice of Public Hearing

Republic of the Philippines
 DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
ENVIRONMENTAL MANAGEMENT BUREAU
 ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT DIVISION

Notice of Public Hearing/Consultation

Posted on Tuesday, 11 April 2023

Proposed Project: Dalton Pass East Alignment Road Project

Proponent Name: Department of Public Works and Highways (DPWH)

Project Location: Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya

Date	Time	Venue
3 May 2023, Wednesday	9:00 AM (Registration starts at 8:30 AM)	Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya
4 May 2023, Thursday	9:00 AM (Registration starts at 8:30 AM)	PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija

»» [Notice of Public Hearing, EIS Report, ESP in English, ESP in Filipino](#)

SOURCE: https://eia.emb.gov.ph/?page_id=72

FIGURE TITLE

Notice of Public Hearing

<p><small>PROJECT PROPONENT:</small></p> <div style="display: flex; align-items: center;"> <p>Department of Public Works and Highways</p> </div>	<p><small>PROJECT TITLE & LOCATION:</small></p> <p>DALTON PASS EAST ALIGNMENT ROAD PROJECT</p> <p>Provinces of Nueva Vizcaya & Nueva Ecija</p>	<p><small>REPORT PREPARER:</small></p> <div style="display: flex; align-items: center;"> <p>LCI ENVI CORPORATION</p> </div>
---	---	--

- 14 The study team conducted posting of the notices of public hearing to various conspicuous areas, including municipal halls, project site, and project-affected barangays last 17 April 2023. Some of the photos where the notices were posted were presented in **Figure 2**.



Figure 2: Posting of Notice of Public Hearing



Posting of the Notice at the Municipal Halls of Aritao and Sta. Fe, Nueva Vizcaya



Posting of the Notice at the Municipal Hall of Carranglan and Brgy. Canabuan, Aritao



Posting of the Notice at Brgy. Canabuan, Sta. Fe and Brgy. Salazar, Carranglan

SOURCE: Photos taken by LCI Study Team last 17 April 2023

FIGURE TITLE

Posting of Notice of Public Hearing

PROJECT PROPONENT:
 **Department of Public Works and Highways**

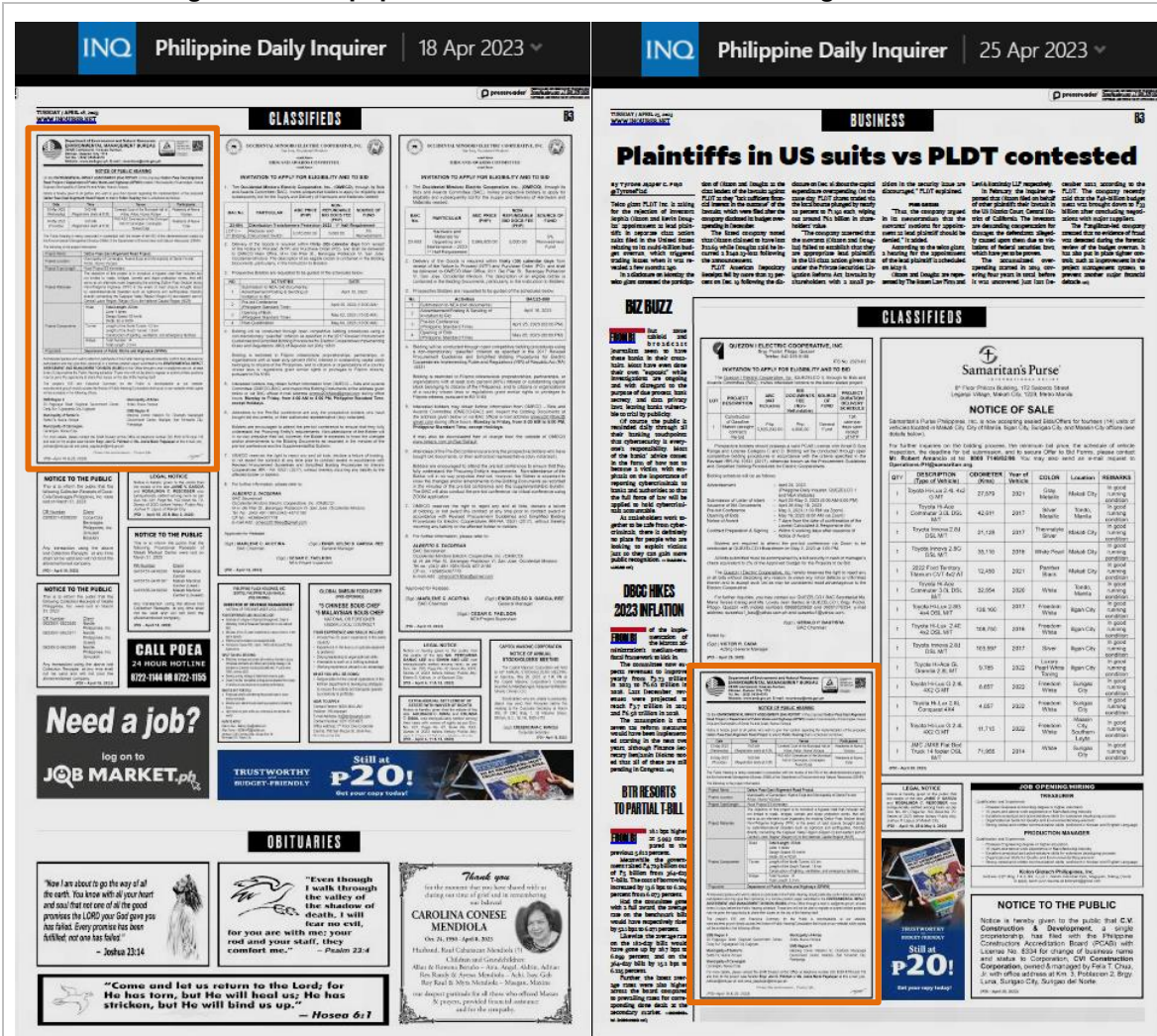
PROJECT TITLE & LOCATION:
DALTON PASS EAST ALIGNMENT ROAD PROJECT
Provinces of Nueva Vizcaya & Nueva Ecija

REPORT PREPARER:
 **LCI ENVI CORPORATION**



- 15 Further to the official posting on the website, the Notice of Public Hearing was also published with Philippine Daily Inquirer last 18 and 25 of April 2023 in the classifieds section of the national circulation newspaper (**Figure 3**). The notarized copy of the Affidavit of Publication from Philippine Daily Inquirer was included as **ATTACHMENT 1** of this report.
- 16 The receiving copies of the public hearing invitation letters for the stakeholders were included as **ATTACHMENT 2** of this report.

Figure 3: Newspaper Publication of the Public Hearing Announcement



SOURCE: Philippine Daily Inquirer (18 & 25 April 2023)

FIGURE TITLE

Newspaper Publication of Public Hearing Announcement

PROJECT PROPONENT:



Department of Public
Works and Highways

PROJECT TITLE & LOCATION:

**DALTON PASS EAST ALIGNMENT
ROAD PROJECT**
Provinces of Nueva Vizcaya & Nueva Ecija

REPORT PREPARER:



LCI ENVI CORPORATION



- 17 The public hearing program for the Province of Nueva Vizcaya was presented in **Table 2**. While the public hearing program for Province of Nueva Ecija was presented in **Table 3**.

Table 2: Public Hearing Program for Nueva Vizcaya

TIME	ACTIVITY	RESPONSIBLE PERSON
8:30–9:00am	Registration	LCI
9:00–9:15am	Invocation and Singing of the Philippine National Anthem	LCI
	Welcome Remarks	Mr. Karlo Marco Ordonez Executive Assistant, Aritao LGU
	Message	Mr. Aquino Caramat Municipal Administrator, Santa Fe. LGU
	Introduction of Participants	Engr. Joel Polintan
9:15–10:00am	Overview of the Public Hearing	Case Handler, EMB Central Office
	Brief Overview of the Proposed Project	Mr. Jerome Leaño EIA Study Team Member
	Presentation of Environmental Impact Assessment (EIA) Results, Impacts, and Mitigating Measures	Engr. Jose Marie Lim EIA Study Team Leader
10:00–11:30am	Guidelines for the Public Hearing	Atty. Erika Romero
	Open Forum - Public Hearing	Public Hearing Officer, EMB Central Office
11:30–12:00nn	Summary of Issues and Concerns	Engr. Joel Polintan Case Handler, EMB Central Office
	Closing	Engr. Bill Ponce Project Manager, DPWH

Table 3: Public Hearing Program for Nueva Ecija

TIME	ACTIVITY	RESPONSIBLE PERSON
8:30–9:00am	Registration	LCI
9:00–9:15am	Invocation and Singing of the Philippine National Anthem	LCI
	Welcome Remarks	Hon. Rogelio Abad Local Chief Executive, Carranglan LGU
	Introduction of Participants	Engr. Joel Polintan
9:15–10:00am	Overview of the Public Hearing	Case Handler, EMB Central Office
	Brief Overview of the Proposed Project	Engr. Bill Ponce Project Manager, DPWH
	Presentation of Environmental Impact Assessment (EIA) Results, Impacts, and Mitigating Measures	Engr. Jose Marie Lim EIA Study Team Leader
10:00–11:30am	Guidelines for the Public Hearing	Atty. Erika Romero
	Open Forum - Public Hearing	Public Hearing Officer, EMB Central Office
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	Closing	Engr. Bill Ponce Project Manager, DPWH



SECTION 3

STAKEHOLDERS' REPRESENTATION

- 18 **Public Hearing for Nueva Vizcaya.** The public hearing for Nueva Vizcaya for the proposed Dalton Pass East Alignment Road Project was held last 3 May 2023 (Wednesday) from 9:00am to 12:00nn at the Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya.
- 19 The number of participants who attended the public hearing for Nueva Vizcaya was 84 (21 females and 63 males).
- 20 **Public Hearing for Nueva Ecija.** The public hearing for Nueva Ecija for the proposed Dalton Pass East Alignment Road Project was held last 4 May 2023 (Thursday) from 9:00am to 12:00nn at the PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija.
- 21 The number of participants who attended the public hearing for Nueva Ecija was 88 (23 females and 65 males).
- 22 The attendance sheets for the said activity were presented as **ATTACHMENT 3** of this report. Further, the presentation material used during the public hearing was attached **ATTACHMENT 4** of this report.
- 23 The detailed composition/distribution of the stakeholders who attended the public hearing was presented in **Table 4**.

Table 4: Distribution of Stakeholder Groups

DATE & TIME		ATTENDEES		PARTICIPANTS		
				MALE	FEMALE	TOTAL
Nueva Vizcaya						
03 May 2023 (9:00AM – 12:00NN)	Provincial Government of Nueva Vizcaya			3	0	3
	1. Environment and Natural Resources Office					
	2. Provincial Planning and Development Office					
	3. Provincial Engineering Office					
	LGU Aritao			5	3	8
	1. Municipal Engineer					
	2. MPDO Representative					
	3. MENRO					
	4. Municipal Administrator					
	5. PESO Manager					
	6. Municipal IPMR					
	Barangay Canabuan, Aritao			6	5	11
	1. Barangay Officials					
	2. Barangay IPMR					
	3. Non-Government Office					
	4. Indigenous People					
	Barangay Canarem, Aritao			7	3	10
	1. Barangay Officials					
	2. Sangguniang Kabataan (Youth)					
	Barangay Beti			1	0	1
	1. Barangay Officials					



DATE & TIME	ATTENDEES	PARTICIPANTS		
		MALE	FEMALE	TOTAL
	LGU Santa Fe 1. Municipal Administrator 2. Municipal Planning and Development Coordinator 1. OIC- Municipal Engineer 2. MENRO 3. SB Members	8	0	8
	Barangay Canabuan, Santa Fe 1. Barangay Officials 2. Barangay IPMR 3. IP Elder/ Chieftain 4. Senior Citizens 5. Sangguniang Kabataan (Youth)	14	4	18
	Barangay Bantinan, Santa Fe 1. Barangay Officials	1	0	1
	Residents of Nueva Vizcaya	1	0	1
	Carranglan LGU	2	0	2
	DENR-EMB Central Office	2	1	3
	EIA Review Committee	1	0	1
	DENR-MGB Region II	1	5	6
	DENR-EMB Region II	1	0	1
	DENR-PENRO Nueva Vizcaya	1	0	1
	DENR-CENRO Aritao	1	0	1
	DPWH Representatives	4	0	4
	LCI (Local EIA Consultant)	4	0	4
	SUB-TOTAL	63	21	84
Nueva Ecija				
04 May 2023 (9:00AM – 12:00NN)	Provincial Government of Nueva Ecija 1. Provincial Engineering Office 2. Provincial Environment and Natural Resources Office	4	0	4
	LGU Carranglan 1. Municipal Mayor 2. Municipal Engineer 3. MENRO 4. Municipal Health Office Representative	5	1	6
	Barangay Bunga, Carranglan 1. Barangay Officials 2. Residents	9	3	12
	Barangay Burgos, Carranglan 1. Barangay Officials 2. Barangay IPMR 3. IP Elders 4. Zone Leaders	7	2	9
	Barangay Salazar, Carranglan 1. Barangay Officials 2. Sangguniang Kabataan (Youth) 3. Senior Citizens 4. People's Organization Representative/ IP 5. Residents	18	9	27
	Barangay RA Padilla, Carranglan 1. Barangay Official	1	0	1
	Residents of Nueva Ecija	4	2	6



DATE & TIME	ATTENDEES	PARTICIPANTS		
		MALE	FEMALE	TOTAL
	DENR-EMB Central Office	1	1	2
	EIA Review Committee	1	0	1
	DENR-EMB Region III	1	2	3
	DENR-PENRO Nueva Ecija	2	0	2
	DENR-CENRO Munoz	1	0	1
	NCIP- Nueva Ecija Provincial Office	3	2	5
	DPWH Representatives	4	1	5
	LCI (Local EIA Consultant)	4	0	4
	SUB-TOTAL	65	23	88
	TOTAL	128	44	172



SECTION 4

SUMMARY OF ISSUES AND CONCERNS

- ²⁶ The issues, concerns, and suggestions raised by the participants during the open forum and the corresponding responses of the Proponent and EIA consultant were summarized in the matrix below (**Table 5**). The transcript for the open forum was presented as **ATTACHMENT 5** of this report.

Table 5: Matrix of Issues and Concerns Raised During the Public Hearing

ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
Nueva Vizcaya Open Forum		
Project Description		
1. What decommissioning and restoration plans are the proponent proposing? 2. What plans does the proponent have for people who will lose their livelihood because of the project?	Engr. Aries Valderama, OIC-Municipal Engineer, Santa Fe, NV	<u>EIA Consultant:</u> To be clear, the study includes the different phases of the project which are pre-construction, construction, and operation phases. Perhaps you mean demobilization after the construction phase rather than "decommissioning." The existence of temporary facilities in the area may provide the locals with a source of income. However, following construction, the demobilization and clearance of the temporary facilities will take place, leaving the residents without a source of income. This will be considered in our report. Compensation will be provided to those who may be displaced and/or lose their livelihoods as a result of the project's development. This will be expanded upon in a separate document titled Resettlement Action Plan and Right-of-Way Acquisition.
3. Could you perhaps clarify why the title of the project changed so abruptly?	Mr. Edgardo Sabado, Provincial Planning and Development Coordinator, NV	<u>EIA Consultant:</u> In 2021, we used the "Dalton Pass East Alternative Road Project" in all our presentations. However, in 2023, the project was included to the list of the new national government's flagship infrastructure programs, resulting in a name change to "Dalton Pass East Alignment Project." To accommodate the rapid shift, we revised all project-related documentation and reports.



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
4. <i>Is the project classified as High Standard Highway 1 or 2?</i>	Mr. Edgardo Sabado , Provincial Planning and Development Coordinator, NV	<p><u>DPWH (Engr. Ponce):</u> Regarding the category of the project, whether High Standard Highway 1 or 2, will be clarified in the Detailed Engineering Design of the project.</p> <p><u>DPWH (Engr. Bulan):</u> The project is part of the High Standard Highway. The 23-kilometer length is constructed with a 60-meter road right of way and a speed limit of 60 kilometers per hour since these are the criteria for a High-Standard Highway (HSH).</p> <p>The main objective of this project is to have an alternate route for the existing Dalton Pass.</p>
5. <i>Will the OCC, operation and maintenance of the project be outsourced/contracted or handled directly by DPWH?</i>	Mr. Edgardo Sabado , Provincial Planning and Development Coordinator, NV	<p><u>DPWH (Engr. Bulan):</u> Recently, JICA conducted a fact-finding mission for this project. Since we are still in the project preparation stage, these kinds of discussions or questions are still being finalized.</p> <p>The JICA team is presently assessing the capabilities of DPWH to manage the operations and maintenance of the project.</p> <p>This question will be addressed at the project evaluation stage because preliminary designs will be available during that time.</p>
6. <i>Does the project (tunnel) have emergency exits, particularly for usage during earthquakes or other emergencies?</i>	Mr. Jerry Tan , Assistant Provincial Engineer, NV	<p><u>DPWH (Engr. Bulan):</u> The conceptual design of the project was shown in the audio-video presentation.</p> <p>During the project's operation, the Operation Control Center will ensure that the facility is equipped with safety features.</p> <p>The proposal includes two tunnels so that they may use the second tunnel to redirect traffic or as an evacuation place during crises. There are other emergency exits in the tunnels such as cross passages. CCTV cameras will be installed to monitor what is going on within the tunnels and other safety features such as lightings, ventilation</p>



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
		and among others as presented in the video
<p>7. <i>Since the project is not yet in the DED phase, may we incorporate a service bay provision?</i></p> <p>8. <i>May we also construct a platform where tourists may snap pictures outside the tunnel to encourage tourism?</i></p>	Representatives from Canabuan, Aritao	<p><u>EIA Consultant:</u> This proposal has been taken into consideration. These will also be included in our documentation of this public hearing, as well as recommendations in the final report.</p>
Land		
<p>9. <i>It will create a significant amount of garbage during the project. What are your plans for solid waste management?</i></p> <p>10. <i>Is it feasible that the DPWH will build its own sanitary landfill?</i></p>	Forester John D. Simeon, MENRO, Santa Fe, NV	<p><u>EIA Consultant:</u> Construction waste will be generated during the development of the project. As mentioned in the report, temporary facilities such as the Material Recovery Facility (MRFs) will be built. It is also mentioned that the contractor is obliged to coordinate with the municipality regarding how to dispose of the solid waste.</p> <p><u>DPWH (EnP. Del Mundo):</u> Usually, the construction waste created throughout the development of the project is minimal.</p> <p>The volume of excavated soil will account for most of the waste. Excavated materials will be subjected to material/soil testing, if found suitable, DPWH will utilize these suitable materials as embankment for the road construction.</p> <p>The notion of building our own sanitary landfill will incur additional expenditures for the project. Rest assured that the volume of garbage created by the project will be disclosed in the plan.</p>
11. <i>What will your approach or alternative be if you come across critical flora and fauna during construction?</i>	Mr. Edgardo Sabado, Provincial Planning and Development Coordinator, NV	<p><u>EIA Consultant:</u> For the Tree Cutting Permit, the proponent and CENRO will have their full inventory for the project. Flora and fauna found along the alignment will be documented.</p> <p>If the team comes across any critical flora or fauna, the CENRO guidelines for dealing with it shall apply.</p>



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
		<p>We will emphasize the recommended process and include it in the mitigation actions. In addition to this, we will update the institutional plan on how this will operate.</p> <p>PENRO: The procedure before we conduct construction is 100% inventory. We also have guidelines for replacement and rehabilitation.</p> <p>All species discovered along the alignment will be reported and submitted to the Undersecretary for Field Operations' Office.</p>
<p>12. Where will the trees that will be chopped down end up, and is it possible to request any of the cut down trees?</p>	<p>Hon. Ben Balalong, Punong Barangay, Brgy. Canabuan, Santa Fe, NV</p>	<p>PENRO: There is a joint memorandum policy with DPWH regarding this. The chopped trees will be turned over to the bureau for suitable storage.</p> <p>Barangays may seek to use the trees, which must be approved by the DENR Office.</p>
Water		
<p>13. According to the presentation, the tunnel is rather lengthy. Will the tunnel construction have an impact on the water supply in the lowlands?</p>	<p>Hon. Bautista, SB Member, Santa Fe NV</p>	<p>EIA Consultant: During the initial discussions with the JICA Study Team, the effect of the project on the groundwater resource in the area was considered.</p> <p>A groundwater assessment was conducted to ensure that the project will not affect the existing water resource in the area.</p> <p>The results of the assessment were considered in designing the location or alignment of the tunnels.</p>
Air		
<p>14. How will the proponent meet the provided baseline (pre-construction) for noise during project operation?</p> <p>15. I suggest planting trees on the on-grade portion of the project as a natural noise barrier.</p>	<p>Mr. Edgardo Sabado, Provincial Planning and Development Coordinator, NV</p>	<p>EIA Consultant: We are now comparing the baseline noise data to the existing DENR Standards while taking into account the present usage of the site (residential, commercial, industrial, etc.).</p> <p>Once the project is completed, the existing usage of the site will be updated, and appropriate standards</p>



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
		<p>will be used to compare future monitoring results.</p> <p>Your idea to put trees as natural noise barriers will be considered further in the Detailed Engineering Design.</p>
People		
<p>16. Given that a portion of the project is in ancestral domain, why is NCIP not present?</p> <p>17. Some information in the presentation is not included or disclosed in our Memorandum of Agreement.</p>	<p>Mr. Bayani Larosa, Municipal IPMR, Aritao NV</p>	<p>EIA Consultant: We invited NCIP by sending the Public Hearing Notice and an invitation letter.</p> <p>For any further issues raised in our presentation, you can contact NCIP directly or request a special session with DPWH to address the IPs' concerns.</p>
<p>18. If a conflict arose within the ancestral domain, who would govern, the ancestral domain boundary or the political boundary?</p>	<p>Mr. Bayani Larosa, Municipal IPMR, Aritao NV</p>	<p>EIA Consultant: The MOA signed by DPWH and the IPs mentioned a Grievance Redress Mechanism for the project. The GRM discusses how the team will resolve the IP issues.</p> <p>DPWH (Engr. Bulan): In addition, it was also mentioned in the GRM that if there is a concern or problem, it will be resolved first in the locality which is the IP Groups. If it is not resolved there, it will be escalated to the next level.</p>
<p>19. In case of emergencies within the tunnels, what are the protocols?</p>	<p>Representatives from Nueva Vizcaya Provincial LGU</p>	<p>DPWH (Engr. Ponce): Emergency responders, fire trucks, and a generator will be stationed near the tunnels during the operation phase of the project.</p> <p>EIA Consultant: For the OCC, we will highlight the importance of having good coordination with the LGUs.</p>
<p>20. Do we have a Memorandum of Agreement for recruiting laborers who prioritize affected households?</p>	<p>Mr. June, Radio Aritao</p>	<p>DPWH (Engr. Ponce): The DPWH already has a policy which mandates contractors to utilize local labor - 60% for unskilled workers and 40% for skilled labors. It is required that the applicant be qualified for the position.</p>
<p>21. Can we consider the IP First Policy while hiring workers?</p>	<p>Mr. Bayani Larosa, Municipal IPMR, Aritao NV</p>	<p>EIA Consultant: We will take note of this suggestion and will compare your suggestion to existing policies of DPWH.</p>



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
		<p>The context of the policy of DPWH is to hire people from the locality. If the IP community is located there, then you will also be prioritized.</p> <p><u>DPWH (Engr. Ponce):</u> Regarding the suggestion on IP First Policy, it is better to coordinate with the barangay so that they will also be prioritized during hiring of workers for the project.</p>
<p>22. Regarding the IP First Policy recommendation, I believe it is preferable that the contractor collaborate with the PESO of the municipality.</p> <p>23. Because we have a collection of profiles of barangay inhabitants that includes their skills in PESO.</p>	Representatives from Santa Fe, Nueva Vizcaya	The PH Officer took note of the suggestion.
<p>24. Highlight the application of RA 11291 or the Magna Carta of the Poor in the agreement with the IPs when recruiting workers.</p>	Representatives from Nueva Vizcaya Provincial LGU	<p><u>EIA Consultant:</u> This is noted.</p>
Others		
<p>25. In the presentation, the MMT was only mentioned during the construction phase. What about the operation and maintenance of the project?</p> <p>26. Who will also monitor the mitigation measures during the operation phase of the project?</p> <p>27. I still propose to continue the operation of the MMT even after the construction to still monitor the project.</p>	<p>Mr. Edgardo Sabado, Provincial Planning and Development Coordinator, NV</p>	<p><u>DENR-EMB:</u> For the MMT, if the validity of the ECC is continuous, MMT will be present. The termination of the MMT during the operation and maintenance phase will be requested. EMB will nevertheless assess the request.</p> <p>The affected municipalities will be a part of the MMT, and they will decide whether the MMT should continue to operate during the project's operating period.</p> <p>The MMT is distinct from the monitoring team of EMB. Hence, EMB will still monitor the project even if the MMT was discontinued or not.</p> <p><u>EIA Consultant:</u> We will take note of all your suggestions.</p>



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
		<p><u>DPWH (Engr. Ponce):</u> During the implementation of the project, DPWH and the Contractors are preparing an Environmental Compliance Report (monthly or semi-annually) to highlight our compliance with the conditions stated in the ECC.</p>
Nueva Ecija Open Forum		
Project Description		
1. <i>May we request to discuss the project alignment again?</i>	Representatives from Nueva Ecija Provincial LGU	Engr. Bulan (DPWH) discuss again the slides pertaining to the project alignment.
Land		
2. <i>Structures and farmlands with land titles in Sitio Baratwill be directly affected by the road alignment. What benefits will they receive?</i>	Mr. Espino Bagsic, Brgy. Burgos, Carranglan, NE	<p><u>DPWH (EnP. Del Mundo):</u> We have the Road-Right-of-way Acquisition Plan, and we will comply with RA 10752.</p> <p>Rest assured that DPWH will coordinate and compensate the affected land and structure owners.</p>
3. <i>We propose modifying the alignment such that it will not directly affect our lands.</i> 4. <i>We have a land title, but we were unable to register it again since it was designated within a protected area and ancestral domain. Will it have an impact on the amount of compensation we receive?</i>	Ms. Annaliza Inway, IP, Barangay Salazar	<p><u>DPWH (Engr. Ponce):</u> We have a checklist of documents that the landowner must submit as proof of their authority over the land for them to be properly compensated provided that the lot owner will cooperate by showing/submitting on time the proof of ownership and other documentary requirements listed in the checklist for compensation based on law.</p> <p><u>DENR-APASu (Mr. Udasco):</u> I think that this issue regarding the land within a protected area and ancestral domain can only be addressed by the NCIP.</p> <p><u>DPWH (Engr. Bulan):</u> Since the land you were mentioning belongs to the CADT, the ownership of the land is under the CADT and not for an individual.</p> <p>According to RA 10752 and indicated in our MOA, if the project-affected land belongs to the CADT, the mode of payment mentioned in the Road-Right-of-way Acquisition is easement mode of acquisition. This means that the land will be priced based on the BIR Zonal</p>



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
		Value and the payment will be given to the CADT. If the land is not part of a CADT, current market value will prevail.
Water		
<i>This module received no comments.</i>		
Air		
<i>This module received no comments.</i>		
People		
5. What are the proponent's plans for those who were not listed to the project-affected persons during our first list consolidation?	Resident from Brgy. Bunga	<u>DPWH (Engr. Ponce and EnP. Del Mundo):</u> We will update the master list of the project-affected individuals as of the FS stage. Hence, for those who are not listed in the master list per FS stage, they will be included in the final RAP updating and validation during the DED stage. Moreover, there is a 'cut-off' date wherein it will determine who will be included in the final master list of PAPs.
6. Is it also on the proponent's agenda to provide TESDA training to IPs in order to prepare them for prospective project work?	Ms. Annaliza Inway, IP, Barangay Salazar	<u>DPWH (Engr. Bulan):</u> We will coordinate with the LGUs in providing the skills training. The RAP also discussed the provision of providing livelihood to those who will lose their livelihood because of the project.
Others		
7. Is it still possible to change the MOA to incorporate new conditions?	Hon. Andres Bucasan, Punong Barangay, Salazar, Carranglan NE	<u>DPWH (Engr. Bulan):</u> If the IPs offer modifications, we encourage that they communicate first with the NCIP to make such changes since we are all aware that the MOA is signed among NCIP, DPWH, and ICCs/IPs representatives. For NCIP to assess and evaluate your request. Following that, you can share your concerns with DPWH.
8. Is the project's provided EIS part of the feasibility study mentioned in the Resolution with DPWH?	Mr. Leonardo Udasco, APASu DENR-CENRO Munoz/ DENR- PAMB PCWFR	<u>EIA Consultant:</u> This EIA Study is part of the resolution you mentioned, together with the RAP and the IPP.
9. As previously stated, there will be a spoil zone. Is it located in a protected area?	Mr. Leonardo Udasco, APASu DENR-CENRO Munoz/ DENR- PAMB PCWFR	<u>EIA Consultant:</u> The spoils area is part of the tunnel area. Probably, it is within the CADT areas and PCWFR. However, the location of the spoils area is still subjected to finalization.



ISSUES AND CONCERNS RAISED ON THE FOLLOWING MODULES	SECTOR OR PERSONS WHO RAISED THE ISSUES/CONCERNS	PROPONENT RESPOND TO ISSUES/CONCERNS
10. After reviewing the conducted studies for the project, we can certify that the proponent properly researched the proposal and its environmental impact.	Mr. Leonardo Udasco, APASu DENR-CENRO Munoz/ DENR- PAMB PCWFR	The PH Officer and the EIA preparers took note of the statements.
11. We encourage everyone to voice their opinion through their representatives so their opinions can be heard.		
12. I encourage my fellow Carranglan and Nueva Ecija citizens to embrace and support the project since it will bring us forward.	Engr. Bernardo, Municipal Engineer, Carranglan NE	The PH Officer and the EIA preparers took note of the statement.



SECTION 5

PHOTO-DOCUMENTATION

Figure 4: Photo Documentation of the Public Hearing for Nueva Vizcaya (1/2)



Public Hearing Venue and Registration of Participants



Invocation and Singing of the National Anthem



Welcome Remarks and Introduction of Participants

SOURCE: Photos taken by LCI Study Team last 3 May 2023

FIGURE TITLE

Photo Documentation of the Public Hearing for Nueva Vizcaya (1/2)

PROJECT PROPONENT:



Department of Public
Works and Highways

PROJECT TITLE & LOCATION:

**DALTON PASS EAST ALIGNMENT
ROAD PROJECT**
Provinces of Nueva Vizcaya & Nueva Ecija

REPORT PREPARER:



LCI ENVI CORPORATION



Figure 5: Photo Documentation of the Public Hearing for Nueva Vizcaya (2/2)



Guidelines for the Public Hearing and Presentation of the Proposed Project



Presentation of the EIA Findings, Impacts, and Mitigating Measures



Open Forum Proper

SOURCE: Photos taken by LCI Study Team last 3 May 2023

FIGURE TITLE

Photo Documentation of the Public Hearing for Nueva Vizcaya (2/2)



PROJECT PROPONENT:	PROJECT TITLE & LOCATION:	REPORT PREPARER:
 Department of Public Works and Highways	DALTON PASS EAST ALIGNMENT ROAD PROJECT Provinces of Nueva Vizcaya & Nueva Ecija	 LCI ENVI CORPORATION



Figure 6: Photo Documentation of the Public Hearing for Nueva Ecija (1/2)



Public Hearing Venue and Registration of Participants



Invocation and Singing of the National Anthem



Welcome Remarks and Introduction of Participants

SOURCE: Photos taken by LCI Study Team last 4 May 2023

FIGURE TITLE

Photo Documentation of the Public Hearing for Nueva Ecija (1/2)

PROJECT PROPONENT:



Department of Public
Works and Highways

PROJECT TITLE & LOCATION:

**DALTON PASS EAST ALIGNMENT
ROAD PROJECT**
Provinces of Nueva Vizcaya & Nueva Ecija

REPORT PREPARER:



LCI ENVI CORPORATION



Figure 7: Photo Documentation of the Public Hearing for Nueva Ecija (2/2)



Guidelines for the Public Hearing and Presentation of the Proposed Project



Presentation of the EIA Findings, Impacts, and Mitigating Measures



Open Forum Proper

SOURCE: Photos taken by LCI Study Team last 4 May 2023

FIGURE TITLE

Photo Documentation of the Public Hearing for Nueva Ecija (2/2)

PROJECT PROPONENT:



Department of Public
Works and Highways

PROJECT TITLE & LOCATION:

**DALTON PASS EAST ALIGNMENT
ROAD PROJECT**

Provinces of Nueva Vizcaya & Nueva Ecija

REPORT PREPARER:



LCI ENVI CORPORATION

ATTACHMENT 1

NOTARIZED AFFIDAVIT OF PUBLICATION

PROPOSED DALTON PASS EAST ALIGNMENT PROJECT
Provinces of Nueva Vizcaya & Nueva Ecija

w/ News
papers

AFFIDAVIT OF PUBLICATION

I, ADELA G. MENDOZA, of legal age, Filipino, married and a resident of 14 Registration Street, SSS HMS North, Quezon City, Philippines after having duly sworn to in accordance with law, hereby declare and testify.

1. That I am the Sales Director – Classified Ads Department of the PHILIPPINE DAILY INQUIRER, INC., publisher of the Philippine Daily Inquirer, a newspaper of general circulation in the Philippines, with editorial and business address at PDI Building, 1098 Chino Roces Avenue corner Yague and Mascardo Streets, Makati City.

2. That at the order of _____

LCI ENVI CORPORATION

Re: Announcement – NOTICE OF PUBLIC HEARING on the ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REPORT of the proposed Dalton Pass East Alignment Road Project of Department of Public Works and Highways (DPWH) located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya.

Text of which would be described as follows:

AS PER ATTACHED

was published in the Philippine Daily Inquirer in its issue/issues of:

April 18 & 25, 2023

Affiant Further Sayeth
Naught, Makati Philippines _____

ADELA GERSALIA MENDOZA
Affiant

SUBSCRIBED AND SWORN to before me this APR 25 2023 day of _____ PHILIPPINES, affiant exhibited to me her Driver's License No. N102-01-455507 issued at Quezon City until October 10, 2023 and her SSS ID No. 03-9451924-9, bearing her photograph and signature.

Commission No. Adm. Matter No. NP 158 (2023-2024)
IBP O.R. No. 180815 2023 & IBP O.R. No. 180816 2023
PTR O.R. No. 3016669 D 01/03/2023 / Roll No. 33332 / TIN # 129-871-009-00
MCLE No. 738 FROM APRIL 15, 2023 UNTIL APRIL 14, 2025
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Doc. No. 460
Page No. 80
Book No. 11
Series of 1007

ATTACHMENT 2

RECEIVING COPY OF THE INVITATION LETTERS

PROPOSED DALTON PASS EAST ALIGNMENT PROJECT
Provinces of Nueva Vizcaya & Nueva Ecija



April 14, 2023

Hon. Remelina M. Peros-Galam
Municipal Mayor
Office of the Mayor
Aritao Municipal Hall, Aritao, Nueva Vizcaya

OFFICE OF THE MUN. MAYOR
RECEIVED
DATE: 4-17-22
BY: [Signature] 10:47am
ARITAO, NUEVA VIZCAYA

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Hon. Peros-Galam:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

Date	Time	Venue	Participants
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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

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Municipality of Santa Fe
Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya

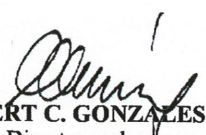
EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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info@lci-envi.com

8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	DALTON PASS EAST ALIGNMENT ROAD PROJECT Environmental Impact Statement	1
2	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : Haydee Mae Flores - LGU Antipio MD

Date : April 17, 2023

Time : 10:47 am



April 14, 2023

Engr. Alrey Baysa
Municipal Engineer
Municipal Engineer's Office (MEO)
Aritao Municipal Hall, Aritao, Nueva Vizcaya

SUBJECT : PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Dear **Engr. Baysa**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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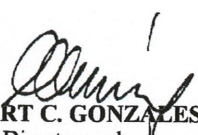
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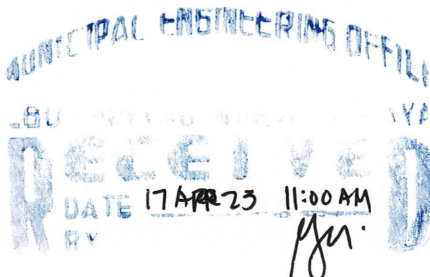
Municipality of Carranglan
Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations



Protect the environment... Protect life...





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Quezon City, Philippines

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TO		DATE	
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ADDRESS			

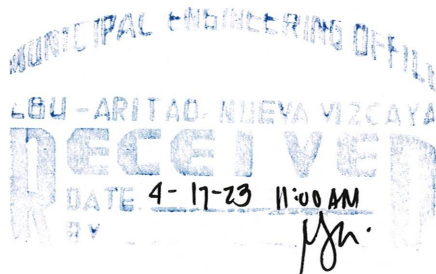
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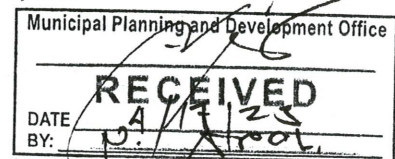
Time : _____





April 14, 2023

Dr. Annie Rose Llanera, EnP.
Municipal Planning and Development Coordinator
Municipal Planning and Development Office (MPDO)
Aritao Municipal Hall, Aritao, Nueva Vizcaya



SUBJECT : PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Dear Dr. Llanera, EnP.:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Municipality of Carranglan
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Thank you and we look forward to your participation.

Very truly yours,

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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Quezon City, Philippines

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TO		DATE	
ORGANIZATION	MPD XPRADO	CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by

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Date

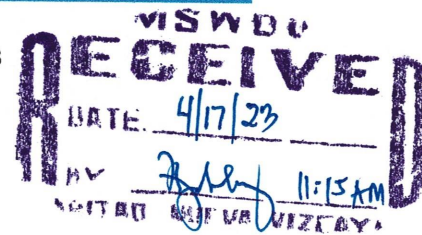
: 4/17/23

Time

: 11:05 AM



April 14, 2023



Mr. Marlon Guzman
Municipal Social Welfare and Development Officer
Municipal Social Welfare and Development Office (MSWDO)
Aritao Municipal Hall, Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Mr. Guzman**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Municipality of Carranglan
Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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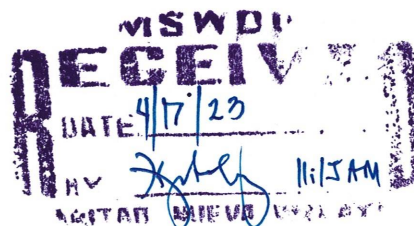
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ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
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Received by : _____

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Time : _____





April 14, 2023

Mr. Joseph Copena
Municipal Environment and Natural Resources Officer
Municipal Environment and Natural Resources Office (MENRO)
Aritao Municipal Hall, Aritao, Nueva Vizcaya



SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Mr. Copena**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Thank you and we look forward to your participation.

Very truly yours,

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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Date : _____

Time : _____





April 14, 2023

Hon. Vincent L. Lopez
SK President
Municipality of Aritao
Municipality of Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Hon. Lopez**:

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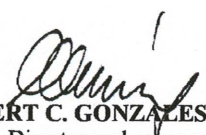
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Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
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received by
JFM
4 - 17 - 2023





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TO		DATE	
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Received by : *Alfon*
Date : 4 - 17 - 2023
Time : 11 - 20 - AM



April 14, 2023

Dr. Van Jasper Bautista
Municipal Health Officer
Municipal Health Office (MHO)
Aritao Municipal Hall, Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Dr. Bautista:

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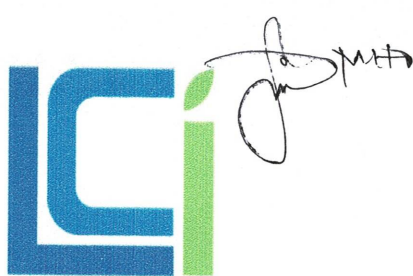
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April 14, 2023

Representative
Office for Senior Citizen Affairs
Municipality of Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Sir/Madam:

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Municipality of Aritao
Aritao, Nueva Viscaya

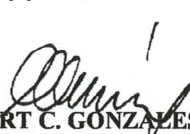
EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





LCI ENVI CORPORATION

+63-2-4422830

+63-2-9619226

info@lci-envi.com

8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	04-17-23
ORGANIZATION	SENIOR CITIZEN'S OFFICE ARMAO	CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	DALTON PASS EAST ALIGNMENT ROAD PROJECT Environmental Impact Statement	1
2	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by :

Date : 04-17-23

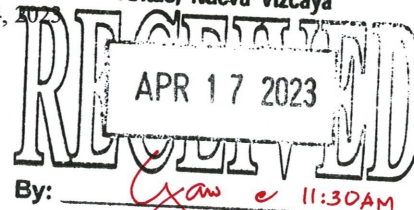
Time :



OFFICE OF THE SANGGUNIANG BAYAN
Aritao, Nueva Vizcaya

April 14, 2023

Hon. Bayani Larosa
Indigenous Peoples Mandatory
Representative (IPMR)
Aritao Municipal Hall
Municipality of Aritao, Nueva Vizcaya



SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST
ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS**

Dear **Hon. Larosa**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at eia@emb.gov.ph three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

Attached herewith is the project's Executive Summary for the Public (ESP) for your reference. The project's Environmental Impact Statement (EIS) is downloadable at our website www.eia.emb.gov.ph. Kindly access the Notice of Public Hearing/ Consultation link found in our web page). The copies of the ESP and EIS are available at the following offices:

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Cagayan

Municipality of Santa Fe
Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya

EMB Region III
Masinop Corner Matalino St., Diosdado
Macapagal Government Center, Maimpis,
San Fernando City, Pampanga

Municipality of
Carranglan
Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

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	NOTHING FOLLOWS****	

Received by : _____

Date : _____

Time : _____

OFFICE OF THE SANGGUNIANG BAYAN
Aritao, Nueva Vizcaya

RECEIVED
APR 17 2023
By: Gaw 11:30AM



April 14, 2023

The Representative
Religious Sector
Municipality of Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Sir/Madam:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations

4-17-23
J. Polintan





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info@lci-envi.com

8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION	<i>St. Joseph Parish</i>	CONTACT NO	
ADDRESS	<i>Arifado, Nueva Vizcaya</i>		

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	DALTON PASS EAST ALIGNMENT ROAD PROJECT Environmental Impact Statement	1
2	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : _____

Date : _____

Time : _____

4-17-2028
Jeffrey



April 14, 2023

Hon. Manric O. Gaynat
Punong Barangay
Canarem Barangay Hall
Barangay Canarem, Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Hon. Gaynat:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

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Aritao, Nueva Viscaya

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Municipality of**Carranglan**

Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations

4-17-23
13267-CANAREM-11101-3-11-23





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8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			


Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : _____

Date : _____

Time : _____

4-17-23
BRBY. CARMEN LILIBRE




April 14, 2023

Hon. Reynaldo J. Pugsong

Punong Barangay

Canabuan Barangay Hall

Barangay Canabuan, Aritao, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Hon. Pugsong:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Municipality of Aritao

Aritao, Nueva Viscaya

EMB Region III

Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

Municipality

Carranglan

Carranglan, Nueva Ecija

of

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,

RHEYMTEL PUGSONG

4-17-23

Gilbert C. Gonzales
GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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info@lci-envi.com

8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : RHEYM TE PUGSONG

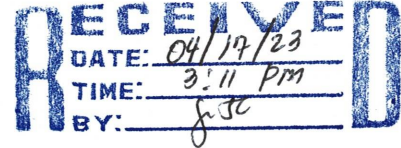
Date : 4-17-23

Time : _____



April 14, 2023

MAYOR'S OFFICE
LGU SANTA FE



Hon. Liwayway C. Caramat
Municipal Mayor
Office of the Mayor
Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Hon. Caramat:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Municipality of Carranglan
Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





April 14, 2023

For. Aquino Y. Caramat
Municipal Administrator
Office of the Municipal Administrator
Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear For. Caramat:

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Thank you and we look forward to your participation.

Very truly yours,

Received Copy
Y. CARAMAT, JR.
4/17/23 5:16 PM

Gilbert C. Gonzales
GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





April 14, 2023

OIC Henia A. Anuma

Municipal Social Welfare and Development Officer

Municipal Social Welfare and Development Office (MSWDO)

Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear OIC Anuma:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations



*Received
4-17-23*



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111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : Lydia C. Gutay

Date : April 17, 2023

Time : 3:35 pm



April 14, 2023

Dr. Ernesto Robancho Jr.
Municipal Health Officer
Municipal Health Office (MHO)
Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Dr. Robancho Jr.**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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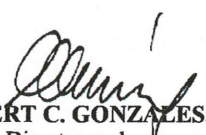
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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations

Received by
[Signature]
4/17/2023

Protect the environment... Protect life...





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info@lci-envi.com

8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

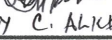
Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by :  LORY C. ALKEDA

Date : 4/17/2023

Time : 3:45 PM



April 14, 2023

Hon. Krizlyn Cherr B. Baban
SK President
SK Municipal Federation
Municipality of Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Hon. Baban**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

Date	Time	Venue	Participants
03 May 2023 (Wednesday)	9:00 AM (Registration starts at 8:30)	Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya	Residents of Nueva Vizcaya
04 May 2023 (Thursday)	9:00 AM (Registration starts at 8:30)	PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija	Residents of Nueva Ecija

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

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Municipality of Santa Fe
Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya

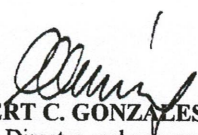
EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga


Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations


Crisanta Tomas
4-17-2023





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TO		DATE	
ORGANIZATION		CONTACT NO	
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ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : crisanta F. Tomas

Date : 4-17-2023

Time : 3:30 pm



April 14, 2023

Engr. Vergilio S. Valderama Jr.
Municipal Engineer
Municipal Engineer's Office (MEO)
Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Engr. Valderama Jr.:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Aritao, Nueva Viscaya

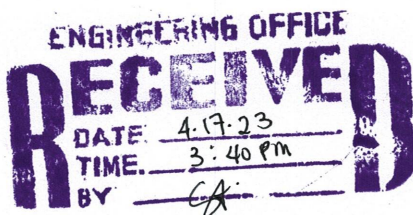
EMB Region III
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Municipality of Carranglan
Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,




GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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ADDRESS			

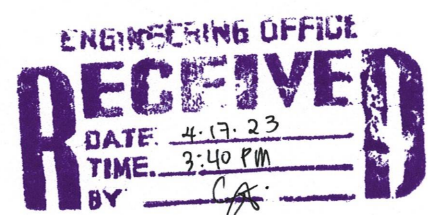
Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : _____

Date : _____

Time : _____





April 14, 2023

Engr. Kennedy B. Baluyan Jr.
Municipal Planning and Development Coordinator
Municipal Planning and Development Office (MPDO)
Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Engr. Baluyan Jr.:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Municipality of Aritao
Aritao, Nueva Viscaya


EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

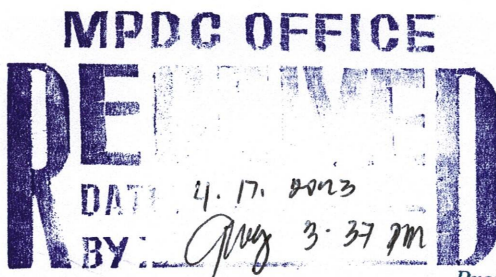
Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations



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ADDRESS			

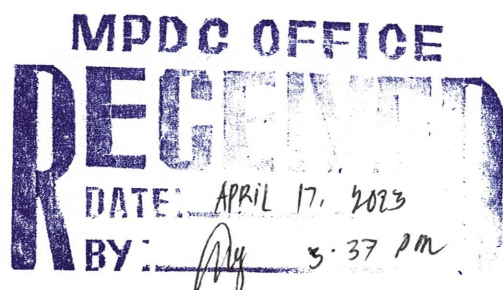
Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
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	NOTHING FOLLOWS****	

Received by : _____

Date : _____

Time : _____





April 14, 2023

Mr. Cerelino de Guzman
Head
Office for Senior Citizen Affairs
Municipality of Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Mr. de Guzman:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by

:

Date

:

Time

:



April 14, 2023

Hon. Benjamin Baguya
Indigenous Peoples Mandatory
Representative (IPMR)
Santa Fe Municipal Hall
Municipality of Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST
ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS**

Dear Hon. Baguya:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

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Macapagal Government Center, Maimpis,
San Fernando City, Pampanga

Municipality of
Carranglan
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Thank you and we look forward to your participation.

Very truly yours,

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations

Received By
4-17-2023
3:11





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Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by

: JESSIE B. DIDANG

Date

: 04/17/23

Time

: 3:11 pm



April 14, 2023

Hon. Ben L. Balalong
Punong Barangay
Canabuan Barangay Hall
Barangay Canabuan, Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Hon. Balalong**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Thank you and we look forward to your participation.

Very truly yours,

4/17/23

MARTEL M. DE VERA

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : MAKIBEL H. DEVERA

Date : 4/17/28

Time : 12:10



April 14, 2023

Hon. Rogelio B. Abad
Municipal Mayor
Office of the Mayor
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Hon. Abad:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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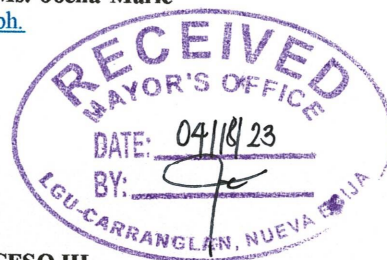
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Thank you and we look forward to your participation.

Very truly yours,

Received by:  04/18/23
RICARDO A. FERRER JR.
MUNICIPAL ADMINISTRATOR


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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	NOTHING FOLLOWS****	

Received by : Kimberly Mae Bolito

Date : 04/18/23

Time : 10:29 AM



April 14, 2023

Mr. Ricardo Ferrer
Municipal Administrator
Office of the Municipal Administrator
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Mr. Ferrer**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Municipality of Carranglan
Carranglan, Nueva Ecija

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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations

Received by:  04/18/23
RICARDO A. FERRER JR.
MUNICIPAL ADMINISTRATOR





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Received by : Kimberly Mac Bolito
Date : 04/18/23
Time : 10:29 AM



April 14, 2023

Mr. John D. Simeon
Municipal Environment and Natural Resources Officer
Municipal Environment and Natural Resources Office (MENRO)
Santa Fe Municipal Hall Santa Fe, Nueva Vizcaya

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Mr. Simeon:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

Date	Time	Venue	Participants
03 May 2023 (Wednesday)	9:00 AM (Registration starts at 8:30)	Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya	Residents of Nueva Vizcaya
04 May 2023 (Thursday)	9:00 AM (Registration starts at 8:30)	PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija	Residents of Nueva Ecija

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

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Municipality of Santa Fe
Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya


EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

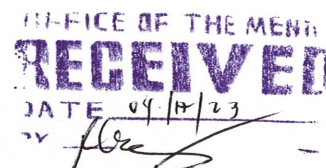
Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	04 / 17 / 22
ORGANIZATION	MENRO	CONTACT NO	
ADDRESS	LGM Santa Fe		

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : RMT ANGELICA MENDOZA

Date : 04 / 17 / 22

Time : 3:42 pm



April 14, 2023

Mr. Ariel M. Palomo
Municipal Planning and Development Coordinator
Municipal Planning and Development Office (MPDO)
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Mr. Palomo:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

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Municipality of Aritao
Aritao, Nueva Viscaya


EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

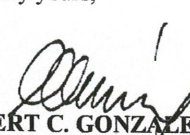
Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,

Received by: 
04-18-2023


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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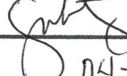
Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION	MPDD	CONTACT NO	
ADDRESS	Carranglan, Nueva Ecija		

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : 

Date : 04-18-2023

Time : 10:35 AM



April 14, 2023

Engr. Bernardo C. De Guzman
Municipal Engineer
Municipal Engineer's Office (MEO)
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Engr. De Guzman:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

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Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya

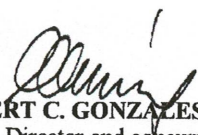
EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations


04-18-2023





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Quezon City, Philippines

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TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by

: 

Date

: 07-18-2023

Time

: 10:35 am



April 14, 2023

Mr. Christopher Antonio
Municipal Environment and Natural Resources Officer
Municipal Environment and Natural Resources Office (MENRO)
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Mr. Antonio:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Aritao, Nueva Viscaya

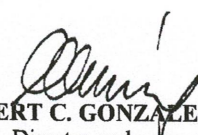
EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

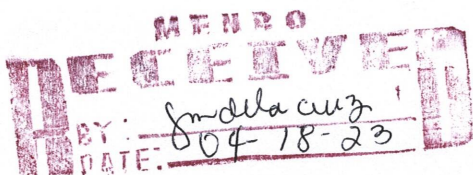
Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations



Protect the environment... Protect life...





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TO		DATE	
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ADDRESS			

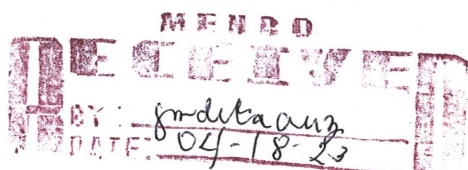
Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : _____

Date : _____

Time : _____





April 14, 2023

Ms. Michelle Julian
Municipal Social Welfare and Development Officer
Municipal Social Welfare and Development Office (MSWDO)
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Ms. Julian:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

Date	Time	Venue	Participants
03 May 2023 (Wednesday)	9:00 AM (Registration starts at 8:30)	Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya	Residents of Nueva Vizcaya
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Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,

Received by:
msub/eadim
4-18-23

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : INSUPDO / CORRA A. DIRON

Date : 4/18/2023

Time : 10:35



April 14, 2023

Dr. Virginette S. Fangaye
Municipal Health Officer
Municipal Health Office (MHO)
Carranglan Municipal Hall, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Dr. Fangaye**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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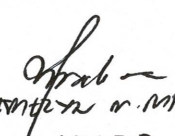
Municipality of Carranglan
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Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations

Received by: 
NAME
04-18-23





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111 Panay Avenue, South Triangle

Quezon City, Philippines

TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : RENELYN M. MARCELO

Date : 04-18-2023

Time : 11:08 AM



April 14, 2023

Hon. Faustino G. Natividad
Punong Barangay
Bunga Barangay Hall
Barangay Burgos, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear Hon. Natividad:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project of Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Thank you and we look forward to your participation.

Very truly yours,

Margarita R. Tabares

Gilbert C. Gonzales
GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : Margarita D. Tabares

Date : _____

Time : _____



April 14, 2023

Hon. Santos M. Teodoro
Punong Barangay
Burgos Barangay Hall
Barangay Burgos, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Hon. Teodoro**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

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Thank you and we look forward to your participation.

Very truly yours,

Idolina I. Dura
Brgy. Sec.

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





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ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by : Idona L. Duza
Date : 04/12/13
Time : 9:54 am



April 14, 2023

Hon. Andres P. Bucasan
Punong Barangay
Salazar Barangay Hall
Barangay Burgos, Carranglan, Nueva Ecija

SUBJECT : **PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

Dear **Hon. Bucasan**:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed **Dalton Pass East Alignment Road Project** of **Department of Public Works and Highways** to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

Date	Time	Venue	Participants
03 May 2023 (Wednesday)	9:00 AM (Registration starts at 8:30)	Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya	Residents of Nueva Vizcaya
04 May 2023 (Thursday)	9:00 AM (Registration starts at 8:30)	PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija	Residents of Nueva Ecija

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at cia@emb.gov.ph three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

Attached herewith is the project's Executive Summary for the Public (ESP) for your reference. The project's Environmental Impact Statement (EIS) is downloadable at our website www.cia.emb.gov.ph. Kindly access the Notice of Public Hearing/ Consultation link found in our web page). The copies of the ESP and EIS are available at the following offices:

EMB Region II
20 Pagayaya Road, Regional Government Center, Carig Sur Tuguegarao City, Cagayan

Municipality of Santa Fe
Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya

EMB Region III
Masinop Corner Matalino St., Diosdado Macapagal Government Center, Maimpis, San Fernando City, Pampanga

Municipality of Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler **Engr. Joel G. Polintan** or **Ms. Joena Marie Pagulayan** at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,

ANDRES P. BUCASAN
PUNONG BARANGAY
Recd. 4/18/23

GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations





LCI ENVI CORPORATION

+63-2-4422830

+63-2-9619226

info@lci-envi.com

8LM Future Point Plaza 3

111 Panay Avenue, South Triangle

Quezon City, Philippines

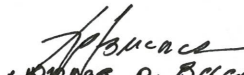
TRANSMITTAL

TO		DATE	
ORGANIZATION		CONTACT NO	
ADDRESS			

Documents transmitted:

ITEM NO	DESCRIPTION	QUANTITY
1	EIS Summary for the Public	1
	NOTHING FOLLOWS****	

Received by

: 
Nicolas P. Bucayan

Date

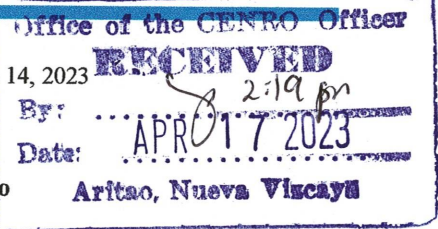
: _____

Time

: _____



April 14, 2023



Engr. Lensy F. Bunuen
OIC CENRO

Community Environment and Natural Resources Office (CENRO)- Aritao
Brgy. Banganan, Aritao, Nueva Vizcaya

SUBJECT : PUBLIC HEARING FOR THE PROPOSED DALTON PASS EAST
ALIGNMENT ROAD PROJECT OF DEPARTMENT OF PUBLIC WORKS
AND HIGHWAYS

Dear Engr. Bunuen:

We are pleased to invite you or your representative to attend the Public Hearing for the proposed Dalton Pass East Alignment Road Project of Department of Public Works and Highways to be located in Municipality of Carranglan, Nueva Ecija and Municipality of Santa Fe and Aritao, Nueva Vizcaya. The said activity is scheduled on:

Date	Time	Venue	Participants
03 May 2023 (Wednesday)	9:00 AM (Registration starts at 8:30)	Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya	Residents of Nueva Vizcaya
04 May 2023 (Thursday)	9:00 AM (Registration starts at 8:30)	PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija	Residents of Nueva Ecija

The Public Hearing will be conducted as part of the requirements of the proponent's application for an Environmental Compliance Certificate. Interested parties will be given the opportunity to express freely their concerns/support/opposition/questions about the project.

Kindly register or submit a concise position paper to this Office via email at eia@emb.gov.ph, three (3) days before the scheduled Public Hearing. Those who are unable to register online or submit position papers may still join the discussion on the day of the hearing.

Attached herewith is the project's Executive Summary for the Public (ESP) for your reference. The project's Environmental Impact Statement (EIS) is downloadable at our website www.eia.emb.gov.ph. Kindly access the Notice of Public Hearing/ Consultation link found in our web page). The copies of the ESP and EIS are available at the following offices:

EMB Region II
20 Pagayaya Road, Regional Government
Center, Carig Sur Tuguegarao City,
Cagayan

Municipality of Santa Fe
Santa Fe, Nueva Viscaya

Municipality of Aritao
Aritao, Nueva Viscaya

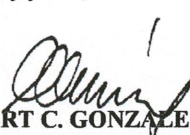
EMB Region III
Masinop Corner Matalino St., Diosdado
Macapagal Government Center, Maimpis,
San Fernando City, Pampanga

Municipality of
Carranglan
Carranglan, Nueva Ecija

For more details, please contact the EIAM Division at this Office at telephone numbers (02) 8539 4378 local 116 and look for the project case handler Engr. Joel G. Polintan or Ms. Joena Marie Pagulayan at this email: joel_polintan@emb.gov.ph and joena_pagulayan@emb.gov.ph.

Thank you and we look forward to your participation.

Very truly yours,


GILBERT C. GONZALES, CESO III
Director and concurrent
Assistant Secretary for Field Operations



ATTACHMENT 3

PUBLIC HEARING ATTENDANCE SHEET

PROPOSED DALTON PASS EAST ALIGNMENT PROJECT
Provinces of Nueva Vizcaya & Nueva Ecija

ATTENDANCE SHEET

PROJECT NAME:

Proposed Dalton Pass East Alignment Road Project

ACTIVITY: Public Hearing












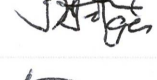


DATE: 3 May 2023 (Wednesday)

VENUE:

Covered Court of the Municipal Hall of Aritao, Aritao, Nueva Vizcaya

TIME:



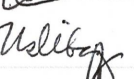


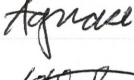
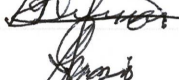


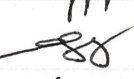





9:00am to 12:00nn

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
1	STANLEY S. SAGAN	M	LGU - CANABUAN	THINK	0997580768		36.4
2	MARCILANO P. ALTA	M	LGU. CANABUAN	DRIVER			36.4
3	AQUINO Y. CARAMAT JR. M		LGU. SANTA	FE NA	0905226277		36.4
4	FAUSTO B. BANGAO		LGU SANTA	FE MD	09367006656		36.4
5	Myra Basan	F	" Canabuan	kgard	067724554		36.5
6	LEONIDA M. VILORIA	F	LGU - Canabuan	kgard	09364503188		
7	Berita F. Seguritan	F	BLGU Canabuan	THINK	09473150416		
8	Regina P. Balingay	F	BLGU Canabuan	B. Sec.	01675534656		36.5
9	Emilia C. Ret-ay	F	BLGU Canabuan	B. treasurer			36.7
10	Carmelita M. Pugstang	F	NGO Canabuan	CIS Pres.			36.7
11	Renzaldo J. Pagsang	M	BLGU Canabuan	P.B			36.0
12	JOHNNY B. SELGA		BLGU Canabuan	Brgy. kgud.			36.5
13	Alberto A. Espalido Jr.	M	BLGU Canabuan	Brgy. kgud			
14	LEY B. DUCASO		BLGU Canabuan	BK			36.5

ATTENDANCE SHEET

PROJECT NAME:



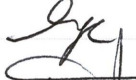






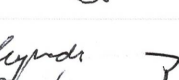
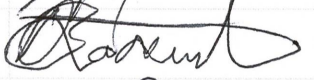




Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
15	Tolentino V. Amlos		Canabuan staff	SC. Pres.			36.5
16	Arturo N. Lencro		canabuan staff	SC. Vice Pres.			35.5
17	Nelia S. Libag		Canabuan Santa Fe	Brgy. Head			36.5
18	NOE S. Limayon		CANAREM	SK. CHAIRMAN			
19	MANRIC O. GAYNAT		CANAREM	P.B.			36.4
20	TOPIC D. AGAPAY	M	CANAREM	Brgy. Head.			36.6
21	Dennis A. Dela Cruz	M	"	"			36.7
22	Alejandro W. Ignacio	M	CANAREM	"			36.6
23	Ben M. Alarcon	M	Canabuan	"			36.5
24	GILBERT TUGGUR	M	CANABUAN	Brgy. - LC.			53
25	Ronel Bulan	Male	DPWH PNCI UPMD	ENGR - III	09057128737		36.6
26	ROD MICHAEL L. DACANAY	M	"	ENGR - II	09664009813		36.3
27	ALEX P. LUCAS		CANABUAN	IPMR			
28	WILTON SIMPSON	M	CANAREM	Brgy. Kag.	09955484526		36.4
29	JOY A. JARLEY	M	CANAREM	MEMO	09157400300		36.6

ATTENDANCE SHEET

PROJECT NAME:


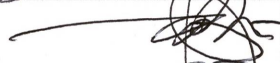


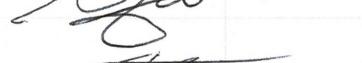










Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
30	BILL PONCE	M	DPWH-RMC I (B)	Proj. Eng.	09194328162		36.3
31	MARKO DEL ROSARIO	M	DPWH - RMC I (B)	ENGINEER - II	09957690730		36.3
32	ERIKA ROMERO	F	EMB - CO	ADM. I	-		36.6
33	Leonard Jose B. Calagui	M	EMB - R02	SEMS	09978628134		36.6
34	ALFRED A. BAYSA	M	LEO - Aritao/MPD	QC-MPD	0915782024		.
35	ALAN SANTA	M	DENR - DENR OFFICE	DMO-III			35.5
36	BAYANI A. LAROSA	M	LEO - Aritao	IPMR			
37	JOHN L. BALALON	M	P. B/CANABUAN	STA. FE			36.2
38	JOYAN CIO	M	KABAWAD	STA. FE			36.6
39	MARIBEL H. DE VERA	F	BRCN. KGWD. CANABUAN	STA. FE			36.6
40	SAULO D. ESPADA	M	CANABUAN	II			36.3
41	DOMINGO BALASUIT	M	CHEPTAN CANABUAN	II			36.3
42	JUVY T. CARGANILLA	F	MPDO Aritao	POI			36.3
43	Kassandra Vinaya	F	DENR - MCB R2	SRS II			36.3
44	Bianca Fortunat	F	DENR - MCB R2	SRS II			36.5

ATTENDANCE SHEET

PROJECT NAME:







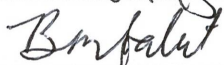


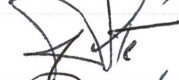


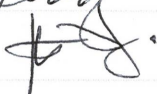
Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
45	ELY D. CADANG	M	DENR CENTRO ANITAD	SAENS	09277932930		36.6
46	JOHN D. SIMFON	M	LGU, SANTA FE	MEMRO	09275480940		36.6
47	Philip S. Atman	M	BLGU CANABUAN	SR chairman	09558417762		
48	NAUI R. BENITO	M	PAFC CANABUAN				
49	JOSE E. INWAY	M	BRGY - KACAWAN	CANABUAN			
50	Romeo B. Escalona	M	BLGU Canabuan	B. K			
51	MARVIN A. ROSALES	F	MCB- ROZ	Trg Code			36.5
52	Aida Merchie Furaggonan	F	MCB- ROZ	BOII			36.7
53	LEON CUSIPAL	M	MCB- ROZ	DRIVER			36.5
54	JIAN OGGANG	F	MCB ROZ	C/SRE II			36.5
55	CAROL RUMBANA	F	GIP LGU-AMTAD	GIR			36.5
56	JOEL POLINAN	M	EMB CD	ENERG II			
57	LORENTO H. BALASUT	M	BRGY. LGWD. Canabuan	STA. FE			
58	Marissa D. Bayan	F	BHW CANABUAN	STA. FE	BHW		
59	Dominga P. Baguisi	F	Brgy. Canabuan	STA. FE	BHW		

ATTENDANCE SHEET

PROJECT NAME:



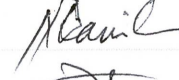
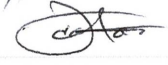
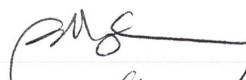
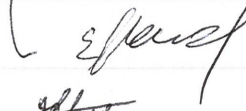



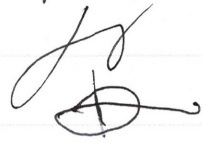
Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
60	REYNA LYN L. MAYLAS	F	LGU - ARITAO	PESO MANAGER	0917955581		
61	ARMAN H. ARVENO	M	PLGU CANABUAN STAFF	PRGY			
62	LEO F. ANCIWAN	M	"	Canabuan STAFF			
63	Cresencia S. Pigao	M					
64	VERGILIO VALDERAMA JR	M	MLGU STAFF	OK-MLEO			
65	EDDIE B. CARAMAT Jr.	MALE	LGU SANTA FE	SB MEMBER			
66	LANGLEY B. BANTISTA	MALE	LGU SANTA FE	S-B MEMBER			
67	Byron M. Balut	Male	MENRO LGU Aritao	AA-II			
68	Remigio B. De Guzman	male	Agriculture / LGU Aritao	AEU			
69	FERNANDO F. CALIPTRIO	MALE	STAFF				
70	TITO TANGILIC	M	FGU - NV	ENRO			
71	EDGARDO D. SAMAON	M	DLGU - TIU	PROJ			
72	JESSIE T. TANGILIC		FMBS CO				
73	DELMAS, CRISPIN Jr		BLGU BET	P. B.			
74	Kennedy B. BALUYAN JR. M		LGU - STAFF	MPDC	09310813458		

ATTENDANCE SHEET

PROJECT NAME:

Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
75	JERRY A. TAN	M	PEO	Asst. Phil. Engr.			
76	J. Datas	M	TRP STAFF	TRP STAFF			
77	Mobe O. Daniel		Canarerm	Brig kmd			
78	JOY B. CALAPDE	M	Ban hnan	P-P			
79	STEFAN MATEAUE	M	LCI	EIA PREPARER			
80	Edwin B. Flores	M	IP Canabuan	IP			
81	Feliza C. Flores	F	IP Canabuan	IP			
82	JOMA LIM	M	LCI	EIA TEAM LEAD			
83	JEROME LEAND	M	LCI	EIA TEAM MEMBER			
84	ADOR BAVISTA	M	LCI	ADMIN ASST.			
85							
86							
87							
88							
89							

PROPOSER:



Department of Public Works and Highways

ATTENDANCE SHEET

EIA

PREPARER:



LCI ENVI CORPORATION

PROJECT NAME:

Proposed Dalton Pass East Alignment Road Project

ACTIVITY: Public Hearing

VENUE:

PAG-ASA Gymnasium of the Municipal Hall of Carranglan, Carranglan, Nueva Ecija

DATE: 4 May 2023 (Thursday)

TIME:

9:00am to 12:00nn

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
1	Andres P. Bucasan	M	Salazar	P Brgy.			
2	Sandy A. Cuervo	M	"	KGD			
3	Marina A. Ascaj	F	"	"			
4	Nobres Dumlao	M	"	"			
5	Simon G. Cuervo	M	"	"			
6	Abrillo Bitgan	M	"	"			
7	Abraham Vicente	M	"	"			
8	Robenson Alipio	M	"	"			
9	Unes Gaynat	F	Salazar	sk chair	0956 20 70741		
10	susana Guinling	F	"	IP leader	0967 510 7150		
11	Guillermo Lina	M	"	Prgr. Tanod			
12	Dominador Erenez	M	"	Residente			
13	Jimmy Bucasan	M	"	"			
14	Rose Bucasan	F	"	BITW	0906 7283797		

PROPOSER:



Department of Public Works and Highways

ATTENDANCE SHEET

EIA

PREPARED:



LCI ENVI CORPORATION

PROJECT NAME:

Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
15	Analiza G. Inway	F	Brgy Salazar	BHW	09656316869	<i>Analiza</i>	
16	Sundy Q. Luna	M	II	IPMR		<i>Sundy</i>	
17	Betty Baskial	F	II	BHW		<i>Baskial</i>	
18	Jackily Acosta	M	II	BRGY. TANOD		<i>Jackily</i>	
19	Mersa Baskial	F	II	Senior IPS		<i>Mersa</i>	
20	Dalmo B. Pasiteng	M	II	Brgy. Treas		<i>Dalmo</i>	
21	Decino B. Baskial	M	II	member		<i>Decino</i>	
22	Elvira P. Jodan		II	BHW		<i>Elvira</i>	
23	Joie Nantes	m	PGNE-ENRO	EMS I	0905-558-4895	<i>Joie</i>	36.3
24	JOSE A. JAVIER	M	EIA KAEV Com	member	09155400300	<i>Jose</i>	36.5
25	ERIKA PONERO	F	EMB- CO	ATTY I	-	<i>Erika</i>	36.5
26	JOEL POLINTAN	M	EMB CO	ENGR III		<i>Joel</i>	
27	Rommel Barolo	M	EMB R3			<i>Rommel</i>	
28	LEOPOLDO VALDEZ	M	BUNGA	TANOD	09753179652	<i>Valdez</i>	36.5
29	JAMES BAPTISTA	M	BUNGA	TANOD		<i>James</i>	36.4

PROPOSER:



Department of Public Works and Highways

ATTENDANCE SHEET

EIA

PREPARER:



LCI ENVI CORPORATION

PROJECT NAME:

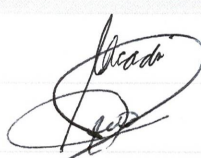
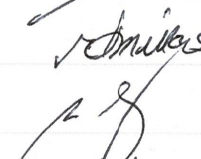
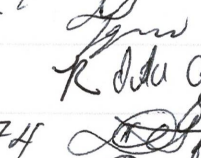
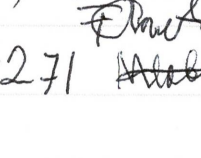
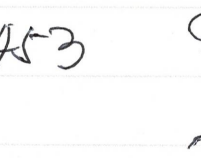
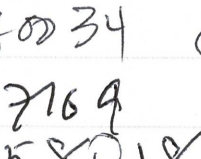
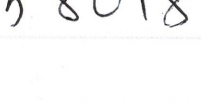

Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
30	BILL PONCE	M	DPWH - RMC1(B) - UPMB	Proj. Engr.	0919438163		
31	Ronel Bulan	M	DPWH RMC1(B) - UPMD	Engineer III	09055128732		
32	FRANIELLA MAR R. DEL MUNDO	F	DPWH - ESSD PS	EMS - II	304-3267		
33	ROD MICHAEL L. DACANAY	M	DPWH - RMC1(B) - UPMD	ENGR II			
34	MARKO DEL ROSARIO	M	DPWH - RMC1(B) - UPMD	ENGR II	09957090730		
35	VICTORIA EMERY RAMOS	F	DENR - EMB R3	EMS II	(045) 963 3623		
36	KRIZIA LOREN E. TUMALAN	F	DENR - EMB R III	EMS II			
37	BENJAMIN G. PASCUA	M	BARANGAY PALAHE	ZONE-II	0926-412-397		
38	ERNESTO AGCAOILI		BARANGAY BUNGA TANGI				
39	XXXXXXXXXXXXXXXXXXXX		LGU - CANA	Z/	09975380965		
40	BERNARDO C. DE GUZMAN	M	LGU - ORRANGKAW	M.E.	09178609275		
41	Lomardo C. Ubasco, Jr	M	DENR CENTRO MUNDO / DENR PAMB PUNIP		0927 1757870		
42	MANNY G. CUEVA	M	BRGY Burgos	IPMR.	09976994182		
43	Shirley L. Gonzales	F	BRGY Burgos	elders	09677506519		
44	JOSE MARIE E. MAREB SR		BRGY. BURGOS	BRGY. TREAS.	09062324803		

ATTENDANCE SHEET

PROJECT NAME:

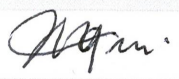




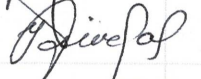
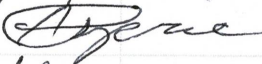
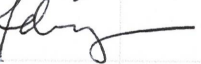



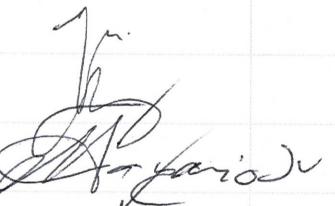
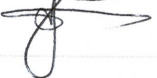
Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
45	CHARISSE ANNE BACAR	F	MUN. HEALTH OFFICE	SI II	09312098327		
46	CANTOS M. TEDORO	M	P.B. Brgy Pungay		09353027226		
47	RENEGIO D. MILLARES	M	CHIEF TANOD BURGAS				
48	Basilio N. Luning		Kagawad		09367957505		
49	LORADIS D. LAPORER	F	Kagawad		09262870015		
50	RONOLD B. del Oro		TANOD				
51	Lolita C. Almude		Bungu		09357626174		
52	Freddie E. Almude		Bungu		09365087271		
53	Margarita R. Tabares		Bungu				
54	MARICEL L. AGCAOILI		Brgy Buncal		09757211453		
55	EFREN P. AGCAOILI		Pungay				
56	Maraal Delmar		Salazar		89262870034		
57	KING ALFONSO		TL PADILLA		09051467169		
58	RONALD LOMBO		LGU		09366558018		
59	ROGELIO ABAD		M-MAYOR'S				

ATTENDANCE SHEET

PROJECT NAME:

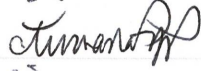



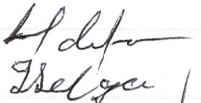
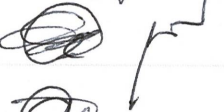
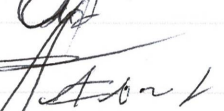
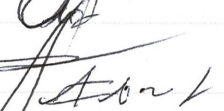
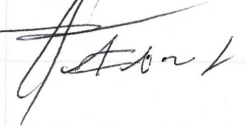
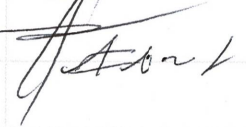
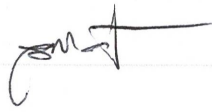
Proposed Dalton Pass East Alignment Road Project

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60	MARIO ASUNCION		BURGOS	ZON-LEADER	09161495796		
61	ESPINO D. BAGSIC		BURGOS	ZONE LEADER	0975212266		35.00
62	Willie G. Gayta		Bunga	TANOD	0965544581		36.6
63	Micari P. Andres		Burgos	Pyg. Kgw	09658991817		36.4
64	RENO C. ARDAYA		Bunga	Kgg.	09169313626		
65	FAUSTINO G. NATIVIDAD		BUNGA	P. B	09269539478		
66	Gulferdie Asptic		Bunga	TANOD	09061056906		
67	Idona I. Pura		Burgos	Dist. Sec.	09955771906		
68	CHRISTOPHER C. ANTONIO		MEMRO	MEMRO	09178971077		
69	MELVIN D. MARAYAG		DENR-PEMPO DE	SVETUS	09866714330		
70	Daniel John D. Pambolan		DENR PEMPO N-E	PADM Foca	09272463433		
71	Eanna Dhariz Poad						
72	Mary Rose L. Dela Cruz						
73	MARCELINO G SAGALMO		SI NCIP-NEPO	TRA 1	09069352810		
74	Henry B. Tanjaba		NCIP - NEPO	DMO 1	09955638094		

ATTENDANCE SHEET

PROJECT NAME:

Proposed Dalton Pass East Alignment Road Project

NO.	NAME	GENDER	BARANGAY/ ORGANIZATION/ GROUP	POSITION	CONTACT NO.	SIGNATURE	TEMP. (°C)
75	DYAN P. TUMAMAO-ANDRADA		NCIP NEPO				
76	Jenny Lyn L. Tipayan	F	NCIP NEPO				
77	SOMRAB JOHN P. PECO	M	NCIP - NEPO	ADA IV			
78	AQUILINO B. SIEMAN	M	Brgy. SALAZAR	KGWD	09262970019		
79	VALERIA S. DELICORADO	M	Brgy. SALAZAR	KGWD			
80	Donat A. Selga	M	Brgy. SALAZAR	KGWD			
81	Wilfred T. de Leon	M	PONE-PRO				
82	Gilbert A. Domingo	M	PONE-PRO		09996628311		
83	ERWIN M. OTIC	M	PONE-PRO				
84	Apolonio SEMBRAN		PUNCAN	U.K.C.			
85	JOMALIM	M	LCI	EIA TR			
86	BRYAN WALANTE	M	"	EIA MEMBER			
87	JEROME LEAÑO	M	"	"			
88	ADOL BAUTISTA	M	"	"			
89							

ATTACHMENT 4

PUBLIC HEARING PRESENTATION

PROPOSED DALTON PASS EAST ALIGNMENT PROJECT
Provinces of Nueva Vizcaya & Nueva Ecija



Department of Public Works and Highways
Dalton Pass East Alignment Road Project



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PUBLIC HEARING PARA SA NUEVA VIZCAYA

Dalton Pass East Alignment Road Project


3 Mayo 2023 (Miyerkules) | 9:00 – 12:00 ng tanghali
| Covered Court of the Municipal Hall of Aritao,
Aritao, Nueva Vizcaya



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Mga Panuntunan at Ilang Paalala

- Tiyakin na ang lahat ng kalahok ay nakapag-tala sa **attendance sheet**.
- Mangyaring sundin ang **social distancing** at magsuot ng **face mask** sa lahat ng oras.
- Magkakaroon ng **open forum** kung saan sasagutin ang mga ng katanungan ng mga kalahok.
- Inaabisuhan ang lahat na ang pag-pupulong ay **recorded**.
- Ang **pag-record** ay para lamang sa mga layunin ng dokumentasyon at hindi ibabahagi ng **DPWH** o **DENR** sa sinuman nang walang paunang pahintulot.

2



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INBOKASYON

Dalton Pass East Alignment Road Project



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PAG-AWIT NG LUPANG HINIRANG


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PAGPAPAKILALA SA MGA NAGSIPAGDALO



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PAUNANG PAGBATI
Karlo Marco Ordonez
Executive Assistant, Aritao LGU



Dalton Pass East Alignment Road Project

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MENSAHE
Aquino Caramat
Municipal Administrator, Santa Fe LGU




Dalton Pass East Alignment Road Project


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Dalton Pass East Alignment Road Project



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Programa para sa Public Hearing

8:30 - 9:00	Rehistrasyon	LCI Envi Corporation
9:00 - 9:30	Pagbubukas na mga Gawain <ul style="list-style-type: none"> ▪ Inbokasyon ▪ Pag-awit ng Lupang Hinirang ▪ Pagpapakilala sa mga Nagsipagdalo ▪ Paunang Pagbati <ul style="list-style-type: none"> ▪ Mensahe 	LCI Envi Corporation Mr. Karlo Marco Ordonez Executive Assistant, Aritao LGU Mr. Aquino Caramat Municipal Administrator, Santa Fe LGU
9:30 - 9:45	Introduksyon sa Public Hearing	Engr. Joel Polintan Case Handler, DENR-EMB
9:45 - 10:45	Presentasyon ng Proyekto <ul style="list-style-type: none"> ▪ Pagpapakilala sa Proyekto ▪ Resulta ng EIA 	LCI Envi Corporation
10:45 - 11:45	Malayang Talakayan	Atty. Erika Romero Public Hearing Officer, DENR-EMB
11:45 - 12:00	Summary ng Mga Inihayag na Issues at Concerns, Susunod na Hakbangin, at Panghuling Mensahe	Engr. Joel Polintan Case Handler, DENR-EMB Engr. Bill Ponce Project Engineer, DPWH

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Dalton Pass East Alignment Road Project



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INTRODUKSYON SA PUBLIC HEARING
Engr. Joel Polintan
Case Handler, DENR-EMB



Dalton Pass East Alignment Road Project

9

THE PHILIPPINE EIS SYSTEM

ElAM Division
Environmental Management Bureau (EMB)





10

Section 4 of P.D. 1586

No person, partnership or corporation shall undertake or operate any such declared environmentally critical project or area without first securing an Environmental Compliance Certificate (ECC)



11

Ano ang ECC?

**Environmental
Compliance Certificate**

Naka-comply ang proponent
sa requirements ng EIS
System



12

Ano ang ECC?

**Environmental
Compliance Certificate**

Nag commit ang proponent
na ipapatupad nila ang
Environmental Management
Plan

13

Ano ang ECC?

**Environmental
Compliance Certificate**

Conditions na dapat sundin
ng proponent

14

Ano ang EIA?

Environmental Impact Assessment

- Pagplano sa isang proyekto para makita kung ang nasabing proyekto ay mabuti ba sa kalikasan at sa mga taong nakatira sa lugar na pagtatayuan nito
- Paglikha ng mga dapat na hakbang para isama sa disenyo ng proyekto upang ang mga negatibong epekto ay maibsan gamit ang *engineering interventions* at iba pa.



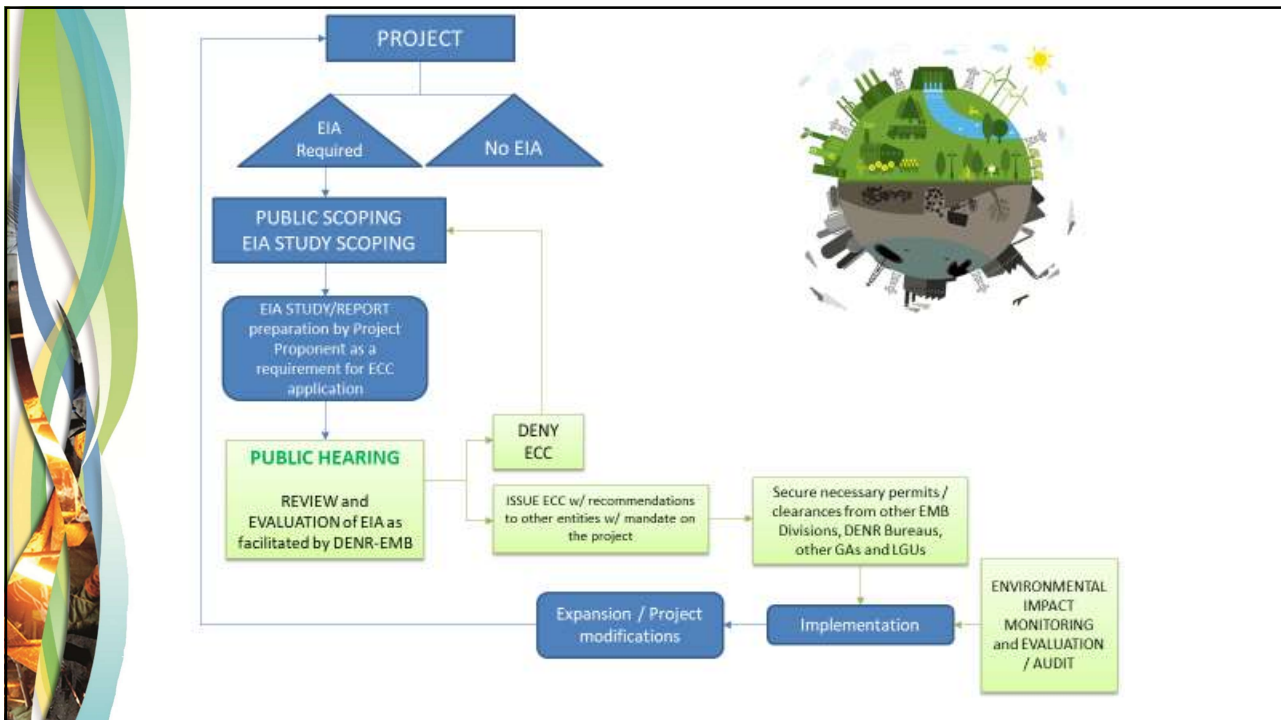
15

Sino-sino ang mag-EIA?

- ✓ Project Proponent (DPWH)
- ✓ EIA Consultant (LCI)
- ✓ DENR-EMB
- ✓ Review Committee
- ✓ Affected communities and other stakeholders



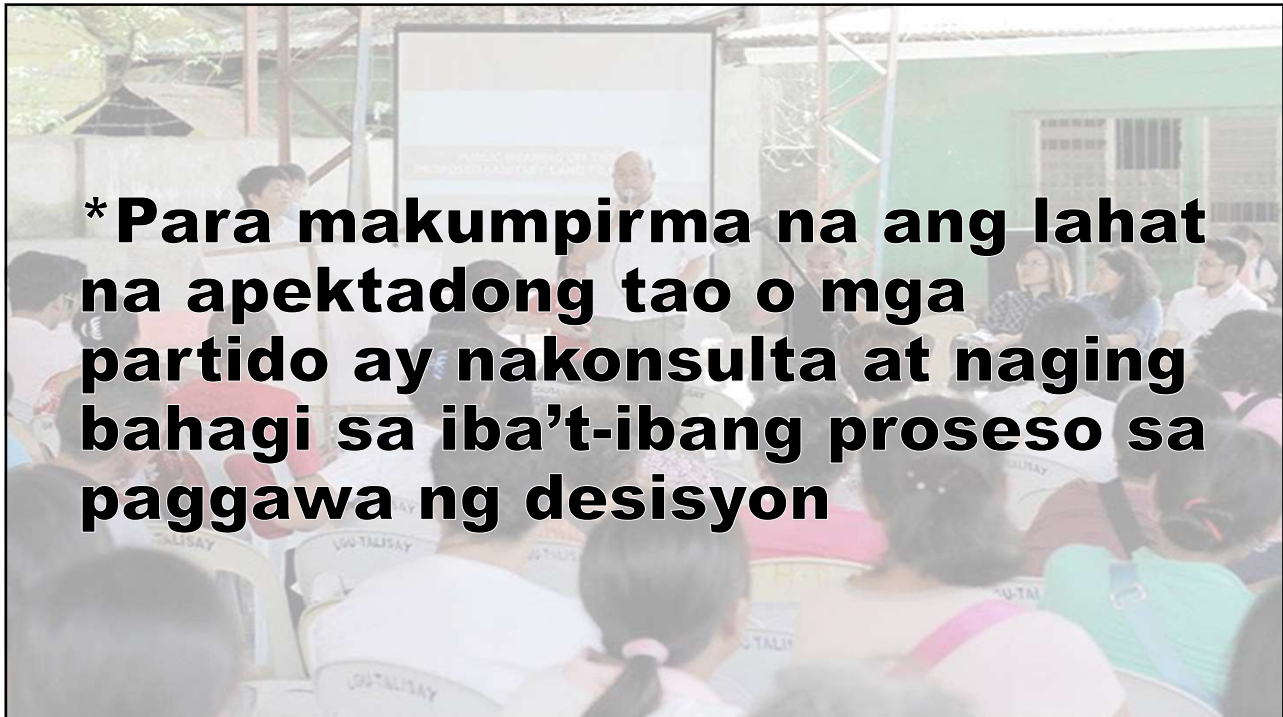
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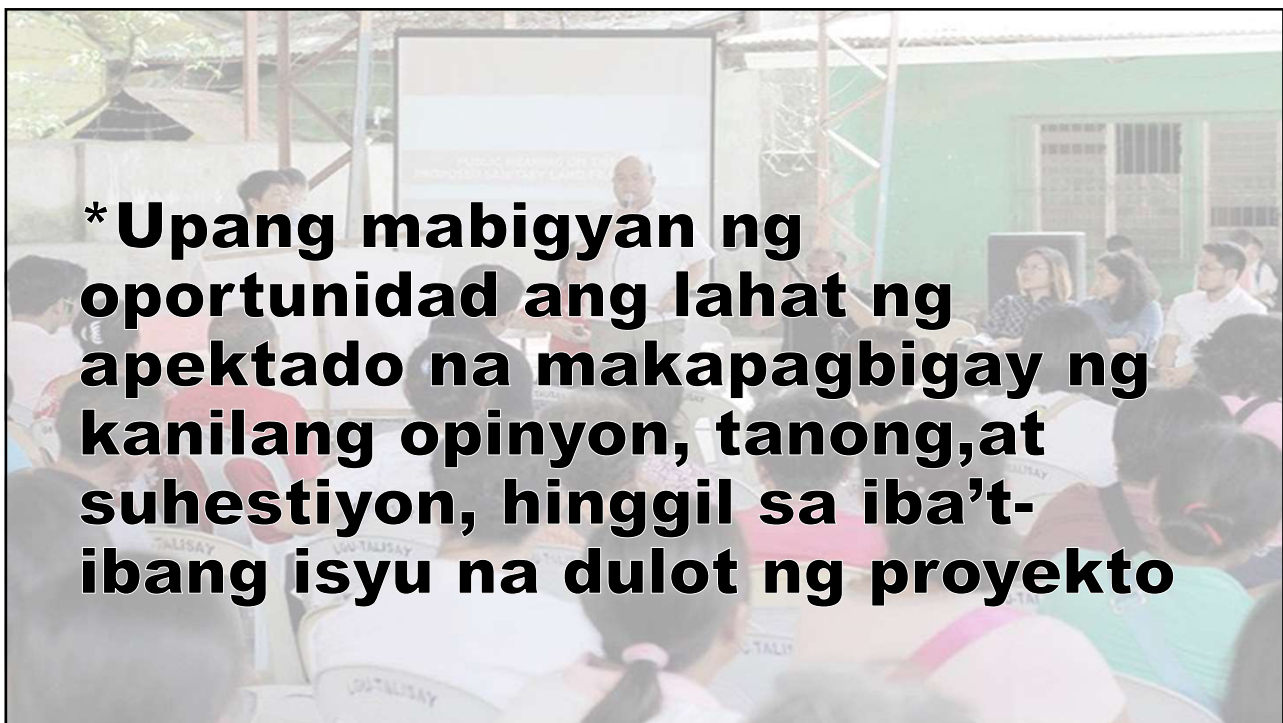
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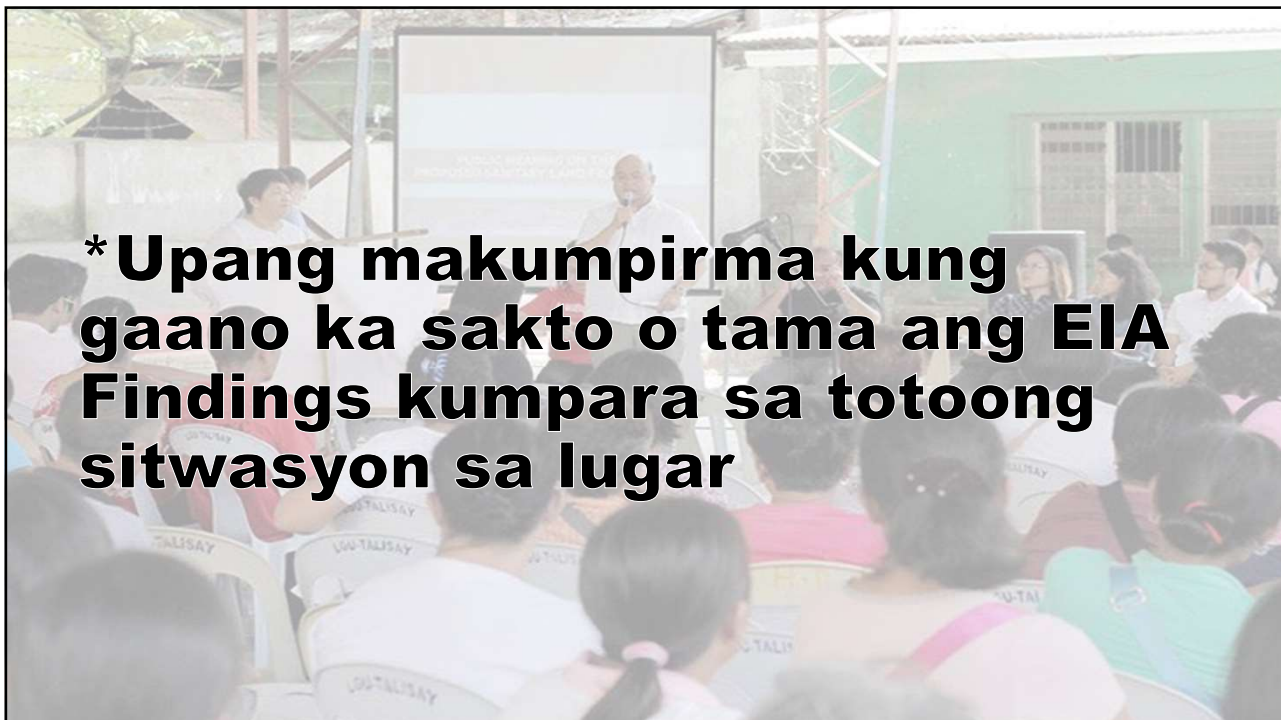
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19



20



***Upang makumpirma kung gaano ka saktong tama ang EIA Findings kumpara sa totoong sitwasyon sa lugar**

21



Ano ang mga gagawin sa PUBLIC HEARING?

22

Ang Proponent



Magpahayag ng mga plano ng proyekto kasama na ang mga environmental na aspeto; at



Pagsagot sa mga agam-agam at katanungan ng mga tao ukol sa isyu ng proyekto

23

Ang Madla



Makinig sa iprepresenta na EIA Report ng proponent



Magtanong ukol sa resulta ng EIA Report



Maghintay na masagot ng proponent ang isyu/concern

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Dalton Pass East Alignment Road Project




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PAGPAPAKILALA SA PROYEKTO


Dalton Pass East Alignment Road Project



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Dalton Pass East Alignment Road Project



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Dalton Pass Road (AH26)

- Ang “**Dalton Pass**” ay isang bahagi ng **Pan-Philippine Highway (PPH)** at isa sa mga **pinakamahalagang trunk road** ng **North-to-South backbone** ng **Philippine Road Network System**.
- Ang nabanggit na bahagi ay matatagpuan sa pagitan ng Barangay Tayabo, San Jose City, Nueva Ecija at Aritao, Nueva Vizcaya ay **kritikal at madalas na sinasara dahil sa landslides (nalalaglag na mga bato at putik)** na siyang nagiging dahilan upang **hindi madaanan ang Dalton Pass**.
- Ang resulta nito ay **kadalasang isolasyon ng Region II (Cagayan Valley Region)** hanggang maisaayos ulit ang nasabing daanan.
- Ayon sa datos, mahigit **600 na mga trak** ang dumadaan sa Dalton Pass araw-araw, dala-dala ang **iba’t ibang produkto** tungong **Metro Manila**.

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Dalton Pass East Alignment Road Project

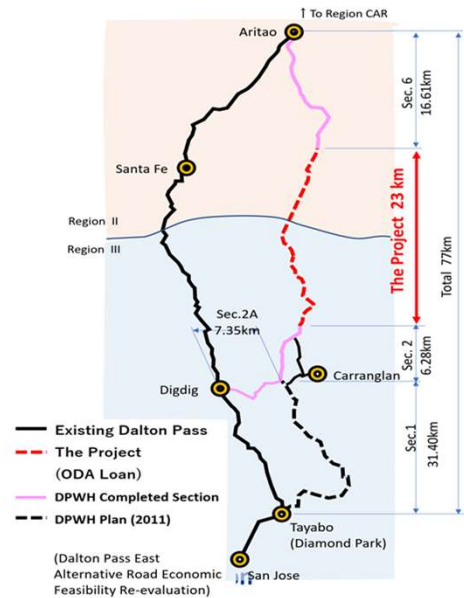


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Dalton Pass East Alignment Road Project (DPEARP)

- Ang **DPWH** ay nakipag-ugnayan sa **Gobyerno ng Japan** para sa pagsasakatuparan ng proyekto dahil sa mga sumusunod na konsiderasyon:

- Masiguro ang tuloy-tuloy at ligtas na konektibidad ng mga Rehiyong II, III, at CAR** para hindi maantala ang daloy ng mga pang-ekonomiya at importanteng aktibidad sa bansa.
- Mabawasan ang natural na hazards at risks kaugnay ng kadalasang pagsasara ng kasalukuyang daanan.** Kasama dito ang pagpapaikli ng detour ng mga motorista kung sakaling may bagyo o lindol.



27



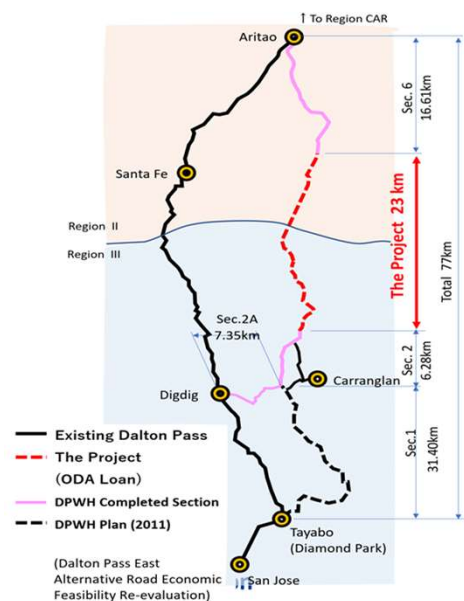
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Layunin ng Proyekto

- Gumawa ng panibago at ligtas na daanan na magdudugtong at magpapadali ng **konektibidad sa Region II at Region III.**
- Ang daanan na ito ay magsisilbing **alternatibong ruta** ng kasalukuyang **Dalton Pass.**



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Dalton Pass East Alignment Road Project



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Pambansang Importansya ng DPEARP (2023)

- Kabilang sa **Memorandum of Cooperation (MOC)** for Technical and Business Cooperation on the Construction and Operation and Maintenance of Road Tunnels and Related Facilities.
- Ang pangunahing rason ng pagpupulong ay upang palawigin ang **kooperasyon, ugnayang pangekonomiya, at pag-angat ng kapasidad** sa pagitan ng **Japan** (Ministry of Land, Infrastructure, Transport, and Tourism) at **Pilipinas** (Department of Public Works and Highways).



Signing of the MOC



High-Level Meeting

29



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Pambansang Importansya ng DPEARP [2023]

- Presidential State Visit ni Pangulong Ferdinand R. Marcos, Jr. sa Japan noong **8-12 Pebrero 2023**.
- **BILATERAL COOPERATION:** Si **Prime Minister Kishida** ay nagpahayag ng kontribusyon ng Japan sa pamamagitan ng ODA at private sector investment upang matulungan ang economic development plan ng Pilipinas, kabilang ang programang **“Build Better More (BBM)”** ng Administrasyong Marcos.



H.E. Ferdinand Marcos Jr. and Prime Minister Fumio Kishida



Summit Meeting

30

Department of Public Works and Highways

Dalton Pass East Alignment Road Project

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Pambansang Importansya ng DPEARP [2023]

- **PRIORITY PROJECTS:** Mga proyektong naaprubahan para sa financial assistance mula sa Japan:
- ✓ **Dalton Pass East Alignment Road Project**
- ✓ Central Mindanao High-Standard Highway
- ✓ Parañaque Spillway Project
- ✓ 2nd San Juanico Bridge
- ✓ Davao City Flood Control Project

Dalton Pass East Alignment Road Project


North Portal of South Tunnel

31




Department of Public Works and Highways

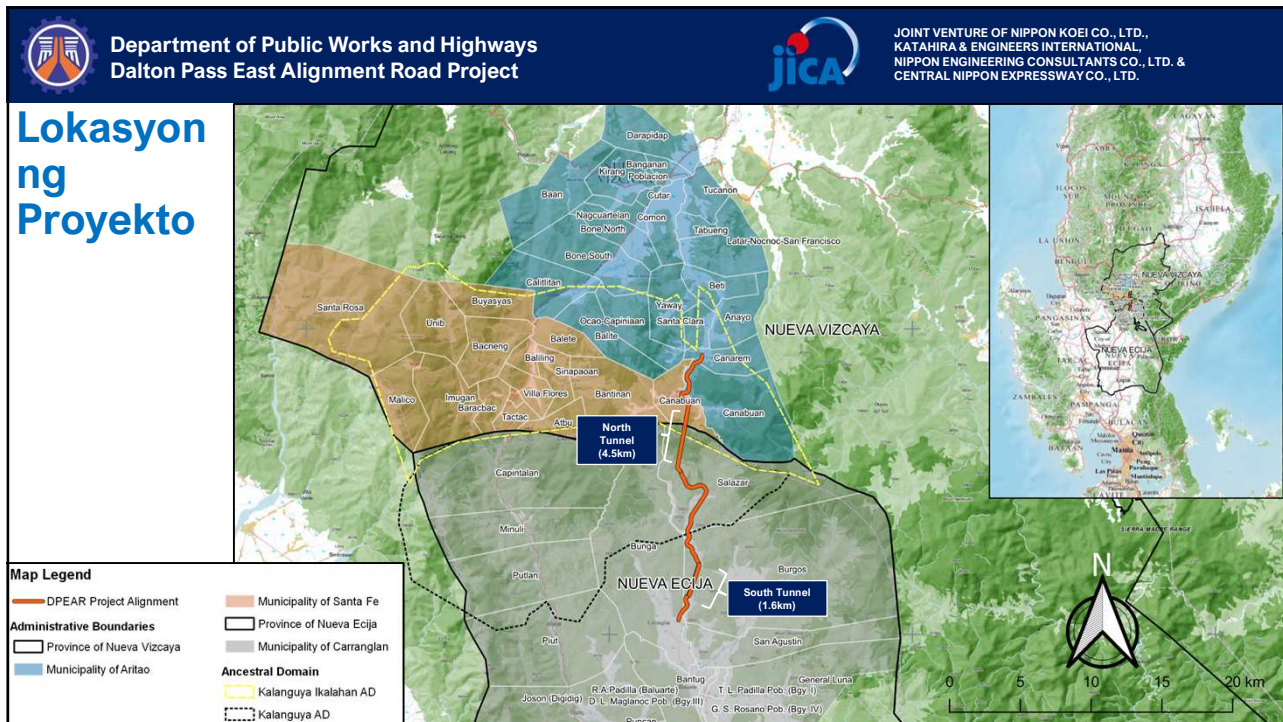
Dalton Pass East Alignment Road Project



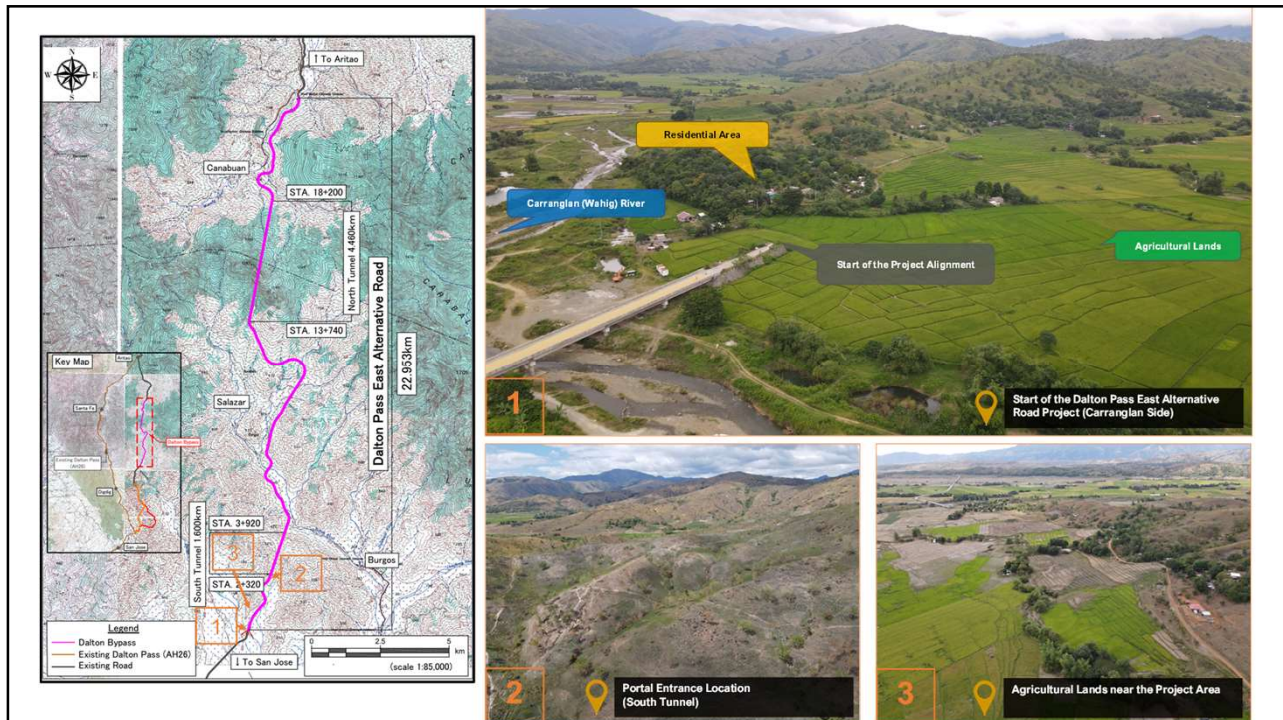
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PANGALAN NG PROYEKTO	Dalton Pass East Alignment Road Project		
URI NG PROYEKTO	Daanan, Tunnel, at Tulay		
LOKASYON	REHIYON/PROB.	MUNISIPALIDAD	BARANGAY
	Region II (Nueva Viscaya)	Aritao	Canabuan Canarem
		Santa Fe	Canabuan
	Region III (Nueva Ecija)	Carranglan	Bunga Burgos Salazar
LAKI NG PROYEKTO AT BAHAGI NITO	Daanan	Kabuuang Kahabaan: ~23 km Linya: 4 Lawak: 60 m road right-of-way Desenyong Bilis: 60 km/hr.	
	Tunnel	Kabuuang Kahahaan: ~6.1 km Haba ng North Tunnel: 4.5 km Haba ng South Tunnel: 1.6 km Mayroong pailaw, bentilasyon, at kagamitang pangkaligtasan (emergencies)	
	Tulay	Kabuuang Bilang: 14 Pantawid sa mga ilog at creeks Mayroong slope protection	
PROPONENT	<div>  <div> <div>Department of Public Works and Highways</div> <div>Roads Management Cluster I (Bilateral)</div> <div>Unified Project Management Office</div> </div> </div> <div> <div>Authorized Representative:</div> <div>Director Benjamin A. Bautista</div> </div>		

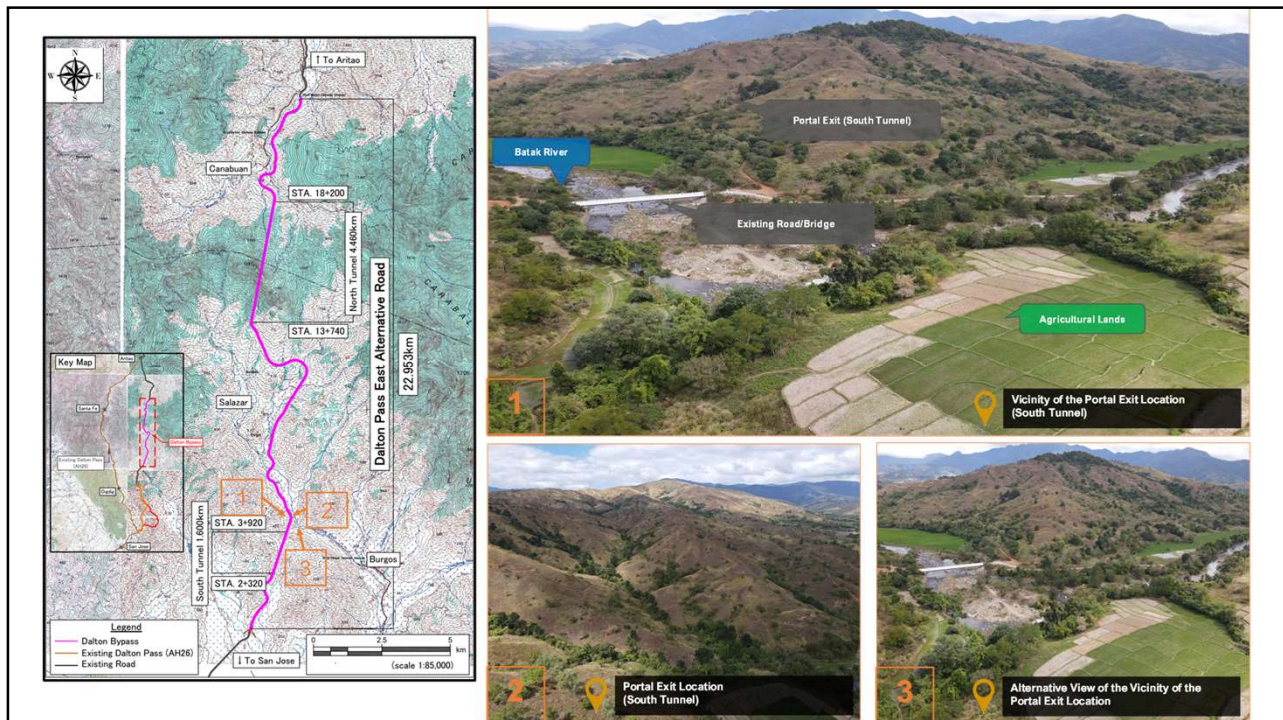
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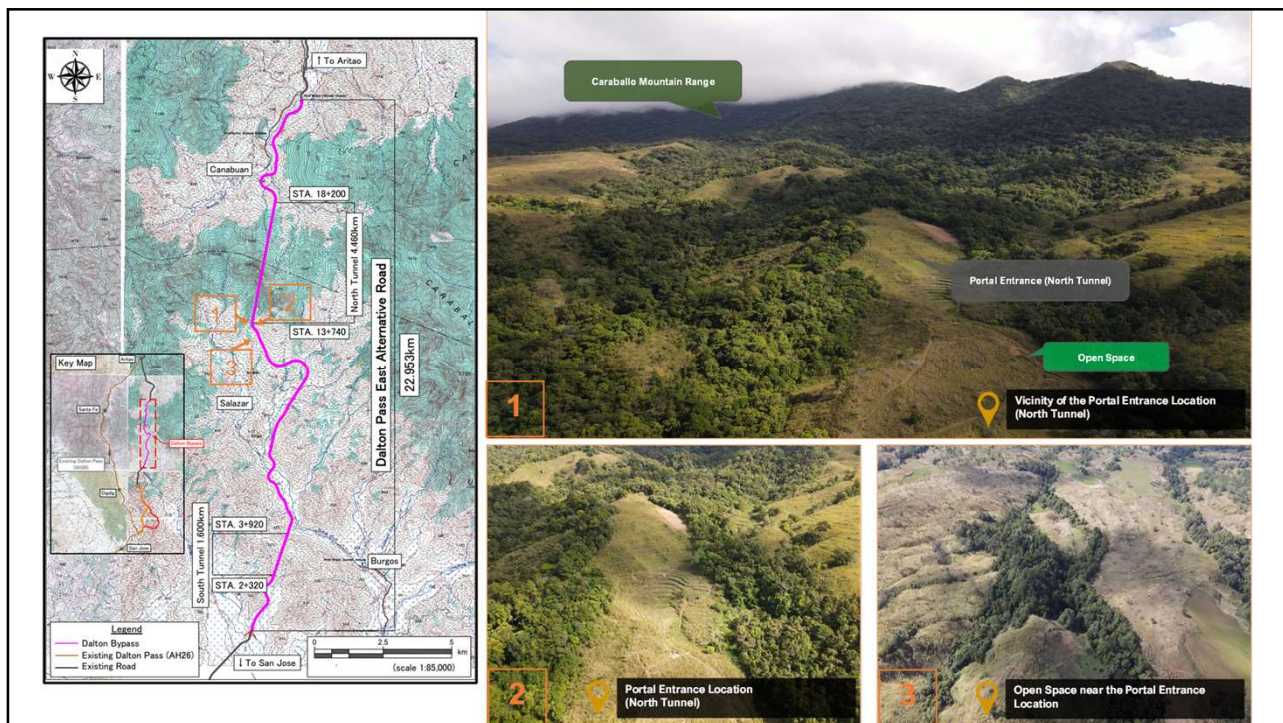
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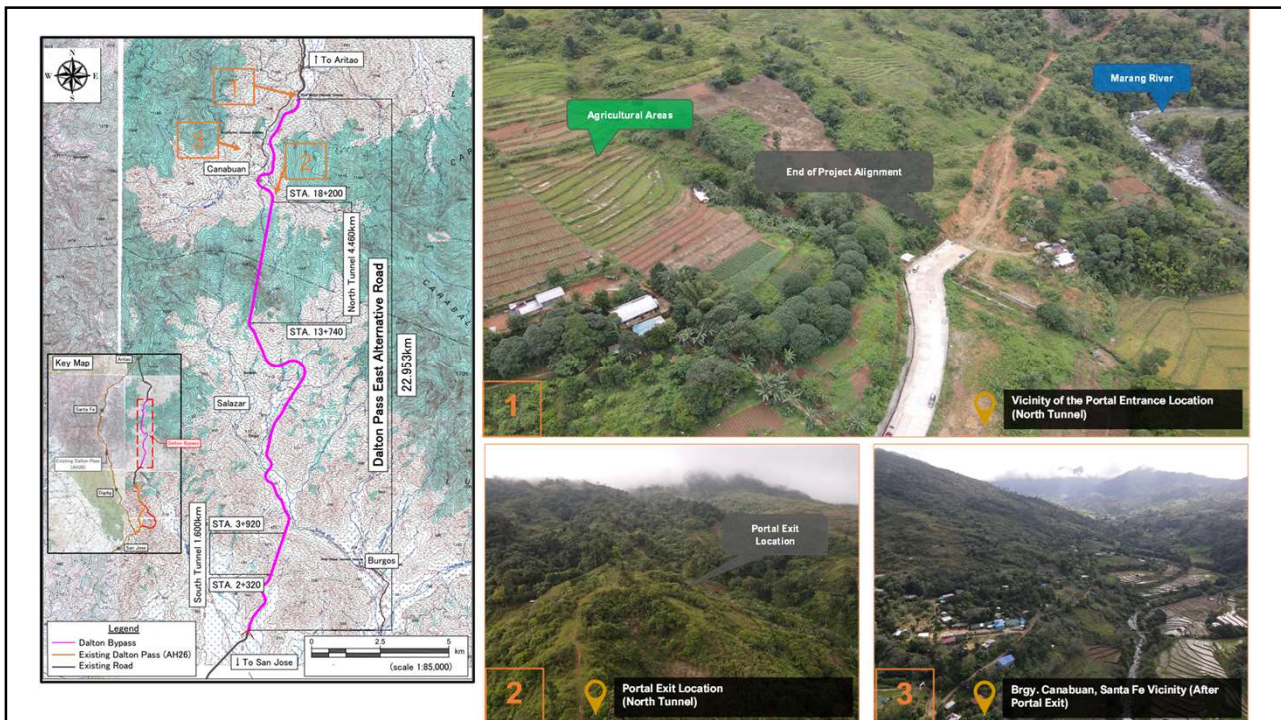
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Katangian ng DPEAR Project

Kabilang sa prayoridad na proyekto ng kasalukuyang Administrasyon

Official Development Assistance (ODA) Project ng Japan International Cooperation Agency (JICA)

Nabuo ang plano ng proyekto upang hindi maulit ang nangyari nuong 1990 Luzon Earthquake

20 beses na mas mahaba ang tunnel kesa sa Kaybiang Tunnel, kasalukuyang pinakamahabang *subterranean road tunnel*, na mayroong haba na 300 metro

Ilang bahagi ng proyekto ay pasok sa Pantabangan-Carranglan Watershed Forest Reserve (PCWFR)

Ilang bahagi ng proyekto ay pasok sa 2 Ancestral Domains (ADs), at nakakuha na ng karampatang permiso (Certification Precondition) sa mga katutubo at NCIP

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PCWFR

- Ang **Pantabangan - Carranglan Watershed Forest Reserve** ay isang protected area ayon sa Presidential Proclamation No. 561 taong 1969.
- Makikita sa mapa na may bahagi ng DPEAR ang papasok sa loob nito (Brgy. Burgos at Brgy. Salazar).
- Ang DPWH ay tuloy-tuloy na nakikipagugnayan sa DENR, PENRO/CENRO at PAMB para sa nasabing proyekto

PANTABANGAN-CARRANGLAN WATERSHED FOREST RESERVE

LEGEND

- DPEAR Alignment
- DPEAR ROW
- Pantabangan-Carranglan Watershed Forest Reserve
- Barangay Canabuan (Santa Fe)
- Barangay Canabuan (Antao)
- Barangay Salazar
- Barangay Burgos
- Barangay Canarem

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Ancestral Domains

- Malaking bahagi ng DPEAR ay saklaw ng Ancestral Domains (AD) ng mga katutubo sa Nueva Ecija at Nueva Vizcaya.
- Nagkaroon ng pakikipagugnayan at kasunduan ang DPWH, kasama ang NCIP, sa mga katutubo sa pamamagitan ng pagsasagawa ng Free and Prior Informed Consent (FPIC) ayon sa RA No. 8371 o IPRA Law.

ANCESTRAL DOMAINS

LEGEND

- DPEAR Alignment
- DPEAR ROW
- Pantabangan-Carranglan Watershed Forest Reserve
- Kalanguya Ikalahan Ancestral Domain (RII)
- Kalanguya Ancestral Domain (RIII)
- Barangay Canabuan (Santa Fe)
- Barangay Canabuan (Antao)
- Barangay Salazar
- Barangay Burgos
- Barangay Canarem

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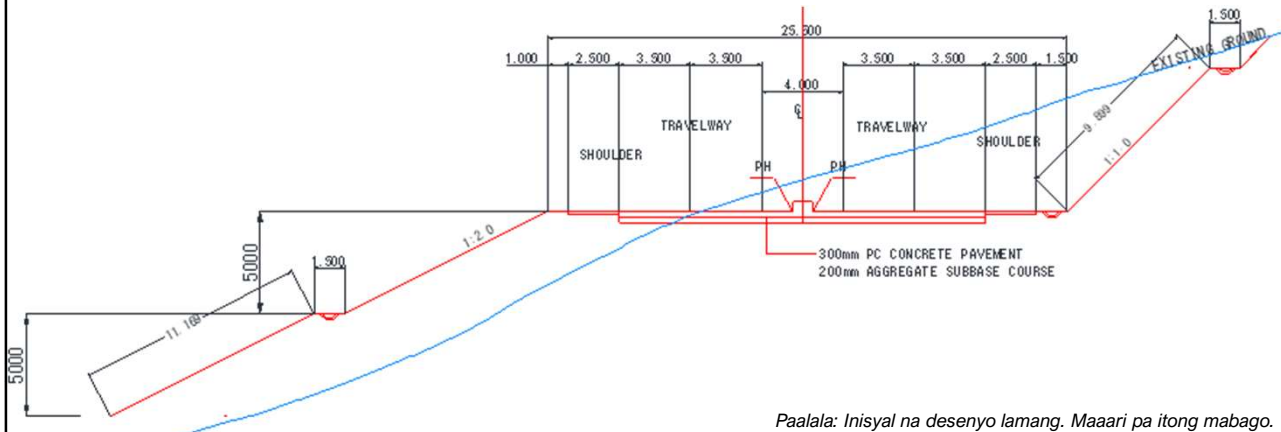
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Kalsada o Daanan

- Ang disenyo ay nakabase sa DPWH Design Guidelines, Criteria & Standards (DGCS), 2015.
- 4 na linya ang kalsadang gagawin.
- Disenyo para sa bilis ng mga sasakyan: **60 km/hr.**



Paalala: Inisyal na disenyo lamang. Maaari pa itong mabago.

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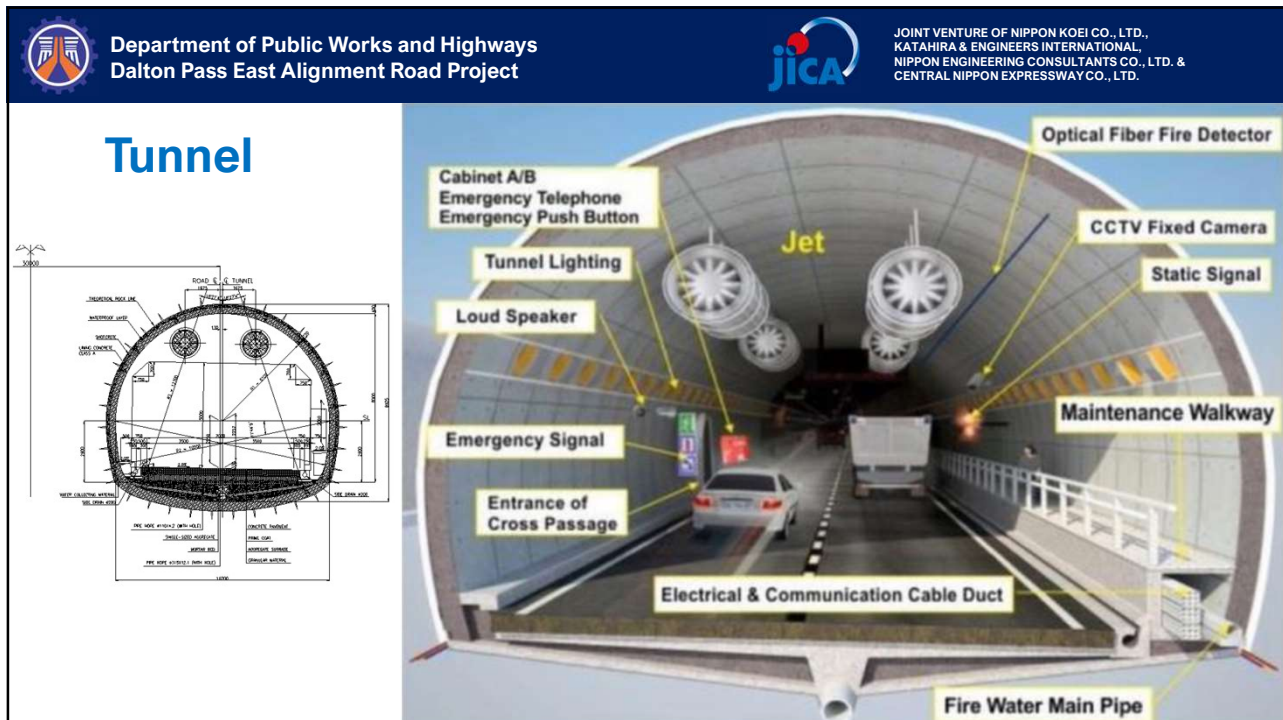
Tunnel

No.	Item	Description	Standard
1	Traffic and Number of tunnel tube	1 main tunnel of 2-way traffic and 1 evacuation tunnel.	Road Structure Ordinance (JP)
3	Lane width	3.35m	DGCS: Vol. 4 2015
4	Vertical clearance	5.0 m	DGCS: Vol. 4 2015, P. 3-81
5	Width of shoulder	1.25 m	DGCS: Vol. 4 2015, P. 3-65
6	Width of sidewalk	0.50 m	DGCS: Vol. 4 2015, P. 3-81
7	Width of maintenance walk	0.75 m	NEXCO standard
8	Height of maintenance walk	0.90 m	NEXCO standard
9	Maximum gradient	3.0%	Road Structure Ordinance (JP) 2004
10	Minimum gradient	0.5%	Road Structure Ordinance (JP) 2015
11	Vertical clearance of maintenance walk	2.00 m	NEXCO standard
12	Interval of emergency crossing passage for vehicle	375 m	Technical Standard for Road Tunnel (Structure Division)
13	Interval of emergency crossing passage for vehicle	750 m	Technical Standard for Road Tunnel (Structure Division)
14	Interval of emergency parking lane	375 m	Technical Standard for Road Tunnel (Structure Division)
15	Ventilation	Mechanical Jet-fan	Technical Standard for Road Tunnel (Ventilation Division)

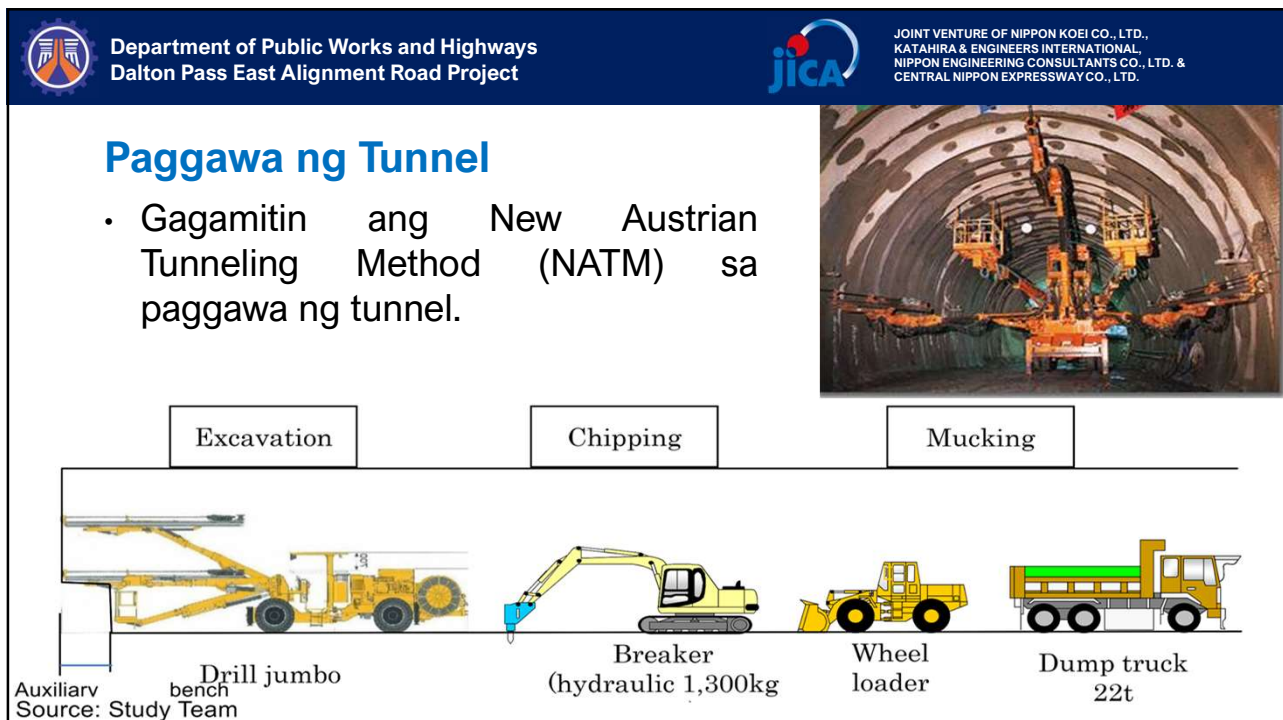
Source: JICA Study Team

Type	Wall Type
Item	Wing Type
Shape	
Overview	Planned as an earth retaining wall by cutting the ground. Economical because tunnel length can be shortened. Adopted for most railway tunnels.
Ground conditions appropriate for application	- Comparatively steep topographic features where ground will be cut and portal will be constructed - Where an earth retaining wall or enlarged retaining wall will be constructed for an oblique type slope.
Meteorological conditions appropriate for application	- Few problems even when used in snowy areas.

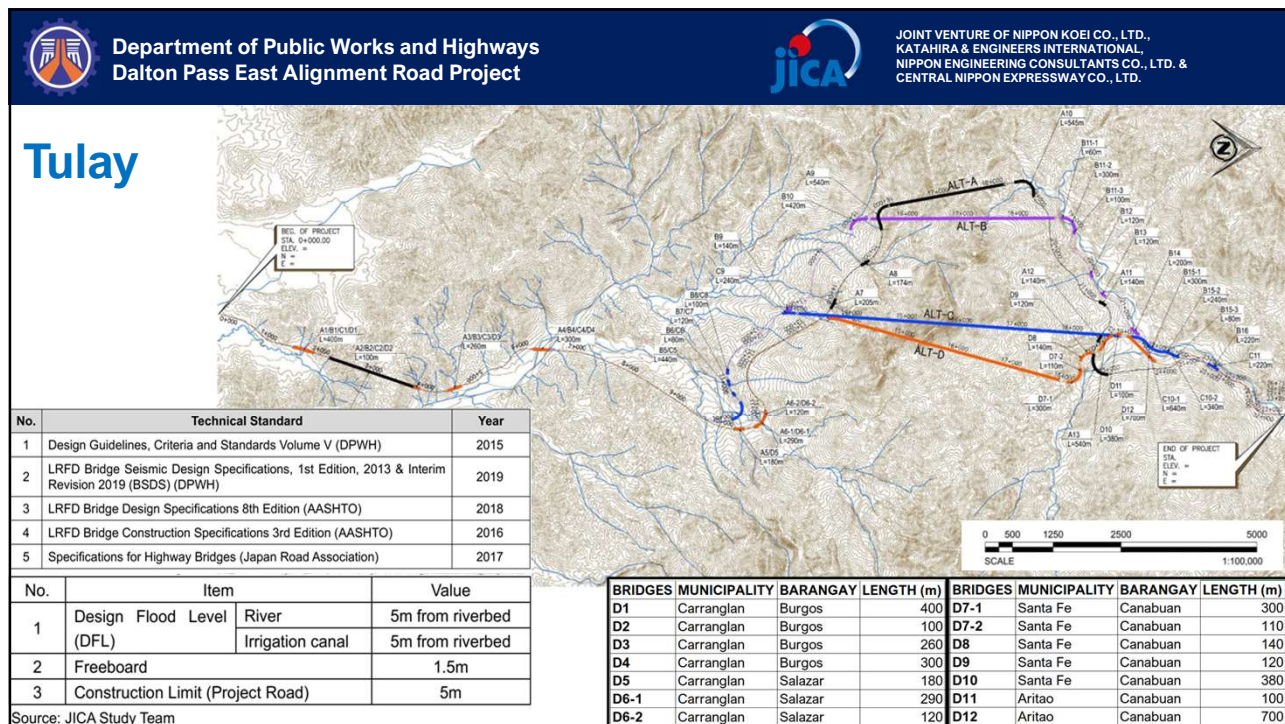
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Project Utilities

Water Supply	<p>Ang tubig na kakailanganin at gagamitin ng proyeto ay kukunin mula sa lokal na water supply sa lugar na kinabibilangan ng proyeto.</p> <p>Kinokonsidera din ang paggamit ng water sources kagaya ng spring water, groundwater, rainwater, at iba pa.</p>
Power Supply	<p>Ang kakailanganang power supply ay kukunin mula sa lokal na power supply utility na mayroon sa lugar (NUVELCO at NEECO II).</p> <p>Sa mga bahagi ng proyeto na hindi sakop ng linya ng kuryente, gagamit ang proyeto ng generator sets.</p>
Construction Materials	<p>Ang mga material para sa konstruksyon, kabilang ang mga aggregates, ay bibilhin o kukuhain mula sa probinsya ng Nueva Vizcaya at Nueva Ecija.</p> <p>Kinokonsidera din ang pagbili at pagkuha ng mga materyales sa kalapit na mga probinsya.</p>

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Iskedyul ng Proyekto

PROJECT PHASE	TAON
Preparasyon (Pre-Construction)	2019 hanggang 2025
▪ Detailed Engineering Design	2024
▪ Bidding at pagpili ng kontraktor	2025
Konstruksyon	2026 hanggang 2030
Operasyon	2031 -

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Manpower Requirements

PROJECT PHASE	BILANG
Pre-Construction	120
Construction	2,000
Operation	25
Abandonment	50


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MGA NATAPOS NA GAWAIN PARA SA EIA



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Information, Education, and Communication (IEC) Campaign

- Aritao LGU (30 June 2021)
- Santa Fe LGU (1 July 2021)
- Carranglan LGU (2 July 2021)
- Kabuuang Dumalo: 41 (27 na lalaki at 14 na babae)





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Online Public Scoping

- Aritao, Santa Fe, and Carranglan LGUs (16 November 2021)
- Isinagawa sa pamamagitan ng Zoom Video Conferencing
- Kabuuang Dumalo: 68 (47 na lalaki at 21 na babae)

Malayang Talakayan

- Ano ang mga detalye ng proyekto na gusto niyong pag-usapan?
- Mayroon bang mga isyu na dapat malaman ng proponent upang maaksyunan ito?

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Kahandaan sa Public Hearing

- Posting sa EMB website 11 April 2023
- Publication sa National Circulation Newspaper
- 1st Publication – 18 April 2023
- 2nd Publication - 25 April 2023


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RESULTA NG EIA

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Mga Isinagawang EIA Activities



**TERRESTRIAL
FLORA & FAUNA
SOIL SAMPLING**



**WATER
SAMPLING
AND
FRESHWATER
ECOLOGY**

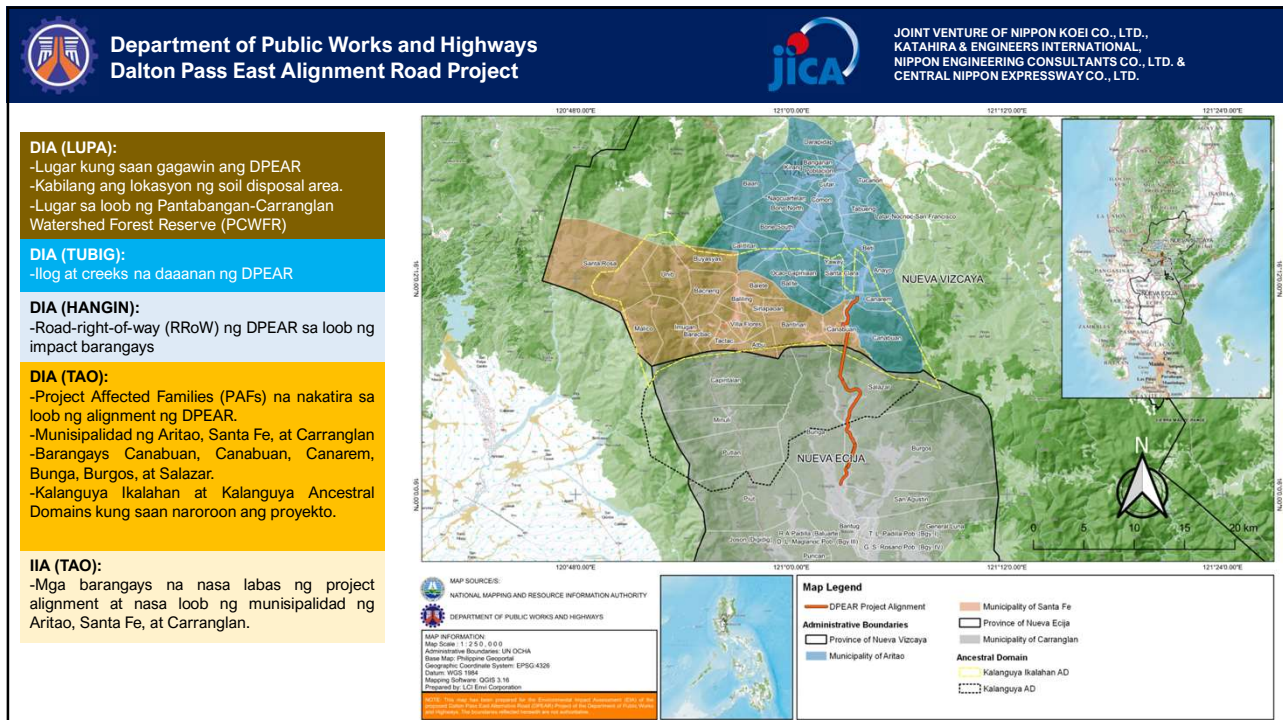


**AIR
SAMPLING
NOISE AND
VIBRATION**

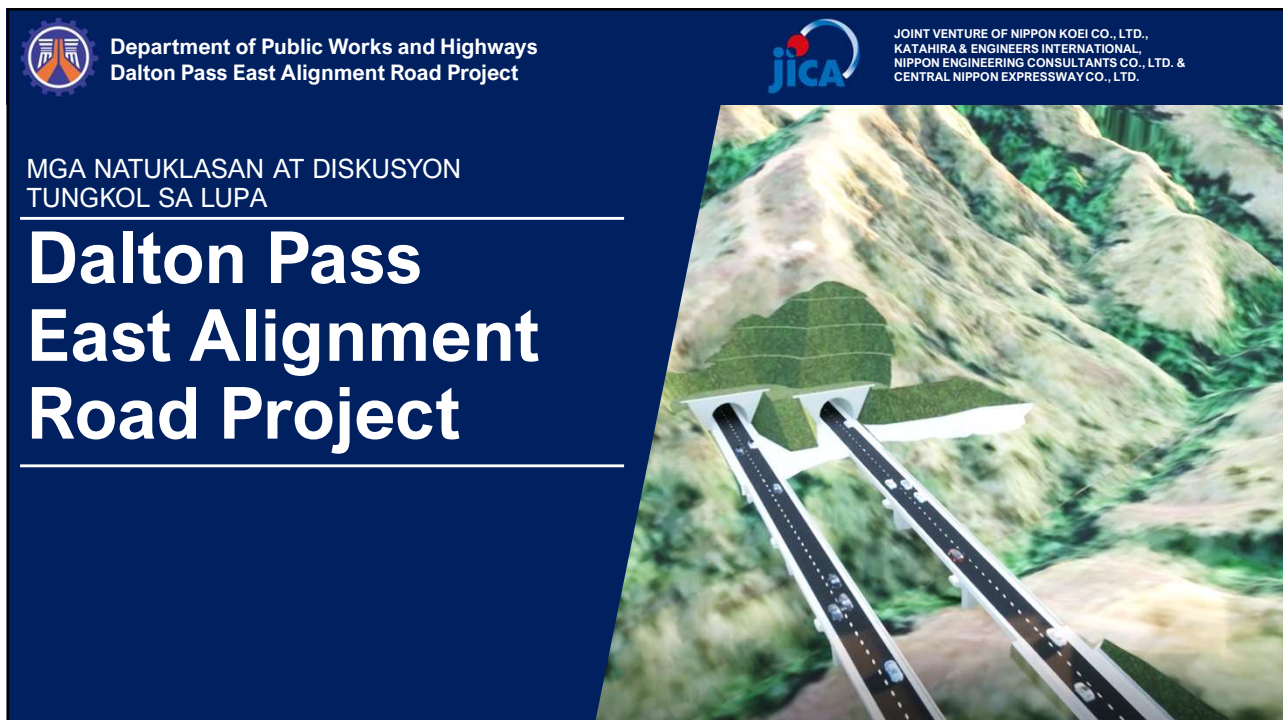


**FOCUS GROUP
DISCUSSIONS
CONSULTATION
MEETINGS
PERCEPTION SURVEY**

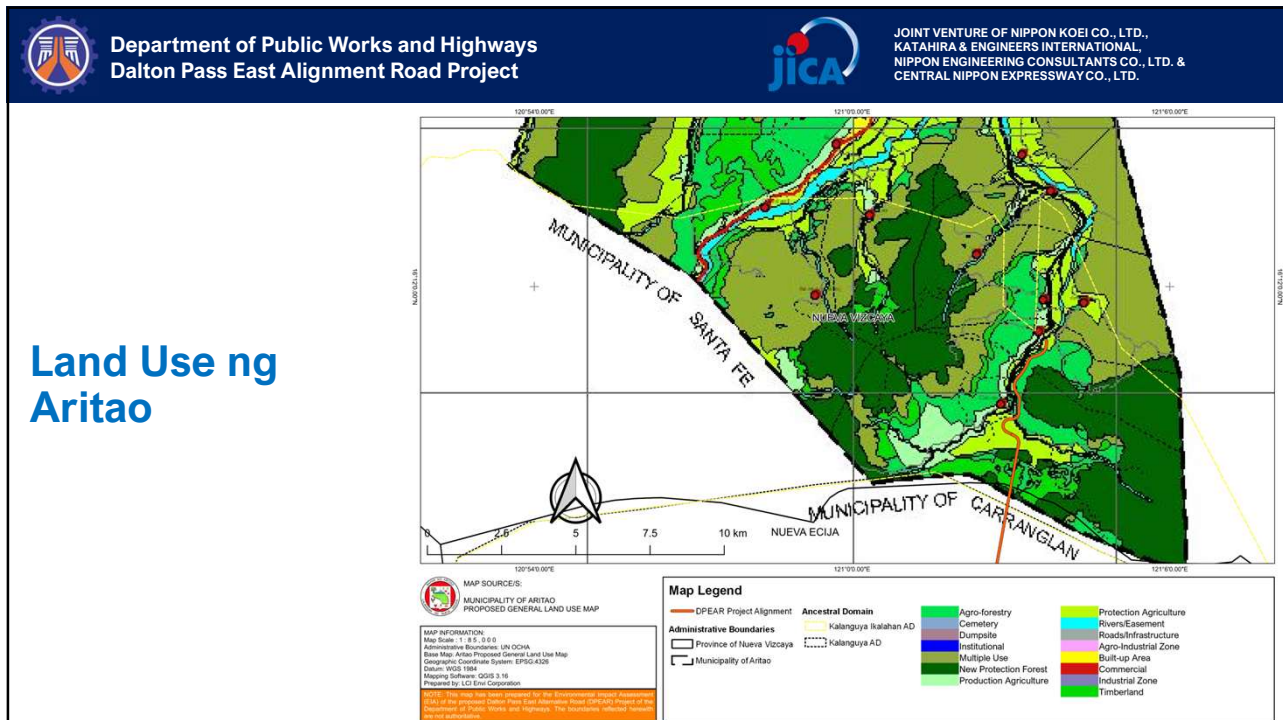
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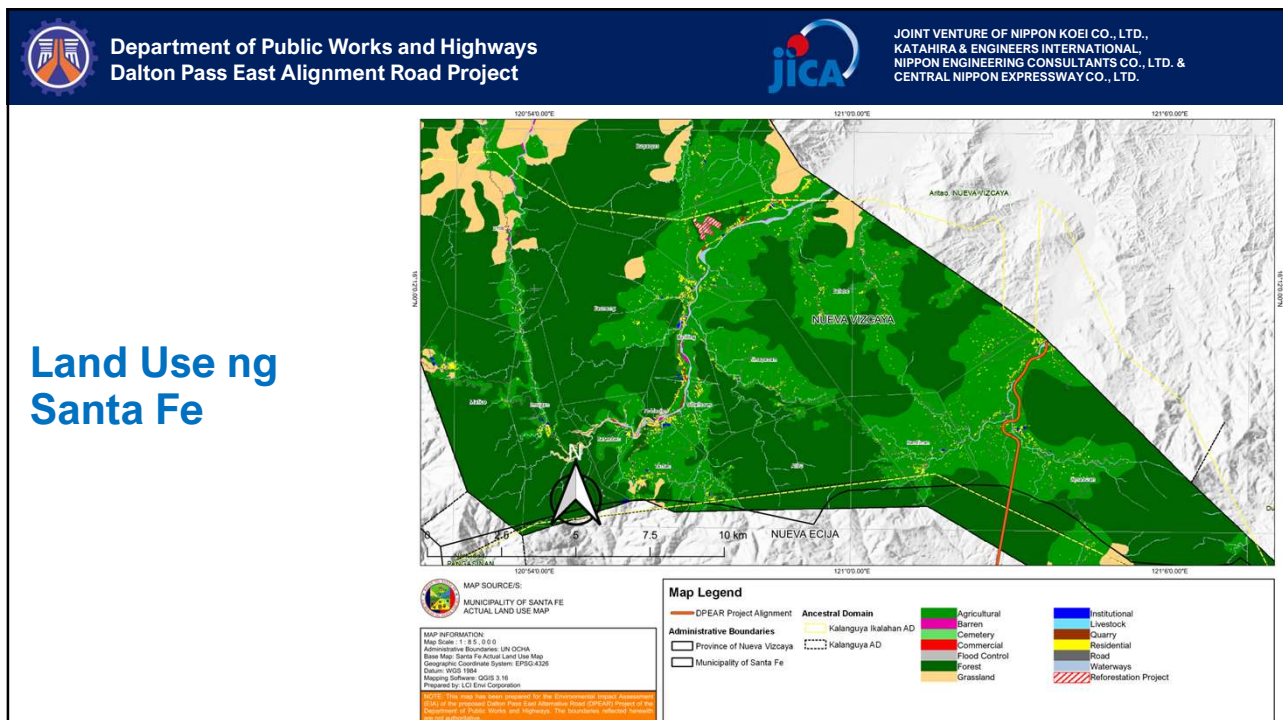
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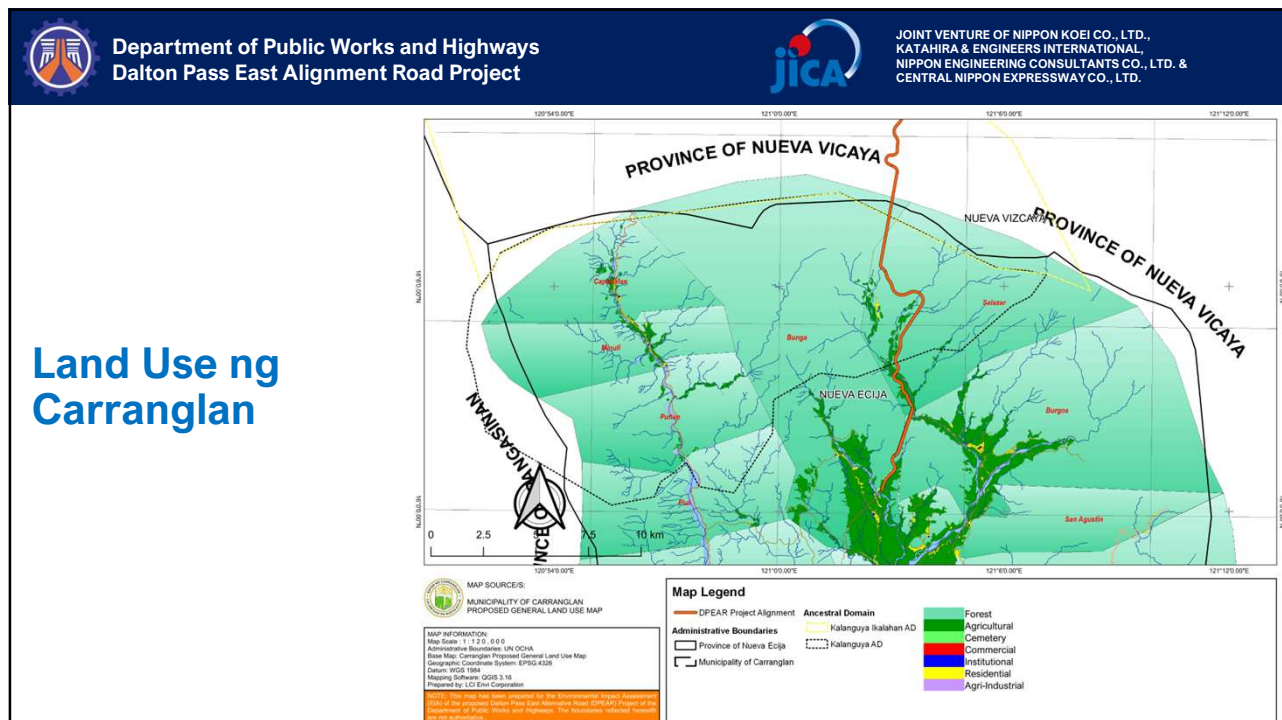
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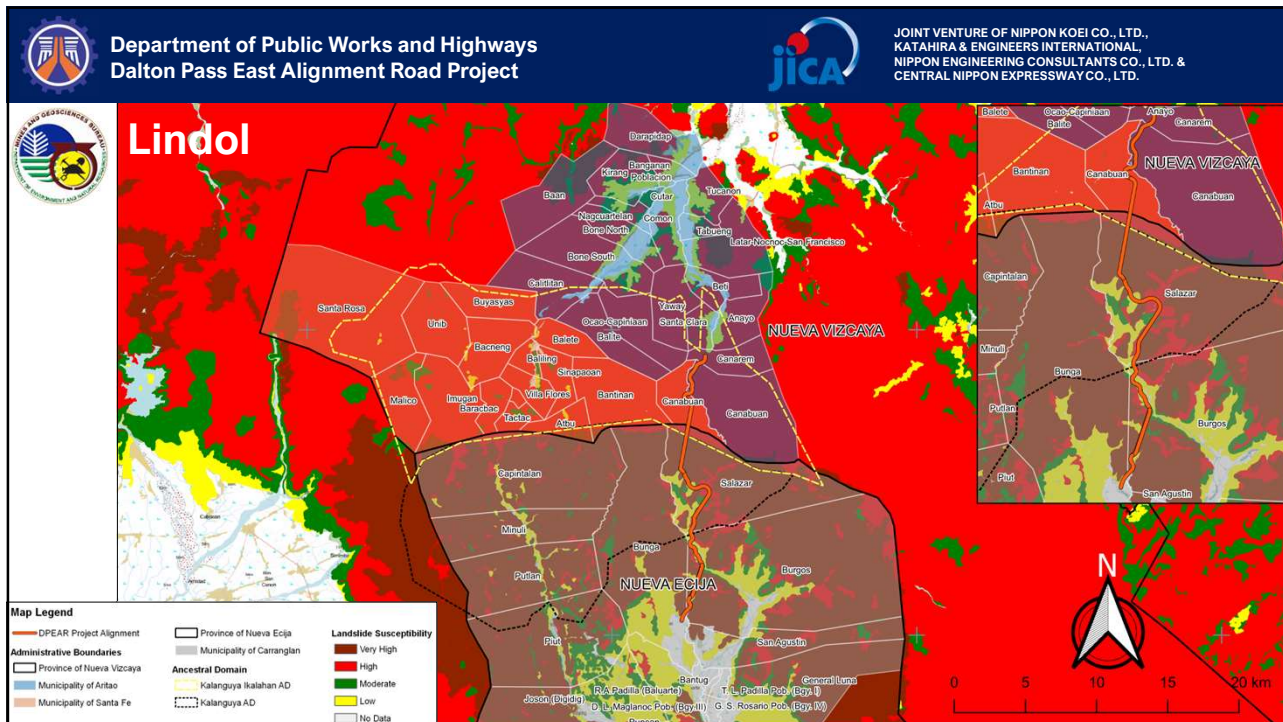
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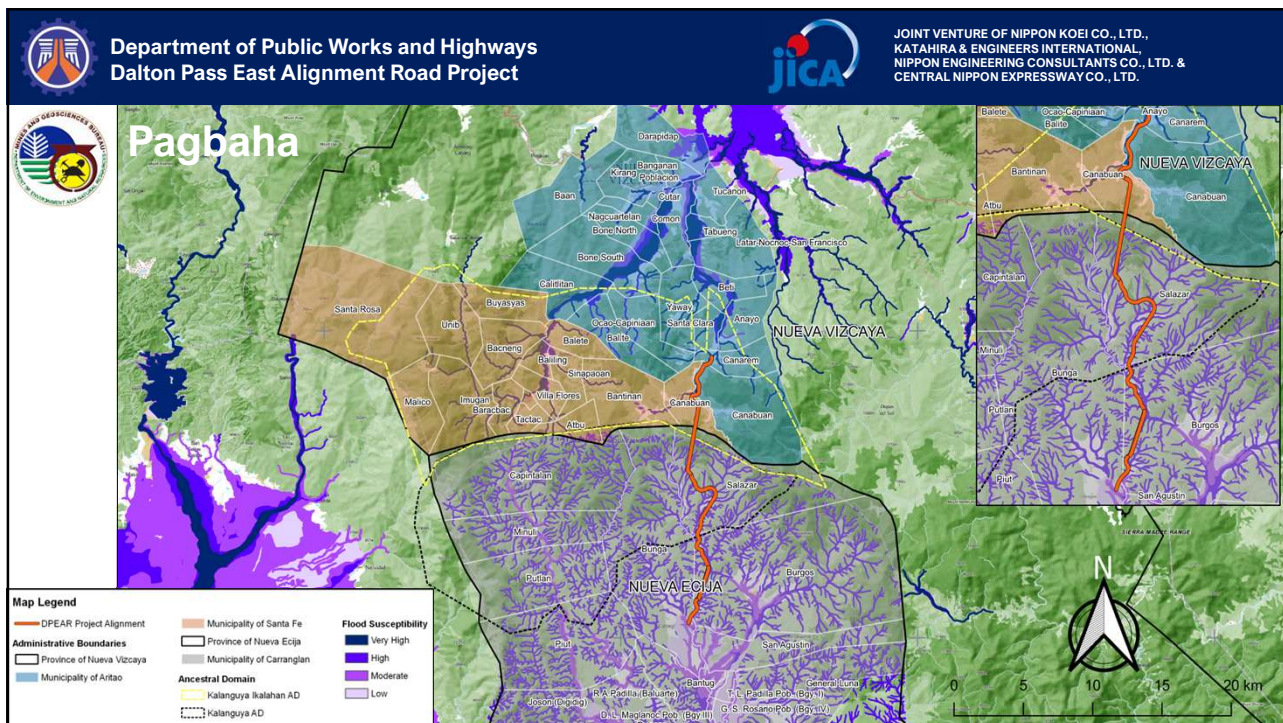
Geohazard Assessment

GEOLOGIC HAZARD	RESULTA NG PAG-AARAL	MITIGATING MEASURES
Earthquake (Lindol)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay 11 km sa silangan ng Philippine Fault System. Ang lokasyon ng proyekto ay maaaring maapektuhan ng lindol. 	<ul style="list-style-type: none"> Pagkonsidera sa seismic design criteria sa detailed engineering design base sa structural codes (tunnel structures at equipment installations) o mas mataas na standard. Pag-implement ng standard design at procedures sa construction ayon sa Building Code o mas mataas na standard.
Liquefaction (Pag-guho ng malambot na lupa)	<ul style="list-style-type: none"> Ang pasukan at labasan na mga daanan ng DPEARP ay maaring maapektuhan ng liquefaction. 	<ul style="list-style-type: none"> Pagkonsidera sa soil investigation results sa detailed engineering design.
Landslide (Pag-guho ng lupa)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay may magkakaibang susceptibility sa earthquake-induced landslide. Ilang lugar sa north tunnel at sa bahagi ng Brgys. Canabuan at Canarem ay may mataas na susceptibility sa rain-induced landslide. 	<ul style="list-style-type: none"> Pagkonsidera sa seismic hazards sa detailed engineering design. Aplikasyong ng excavation techniques na wala o maliit na impacts sa landslide at kondisyon ng lupa. Paglalagay ng protection structures (i.e., embankments, barrier walls) Pagalis ng hindi stable na lupa sa site development.
Volcanic Events (Pagputok ng bulkan)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay hindi maapektuhan ng pagputok ng bundok. 	<ul style="list-style-type: none"> N/A
Tsunami (Sunami)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay hindi maapektuhan ng sunami. 	<ul style="list-style-type: none"> N/A
Flooding (Pagbaha)	<ul style="list-style-type: none"> Ang bahagi ng proyekto sa Brgys. Salazar, Burgos at Bunga ay may low hanggang moderate na susceptibility sa pagbaha. Ang hilagang exit na daan ng alignment ay may mataas na susceptibility sa pagbaha. 	<ul style="list-style-type: none"> Pagsasagawa ng maayos na disenyo at konstruksyon ng akma drainage system bilang bahagi ng proyekto.

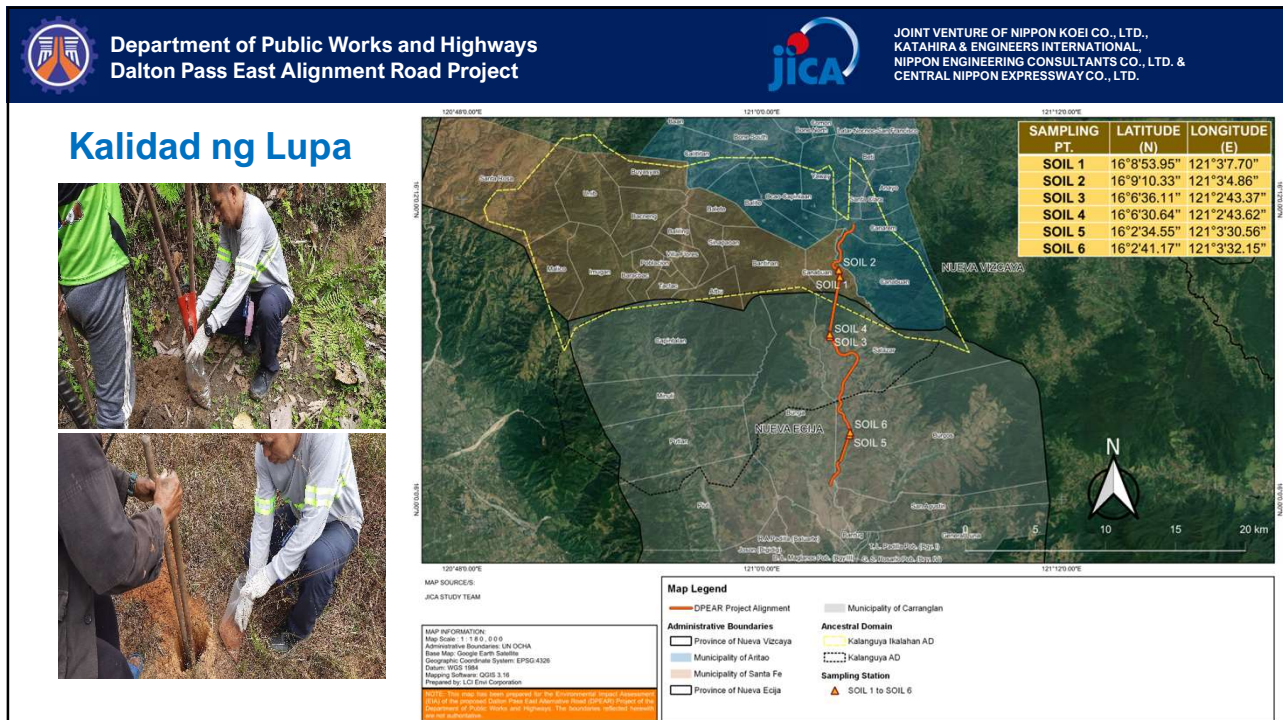
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Kalidad ng Lupa [February 2022]

Ang kalidad ng lupa ay hindi lumagpas sa standards.

PARAMETER	UNIT	DETECTED LEVEL AT THE SAMPLING POINTS BASED ON LABORATORY ANALYSIS (Values in RED exceed reference standard/s)						DUTCH INTERVENTION VALUE (Dutch Soil Remediation Circular 2013)
		SP1	SP2	SP3	SP4	SP5	SP6	
A. Micronutrients								
Iron	mg/Kg	14,500	30,200	-	-	-	-	
Boron	mg/Kg	ND	ND	ND	ND	ND	-	
Manganese	mg/Kg	207	80	420	173	44	26	
Zinc	mg/Kg	13	2.6	1.0	8.7	3.3	0.7	
Copper	mg/Kg	24	5.9	16	9.0	0.7	1.0	
Molybdenum	mg/Kg	ND	ND	ND	ND	ND	190	
Nickel	mg/Kg	1.0	0.5	3.0	1.2	ND	100	
B. Metals								
Arsenic	mg/Kg	ND	ND	ND	ND	ND	76	
Cadmium	mg/Kg	0.2	0.09	0.3	0.2	ND	13	
Mercury	mg/Kg	ND	ND	ND	ND	ND	-	
Lead	mg/Kg	0.9	0.6	1.0	0.4	ND	530	
Potassium	mg/Kg	415	33	15	67	67	ND	
Selenium	mg/Kg	ND	ND	ND	ND	ND	100	
C. Wet Chemistry								
pH		5.4	6.2	6.6	5.8	5.8	-	
Total Phosphorus	mg/Kg	303	326	297	330	133	230	
Hexavalent Chromium	mg/Kg	ND	ND	ND	ND	ND	-	
Fluoride	mg/Kg	0.3	0.9	1.2	0.6	0.4	0.4	
Total Organic Matter	% w/w	0.56	1.26	0.9	2.22	1.24	0.16	

NOTES: SP = Sampling Point | ND = Not Detected | mg/kg = milligrams per kilogram | (*) Method detection limit
REFERENCE: Dutch Soil Remediation Circular, 2013, Annex 1, Table 1

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Terrestrial Ecology (Flora at Fauna) [June 2021 at January 2022]

- Ayon sa International Union for Conservation of Nature (IUCN), **isang** species ay kinokonsiderang “highly threatened” na mayroong endangered (EN) status - **Narra**.
- Maliban sa Narra, mayroong **4 na species** na natagpuan na kinokonsiderang **vulnerable (VU)** at **isang Other Threatened Species (OTS)**. Kabilang sa VU ang **Almon** (*Shorea almon*), **Red lauan** (*Shorea negrosensis*), **Malakmalak** (*Palaquium philippense*), and **Tagbak** (*Alpinia elegans*). Kabilang naman sa OTS ang **Gakakan** (*Drypetes falcata*) base sa DENR DAO 2017-11.
- Mayroong **anim na species ng hayop** na kabilang sa **updated list of threatened Philippine fauna species**. **Isa** ang **Critically Endangered** (Amethyst Brown Dove), **isa** ang **Endangered** (Philippine Deer), **dalawa** ang **Vulnerable** (Wild Boar and Philippine Duck) at **dalawang** species ay kabilang sa **Other Threatened Species** (Gecko and Python).

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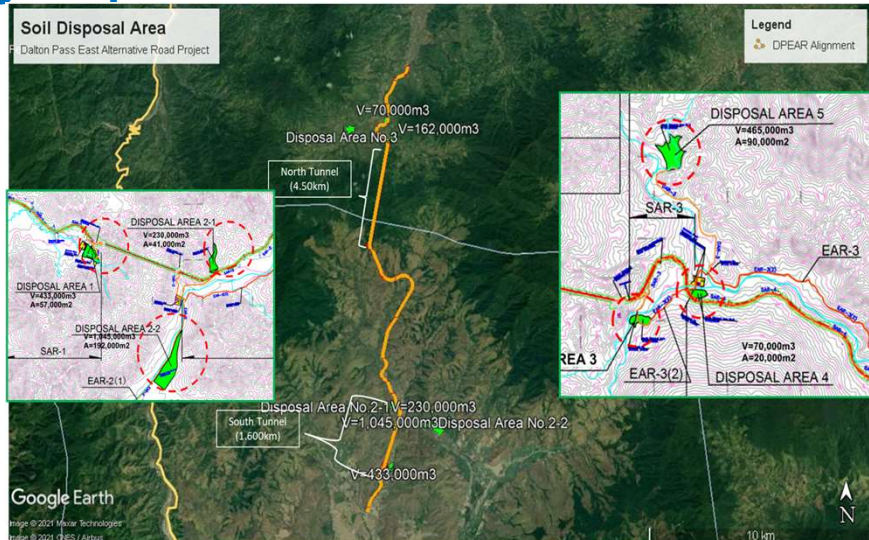
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Generation ng Surplus Soil

- May humigit kumulang **2.4 million m³** ng excavated soil ay ma-generate ng proyekto.
- Mayroong **5 na disposal sites** malapit sa **tunnel portal ng proyekto** kung saan ang nahukay na mga lupa ay ilalagay.
- Ang mga nahukay na lupa ay maaaring gamitin bilang **panambak na material sa paggawa ng nasabing proyekto**.
- Ang **pinal na lokasyon ay pagdedesisyonan pa**, kasama ang mga IP Leaders ng 2 Ancestral Domains.



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Vegetation Removal

- Ang inisyal na natukoy na tanim na timber species ay nasa **870 timber na puno**. Bukod pa dito, mayroong tinatayang **10,347 na namumungang puno at perennials** ang natukoy sa kabuuan ng RRoW ng proyekto.
- Kukuha ng Tree Cutting Permit (TCP) mula sa Department of Environment and Natural Resources (DENR) ang panukalang proyekto. Ang DPWH ay susunod sa alituntuning nakasaad sa Joint Memorandum Circular (JMC) 2014-01, kung saan papalitan ng **100 seedlings/saplings/progapules** sa kada **isang punong puputulin**.

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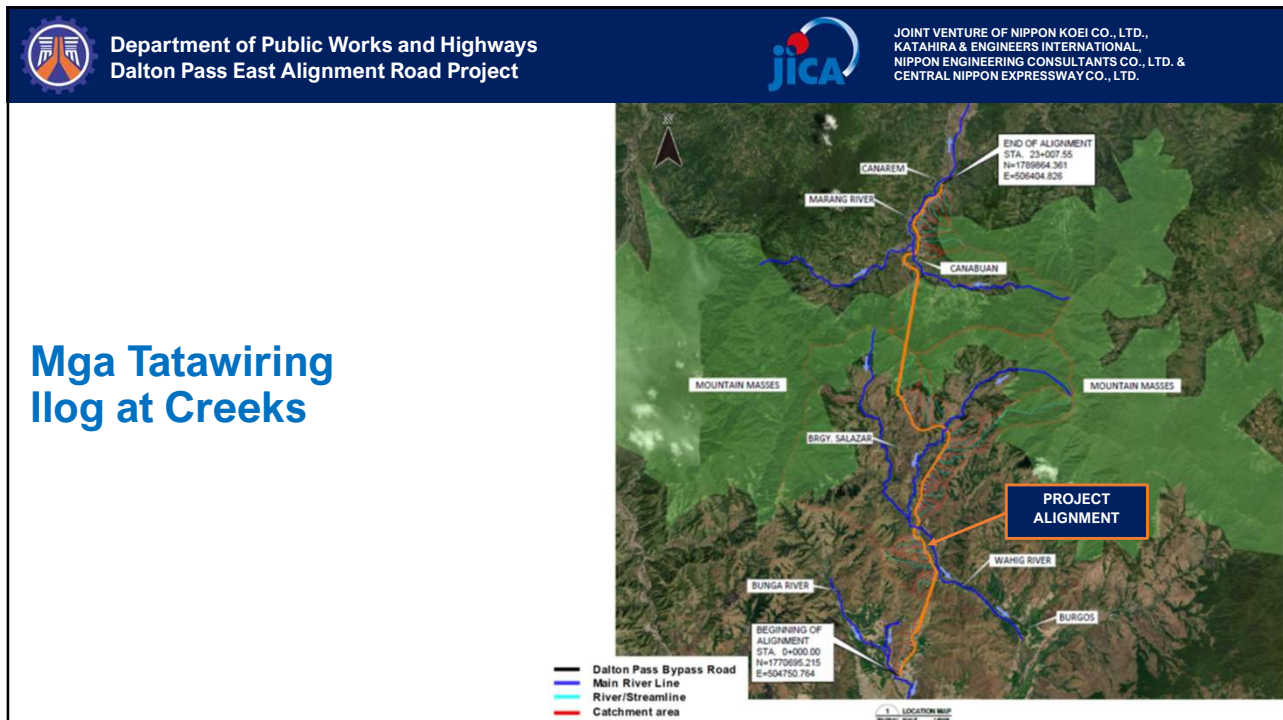
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MGA NATUKLASAN AT DISKUSYON
TUNGKOL SA TUBIG

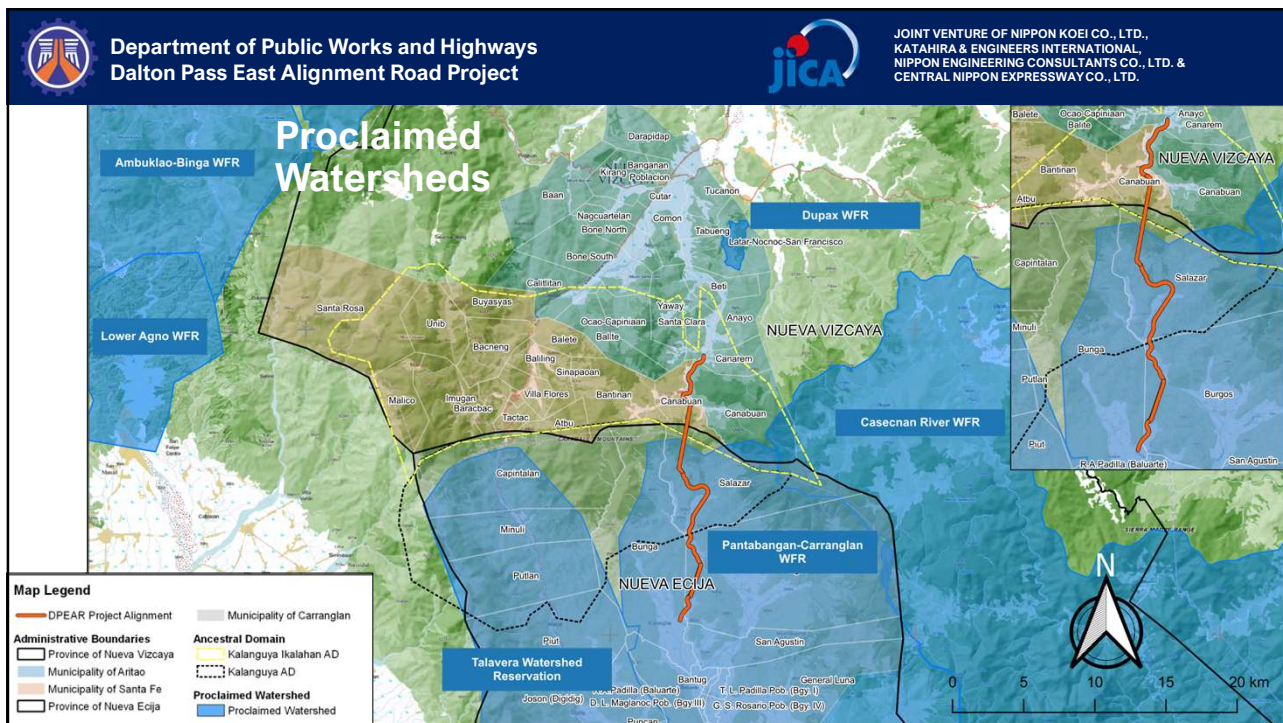
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Kakailanganing Tubig

AKTIBIDAD	TANTYANG KAKAILANGANING TUBIG (CU. M./ARAW)	DETALYE
A. Construction Phase		
Civil Works	47.65	Halo ng semento
Drilling Operations	288	0.2 m ³ /min.
Domestic Use	140	70 litro/tao/araw
TOTAL	475.65	
B. Operation Phase		
Domestic Use	1.75	70 litro/tao/araw
TOTAL	1.75	

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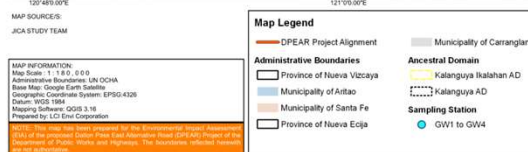
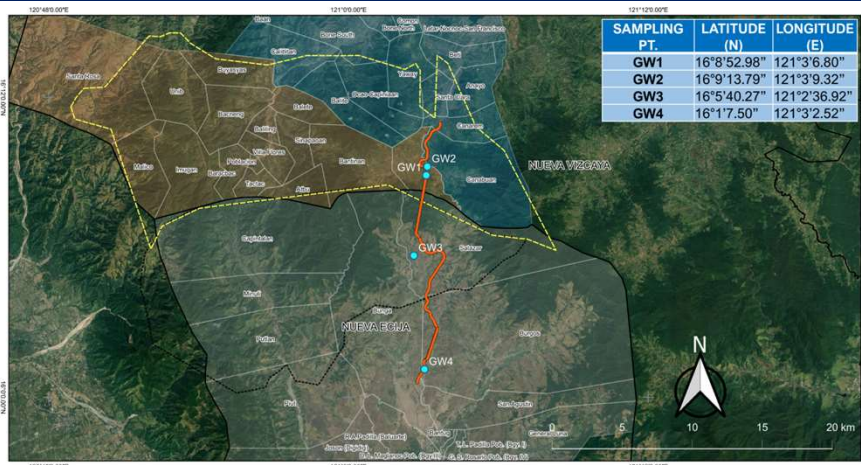


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Dalton Pass East Alignment Road Project



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Kalidad ng Groundwater



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Kalidad ng Groundwater [February 2022]

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)				GUIDELINE VALUE FOR CLASS A WATER BODY (DAO 2016-08)	GUIDELINE VALUE FOR DRINKING WATER QUALITY (DOH AO 2017-10)
		GW 1	GW 2	GW 3	GW 4		
pH	pH	7.96	7.24	8.1	7.48	6.5-8.5	6.5 – 8.5
Temperature	°C	22.2	25.0	28.4	27.9	26-30	*
Total Suspended Solids	mg/L	<2.38	<2.38	<2.38	<2.38	50	*
Color	CU	5	3	5	3	50	10
Nitrate	mg/L	<0.006	<0.006	<0.006	0.7	7	50
Phosphate	mg/L	<0.0064	0.02	<0.0064	<0.0064	0.5	*
Fecal Coliform	MPN/100 mL	>8.0	<1.1	<1.1	<1.1	<1.1	<1.1
Chloride	mg/L	<0.14	<0.14	<0.14	18	250	250

NOTES: GW = Groundwater | (*) = No guideline value at present | mg/L = Milligrams per liter | MPN/100mL = Most probable number per 100 milliliters | NTU = Nephelometric Turbidity unit
REFERENCES: DOH AO 2017-0010 (Philippine National Standards for Drinking Water of 2017)
DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)

- Lahat halos ng parameters ay pasok sa standards, maliban sa **fecal coliform** sa **GW 1** dahil sa pagpasok ng kontaminasyon sa mga butas ng tubo.
- Magkaroon ng tuloy-tuloy na pag-monitor ng kalidad ng tubig, lalo na habang ginagawa ang tunneling para maiwasan at matukoy kung mayroong kontaminasyon sa mga groundwater sources.

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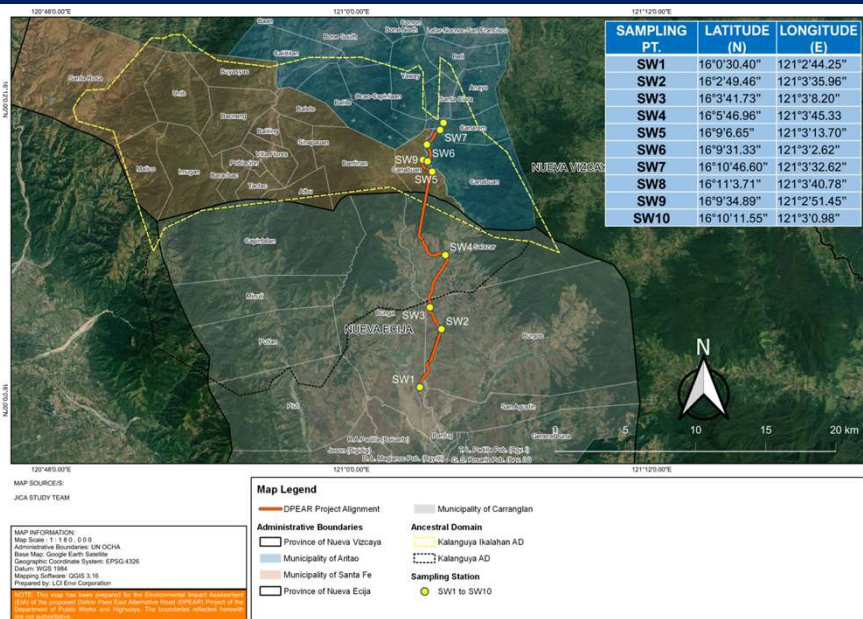


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Kalidad ng Surface Water



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Kalidad ng Surface Water (Wet Season) [June 2021]

- Lahat ng parameters ay pasado, maliban sa **fecal coliform** na maaaring nagmumula sa mga basura or dumi mula sa taas ng ilog dahil sa mga agricultural na aktibidad at ang **oil and grease** sa **SW9** ay maaaring dahil sa mga gawain ng tao sa lugar.

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)										GUIDELINE VALUE FOR CLASS C WATER BODY (DAO 2016-08)
		SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	
Color	TCU	5	8	8	8	8	8	8	8	8	8	75
pH	pH	7.8	8.0	7.9	7.9	8.1	8.2	8.2	8.2	8.3	8.3	6.5 – 9.0
Temperature	°C	34.2	30.9	30.5	28.5	26.1	25.4	25.8	26.3	26.0	25.8	25-31
Dissolved Oxygen	mg/L	7	9	8	8	8	8	9	8	8	9	5 (minimum)
Total Suspended Solids	mg/L	<2.38	8	22	11	7.5	2.5	5.5	3.5	0.08	4	80
Biochemical Oxygen Demand	mg/L	2	1	<1	1	1	1	<1	<1	<1	1	7
Chloride	mg/L	5	1.5	1.5	2	1.5	1	1	1.5	1.5	1	350
Nitrate	mg/L	0.06	0.07	0.06	0.05	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	7
Oil and Grease	mg/L	0.98	1.2	1.6	1.5	1.1	1.1	1.1	1.1	6	1.2	2
Phosphate	mg/L	<0.0064	<0.0064	<0.0064	0.01	<0.0064	0.01	0.01	0.02	0.02	<0.0064	0.5
Surfactants	mg/L	0.09	0.07	0.08	0.09	0.07	0.08	0.1	0.08	0.08	0.06	1.5
Fecal Coliform	MPN/100mL	5,400	350	3,500	240	790	2,800	5,400	3,500	2,400	9,200	200
Total Coliform	MPN/100mL	9,200	1,600	5,400	1,600	1,700	9,200	5,400	1,600	9,200	2,400	*
Dissolved Copper	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.004	<0.003	0.02
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0.02
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Hexavalent Chromium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Cyanide	mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.1
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Organophosphate as Malathion	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3

NOTES: SW = Surface Water | (*) = No guideline value at present | mg/L = Milligrams per liter | TCU = True color unit | ND = Not Detected
[REFERENCE: DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)]

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Kalidad ng Surface Water (Dry Season) [January-February 2022]

- Lahat ng parameters ay pasado, maliban sa **fecal coliform** na maaaring nagmumula sa mga basura or dumi mula sa taas ng ilog dahil sa mga agricultural na aktibidad at maaaring dahil sa mga gawain ng tao sa lugar.
- Maglalagay ng silt protection at gagawa ng regular na monitoring ng kalidad ng tubig upang mabawasan ang epekto ng konstruksyon sa surface water.

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)										GUIDELINE VALUE FOR CLASS C WATER BODY (DAO 2016-08)
		SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	
Color	TCU	5	10	10	8	8	8	8	8	8	8	75
pH	pH	8.4	8.4	7.9	7.9	8	7.7	8.9	8.9	8.4	8.5	6.5 – 9.0
Temperature	°C	28.9	28.7	28.2	24.7	22.1	22.4	23.5	24.1	22.9	23.1	25-31
Dissolved Oxygen	mg/L	9	8	9	8	9	8	9	8	9	9	5 (minimum)
Total Suspended Solids	mg/L	12	9	7	<2.38	3.5	3.5	11	12	8	7.5	80
Biochemical Oxygen Demand	mg/L	<1	<1	<1	<1	1	1	2	1	1	<1	7
Chloride	mg/L	4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	350
Nitrate	mg/L	0.1	0.06	0.02	0.03	0.2	0.2	0.1	0.2	0.1	0.3	7
Oil and Grease	mg/L	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.4	2
Phosphate	mg/L	0.01	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	0.5
Surfactants	mg/L	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5
Fecal Coliform	MPN/100mL	350	110	390	350	920	540	2,400	1,300	1,300	2,400	200
Total Coliform	MPN/100mL	1,600	350	2,200	540	920	1,600	2,400	2,400	2,400	2,400	*
Dissolved Copper	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.02
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Hexavalent Chromium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Cyanide	mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.1
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Organophosphate as Malathion	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3

NOTES: SW = Surface Water | (*) = No guideline value at present | mg/L = Milligrams per liter | TCU = True color unit | ND = Not Detected
[REFERENCE: DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)]

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MGA NATUKLASAN AT DISKUSYON TUNGKOL SA
HANGIN, INGAY, AT PAGYANIG


Dalton Pass East Alignment Road Project



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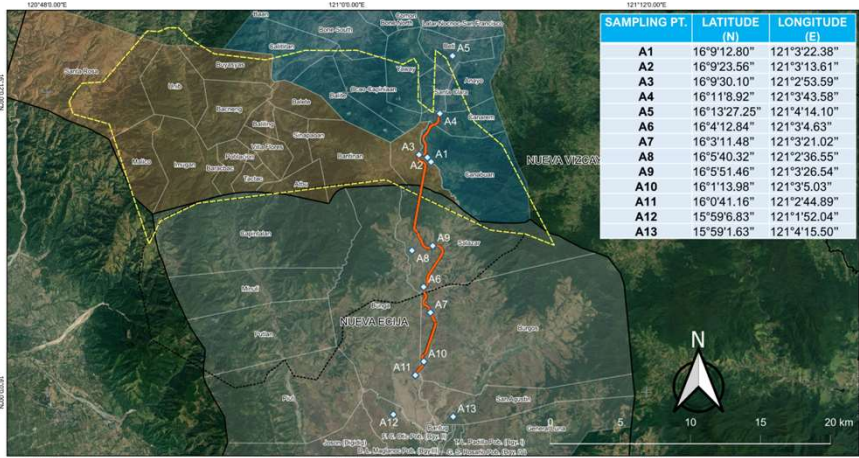
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Hangin, Ingay, at Pagyanig



SAMPLING PT.	LATITUDE (N)	LONGITUDE (E)
A1	16°9'12.80"	121°3'22.38"
A2	16°9'23.56"	121°3'13.61"
A3	16°9'30.10"	121°2'53.59"
A4	16°1'18.92"	121°3'43.58"
A5	16°13'27.25"	121°4'14.10"
A6	16°4'12.54"	121°3'4.63"
A7	16°3'11.48"	121°3'21.02"
A8	16°5'40.32"	121°2'36.55"
A9	16°5'51.46"	121°3'26.54"
A10	16°1'13.98"	121°3'5.03"
A11	16°0'41.16"	121°2'44.89"
A12	15°59'6.83"	121°1'52.04"
A13	15°59'1.63"	121°4'15.50"

Map Legend

— DPEAR Project Alignment

— Administrative Boundaries

— Province of Nueva Vizcaya

— Municipality of Artao

— Municipality of Santa Fe

— Province of Nueva Ecija

— Municipality of Carrangian

— Ancestral Domain

— Kalanguya Ikalahan AD

— Kalanguya AD

— Sampling Station

— A1 to A13

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Kalidad ng Hangin

(Wet Season) [June-July 2021]

Ayon sa resulta, ang kalidad ng hangin ay

katanggap-tanggap base sa National

Ambient Air Quality Standards (NAAQS).

STATION		LOCATION	OBSERVED 24-HOUR AMBIENT AIR CONCENTRATIONS, $\mu\text{g}/\text{Ncm}$						
			TSP	PM ₁₀	NO ₂	SO ₂	Lead	O ₃	CO
A1	Brgy. Canabuan, Sta. Fe (NV), near church		29.1	9.9	1.9	7.9	ND	13.10	1.07
A2	Brgy. Canabuan, Sta. Fe (NV), near barangay hall		28.0	14.9	1.9	6.0	ND	3.80	1.21
A3	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish		21.0	19.3	1.3	4.1	ND	4.9	1.34
A4	Brgy. Canarem, Aritao (NV), near residential area		18.4	11.6	1.0	16.7	ND	4.9	1.34
A5	Brgy. Beti Aritao (NV), near residential area		29.1	14.1	2.2	9.9	ND	9.2	1.22
A6	Brgy. Salazar, Carranglan (NE), Sitio Popo		42.2	16.3	1.8	8.8	ND	11.2	1.56
A7	Brgy. Burgos, Carranglan (NE), Sitio Barat		66.4	65.8	1.2	15.1	ND	9.5	1.64
A8	Brgy. Salazar, Carranglan (NE), Zone II		52.1	41.6	3.5	10.4	ND	5.2	2.83
A9	Brgy. Salazar, Carranglan (NE), Sitio Labug		22.8	13.1	1.8	14.6	ND	5.5	1.25
A10	Brgy. Bunga, Carranglan (NE), Sitio Laat 1		13.7	13.2	1.8	14.6	ND	10.0	1.12
A11	Brgy. Bunga, Carranglan (NE), Sitio Laat 2		12.6	21.9	2.0	ND	ND	11.5	1.06
A12	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral		21.2	24.7	1.5	7.6	ND	12.4	1.08
A13	Brgy. San Agustin, Carranglan (NE), near day care center		30.0	23.5	4.7	61.6	ND	6.3	1.87
NAAQS (24-hour sampling)			230	150	150	180	20*	60	9

NOTES:


ND = Not detected / below detection limit (NO₂ = 0.26 μg ; SO₂ = 0.75 μg);

(*) = Evaluation of this standard is carried out for 30-minute averaging time.

REFERENCE: DAO 2000-81 (IRR of Republic Act 8749)


Red Marks: Exceeds Standards

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Kalidad ng Hangin

(Dry Season)

[January-February 2022]

- Ayon sa resulta, ang kalidad ng hangin ay **katanggap-tanggap** base sa National Ambient Air Quality Standards (NAAQS).
- Magkakaroon ng implementasyon ng regular na monitoring ng hangin upang makita kung mayroong pagbaba o pagbagsak ng kalidad ng hangin.

STATION	LOCATION	OBSERVED 24-HOUR AMBIENT AIR CONCENTRATIONS, $\mu\text{g}/\text{Nm}^3$							
		TSP	PM ₁₀	NO ₂	SO ₂	Lead	O ₃	CO	
A1	Brgy. Canabuan, Sta. Fe (NV), near church	25.5	27.7	1	ND	NA	ND	2.34	
A2	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	15.1	14.7	1.7	ND	NA	ND	5.67	
A3	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	11.5	6.2	1	ND	NA	ND	2.67	
A4	Brgy. Canarem, Aritao (NV), near residential area	23.3	17.3	0.8	ND	NA	ND	2.73	
A5	Brgy. Beti Aritao (NV), near residential area	35.2	31.5	2.2	ND	NA	ND	2.32	
A6	Brgy. Salazar, Carranglan (NE), Sitio Popo	36.2	26.6	1.6	8.7	NA	24.7	2.95	
A7	Brgy. Burgos, Carranglan (NE), Sitio Barat	10.3	6	1.5	8.6	NA	17.4	3.85	
A8	Brgy. Salazar, Carranglan (NE), Zone II	14.5	6	1.6	ND	NA	77	2.11	
A9	Brgy. Salazar, Carranglan (NE), Sitio Labug	11.9	14.7	0.8	ND	NA	ND	3.29	
A10	Brgy. Bunga, Carranglan (NE), Sitio Laat 1	10.4	6.1	2.2	ND	NA	ND	3.26	
A11	Brgy. Bunga, Carranglan (NE), Sitio Laat 2	28.1	16.1	2.2	2.5	NA	ND	2.54	
A12	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	24	11.2	1.8	ND	NA	ND	3.59	
A13	Brgy. San Agustin, Carranglan (NE), near day care center	30.4	15	2.5	ND	NA	ND	2.72	
NAAQS (24-hour sampling)		230	150	150	180	20*	60	9	

NOTES:

ND = Not detected / below detection limit (NO₂ = 0.26 μg ; SO₂ = 0.75 μg);

NA = Not analyzed

(*) = Evaluation of this standard is carried out for 30-minute averaging time.

REFERENCE: DAO 2000-81 (IRR of Republic Act 8749)

Red Marks: Exceeds Standards

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Noise Level Monitoring (Wet Season) [June-July 2021]

- Karamihan sa mga sampling stations ay nagtala ng lebel ng ingay na **lagpas sa standards sa umaga (morning)** at **madaling araw (nighttime)**.
- Ang mga ingay ay nagmumula sa mga **sasakyang dumadaan, mga hayop, aktibidad ng tao, at kondisyon ng panahon** habang gumagawa ng sampling activity.
- Naitala din na mayroong mga araw na **umuulan** habang ginagawa ang sampling activity.

STATION	LOCATION	OBSERVED 24-HOUR NOISE LEVEL dB(A)			
		Morning (0500-0900H)	Daytime (0900-1800H)	Evening (1800-2200H)	Nighttime (2200-0500H)
A1*	Brgy. Canabuan, Sta. Fe (NV), near church	46	49	48	44
A2*	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	49	48	45	45
A3**	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	53	51	49	48
A4**	Brgy. Canarem, Aritao (NV), near residential area	52	52	50	50
A5**	Brgy. Beti Aritao (NV), near residential area	52	53	52	53
A6**	Brgy. Salazar, Carranglan (NE), Sitio Popo	47	48	42	37
A7**	Brgy. Burgos, Carranglan (NE), Sitio Barat	52	54	49	48
A8**	Brgy. Salazar, Carranglan (NE), Zone II	59	56	58	59
A9**	Brgy. Salazar, Carranglan (NE), Sitio Labug	62	63	68	60
A10**	Brgy. Bunqa, Carranglan (NE), Sitio Laa 1	50	49	46	47
A11**	Brgy. Bunqa, Carranglan (NE), Sitio Laa 2	54	58	48	54
A12**	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	43	45	47	40
A13*	Brgy. San Agustin, Carranglan (NE), near day care center	51	55	53	39
MAXIMUM ALLOWABLE NOISE LEVEL, dB(A)		45	50	45	40
**Class A		50	55	50	45

Notes:
(*) Class AA = Area which required quietness (areas within 100 m from nursery schools and institutions)
(**) Class A = Residential area
REFERENCE: NPCC Memorandum Circular No. 1980-002
Red Marks: Exceeds Standards

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Noise Level Monitoring (Dry Season) [January-February 2022]

- Sa dry season, halos lahat ng sampling stations **ay lagpas sa standards sa lebel ng ingay**.
- Ang mga ingay ay nagmumula sa mga **sasakyang dumadaan, mga hayop, at aktibidad ng tao** habang gumagawa ng sampling activity.
- Bukod pa dito, ang alignment ng proyekto ay **dadaan sa residential, simbahan, at mga institusyon** na malapit sa kalsada, kung saan nakapag-tala ng mas **mataas na lebel ng ingay** sa gabi kumpara sa umaga.

STATION	LOCATION	OBSERVED 24-HOUR NOISE LEVEL dB(A)			
		Morning (0500-0900H)	Daytime (0900-1800H)	Evening (1800-2200H)	Nighttime (2200-0500H)
A1*	Brgy. Canabuan, Sta. Fe (NV), near church	56	59	58	57
A2*	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	52	53	55	53
A3**	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	55	54	57	56
A4**	Brgy. Canarem, Aritao (NV), near residential area	60	63	64	62
A5**	Brgy. Beti Aritao (NV), near residential area	58	60	62	59
A6**	Brgy. Salazar, Carranglan (NE), Sitio Popo	52	53	53	52
A7**	Brgy. Burgos, Carranglan (NE), Sitio Barat	55	58	59	56
A8**	Brgy. Salazar, Carranglan (NE), Zone II	48	53	51	49
A9**	Brgy. Salazar, Carranglan (NE), Sitio Labug	53	54	55	54
A10**	Brgy. Bunqa, Carranglan (NE), Sitio Laa 1	55	56	56	55
A11**	Brgy. Bunqa, Carranglan (NE), Sitio Laa 2	56	55	58	56
A12**	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	59	56	61	60
A13*	Brgy. San Agustin, Carranglan (NE), near day care center	60	61	61	61
MAXIMUM ALLOWABLE NOISE LEVEL, dB(A)		45	50	45	40
**Class A		50	55	50	45

Notes:
(*) Class AA = Area which required quietness (areas within 100 m from nursery schools and institutions)
(**) Class A = Residential area
REFERENCE: NPCC Memorandum Circular No. 1980-002
Red Marks: Exceeds Standards

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Vibration Levels

- Tatlong stations (A1, A2 and A13) ay kinonsidera bilang “opisina” under sa BS 6472-1992, kabilang ang mga institusyon, paaralan, at simbahan. Ang natitirang 10 na stations ay kabilang sa “residences” na kategorya.
- Ang **pag-yanig** ay naobserbahan na mas marami sa **umaga** kaysa sa **gabi**.
- Walang stations ang lumagpas sa preferred vibration level na nakasaan sa BS 6472-1992 para sa mga residensyal at mga opisina.

STATION	LOCATION	Daytime	Nighttime
A1**	Brgy. Canabuan, Sta. Fe (NV), near church	72	68
A2**	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	73	68
A3*	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	69	71
A4*	Brgy. Canarem, Aritao (NV), near residential area	70	69
A5*	Brgy. Beti Aritao (NV), near residential area	68	68
A6*	Brgy. Salazar, Carranglan (NE), Sitio Popo	69	69
A7*	Brgy. Burgos, Carranglan (NE), Sitio Barat	68	68
A8*	Brgy. Salazar, Carranglan (NE), Zone II	68	68
A9*	Brgy. Salazar, Carranglan (NE), Sitio Labug	70	69
A10*	Brgy. Bunga, Carranglan (NE), Sitio Laot 1	71	67
A11*	Brgy. Bunga, Carranglan (NE), Sitio Laot 2	67	66
A12*	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	72	67
A13**	Brgy. San Agustin, Carranglan (NE), near day care center	72	67
BS 6472-1992 Preferred Vibration Level (dB)	Residences*	80	77
	Offices**	86	86

NOTE:
(*) Residential area
(**) Offices
REFERENCE: BS 6472-1992
Red Marks: Exceeds Standards


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Alikabok, Ingay, at Pagyanig sa Pagsasagawa ng Proyekto


- Ang mga aktibidad sa paggawa ng proyekto ay maaaring magpadami ng alikabok sa paligid
 - Regular na pagbabasa o watering ng construction sites
 - Paglalagay ng truck covers
- Ang ingay ay inaasahang magiging epekto ng proyekto sa konstruksyon
 - Siguraduhing maayos ang maintenance ng mga makina at iba pang mechanical na parte ng mga gagamiting heavy equipment
 - Paglalagay ng exhaust mufflers
 - Paglalagay ng mga enclosures sa palibot ng lugar ng proyekto
 - Ang mga maiingay na Gawain ay gagawin sa umaga
- Ang pagyanig ay maaaring maranasan habang ginagawa ang tunneling at iba pang aktibidad sa konstruksyon.

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Dalton Pass East Alignment Road Project



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MGA NATUKLASAN AT DISKUSYON
TUNGKOL SA TAO

Dalton Pass East Alignment Road Project




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Department of Public Works and Highways

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Laki at Lawak ng Involuntary Resettlement

- Ang proyekto ay **tinatayang maglilipat** ng mga **nakatira sa loob ng road right-of-way (RRoW)**. Una dito, ang mga naninirahan sa Kalanguya Ikalahan at Kalanguya Ancestral Domains (ADs).
- Ang **DPWH**, sa pakikipag-ugnayan sa **National Commission on Indigenous Peoples (NCIP)**, ay nakapagsagawa na ng **Free and Prior Informed Consent (FPIC)**.
- **Nakuha** ng DPWH ang Certification Precondition (CP) para sa Region II (**Kalanguya-Ikalahan AD**) noong **Disyembre 2018** at para sa Region III (**Kalanguya AD**) noong **Enero 2020**.
- Mayroong ginagawang **Right-of-Way Acquisition Plan (RAP)** para sa nasabing proyekto.
- Ang **RAP** ay magkakaroon ng **pinal na bersyon** matapos ang **Detailed Engineering Design (DED) stage** ng proyekto.

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Displacement of Settlers

Preliminary Right-of-Way Acquisition Plan (RAP)

- **Project Affected Persons.** Mayroong **170 project-affected persons (PAPs)** ang natukoy, na nakatira sa loob, gumagawa ng economic activities sa loob ng RRoW.
- **Land.** Ang potensyal na lugar na kakailanganin para sa proyekto ay **129.4 Has. o 1,294,280 m².**
- **Structures at Improvement.** Mayroong **102 struktura** ang naimbentaryo sa loob ng **6** na barangays. Kabilang dito ang **55 residential structures, 2 institutional structures (simbahan), 1 warehouse, at 44 other structural improvements** (hal. solar dryers, windmill, farmhouses, dirty kitchens, animal pens, small stores, grave houses, deepwell, at shed).

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Displacement of Settlers

Preliminary Right-of-Way Acquisition Plan (RAP)

- **Public Structures at Utilities.** Mayroong **23 public structures** ang natagpuan sa loob ng project RRoW sa Brgys. Bunga at Burgos. Kabilang na dito ang **2** na basketball court at **21 poste** na maapektuhan ng nasabing proyekto na pag-aari ng **NEECO**.
- **Trees at Perennials.** Ang kabuuang lawak ng lugar na mayroong tinanim na timber na species ay 51,937 m² o **870 timber na puno**. Bukod pa dito, mayroong tinatayang **10,347 na namumungang puno at perennials** ang natukoy sa kabuuan ng RRoW ng proyekto.
- **Croplands.** Ang tantyang lawak ng agricultural na lupain na maapektuhan ng proyekto ay **307,928.71 m².** Karamihan sa mga matatamaang croplands ay tinatamnan ng palay.

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IPP Census

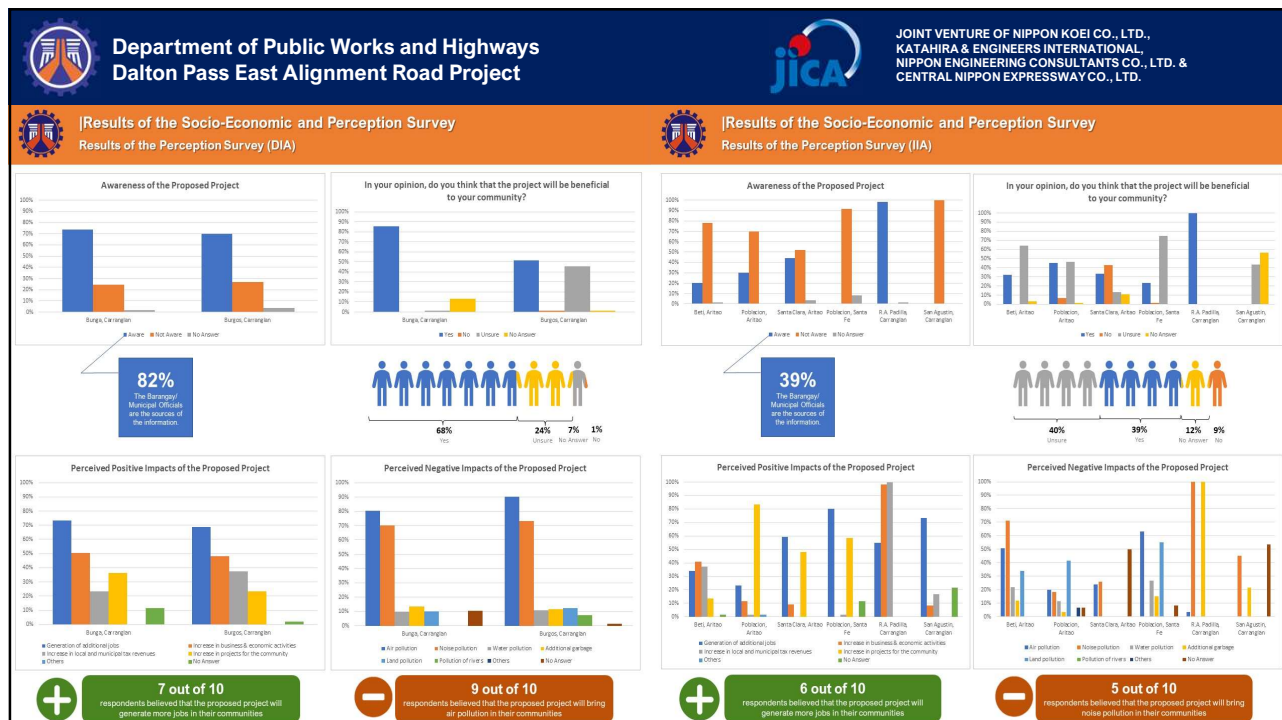
- Nagkaroon ng census survey bilang bahagi ng pagsasagawa ng Indigenous Peoples Plan (IPP) para sa Kalanguya Ikalahan at Kalanguya ADs.
- Ang mga households na naisama sa Region II ay **267** at **729** na households naman ang naisama para sa Region III. Ang kabuuang households na nai-census ay **996**.

Socio-Economic Survey

BARANGAY	DIA/IIA	NO. OF RESPONDENTS
ARITAO, NUEVA VIZCAYA		
Barangay Beti	IIA	59
Barangay Poblacion	IIA	60
Barangay Santa Clara	IIA	54
Sub-total	-	173
SANTA FE, NUEVA VIZCAYA		
Barangay Poblacion	IIA	60
Sub-total	-	60
CARRANGLAN, NUEVA ECIJA		
Barangay Bunga	IIA	258
Barangay Burgos	DI	261
Barangay R.A. Padilla	IIA	60
Barangay San Agustin	IIA	60
Sub-total	-	639
TOTAL	-	872

NOTE: DIA- Direct Impact Area; IIA- Indirect Impact Area

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Dalton Pass East Alignment Road Project

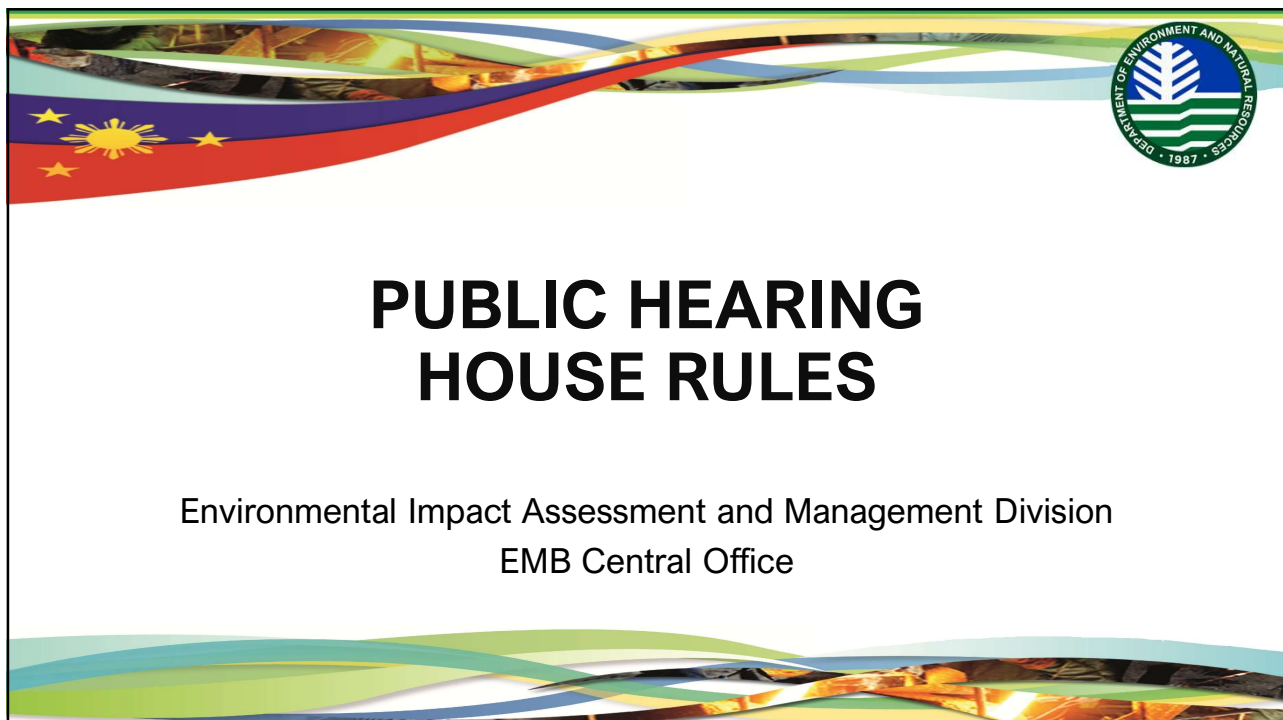

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MALAYANG TALAKAYAN
Atty. Erika Romero
 Public Hearing Officer, DENR-EMB

Dalton Pass East Alignment Road Project



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PUBLIC HEARING HOUSE RULES

Environmental Impact Assessment and Management Division
 EMB Central Office

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Mga Patakaran sa Pagsasagawa ng Public Hearing

1. Ang public hearing ay gagawin sa Tagalog. Gayunpaman, maaari pa ring gamitin ang lengguwahe kung saan kayo mas kumportable.
2. Ang sinumang may gustong sabihin sa open forum ay dapat itaas ang kanyang kamay upang mapayagang magsalita ng hearing officer. Ang mga komento at suhestyon ay maaari ding isulat sa ipapamahaging papel at ibigay sa tauhan ng DENR.
3. Gamitin ang mikropono sa pagsasalita sapagkat ang mga pangyayari ay itinatala.
4. Kung magsasalita sa unang pagakataon, sabihin ang pangalan, opisina/organisasyon na iyong nirerepresenta at ang iyong posisyon.

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Mga Patakaran sa Pagsasagawa ng Public Hearing

5. Ang mga magsasalita ay dapat bigyan ng kaukulang pansin ang nakalaang oras

Project Proponent – 10 minuto para ipaliwanag ang proyekto

EIA Consultant/PP – 15-20 minuto para ipaliwanag ang mga natuklasan sa kanilang pag-aaral

Stakeholders/Concerned citizen – 2 minuto bawat isa

(ang sinumang gustong magsalita ng mas matagal upang ipresenta ang mga importanteng impormasyon gayundin ang mga nangangailangn ng mga gamit tulad ng projector ay dapat magsabi sa hearing officer sa pamamagitan ng EMB personnel bago magsimula ang open forum)

6. Lahat ng presentasyon at katanungan ay dapat maikli, malinaw at direkto. Iwasan ang paggawa ng mahahabang pagsasalita upang magamit ng husto ang partisipasyon ng publiko at upang makamit ang objektib ng public hearing.

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Mga Patakaran sa Pagsasagawa ng Public Hearing

7. Ang mga komento ay dapat gawin bilang kinatawan ng interes ng publiko at hindi pansarili ng sa gayon ay nakapokus ang lahat sa isyung pinaguusapan.

8. Makinig sa taong nagsasalita at iwasan ang paggawa ng anumang nakakabulabog. Ano man ang nararamdaman tungkol sa sinasabi ng taong nagsasalita ay dapat itong ipagtimpi at hintayin ang pagkakataong makapagsalita. Irespeto ang opinion ng iba at ang hindi pagsang-ayon ay dapat isatinig ng maayos.

9. Ang hearing officer ay may karapatang palabasin ang indibidwal o grupo na patuloy na nakakagulo sa ginagawang hearing kung hindi pa rin ito tumigil matapos bigyan ng tatlong babala ng Hearing Officer.

10. Kung maari ay tapusin ang Public Hearing at huwag munang umalis.

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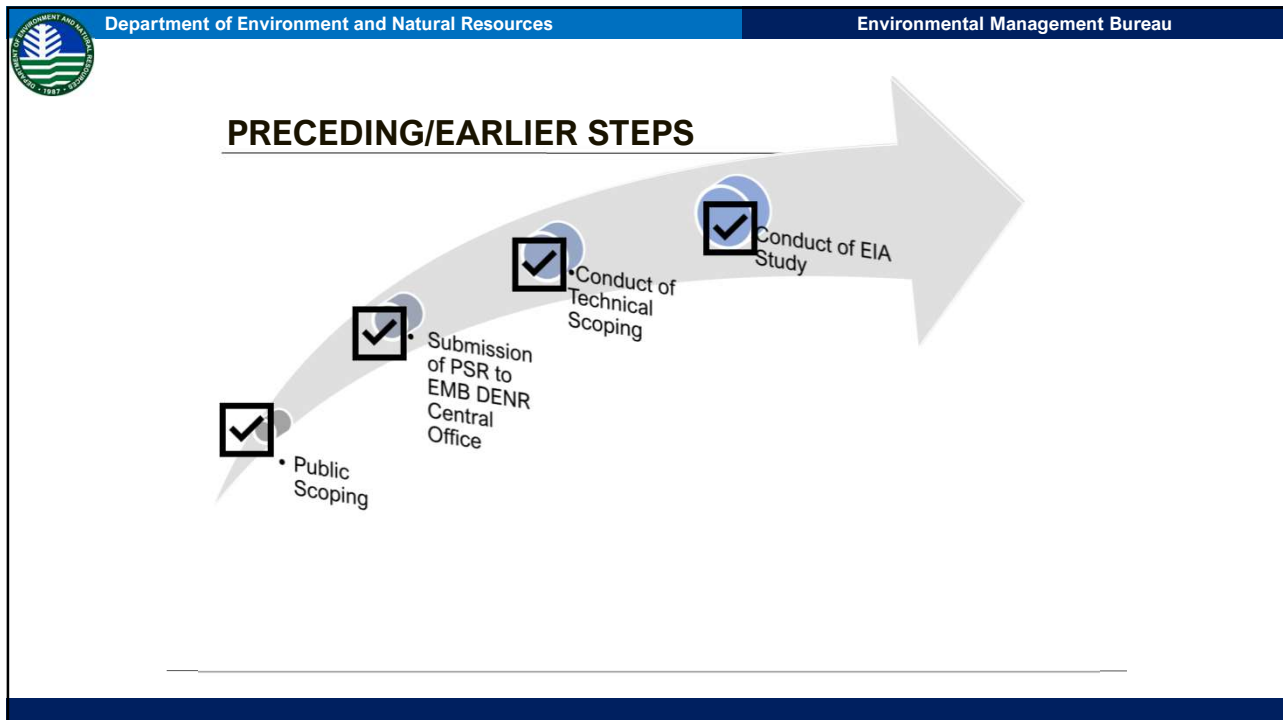


SUSUNOD NA HAKBANGIN
Engr. Joel Polintan
Case Handler, DENR-EMB

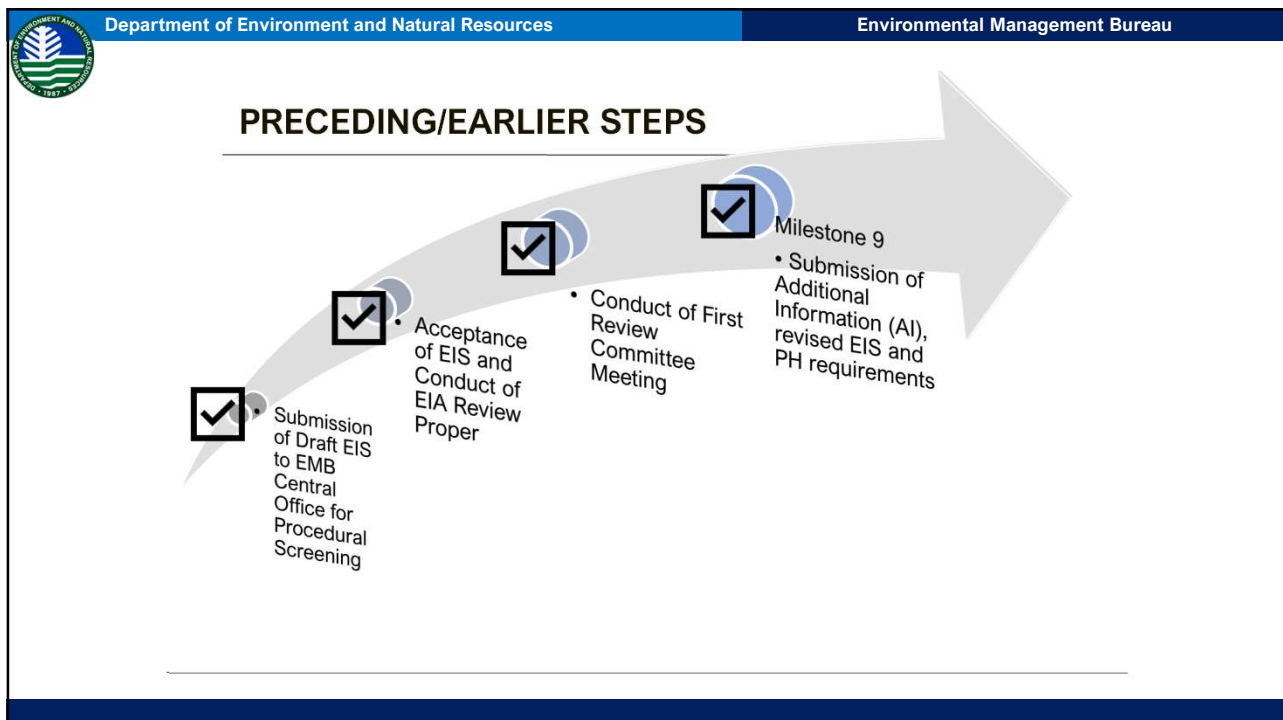


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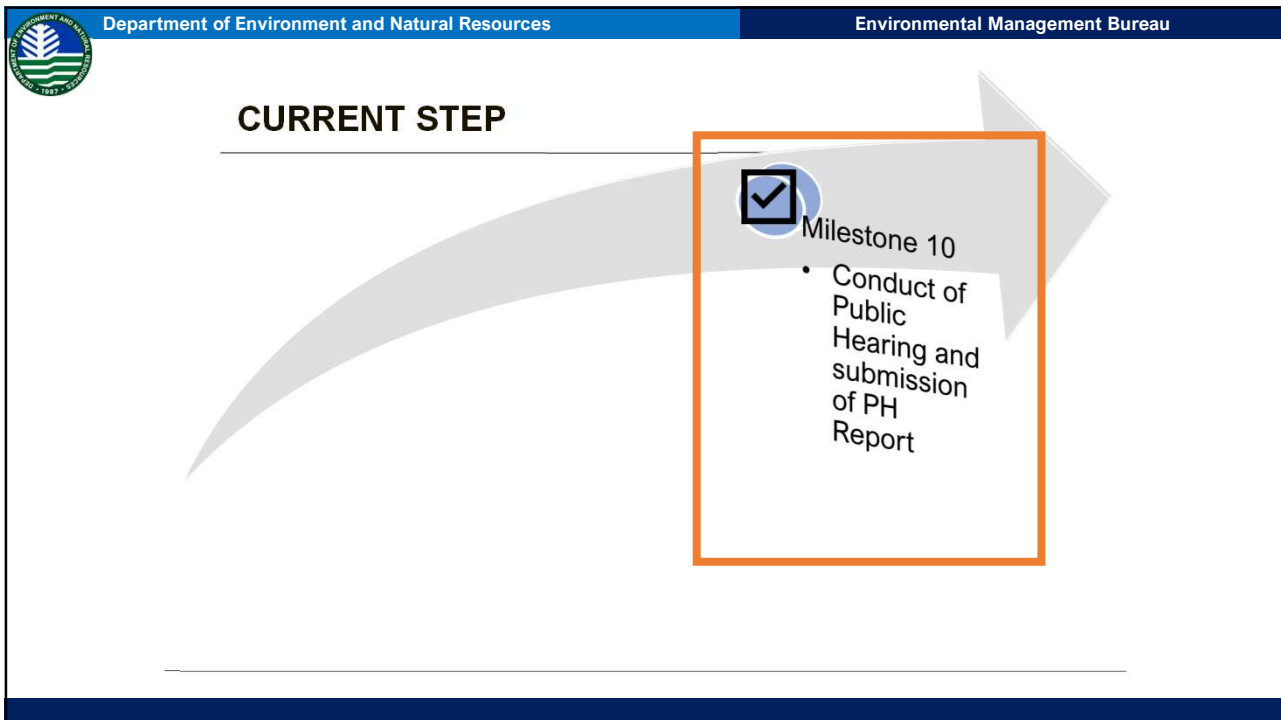
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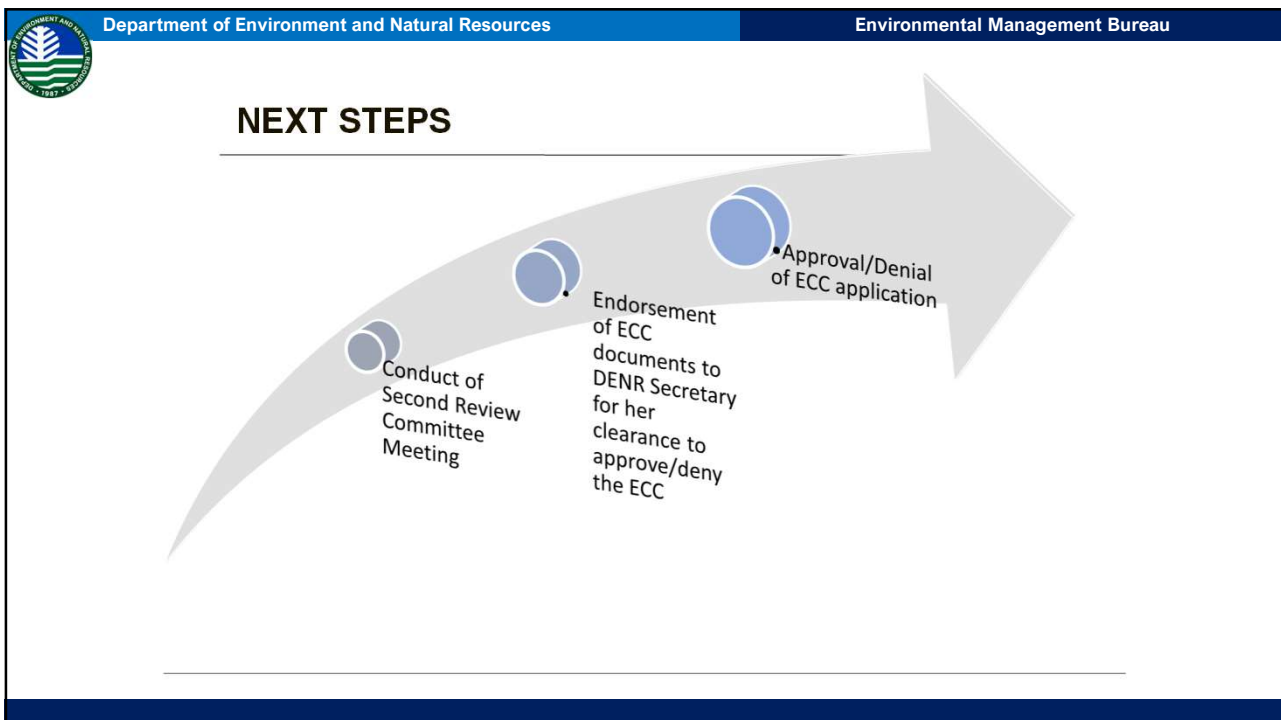
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	Department of Environment and Natural Resources	Environmental Management Bureau
<p style="text-align: center;">CONTACT DETAILS:</p> <hr/> <p style="text-align: center;"><u>ASEC. GILBERT C. GONZALES</u> Director and Concurrent Assistant Secretary for Field Operations</p> <p style="text-align: center;"><u>ENGR. ESPERANZA A. SAJUL</u> Chief, Environmental Impact Assessment and Management Division</p> <p style="text-align: center;">Telephone No.: 02 8539 4378 Email Address: eia@emb.gov.ph www.emb.gov.ph</p> <hr/> <p style="text-align: center;">RECORDS SECTION: recordsco@emb.gov.ph</p>		

101

	Department of Public Works and Highways Dalton Pass East Alignment Road Project	 <p>JOINT VENTURE OF NIPPON KOEI CO., LTD., KATAHIRA & ENGINEERS INTERNATIONAL, NIPPON ENGINEERING CONSULTANTS CO., LTD. & CENTRAL NIPPON EXPRESSWAY CO., LTD.</p>
	PANGHULING MENSAHE Engr. Bill Ponce Project Engineer, DPWH-UPMO-RMC-I(B)	
<h1 style="margin: 0;">Dalton Pass East Alignment Road Project</h1>		

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MARAMING SALAMAT PO!


Dalton Pass East Alignment Road Project

3 Mayo 2023 (Miyerkules) | 9:00 – 12:00 ng tanghali
| Covered Court of the Municipal Hall of Aritao,
Aritao, Nueva Vizcaya





Department of Public Works and Highways
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PUBLIC HEARING PARA SA NUEVA ECIJA

Dalton Pass East Alignment Road Project


4 Mayo 2023 (Huwebes) | 9:00 – 12:00 ng tanghali
| PAG-ASA Gymnasium of the
Municipal Hall of Carranglan,
Carranglan, Nueva Ecija



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Department of Public Works and Highways
Dalton Pass East Alignment Road Project



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Mga Panuntunan at Ilang Paalala

- Tiyakin na ang lahat ng kalahok ay nakapag-tala sa **attendance sheet**.
- Mangyaring sundin ang **social distancing** at magsuot ng **face mask** sa lahat ng oras.
- Magkakaroon ng **open forum** kung saan sasagutin ang mga ng katanungan ng mga kalahok.
- Inaabisuhan ang lahat na ang pag-pupulong ay **recorded**.
- Ang **pag-record** ay para lamang sa mga layunin ng dokumentasyon at hindi ibabahagi ng **DPWH** o **DENR** sa sinuman nang walang paunang pahintulot.

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Dalton Pass East Alignment Road Project



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INBOKASYON

Dalton Pass East Alignment Road Project



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PAG-AWIT NG LUPANG HINIRANG


Dalton Pass East Alignment Road Project



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PAGPAPAKILALA SA MGA NAGSIPAGDALO

Dalton Pass East Alignment Road Project



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PAUNANG PAGBATI
Hon. Rogelio Abad
Local Chief Executive, Carranglan LGU


Dalton Pass East Alignment Road Project



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Dalton Pass East Alignment Road Project



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Programa para sa Public Hearing

8:30 - 9:00	Rehistrasyon	LCI Envi Corporation
9:00 - 9:30	Pagbubukas na mga Gawain <ul style="list-style-type: none"> Inbokasyon Pag-awit ng Lupang Hinirang Pagpapakilala sa mga Nagsipagdalo Paunang Pagbati 	LCI Envi Corporation Hon. Rogelio Abad Local Chief Executive, Carranglan LGU
9:30 - 9:45	Introduksyon sa Public Hearing	Engr. Joel Polintan Case Handler, DENR-EMB
9:45 - 10:45	Presentasyon ng Proyekto <ul style="list-style-type: none"> Pagpapakilala sa Proyekto Resulta ng EIA 	Engr. Bill Ponce Project Engineer, DPWH
10:45 - 11:45	Malayang Talakayan	Atty. Erika Romero Public Hearing Officer, DENR-EMB
11:45 - 12:00	Summary ng Mga Inihayag na Issues at Concerns, Susunod na Hakbangin, at Panghuling Mensahe	Engr. Joel Polintan Case Handler, DENR-EMB Engr. Bill Ponce Project Engineer, DPWH

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INTRODUKSYON SA PUBLIC HEARING
Engr. Joel Polintan
Case Handler, DENR-EMB

Dalton Pass East Alignment Road Project



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9

Section 4 of P.D. 1586

No person, partnership or corporation shall undertake or operate any such declared environmentally critical project or area without first securing an Environmental Compliance Certificate (ECC)



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Ano ang ECC?

**Environmental
Compliance Certificate**

Naka-comply ang proponent
sa requirements ng EIS
System

11

Ano ang ECC?

**Environmental
Compliance Certificate**

Nag commit ang proponent
na ipapatupad nila ang
Environmental Management
Plan

12

Ano ang ECC?

Environmental Compliance Certificate

Conditions na dapat sundin
ng proponent

13

Ano ang EIA?

Environmental Impact Assessment

- Pagplano sa isang proyekto para makita kung ang nasabing proyekto ay mabuti ba sa kalikasan at sa mga taong nakatira sa lugar na pagtatayuan nito
- Paglikha ng mga dapat na hakbang para isama sa disenyo ng proyekto upang ang mga negatibong epekto ay maibsan gamit ang *engineering interventions* at iba pa.



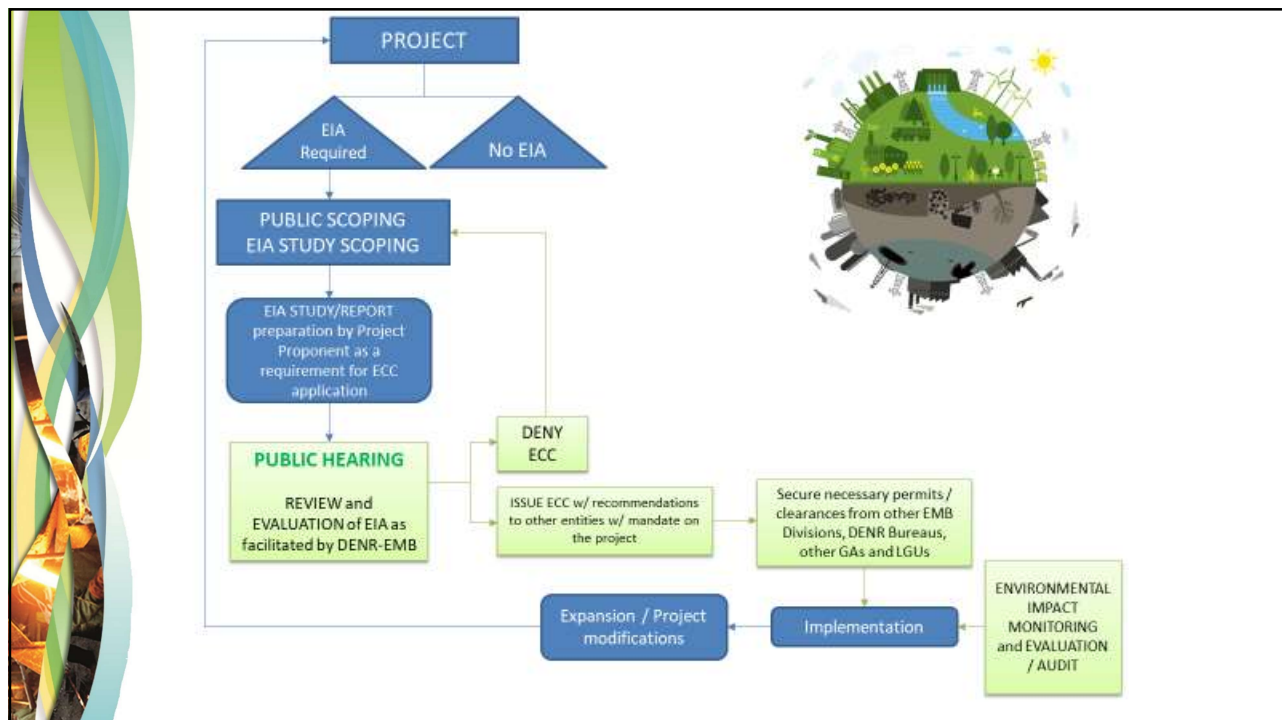
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Sino-sino ang mag-EIA?

- ✓ Project Proponent (DPWH)
- ✓ EIA Consultant (LCI)
- ✓ DENR-EMB
- ✓ Review Committee
- ✓ Affected communities and other stakeholders



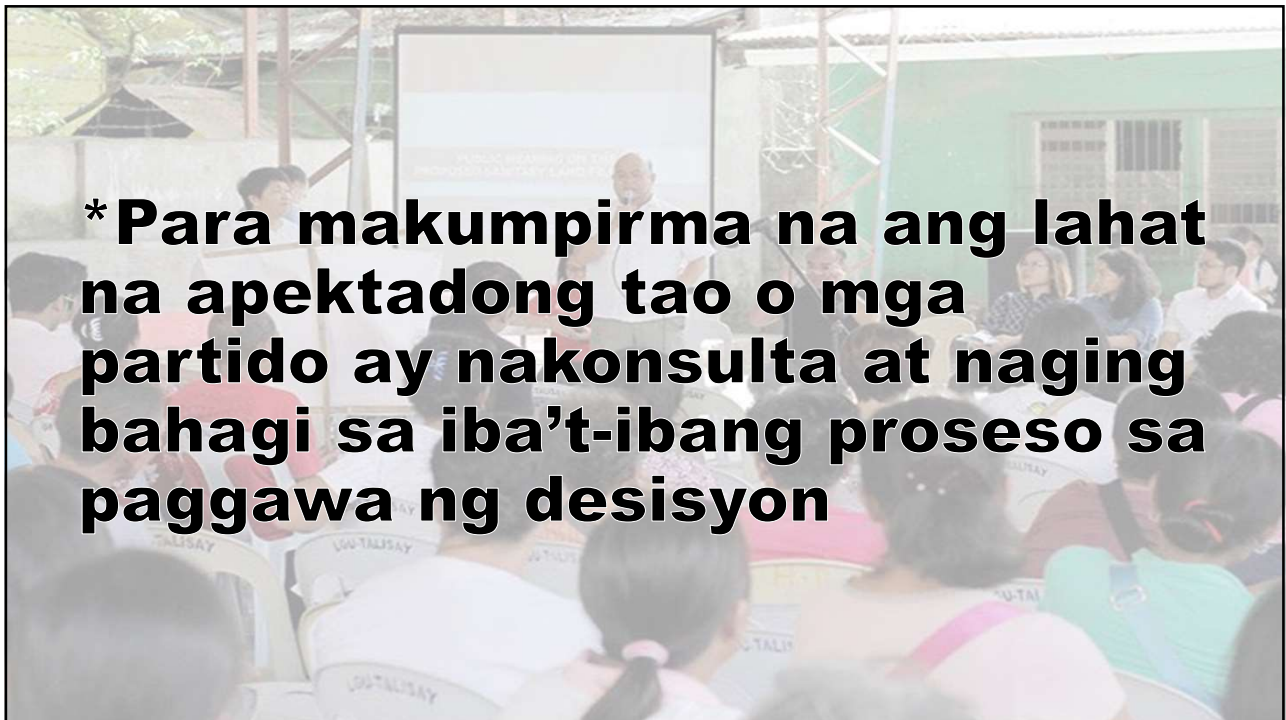
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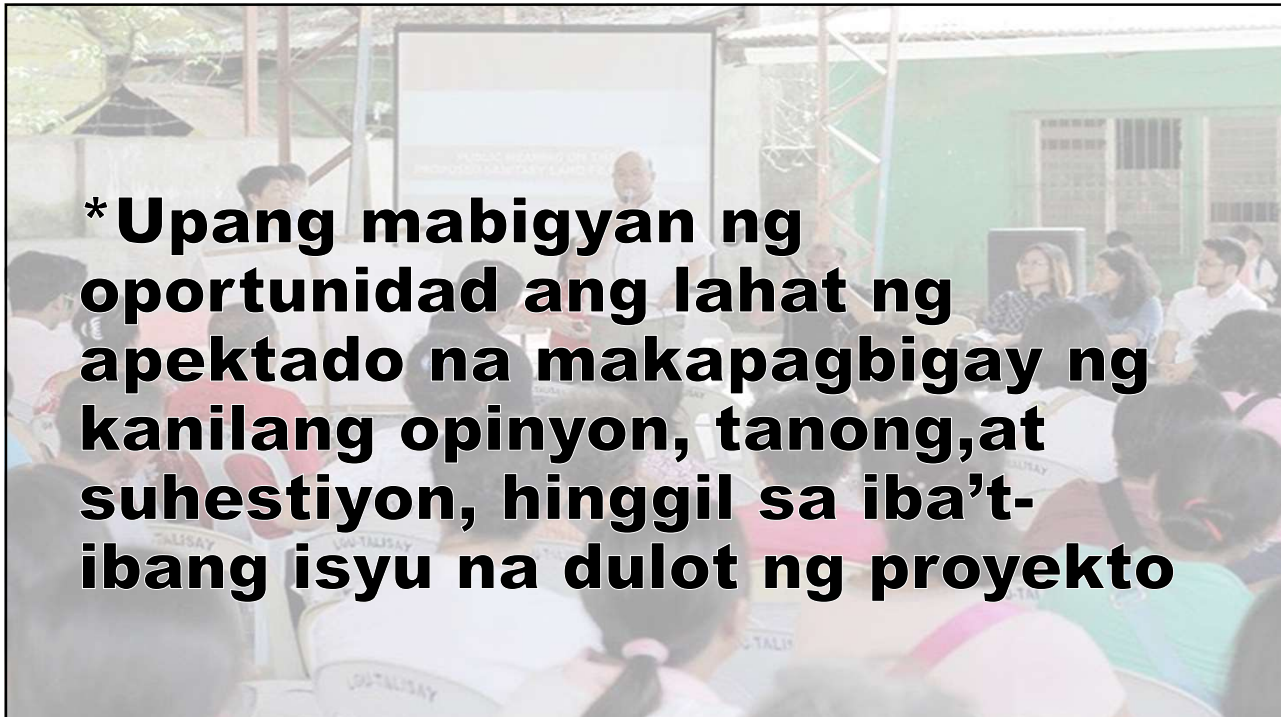
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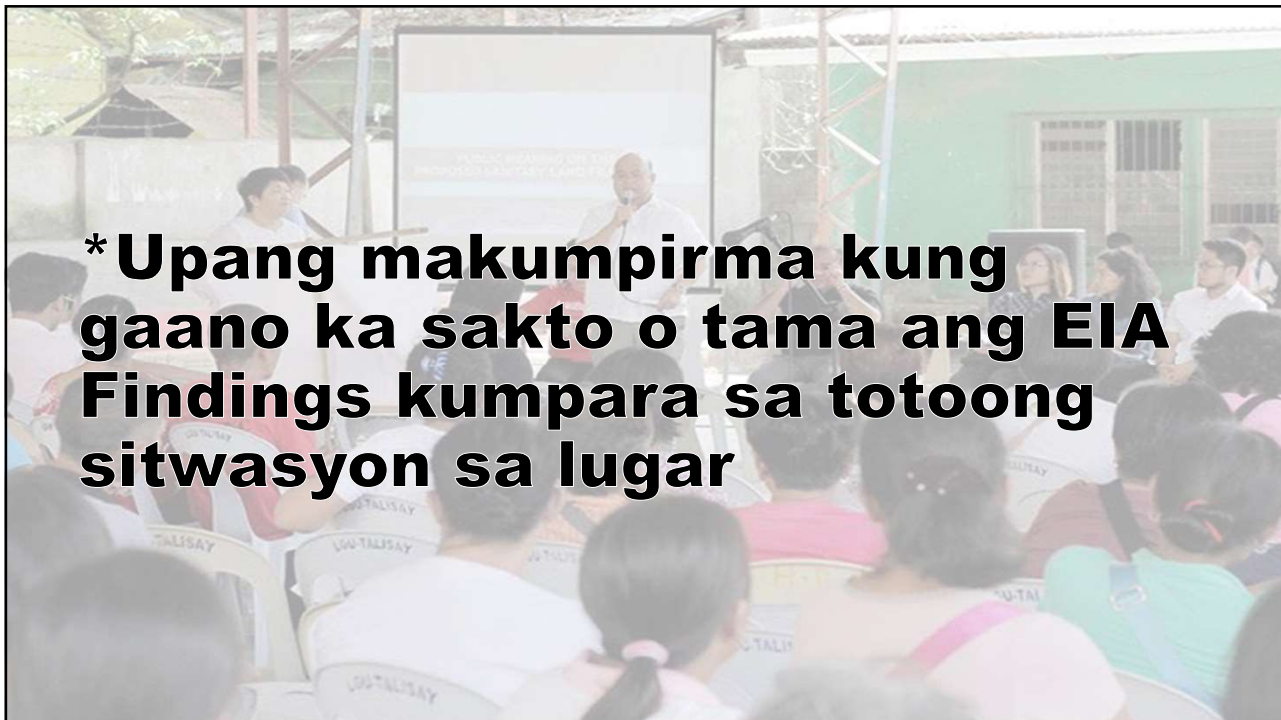


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***Upang mabigyan ng oportunidad ang lahat ng apektado na makapagbigay ng kanilang opinyon, tanong, at suhestiyon, hinggil sa iba't-ibang isyu na dulot ng proyekto**

19

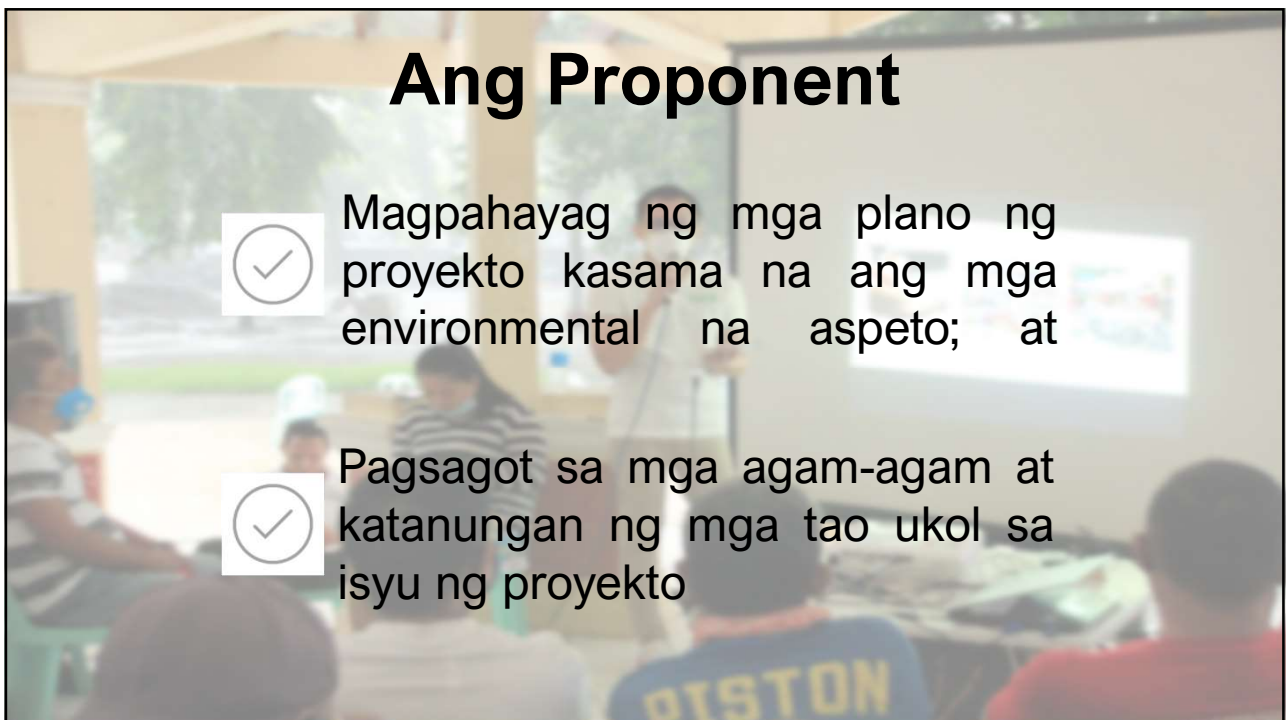


***Upang makumpirma kung gaano ka sakto o tama ang EIA Findings kumpara sa totoong sitwasyon sa lugar**

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Ang Madla



Makinig sa iprepresenta na EIA
Report ng proponent



Magtanong ukol sa resulta ng EIA
Report



Maghintay na masagot ng
proponent ang isyu/concern

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Dalton Pass East Alignment Road Project



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PAGPAPAKILALA SA PROYEKTO
Engr. Bill Ponce
Project Engineer, DPWH-UPMO-RMC-I(B)



Dalton Pass East Alignment Road Project

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Dalton Pass East Alignment Road Project



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Dalton Pass Road (AH26)

- Ang “Dalton Pass” ay isang bahagi ng **Pan-Philippine Highway (PPH)** at isa sa mga **pinakamahalagang trunk road** ng **North-to-South backbone** ng **Philippine Road Network System**.
- Ang nabanggit na bahagi ay matatagpuan sa pagitan ng Barangay Tayabo, San Jose City, Nueva Ecija at Aritao, Nueva Vizcaya ay **kritikal at madalas na sinasara dahil sa landslides (nalalaglag na mga bato at putik)** na siyang nagiging dahilan upang **hindi madaanan ang Dalton Pass**.
- Ang resulta nito ay **kadalasang isolasyon ng Region II (Cagayan Valley Region)** hanggang maisaayos ulit ang nasabing daanan.
- Ayon sa datos, mahigit **600 na mga trak** ang dumadaan sa Dalton Pass araw-araw, dala-dala ang **iba’t ibang produkto** tungong **Metro Manila**.

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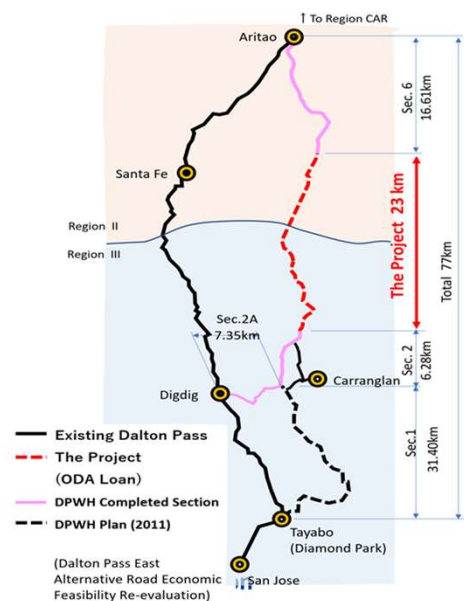
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Dalton Pass East Alignment Road Project



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Dalton Pass East Alignment Road Project (DPEARP)

- Ang **DPWH** ay nakipag-ugnayan sa **Gobyerno ng Japan** para sa pagsasakatuparan ng proyekto dahil sa mga sumusunod na konsiderasyon:
 - Masiguro ang tuloy-tuloy at ligtas na konektibidad ng mga Rehiyong II, III, at CAR** para hindi maantala ang daloy ng mga pang-ekonomiya at importanteng aktibidad sa bansa.
 - Mabawasan ang natural na hazards at risks kaugnay ng kadalasang pagsasara ng kasalukuyang daanan.** Kasama dito ang pagpapaikli ng detour ng mga motorista kung sakaling may bagyo o lindol.



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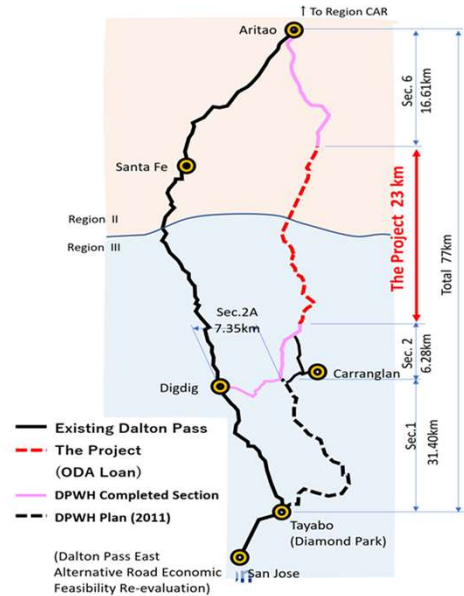
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Dalton Pass East Alignment Road Project



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Layunin ng Proyekto

- Gumawa ng **panibago at ligtas na daanan** na magdudugtong at magpapadali ng **konektibidad sa Region II at Region III.**
- Ang daanan na ito ay magsisilbing **alternatibong ruta** ng kasalukuyang **Dalton Pass.**



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Pambansang Importansya ng DPEARP [2023]

- Kabilang sa **Memorandum of Cooperation (MOC)** for Technical and Business Cooperation on the Construction and Operation and Maintenance of Road Tunnels and Related Facilities.
- Ang pangunahing rason ng pagpupulong ay upang palawigin ang **kooperasyon, ugnayang pangekonomiya, at pag-angat ng kapasidad** sa pagitan ng **Japan** (Ministry of Land, Infrastructure, Transport, and Tourism) at **Pilipinas** (Department of Public Works and Highways).



Signing of the MOC



High-Level Meeting

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Dalton Pass East Alignment Road Project



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Pambansang Importansya ng DPEARP [2023]

- Presidential State Visit ni Pangulong Ferdinand R. Marcos, Jr. sa Japan noong **8-12 Pebrero 2023**.
- **BILATERAL COOPERATION:** Si **Prime Minister Kishida** ay nagpahayag ng kontribusyon ng Japan sa pamamagitan ng ODA at private sector investment upang matulungan ang economic development plan ng Pilipinas, kabilang ang programang “**Build Better More (BBM)**” ng Administrasyong Marcos.



H.E. Ferdinand Marcos Jr. and Prime Minister Fumio Kishida



Summit Meeting

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Dalton Pass East Alignment Road Project



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Pambansang Importansya ng DPEARP [2023]

- **PRIORITY PROJECTS:** Mga proyektong naaprubahan para sa financial assistance mula sa Japan:
- ✓ **Dalton Pass East Alignment Road Project**
- ✓ Central Mindanao High-Standard Highway
- ✓ Parañaque Spillway Project
- ✓ 2nd San Juanico Bridge
- ✓ Davao City Flood Control Project




Dalton Pass East Alignment Road Project




North Portal of South Tunnel

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Department of Public Works and Highways

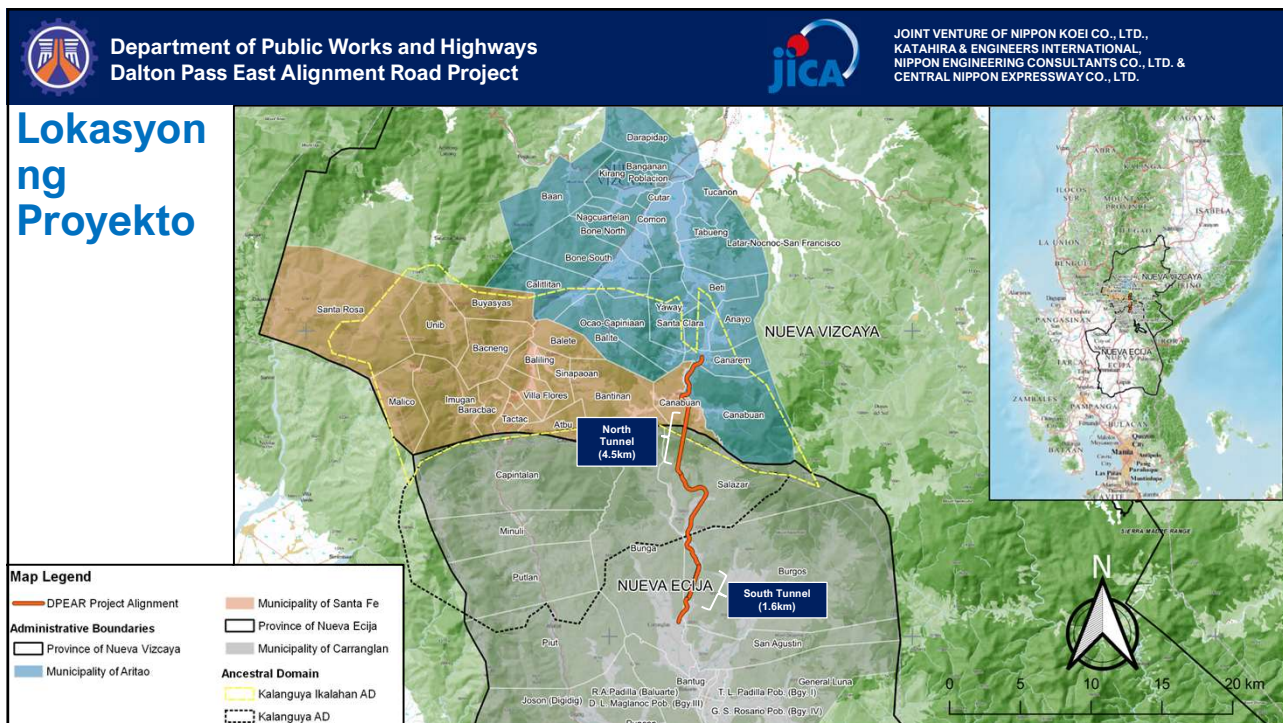
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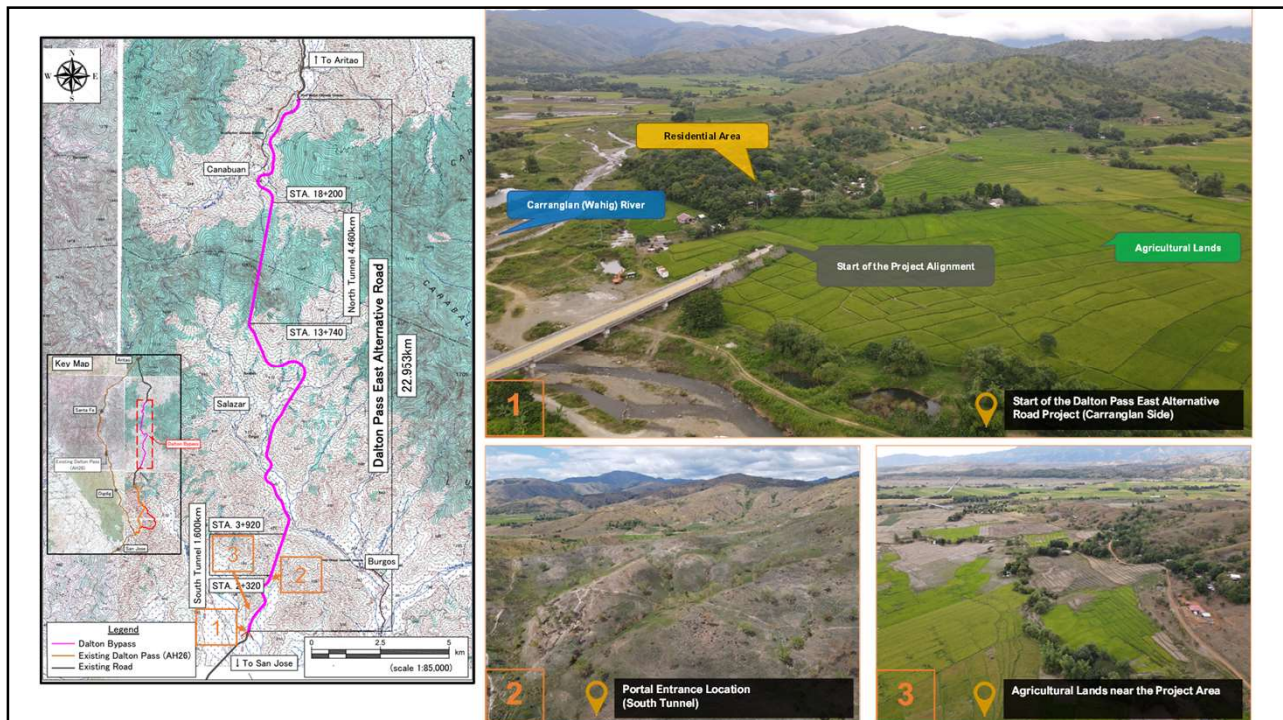
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PANGALAN NG PROYEKTO		Dalton Pass East Alignment Road Project			
URI NG PROYEKTO		Daanan, Tunnel, at Tulay			
LOKASYON	REHIYON/PROB.	MUNISIPALIDAD		BARANGAY	
	Region II (Nueva Viscaya)	Aritao		Canabuan Canarem	
	Region III (Nueva Ecija)	Santa Fe		Canabuan	
	Region III (Nueva Ecija)	Carranglan		Bunga Burgos Salazar	
LAKI NG PROYEKTO AT BAHAGI NITO	Daanan	Kabuuang Kahabaan: ~23 km Linya: 4 Lawak: 60 m road right-of-way Desenyong Bilis: 60 km/hr.			
	Tunnel	Kabuuang Kahahaan: ~6.1 km Haba ng North Tunnel: 4.5 km Haba ng South Tunnel: 1.6 km Mayroong pailaw, bentilasyon, at kagamitang pangkaligtasan (emergencies)			
	Tulay	Kabuuang Bilang: 14 Pantawid sa mga ilog at creeks Mayroong slope protection			
PROPONENT		<div>  <div> <div>Department of Public Works and Highways</div> <div>Roads Management Cluster I (Bilateral)</div> <div>Unified Project Management Office</div> </div> </div> <div> <div>Authorized Representative:</div> <div>Director Benjamin A. Bautista</div> </div>			

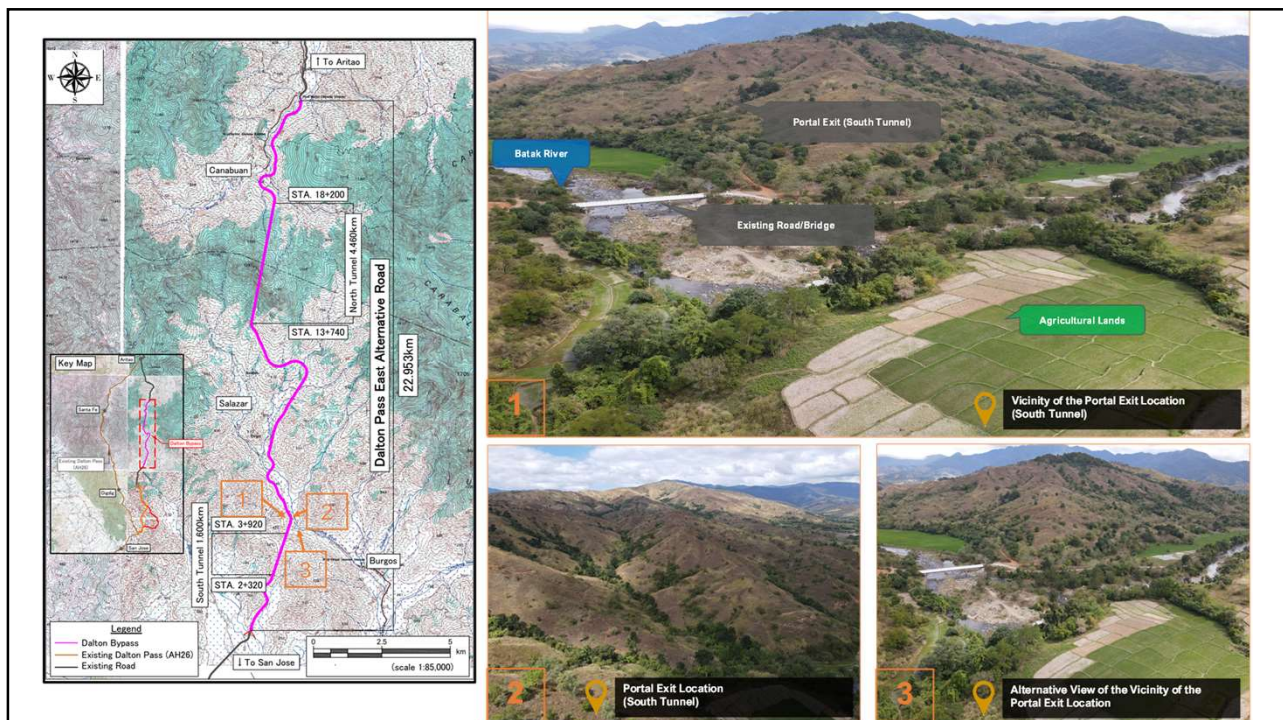
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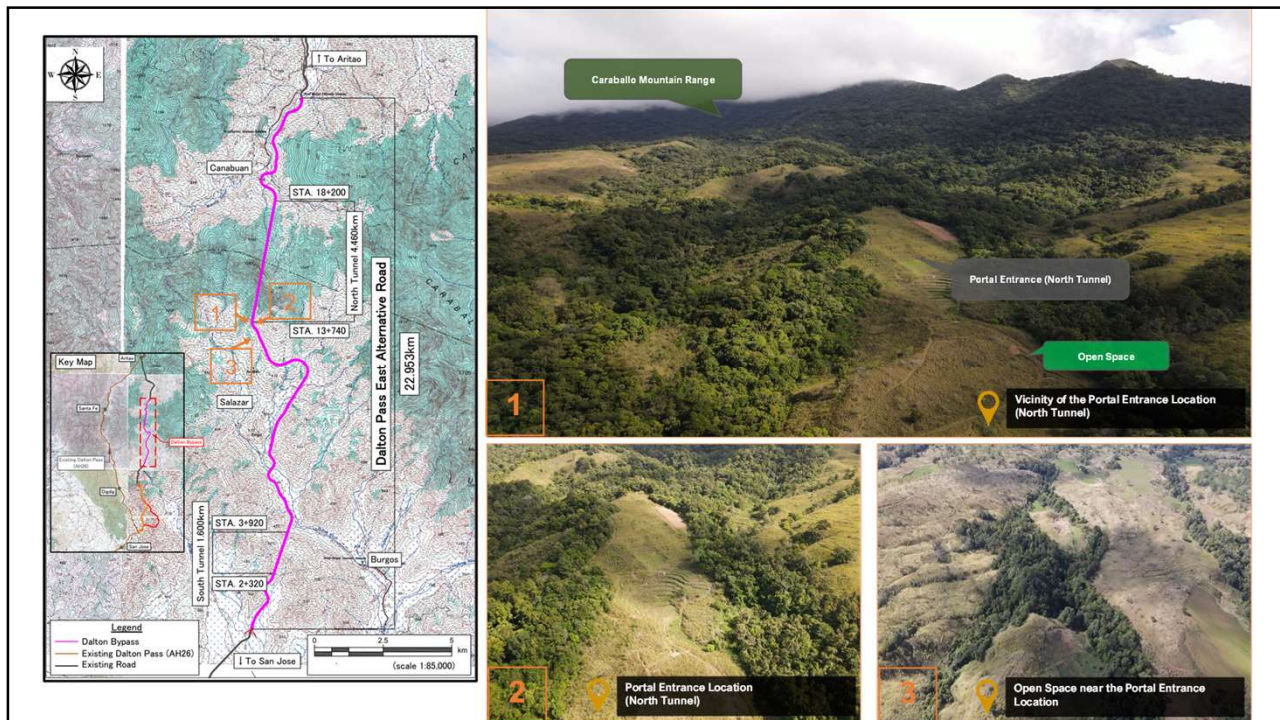
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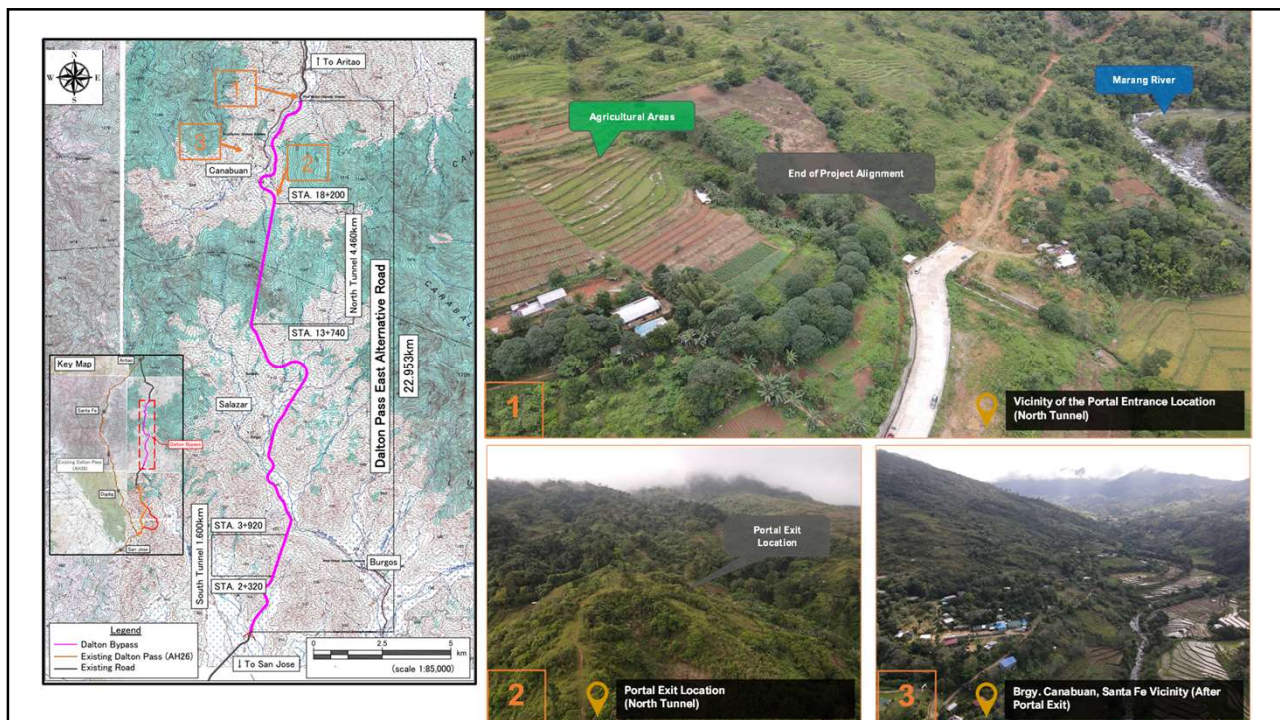
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Katangian ng DPEAR Project

Kabilang sa prayoridad na proyekto ng kasalukuyang Administrasyon

Official Development Assistance (ODA) Project ng Japan International Cooperation Agency (JICA)

Dalton Pass nuong Luzon Earthquake, 1990
Photo credits: Robert John Martin

Nabuo ang plano ng proyekto upang hindi maulit ang nangyari nuong 1990 Luzon Earthquake

Kaybiang Tunnel Nasugbu-Ternate Highway
Maragondon, Cavite

20 beses na mas mahaba ang tunnel kesa sa Kaybiang Tunnel, kasalukuyang pinakamahabang subterranean road tunnel, na mayroong haba na 300 metro

Pantabangan-Carranglan Watershed Forest Reserve

Ilang bahagi ng proyekto ay pasok sa Pantabangan-Carranglan Watershed Forest Reserve (PCWFR)

NATIONAL COMMISSION ON INDIGENOUS PEOPLES
1997

Ilang bahagi ng proyekto ay pasok sa 2 Ancestral Domains (ADs), at nakakuha na ng karampatang permiso (Certification Precondition) sa mga katutubo at NCIP

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PCWFR

- Ang **Pantabangan - Carranglan Watershed Forest Reserve** ay isang protected area ayon sa Presidential Proclamation No. 561 taong 1969.
- Makikita sa mapa na may bahagi ng DPEAR ang papasok sa loob nito (Brgy. Burgos at Brgy. Salazar).
- Ang DPWH ay tuloy-tuloy na nakikipagugnayan sa DENR, PENRO/CENRO at PAMB para sa nasabing proyekto

PANTABANGAN-CARRANGLAN WATERSHED FOREST RESERVE

LEGEND

- DPEAR Alignment
- DPEAR ROW
- Pantabangan-Carranglan Watershed Forest Reserve
- Barangay Canabuan (Santa Fe)
- Barangay Canabuan (Anitao)
- Barangay Salazar
- Barangay Burgos
- Barangay Canarem

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Ancestral Domains

- Malaking bahagi ng DPEAR ay saklaw ng Ancestral Domains (AD) ng mga katutubo sa Nueva Ecija at Nueva Vizcaya.
- Nagkaroon ng pakikipag-ugnayan at kasunduan ang DPWH, kasama ang NCIP, sa mga katutubo sa pamamagitan ng pagsasagawa ng Free and Prior Informed Consent (FPIC) ayon sa RA No. 8371 o IPRA Law.

ANCESTRAL DOMAINS

LEGEND

- DPEAR Alignment
- DPEAR ROW
- Pantabangan-Carrangalan Watershed Forest Reserve
- Kalanguya Ikalahan Ancestral Domain (RII)
- Kalanguya Ancestral Domain (RIII)
- Barangay Canabuan (Santa Fe)
- Barangay Canabuan (Antao)
- Barangay Salazar
- Barangay Burgos
- Barangay Canabuan

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Kalsada o Daanan

- Ang disenyo ay nakabase sa DPWH Design Guidelines, Criteria & Standards (DGCS), 2015.
- 4 na linya ang kalsadang gagawin.
- Disenyo para sa bilis ng mga sasakyan: **60 km/hr.**

Paalala: Inisyal na disenyo lamang. Maaari pa itong mabago.

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Tunnel

No.	Item	Description	Standard
1	Traffic and Number of tunnel tube	1 main tunnel of 2-way traffic and 1 evacuation tunnel.	Road Structure Ordinance (JP)
3	Lane width	3.35m	DGCS: Vol. 4 2015
4	Vertical clearance	5.0 m	DGCS: Vol. 4 2015, P. 3-81
5	Width of shoulder	1.25 m	DGCS: Vol. 4 2015, P. 3-65
6	Width of sidewalk	0.50 m	DGCS: Vol. 4 2015, P. 3-81
7	Width of maintenance walk	0.75 m	NEXCO standard
8	Height of maintenance walk	0.90 m	NEXCO standard
9	Maximum gradient	3.0%	Road Structure Ordinance (JP) 2004
10	Minimum gradient	0.5%	Road Structure Ordinance (JP) 2015
11	Vertical clearance of maintenance walk	2.00 m	NEXCO standard
12	Interval of emergency crossing passage for vehicle	375 m	Technical Standard for Road Tunnel (Structure Division)
13	Interval of emergency crossing passage for vehicle	750 m	Technical Standard for Road Tunnel (Structure Division)
14	Interval of emergency parking lane	375 m	Technical Standard for Road Tunnel (Structure Division)
15	Ventilation	Mechanical Jet-fan	Technical Standard for Road Tunnel (Ventilation Division)

Source: JICA Study Team

Type	Wall Type
Item	Wing Type
Shape	
Overview	Planned as an earth retaining wall by cutting the ground. Economical because tunnel length can be shortened. Adopted for most railway tunnels.
Ground conditions appropriate for application	<ul style="list-style-type: none"> - Comparatively steep topographic features where ground will be cut and portal will be constructed - Where an earth retaining wall or enlarged retaining wall will be constructed for an oblique type slope.
Meteorological conditions appropriate for application	- Few problems even when used in snowy areas.

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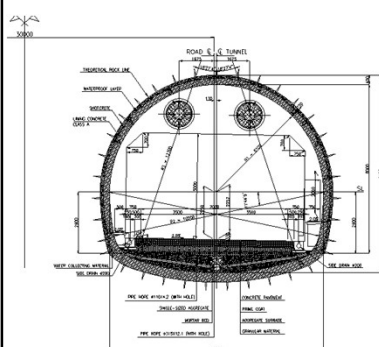


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Tunnel



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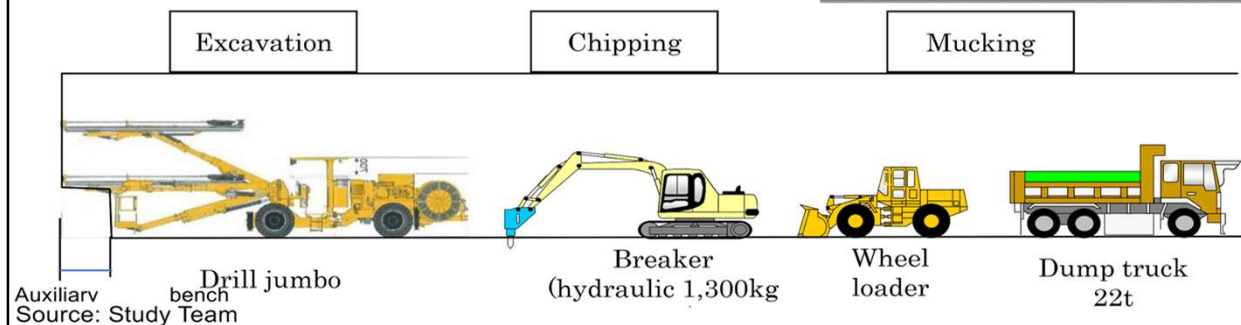
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Paggawa ng Tunnel

- Gagamitin ang New Austrian Tunneling Method (NATM) sa paggawa ng tunnel.



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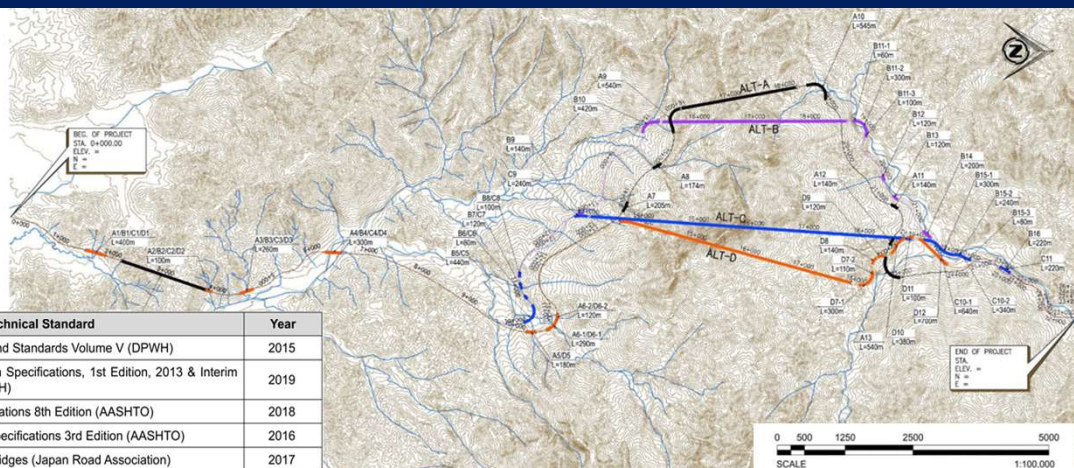


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Tulay



No.	Technical Standard	Year
1	Design Guidelines, Criteria and Standards Volume V (DPWH)	2015
2	LRFD Bridge Seismic Design Specifications, 1st Edition, 2013 & Interim Revision 2019 (BDS) (DPWH)	2019
3	LRFD Bridge Design Specifications 8th Edition (AASHTO)	2018
4	LRFD Bridge Construction Specifications 3rd Edition (AASHTO)	2016
5	Specifications for Highway Bridges (Japan Road Association)	2017

No.	Item	Value
1	Design Flood Level River	5m from riverbed
	Irrigation canal	5m from riverbed
2	Freeboard	1.5m
3	Construction Limit (Project Road)	5m

Source: JICA Study Team

BRIDGES	MUNICIPALITY	BARANGAY	LENGTH (m)	BRIDGES	MUNICIPALITY	BARANGAY	LENGTH (m)
D1	Carranglan	Burgos	400	D7-1	Santa Fe	Canabuan	300
D2	Carranglan	Burgos	100	D7-2	Santa Fe	Canabuan	110
D3	Carranglan	Burgos	260	D8	Santa Fe	Canabuan	140
D4	Carranglan	Burgos	300	D9	Santa Fe	Canabuan	120
D5	Carranglan	Salazar	180	D10	Santa Fe	Canabuan	380
D6-1	Carranglan	Salazar	290	D11	Aritao	Canabuan	100
D6-2	Carranglan	Salazar	120	D12	Aritao	Canabuan	700

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Project Utilities

Water Supply	<p>Ang tubig na kakailanganin at gagamitin ng proyeto ay kukunin mula sa lokal na water supply sa lugar na kinabibilangan ng proyeto.</p> <p>Kinokonsidera din ang paggamit ng water sources kagaya ng spring water, groundwater, rainwater, at iba pa.</p>
Power Supply	<p>Ang kakailanganing power supply ay kukunin mula sa lokal na power supply utility na mayroon sa lugar (NUVELCO at NEECO II).</p> <p>Sa mga bahagi ng proyeto na hindi sakop ng linya ng kuryente, gagamit ang proyeto ng generator sets.</p>
Construction Materials	<p>Ang mga material para sa konstruksyon, kabilang ang mga aggregates, ay bibilhin o kukuhain mula sa probinsya ng Nueva Vizcaya at Nueva Ecija.</p> <p>Kinokonsidera din ang pagbili at pagkuha ng mga materyales sa kalapit na mga probinsya.</p>

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Iskedyul ng Proyektu

PROJECT PHASE	TAON
Preparasyon (Pre-Construction)	2019 hanggang 2025
▪ Detailed Engineering Design	2024
▪ Bidding at pagpili ng kontraktor	2025
Konstruksyon	2026 hanggang 2030
Operasyon	2031 -

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Manpower Requirements

PROJECT PHASE	BILANG
Pre-Construction	120
Construction	2,000
Operation	25
Abandonment	50

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MGA NATAPOS NA GAWAIN PARA SA EIA
Engr. Joma Lim
EIA Team Leader

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Notice of Online Public Scoping

EIS2 Requirement Registry of EIA Practitioners Updated List of EISPs with EICCs Template Notice/EISCC Calendar of Events

YOU HAVE BEEN NOTIFIED OF ONLINE PUBLIC SCOPING.

Date Posted	Project Name	Project Proponent	Project Location	Date/Time	Videconference [via Zoom]
Thursday, 14 November 2021	Dakota Pass East Alternative Road Project	Department of Public Works and Highways (DPWH)	Municipalities of Arlava and Santa Fe in Nueva Vizcaya and the Municipality of Cagayan in Nueva Ecija	16 November 2021 (Tuesday) 1:00 PM to 3:00 PM	https://us02zoom.us/join?pwd=UWZlMjQzZWlnRkVlcUJhbnBkd0o0aDZkdz09 https://wvc.zoom.us/j/9025129n0x0f5?pwd=MTA4MDIy Meeting ID: 832 4495 2499 Passcode: 602529

[Notice of Public Scoping](#) [EISCC Checklist](#)



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Kahandaan sa Public Hearing

- Posting sa EMB website 11 April 2023
- Publication sa National Circulation Newspaper
- 1st Publication – 18 April 2023
- 2nd Publication - 25 April 2023

TUESDAY / APRIL 18, 2023
WWW.INQUIRER.NET

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RESULTA NG EIA

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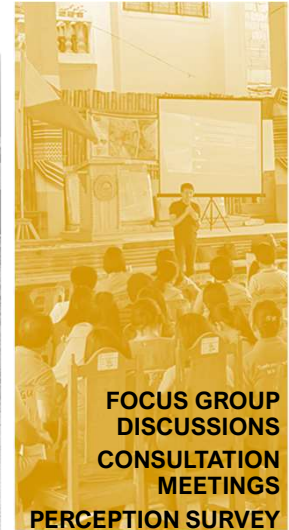


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Mga Isinagawang EIA Activities



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DIA (LUPA):

- Lugar kung saan gagawin ang DPEAR
- Kabilang ang lokasyon ng soil disposal area.
- Lugar sa loob ng Pantabangan-Carranglan Watershed Forest Reserve (PCWFR)

DIA (TUBIG):

- Ilog at creeks na daanan ng DPEAR

DIA (HANGIN):

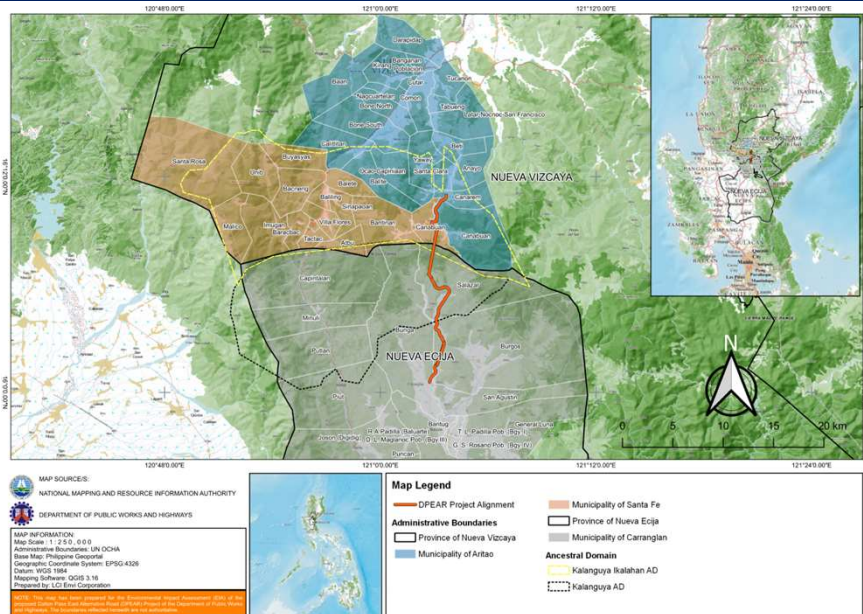
- Road-right-of-way (RRoW) ng DPEAR sa loob ng impact barangays

DIA (TAO):

- Project Affected Families (PAFs) na nakatira sa loob ng alignment ng DPEAR.
- Munisipalidad ng Aritao, Santa Fe, at Carranglan
- Barangays Canabuan, Canabuan, Canarem, Bunga, Burgos, at Salazar.
- Kalanguya Ikalahan at Kalanguya Ancestral Domains kung saan naroroon ang proyekto.

IIA (TAO):

- Mga barangays na nasa labas ng project alignment at nasa loob ng munisipalidad ng Aritao, Santa Fe, at Carranglan.



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MGA NATUKLASAN AT DISKUSYON
TUNGKOL SA LUPA


Dalton Pass East Alignment Road Project



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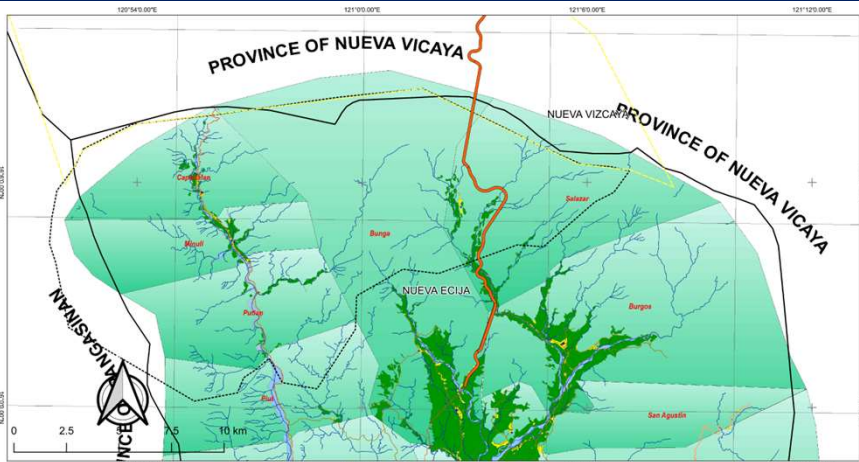


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Land Use ng Carranglan



MAP SOURCE:
MUNICIPALITY OF CARRANGLAN
PROPOSED GENERAL LAND USE MAP

MAP INFORMATION:
Map Scale: 1 : 2 0 0 0 0
Administrative Boundaries: UN OCHA
Base Map: Carranglan Proposed General Land Use Map
Geographic Coordinate System: EPSG:4326
Datum: WGS 1984
Mapping Software: QGIS 3.16
Prepared by: LCI Enr. Corporation

Map Legend

— DPEAR Project Alignment	 Ancestral Domain	 Forest
 Administrative Boundaries	 Kalanguya Ikalahad AD	 Agricultural
 Province of Nueva Ecija	 Kalanguya AD	 Cemetery
 Municipality of Carranglan		 Commercial
		 Institutional
		 Residential
		 Agri-Industrial

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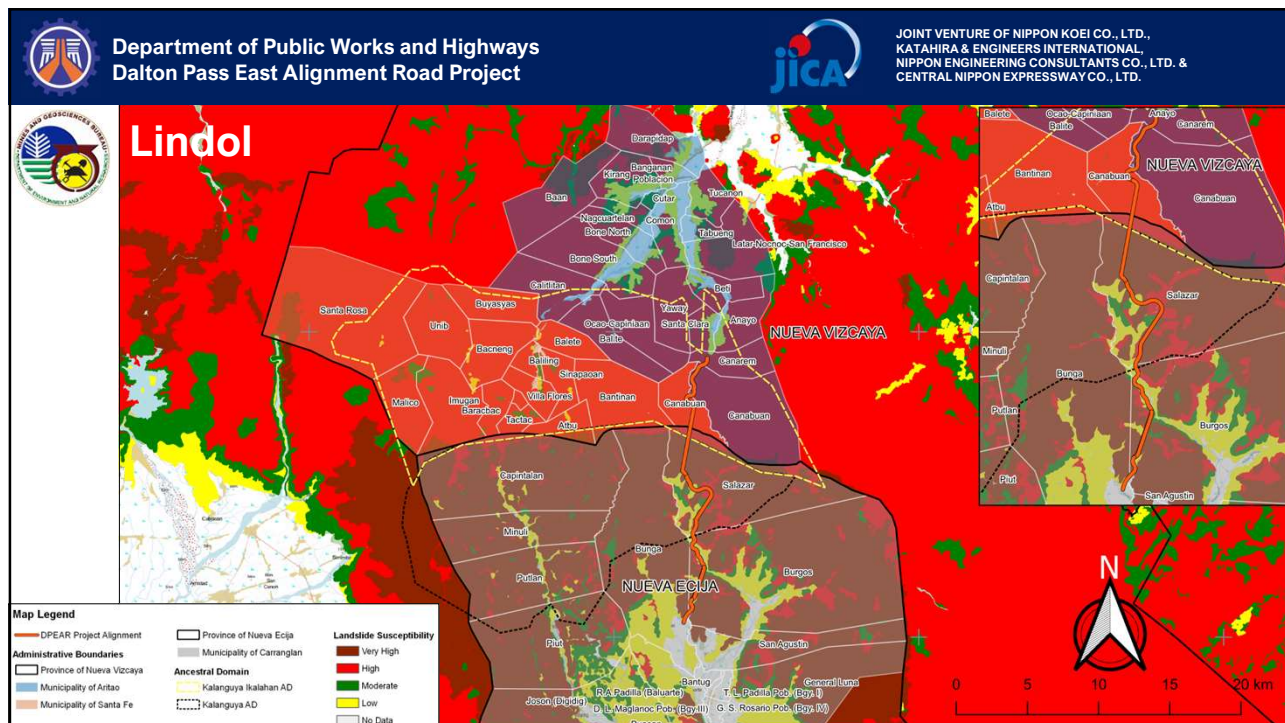


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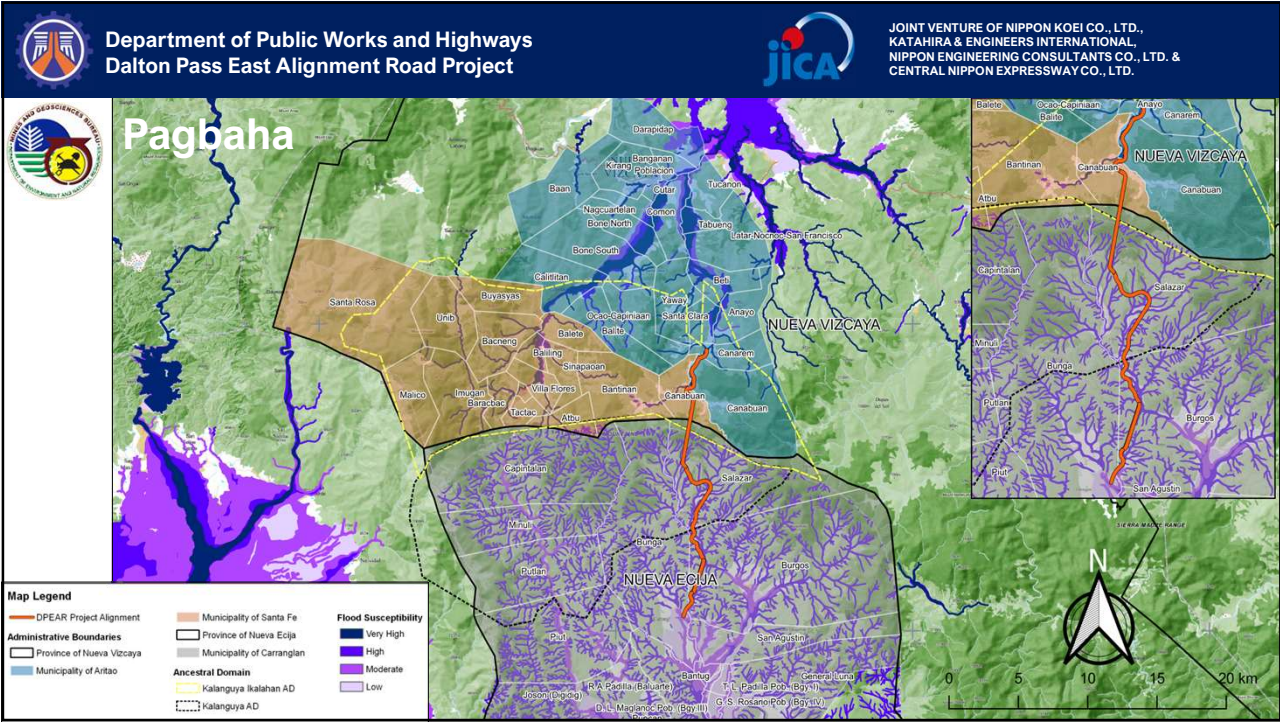
Geohazard Assessment

GEOLOGIC HAZARD	RESULTA NG PAG-AARAL	MITIGATING MEASURES
Earthquake (<i>Lindol</i>)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay 11 km sa silangan ng Philippine Fault System. Ang lokasyon ng proyekto ay maaaring maapektuhan ng lindol. 	<ul style="list-style-type: none"> Pagkonsidera sa seismic design criteria sa detailed engineering design base sa structural codes (tunnel structures at equipment installations) o mas mataas na standard. Pag-implement ng standard design at procedures sa construction ayon sa Building Code o mas mataas na standard.
Liquefaction (<i>Pag-guho ng malambot na lupa</i>)	<ul style="list-style-type: none"> Ang pasukan at labasan na mga daanan ng DPEARP ay maaring maapektuhan ng liquefaction. 	<ul style="list-style-type: none"> Pagkonsidera sa soil investigation results sa detailed engineering design.
Landslide (<i>Pag-guho ng lupa</i>)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay may magkakaibang susceptibility sa earthquake-induced landslide. Ilang lugar sa north tunnel at sa bahagi ng Brgys. Canabuan at Canarem ay may mataas na susceptibility sa rain-induced landslide. 	<ul style="list-style-type: none"> Pagkonsidera sa seismic hazards sa detailed engineering design. Aplikasyong ng excavation techniques na wala o maliit na impacts sa landslide at kondisyon ng lupa. Paglalagay ng protection structures (i.e., embankments, barrier walls) Pagalis ng hindi stable na lupa sa site development. N/A
Volcanic Events (<i>Pagputok ng bulkan</i>)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay hindi maapektuhan ng pagputok ng bundok. 	<ul style="list-style-type: none"> N/A
Tsunami (<i>Sunami</i>)	<ul style="list-style-type: none"> Ang lokasyon ng proyekto ay hindi maapektuhan ng tsunami. 	<ul style="list-style-type: none"> N/A
Flooding (<i>Pagbaha</i>)	<ul style="list-style-type: none"> Ang bahagi ng proyekto sa Brgys. Salazar, Burgos at Bunga ay may low hanggang moderate na susceptibility sa pagbaha. Ang hilagang exit na daan ng alignment ay may mataas na susceptibility sa pagbaha. 	<ul style="list-style-type: none"> Pagsasagawa ng maayos na disenyo at konstruksyon ng akmang drainage system bilang bahagi ng proyekto.

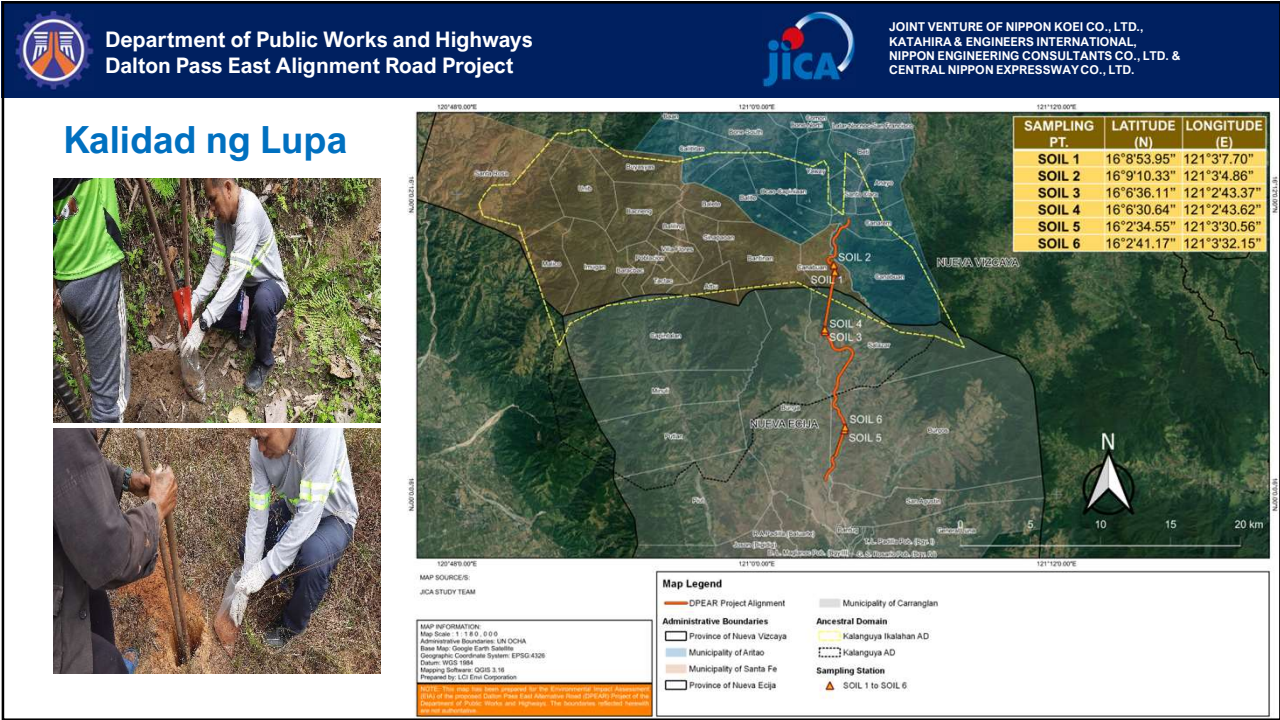
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Kalidad ng Lupa [February 2022]

- Ang kalidad ng lupa ay hindi lumagpas sa standards.

PARAMETER	UNIT	DETECTED LEVEL AT THE SAMPLING POINTS BASED ON LABORATORY ANALYSIS (Values in RED exceed reference standard/s)						DUTCH INTERVENTION VALUE (Dutch Soil Remediation Circular 2013)
		SP1	SP2	SP3	SP4	SP5	SP6	
A. Micronutrients								
Iron	mg/Kg	14,500	30,200	-	-	-	-	-
Boron	mg/Kg	ND	ND	ND	ND	ND	ND	-
Manganese	mg/Kg	207	80	420	173	44	26	-
Zinc	mg/Kg	13	2.6	1.0	8.7	3.3	0.7	720
Copper	mg/Kg	24	5.9	16	9.0	0.7	1.0	190
Molybdenum	mg/Kg	ND	ND	ND	ND	ND	ND	190
Nickel	mg/Kg	1.0	0.5	3.0	1.2	ND	ND	100
B. Metals								
Arsenic	mg/Kg	ND	ND	ND	ND	ND	ND	76
Cadmium	mg/Kg	0.2	0.09	0.3	0.2	ND	ND	13
Mercury	mg/Kg	ND	ND	ND	ND	ND	ND	-
Lead	mg/Kg	0.9	0.6	1.0	0.4	ND	ND	530
Potassium	mg/Kg	415	33	15	67	67	ND	-
Selenium	mg/Kg	ND	ND	ND	ND	ND	ND	100
C. Wet Chemistry								
pH		5.4	6.2	6.6	5.8	5.8	5.8	-
Total Phosphorus	mg/Kg	303	326	297	330	133	230	-
Hexavalent Chromium	mg/Kg	ND	ND	ND	ND	ND	ND	-
Fluoride	mg/Kg	0.3	0.9	1.2	0.6	0.4	0.4	-
Total Organic Matter	% w/w	0.56	1.26	0.9	2.22	1.24	0.16	-

NOTES: SP = Sampling Point | ND = Not Detected | mg/kg = milligrams per kilogram | (*) Method detection limit
REFERENCE: Dutch Soil Remediation Circular, 2013, Annex 1, Table 1

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Terrestrial Ecology (Flora at Fauna) [June 2021 at January 2022]

- Ayon sa International Union for Conservation of Nature (IUCN), **isang** species ay kinokonsiderang “highly threatened” na mayroong endangered (EN) status - **Narra**.
- Maliban sa Narra, mayroong **4 na species** na natagpuan na kinokonsiderang **vulnerable (VU)** at **isang Other Threatened Species (OTS)**. Kabilang sa VU ang **Almon** (*Shorea almon*), **Red lauan** (*Shorea negrosensis*), **Malakmalak** (*Palaquium philippense*), and **Tagbak** (*Alpinia elegans*). Kabilang naman sa OTS ang **Gakakan** (*Drypetes falcata*) base sa DENR DAO 2017-11.
- Mayroong **anim na species ng hayop** na kabilang sa **updated list of threatened Philippine fauna species**. Isa ang **Critically Endangered** (Amethyst Brown Dove), isa ang **Endangered** (Philippine Deer), **dalawa** ang **Vulnerable** (Wild Boar and Philippine Duck) at **dalawang** species ay kabilang sa **Other Threatened Species** (Gecko and Python).

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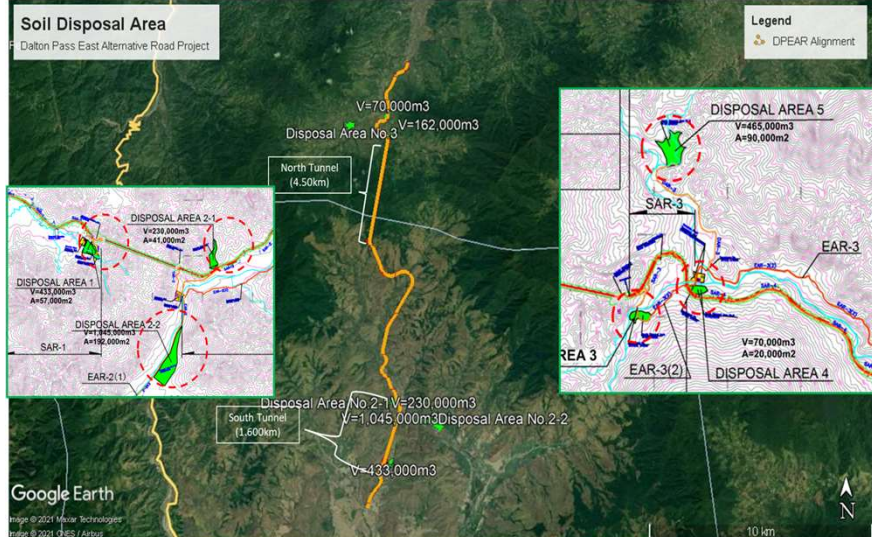
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Generation ng Surplus Soil

- May humigit kumulang **2.4 million m³** ng excavated soil ay ma-generate ng proyekto.
- Mayroong **5 na disposal sites** malapit sa tunnel portal ng proyekto kung saan ang nahukay na mga lupa ay ilalagay.
- Ang mga nahukay na lupa ay maaaring gamitin bilang panambak na material sa paggawa ng nasabing proyekto.
- Ang pinal na lokasyon ay pagdedesisyonan pa, kasama ang mga IP Leaders ng 2 Ancestral Domains.



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Vegetation Removal

- Ang inisyal na natukoy na tanim na timber species ay nasa **870 timber na puno**. Bukod pa dito, mayroong tinatayang **10,347 na namumungang puno at perennials** ang natukoy sa kabuuan ng RRoW ng proyekto.
- Kukuha ng Tree Cutting Permit (TCP) mula sa Department of Environment and Natural Resources (DENR) ang panukalang proyekto. Ang DPWH ay susunod sa alituntuning nakasaad sa Joint Memorandum Circular (JMC) 2014-01, kung saan papalitan ng **100 seedlings/saplings/progapules** sa kada isang punong puputulin.

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MGA NATUKLASAN AT DISKUSYON
TUNGKOL SA TUBIG


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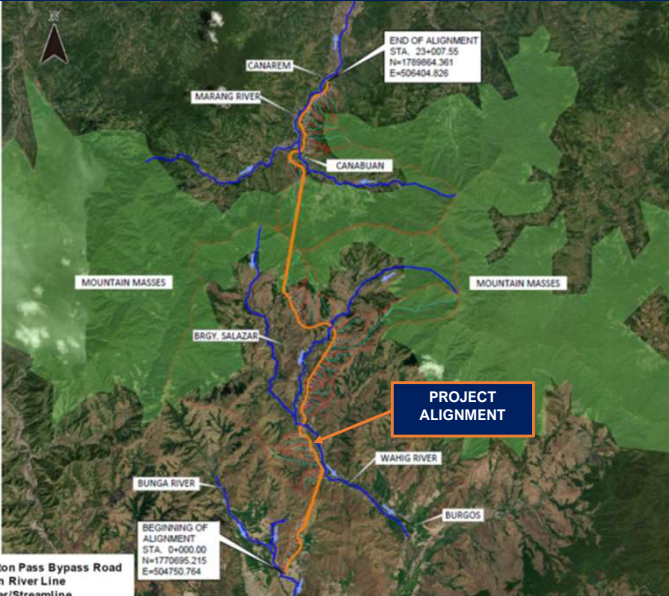


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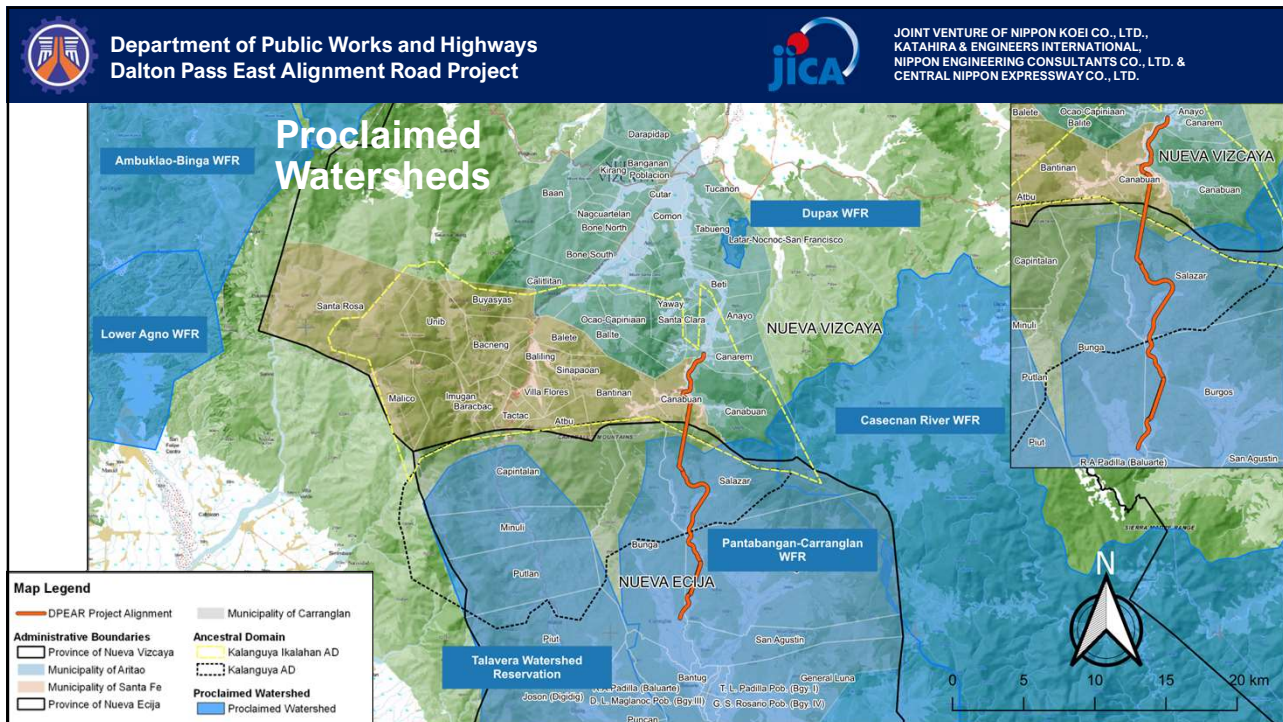


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Mga Tatawiring Ilog at Creeks



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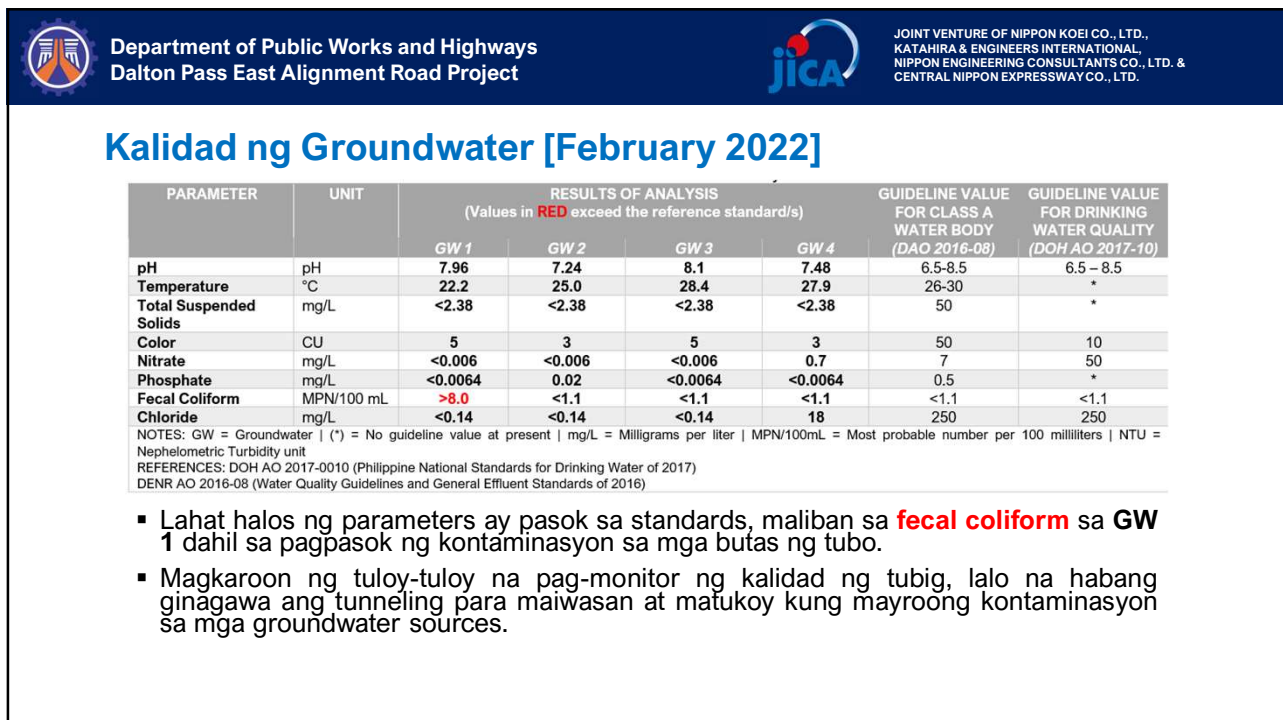
Kakailanganing Tubig

AKTIBIDAD	TANTYANG KAKAILANGANING TUBIG (CU. M./ARAW)	DETALYE
A. Construction Phase		
Civil Works	47.65	Halo ng semento
Drilling Operations	288	0.2 m ³ /min.
Domestic Use	140	70 litro/tao/araw
TOTAL	475.65	
B. Operation Phase		
Domestic Use	1.75	70 litro/tao/araw
TOTAL	1.75	

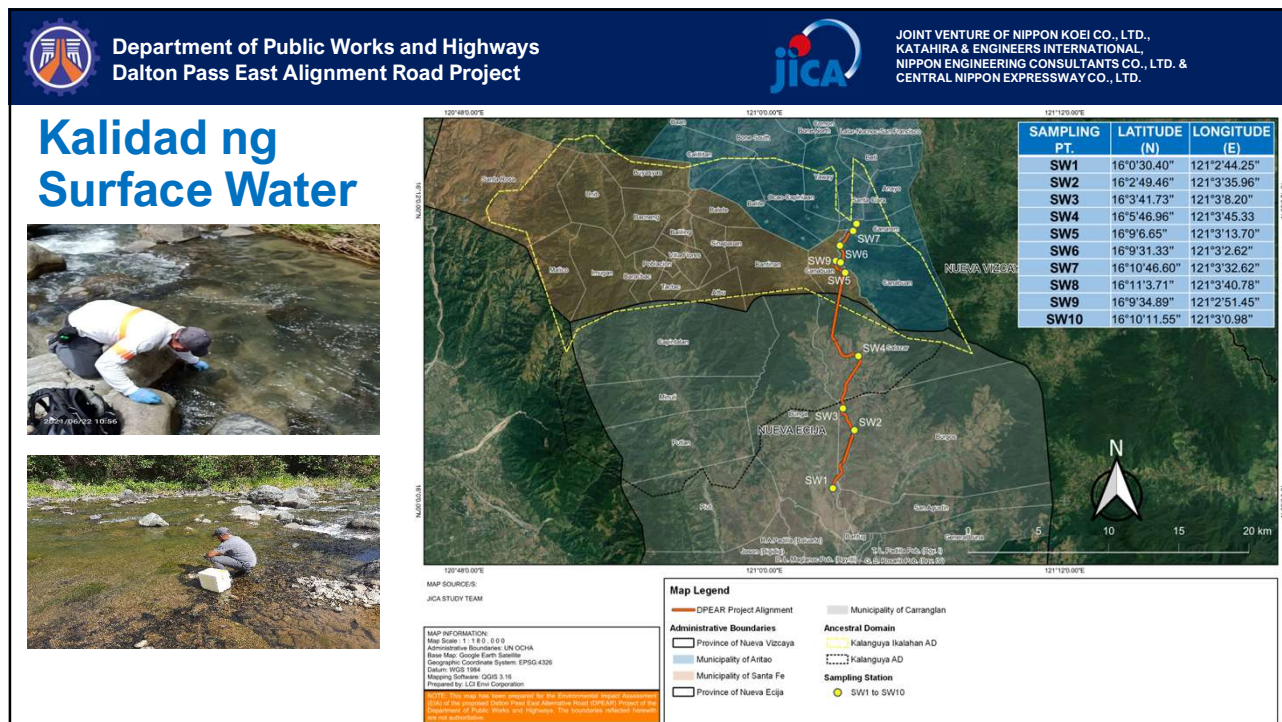
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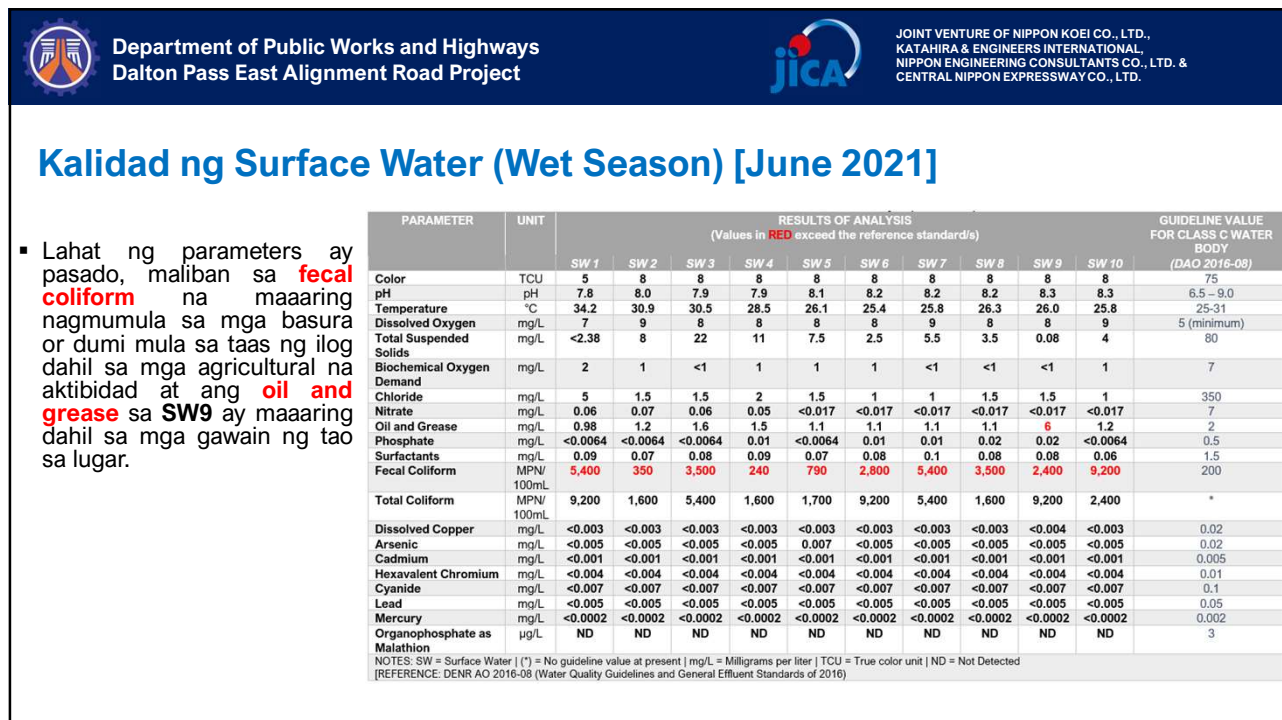
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Kalidad ng Surface Water (Dry Season) [January-February 2022]

- Lahat ng parameters ay pasado, maliban sa **fecal coliform** na maaaring nagmumula sa mga basura or dumi mula sa taas ng ilog dahil sa mga agricultural na aktibidad at maaaring dahil sa mga gawain ng tao sa lugar.
- Maglalagay ng silt protection at gagawa ng regular na monitoring ng kalidad ng tubig upang mabawasan ang epekto ng konstruksyon sa surface water.

PARAMETER	UNIT	RESULTS OF ANALYSIS (Values in RED exceed the reference standard/s)										GUIDELINE VALUE FOR CLASS C WATER BODY (DAO 2016-08)
		SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8	SW 9	SW 10	
Color	TCU	5	10	10	8	8	8	8	8	8	8	75
pH	pH	8.4	8.4	7.9	7.9	8	7.7	8.9	8.9	8.4	8.5	6.5 – 9.0
Temperature	°C	28.9	28.7	28.2	24.7	22.1	22.4	23.5	24.1	22.9	23.1	25-31
Dissolved Oxygen	mg/L	9	8	9	8	9	8	9	8	9	9	5 (minimum)
Total Suspended Solids	mg/L	12	9	7	<2.38	3.5	3.5	11	12	8	7.5	80
Biochemical Oxygen Demand	mg/L	<1	<1	<1	<1	1	1	2	1	1	<1	7
Chloride	mg/L	4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	350
Nitrate	mg/L	0.1	0.06	0.02	0.03	0.2	0.2	0.1	0.2	0.1	0.3	7
Oil and Grease	mg/L	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.4	2
Phosphate	mg/L	0.01	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	0.5
Surfactants	mg/L	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5
Fecal Coliform	MPN/100mL	350	110	390	350	920	540	2,400	1,300	1,300	2,400	200
Total Coliform	MPN/100mL	1,600	350	2,200	540	920	1,600	2,400	2,400	2,400	2,400	*
Dissolved Copper	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.02
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Hexavalent Chromium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.01
Cyanide	mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.1
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Mercury	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.002
Organophosphate as Malathion	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3

NOTES: SW = Surface Water | (*) = No guideline value at present | mg/L = Milligrams per liter | TCU = True color unit | ND = Not Detected
REFERENCE: DENR AO 2016-08 (Water Quality Guidelines and General Effluent Standards of 2016)

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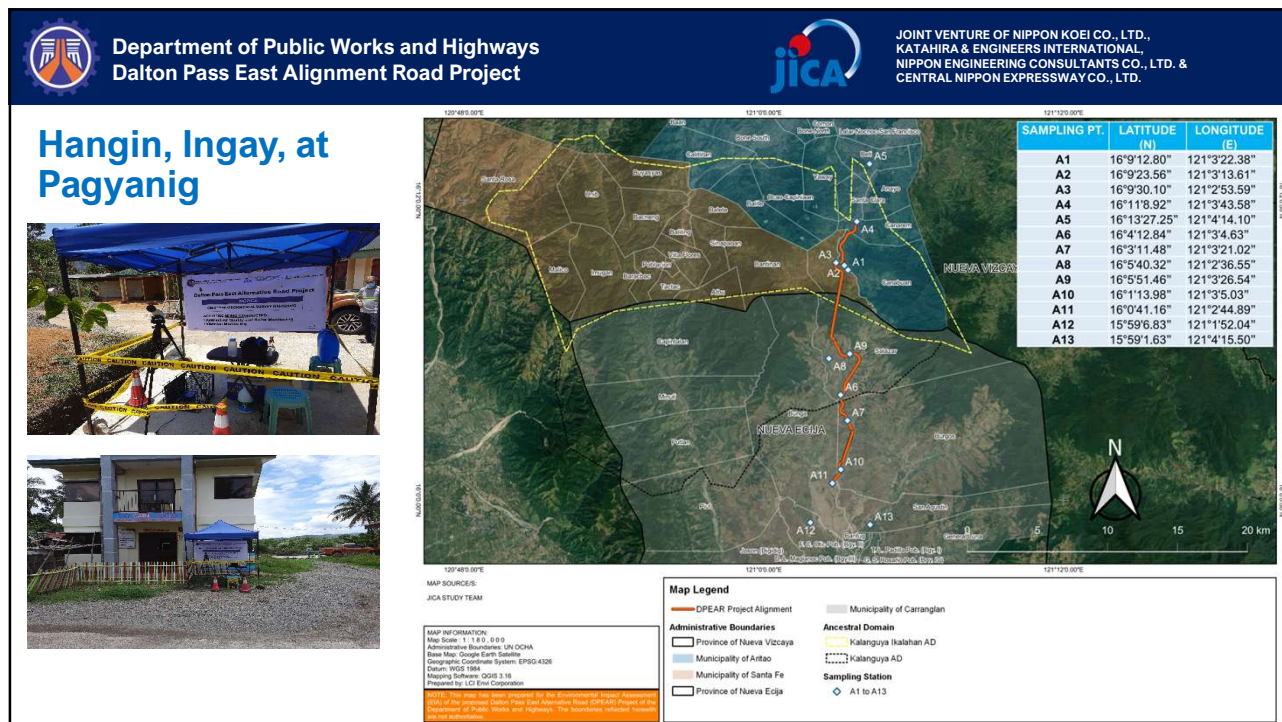
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MGA NATUKLASAN AT DISKUSYON TUNGKOL SA
HANGIN, INGAY, AT PAGYANIG

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Kalidad ng Hangin (Dry Season) [January-February 2022]

- Ayon sa resulta, ang kalidad ng hangin ay **katanggap-tanggap** base sa National Ambient Air Quality Standards (NAAQS).
- Magkakaroon ng implementasyon ng regular na monitoring ng hangin upang makita kung mayroong pagbaba o pagbagsak ng kalidad ng hangin.

STATION	LOCATION	OBSERVED 24-HOUR AMBIENT AIR CONCENTRATIONS, $\mu\text{g}/\text{Ncm}^3$						
		TSP	PM ₁₀	NO ₂	SO ₂	Lead	O ₃	CO
A1	Brgy. Canabuan, Sta. Fe (NV), near church	25.5	27.7	1	ND	NA	ND	2.34
A2	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	15.1	14.7	1.7	ND	NA	ND	5.67
A3	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	11.5	6.2	1	ND	NA	ND	2.67
A4	Brgy. Canarem, Aritao (NV), near residential area	23.3	17.3	0.8	ND	NA	ND	2.73
A5	Brgy. Beti Aritao (NV), near residential area	35.2	31.5	2.2	ND	NA	ND	2.32
A6	Brgy. Salazar, Carranglan (NE), Sitio Popo	36.2	26.6	1.6	8.7	NA	24.7	2.95
A7	Brgy. Burgos, Carranglan (NE), Sitio Barat	10.3	6	1.5	8.6	NA	17.4	3.85
A8	Brgy. Salazar, Carranglan (NE), Zone II	14.5	6	1.6	ND	NA	77	2.11
A9	Brgy. Salazar, Carranglan (NE), Sitio Labug	11.9	14.7	0.8	ND	NA	ND	3.29
A10	Brgy. Bunga, Carranglan (NE), Sitio Laa 1	10.4	6.1	2.2	ND	NA	ND	3.26
A11	Brgy. Bunga, Carranglan (NE), Sitio Laa 2	28.1	16.1	2.2	2.5	NA	ND	2.54
A12	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	24	11.2	1.8	ND	NA	ND	3.59
A13	Brgy. San Agustin, Carranglan (NE), near day care center	30.4	15	2.5	ND	NA	ND	2.72
NAAQS (24-hour sampling)		230	150	150	180	20*	60	9

NOTES:
ND = Not detected / below detection limit (NO₂ = 0.26 μg ; SO₂ = 0.75 μg);
NA = Not analyzed
(*) = Evaluation of this standard is carried out for 30-minute averaging time.
REFERENCE: DAO 2000-81 (IRR of Republic Act 8749)
Red Marks: Exceeds Standards

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Noise Level Monitoring (Wet Season) [June-July 2021]

- Karamihan sa mga sampling stations ay nagtala ng lebel ng ingay na **lagpas sa standards sa umaga (morning)** at **madaling araw (nighttime)**.
- Ang mga ingay ay nagmumula sa mga **sasakyang dumadaan, mga hayop, aktibidad ng tao, at kondisyon ng panahon** habang gumagawa ng sampling activity.
- Naitala din na mayroong mga araw na **umuulan** habang ginagawa ang sampling activity.

STATION	LOCATION	OBSERVED 24-HOUR NOISE LEVEL dBA(A)			
		Morning (0500-0900H)	Daytime (0900-1800H)	Evening (1800-2200H)	Nighttime (2200-0500H)
A1*	Brgy. Canabuan, Sta. Fe (NV), near church	46	49	48	44
A2*	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	49	48	45	45
A3**	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	53	51	49	48
A4**	Brgy. Canarem, Aritao (NV), near residential area	52	52	50	50
A5**	Brgy. Beti Aritao (NV), near residential area	52	53	52	53
A6**	Brgy. Salazar, Carranglan (NE), Sitio Popo	47	48	42	37
A7**	Brgy. Burgos, Carranglan (NE), Sitio Barat	52	54	49	48
A8**	Brgy. Salazar, Carranglan (NE), Zone II	59	56	58	59
A9**	Brgy. Salazar, Carranglan (NE), Sitio Labug	62	63	68	60
A10**	Brgy. Bunga, Carranglan (NE), Sitio Laa 1	50	49	46	47
A11**	Brgy. Bunga, Carranglan (NE), Sitio Laa 2	54	58	48	54
A12**	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	43	45	47	40
A13*	Brgy. San Agustin, Carranglan (NE), near day care center	51	55	53	39
MAXIMUM ALLOWABLE NOISE LEVEL, dBA(A)		45	50	45	40
**Class A		50	55	50	45

Notes:
(*) Class AA = Area which required quietness (areas within 100 m from nursery schools and institutions)
(**) Class A = Residential area
REFERENCE: NPCC Memorandum Circular No. 1980-002
Red Marks: Exceeds Standards

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Noise Level Monitoring (Dry Season) [January-February 2022]

- Sa dry season, halos lahat ng sampling stations **ay lagpas sa standards sa lebel ng ingay.**
- Ang mga ingay ay nagmumula sa mga **sasakyang dumadaan, mga hayop, at aktibidad ng tao** habang gumagawa ng sampling activity.
- Bukod pa dito, ang alignment ng proyekto ay **dadaan sa residential, simbahan, at mga institusyon** na malapit sa kalsada, kung saan nakapag-tala ng mas **mataas na lebel ng ingay** sa gabi kumpara sa umaga.

STATION	LOCATION	OBSERVED 24-HOUR NOISE LEVEL dB(A)			
		Morning (0500-0900H)	Daytime (0900-1800H)	Evening (1800-2200H)	Nighttime (2200-0500H)
A1*	Brgy. Canabuan, Sta. Fe (NV), near church	56	59	58	57
A2*	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	52	53	55	53
A3**	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	55	54	57	56
A4**	Brgy. Canarem, Aritao (NV), near residential area	60	63	64	62
A5**	Brgy. Beti Aritao (NV), near residential area	58	60	62	59
A6**	Brgy. Salazar, Carranglan (NE), Sitio Popo	52	53	53	52
A7**	Brgy. Burgos, Carranglan (NE), Sitio Barat	55	58	59	56
A8**	Brgy. Salazar, Carranglan (NE), Zone II	48	53	51	49
A9**	Brgy. Salazar, Carranglan (NE), Sitio Labug	53	54	55	54
A10**	Brgy. Bunga, Carranglan (NE), Sitio Laot 1	55	56	56	55
A11**	Brgy. Bunga, Carranglan (NE), Sitio Laot 2	56	55	58	56
A12**	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	59	56	61	60
A13*	Brgy. San Agustin, Carranglan (NE), near day care center	60	61	61	61
MAXIMUM ALLOWABLE NOISE LEVEL, dB(A)	*Class AA	45	50	45	40
	**Class A	50	55	50	45

Notes:
(*) Class AA = Area which required quietness (areas within 100 m from nursery schools and institutions)
(**) Class A = Residential area
REFERENCE: NPCC Memorandum Circular No. 1990-002
Red Marks: Exceeds Standards

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Vibration Levels

- Tatlong stations (A1, A2 and A13) ay kinonsidera bilang “opisina” under sa BS 6472-1992, kabilang ang mga institusyon, paaralan, at simbahan. Ang natitirang 10 na stations ay kabilang sa “residences” na kategorya.
- Ang **pag-yanig** ay naobserbahan na mas marami sa **umaga** kaysa sa **gabi**.
- Walang stations ang lumagpas sa preferred vibration level na nakasaan sa BS 6472-1992 para sa mga residensyal at mga opisina.

STATION	LOCATION	Daytime	Nighttime
A1**	Brgy. Canabuan, Sta. Fe (NV), near church	72	68
A2**	Brgy. Canabuan, Sta. Fe (NV), near barangay hall	73	68
A3*	Brgy. Canabuan, Sta. Fe (NV), Sitio Spanish	69	71
A4*	Brgy. Canarem, Aritao (NV), near residential area	70	69
A5*	Brgy. Beti Aritao (NV), near residential area	68	68
A6*	Brgy. Salazar, Carranglan (NE), Sitio Popo	69	69
A7*	Brgy. Burgos, Carranglan (NE), Sitio Barat	68	68
A8*	Brgy. Salazar, Carranglan (NE), Zone II	68	68
A9*	Brgy. Salazar, Carranglan (NE), Sitio Labug	70	69
A10*	Brgy. Bunga, Carranglan (NE), Sitio Laot 1	71	67
A11*	Brgy. Bunga, Carranglan (NE), Sitio Laot 2	67	66
A12*	Brgy. R.A. Padilla, Carranglan (NE), Sitio Coral	72	67
A13**	Brgy. San Agustin, Carranglan (NE), near day care center	72	67
BS 6472-1992 Preferred Vibration Level (dB)	Residences*	80	77
	Offices**	86	86

NOTE:
(*) Residential area
(**) Offices
REFERENCE: BS 6472-1992
Red Marks: Exceeds Standards

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Department of Public Works and Highways
Dalton Pass East Alignment Road Project



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Alikabok, Ingay, at Pagyanig sa Pagsasagawa ng Proyekto

- **Ang mga aktibidad sa paggawa ng proyekto ay maaaring magpadami ng alikabok sa paligid**
 - Regular na pagbabasa o watering ng construction sites
 - Paglalagay ng truck covers
- **Ang ingay ay inaasahang magiging epekto ng proyekto sa konstruksyon**
 - Siguraduhing maayos ang maintenance ng mga makina at iba pang mechanical na parte ng mga gagamiting heavy equipment
 - Paglalagay ng exhaust mufflers
 - Paglalagay ng mga enclosures sa palibot ng lugar ng proyekto
 - Ang mga maiingay na Gawain ay gagawin sa umaga
- **Ang pagyanig ay maaaring maranasan habang ginagawa ang tunneling at iba pang aktibidad sa konstruksyon.**

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Dalton Pass East Alignment Road Project



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MGA NATUKLASAN AT DISKUSYON
TUNGKOL SA TAO

Dalton Pass East Alignment Road Project



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Dalton Pass East Alignment Road Project



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Laki at Lawak ng Involuntary Resettlement

- Ang proyekto ay **tinatayang maglilipat** ng mga **nakatira sa loob ng road right-of-way (RRoW)**. Una dito, ang mga naninirahan sa Kalanguya Ikalahan at Kalanguya Ancestral Domains (ADs).
- Ang **DPWH**, sa pakikipag-ugnayan sa **National Commission on Indigenous Peoples (NCIP)**, ay nakapagsagawa na ng **Free and Prior Informed Consent (FPIC)**.
- **Nakuha** ng DPWH ang Certification Precondition (CP) para sa Region II (**Kalanguya-Ikalahan AD**) noong **Disyembre 2018** at para sa Region III (**Kalanguya AD**) noong **Enero 2020**.
- Mayroong ginagawang **Right-of-Way Acquisition Plan (RAP)** para sa nasabing proyekto.
- Ang **RAP** ay magkakaroon ng **pinal na bersyon** matapos ang **Detailed Engineering Design (DED) stage** ng proyekto.

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Dalton Pass East Alignment Road Project



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Displacement of Settlers

Preliminary Right-of-Way Acquisition Plan (RAP)

- **Project Affected Persons.** Mayroong **170 project-affected persons (PAPs)** ang natukoy, na nakatira sa loob, gumagawa ng economic activities sa loob ng RRoW.
- **Land.** Ang potensyal na lugar na kakailanganin para sa proyekto ay **129.4 Has. o 1,294,280 m²**.
- **Structures at Improvement.** Mayroong **102 struktura** ang naimbentaryo sa loob ng **6** na barangays. Kabilang dito ang **55 residential structures, 2 institutional structures (simbahan), 1 warehouse, at 44 other structural improvements** (hal. solar dryers, windmill, farmhouses, dirty kitchens, animal pens, small stores, grave houses, deepwell, at shed).

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Displacement of Settlers

Preliminary Right-of-Way Acquisition Plan (RAP)

- **Public Structures at Utilities.** Mayroong **23 public structures** ang natagpuan sa loob ng project RRoW sa Brgys. Bunga at Burgos. Kabilang na dito ang **2** na basketball court at **21 poste** na maapektuhan ng nasabing proyekto na pag-aari ng **NEECO**.
- **Trees at Perennials.** Ang kabuuang lawak ng lugar na mayroong tinanim na timber na species ay 51,937 m² o **870 timber na puno**. Bukod pa dito, mayroong tinatayang **10,347 na namumungang puno at perennials** ang natukoy sa kabuuan ng RRoW ng proyekto.
- **Croplands.** Ang tanyag lawak ng agricultural na lupain na maapektuhan ng proyekto ay **307,928.71 m²**. Karamihan sa mga matatamang croplands ay tinatamnan ng palay.

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IPP Census

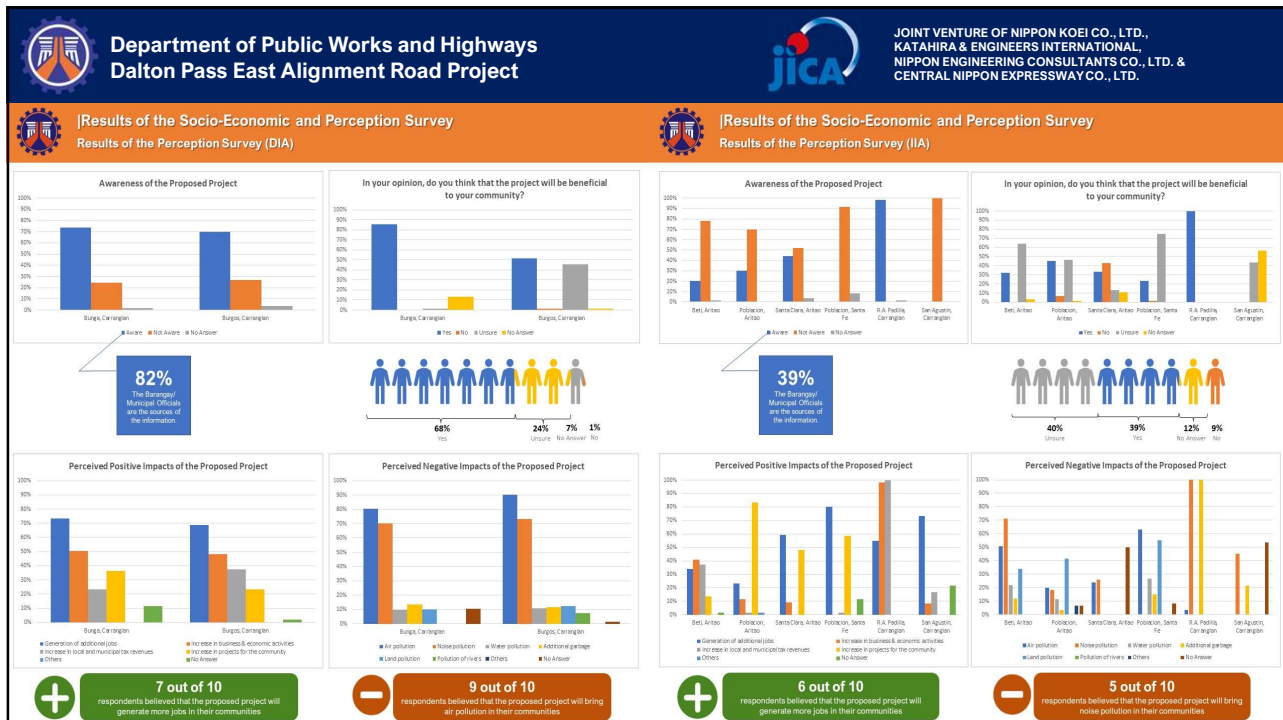
- Nagkaroon ng census survey bilang bahagi ng pagsasagawa ng Indigenous Peoples Plan (IPP) para sa Kalanguya Ikalahan at Kalanguya ADs.
- Ang mga households na naisama sa Region II ay **267** at **729** na households naman ang naisama para sa Region III. Ang kabuuang households na nai-census ay **996**.

Socio-Economic Survey

BARANGAY	DIA/IIA	NO. OF RESPONDENTS
ARITAO, NUEVA VIZCAYA		
Barangay Beti	IIA	59
Barangay Poblacion	IIA	60
Barangay Santa Clara	IIA	54
Sub-total	-	173
SANTA FE, NUEVA VIZCAYA		
Barangay Poblacion	IIA	60
Sub-total	-	60
CARRANGLAN, NUEVA ECIJA		
Barangay Bunga	IIA	258
Barangay Burgos	DI	261
Barangay R.A. Padilla	IIA	60
Barangay San Agustin	IIA	60
Sub-total	-	639
TOTAL		872

NOTE: DIA- Direct Impact Area; IIA- Indirect Impact Area

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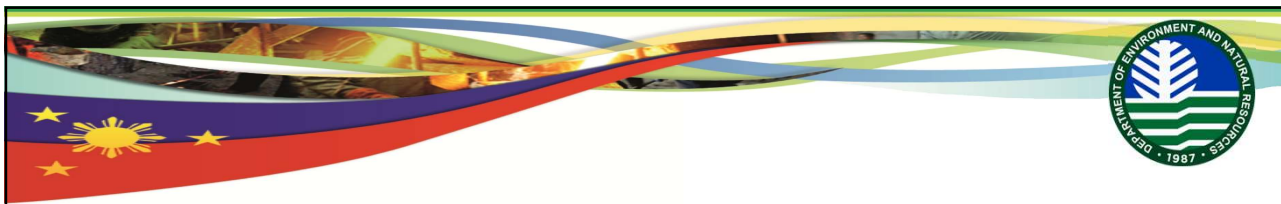
Department of Public Works and Highways
Dalton Pass East Alignment Road Project

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MALAYANG TALAKAYAN
Atty. Erika Romero
Public Hearing Officer, DENR-EMB


Dalton Pass East Alignment Road Project

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PUBLIC HEARING HOUSE RULES

Environmental Impact Assessment and Management Division
EMB Central Office



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Mga Patakaran sa Pagsasagawa ng Public Hearing

1. Ang public hearing ay gagawin sa Tagalog. Gayunpaman, maaari pa ring gamitin ang lengguwahe kung saan kayo mas kumportable.
2. Ang sinumang may gustong sabihin sa open forum ay dapat itaas ang kanyang kamay upang mapayagang magsalita ng hearing officer. Ang mga komento at suhestyon ay maaari ding isulat sa ipapamahaging papel at ibigay sa tauhan ng DENR.
3. Gamitin ang mikropono sa pagsasalita sapagkat ang mga pangyayari ay itinatala.
4. Kung magsasalita sa unang pagakataon, sabihin ang pangalan, opisina/organisasyon na iyong nirerepresenta at ang iyong posisyon.

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Mga Patakaran sa Pagsasagawa ng Public Hearing

5. Ang mga magsasalita ay dapat bigyan ng kaukulang pansin ang nakalaang oras

Project Proponent – 10 minuto para ipaliwanag ang proyekto

EIA Consultant/PP – 15-20 minuto para ipaliwanag ang mga natuklasan sa kanilang pag-aaral

Stakeholders/Concerned citizen – 2 minuto bawat isa

(ang sinumang gustong magsalita ng mas matagal upang ipresenta ang mga importanteng impormasyon gayundin ang mga nangangailangin ng mga gamit tulad ng projector ay dapat magsabi sa hearing officer sa pamamagitan ng EMB personnel bago magsimula ang open forum)

6. Lahat ng presentasyon at katanungan ay dapat maikli, malinaw at direkto. Iwasan ang paggawa ng mahahabang pagsasalita upang magamit ng husto ang partisipasyon ng publiko at upang makamit ang objektib ng public hearing.

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Mga Patakaran sa Pagsasagawa ng Public Hearing

7. Ang mga komento ay dapat gawin bilang kinatawan ng interes ng publiko at hindi pansarili ng sa gayon ay nakapokus ang lahat sa isyung pinaguusapan.

8. Makinig sa taong nagsasalita at iwasan ang paggawa ng anumang nakakabulabog. Ano man ang nararamdaman tungkol sa sinasabi ng taong nagsasalita ay dapat itong ipagtimpi at hintayin ang pagkakataong makapagsalita. Irespeto ang opinion ng iba at ang hindi pagsang-ayon ay dapat isatinig ng maayos.

9. Ang hearing officer ay may karapatang palabasin ang indibidwal o grupo na patuloy na nakakagulo sa ginagawang hearing kung hindi pa rin ito tumigil matapos bigyan ng tatlong babala ng Hearing Officer.

10. Kung maari ay tapusin ang Public Hearing at huwag munang umalis.

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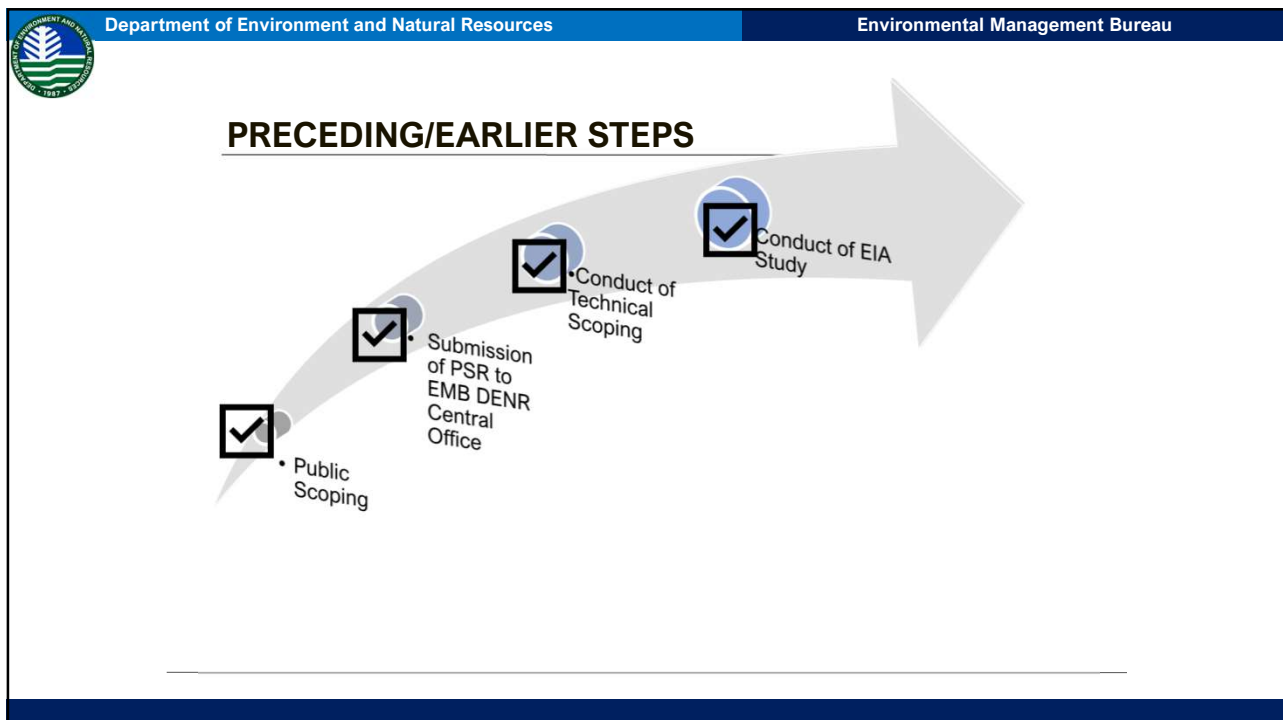


SUSUNOD NA HAKBANGIN
Engr. Joel Polintan
Case Handler, DENR-EMB

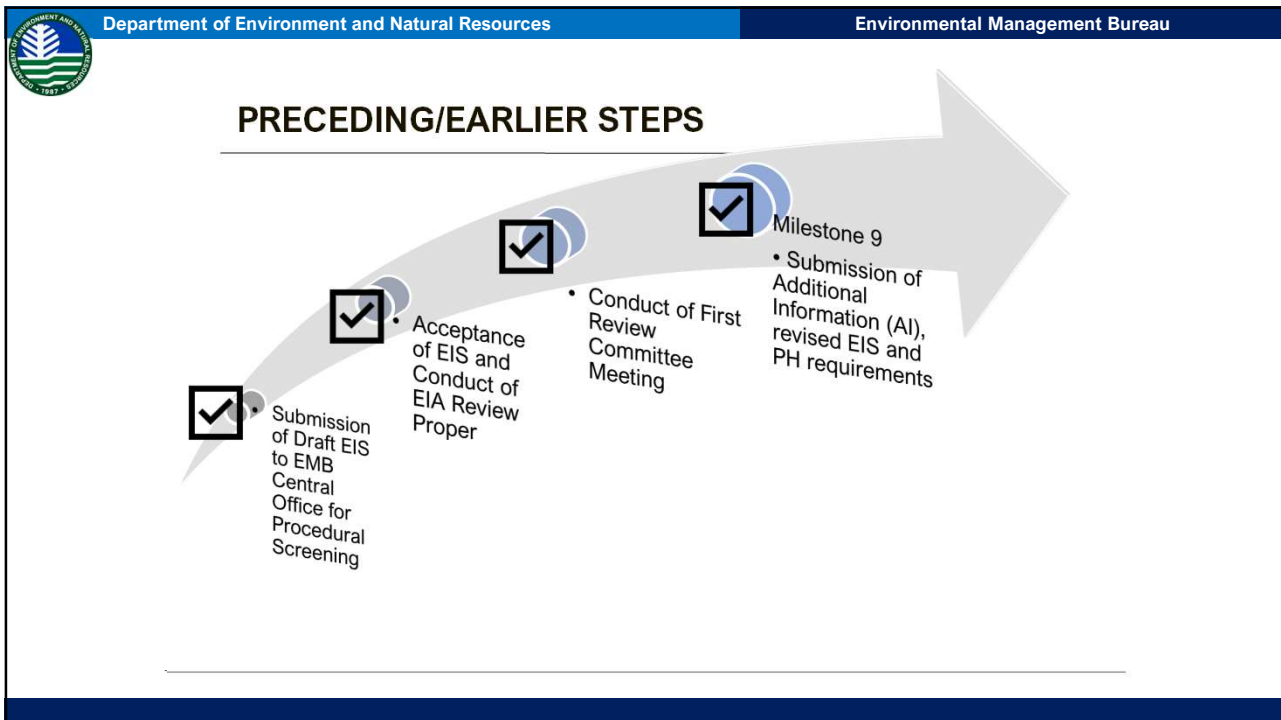


Dalton Pass East Alignment Road Project

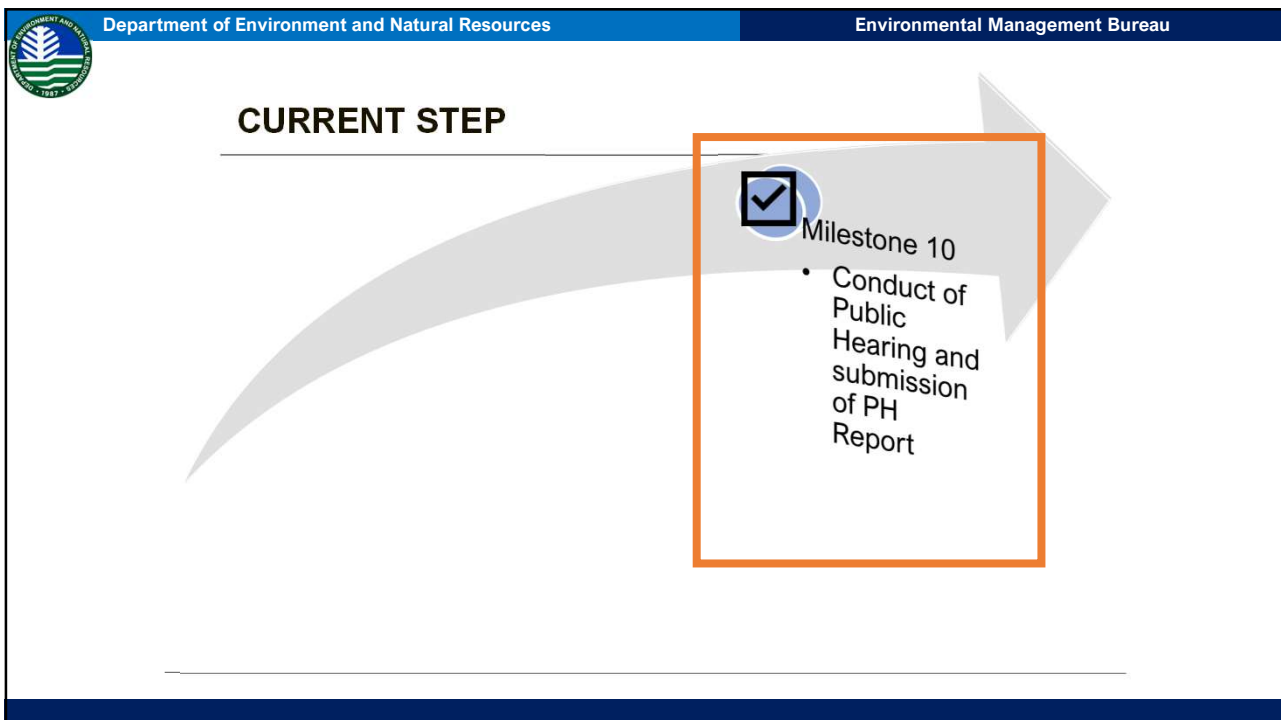
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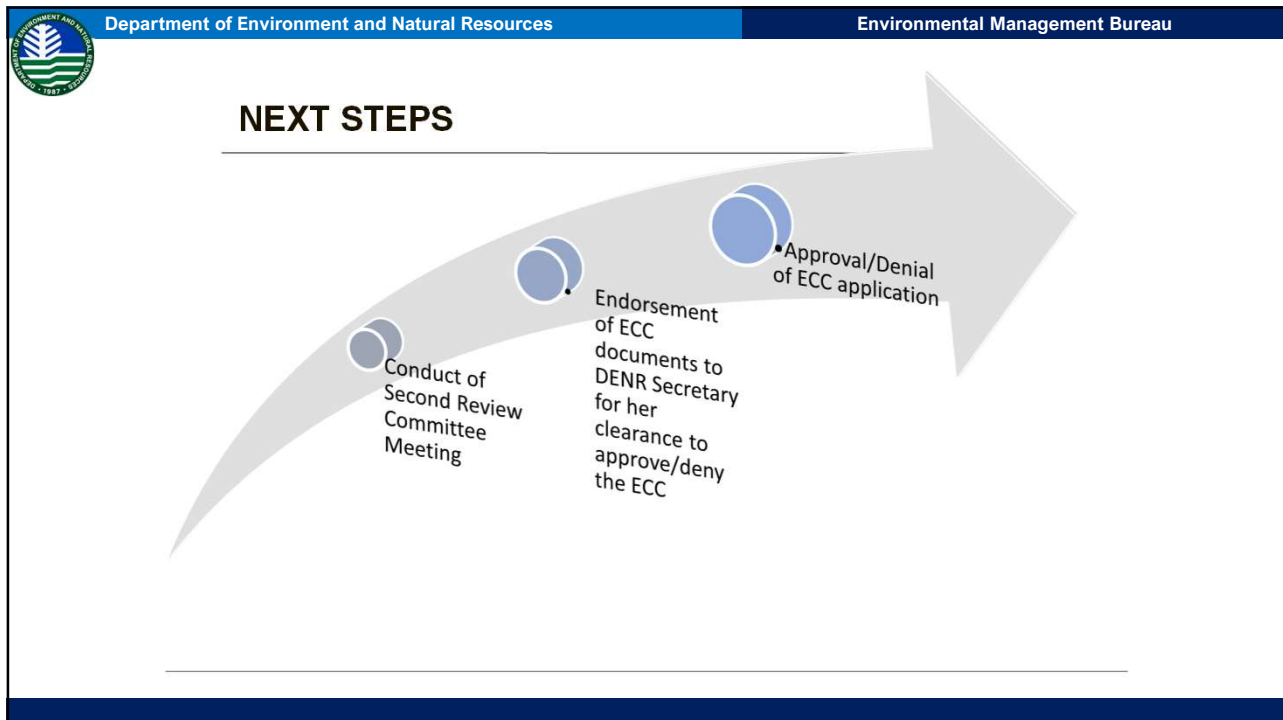
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Department of Environment and Natural Resources

Environmental Management Bureau

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ENGR. ESPERANZA A. SAJUL
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 Email Address: eia@emb.gov.ph
 Website: www.emb.gov.ph

RECORDS SECTION: recordsco@emb.gov.ph

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Dalton Pass East Alignment Road Project



PANGHULING MENSAHE
Engr. Bill Ponce
Project Engineer, DPWH-UPMO-RMC-I(B)




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MARAMING SALAMAT PO!



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Dalton Pass East Alignment Road Project

4 Mayo 2023 (Huwebes) | 9:00 – 12:00 ng tanghali
| PAG-ASA Gymnasium of the
Municipal Hall of Carranglan,
Carranglan, Nueva Ecija



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ATTACHMENT 5

PUBLIC HEARING OPEN FORUM TRANSCRIPT

PROPOSED DALTON PASS EAST ALIGNMENT PROJECT
Provinces of Nueva Vizcaya & Nueva Ecija

PUBLIC HEARING

<START OF TRANSCRIPT>

PH OFFICER: Magandang umaga po sa ating lahat. Ako po ang inyong Hearing Officer ngayong araw, Atty. Erika Romero po. Dadako na po tayo sa open forum ng kung saan pwede na po tayong mag-tanong o mag-raise ng mga issues at concerns regarding po sa proyektong ito.

Bago lang po tayo magsalita, meron lang po tayong mga alituntunin o house rules para po sa ating open forum. Ang atin pong Public Hearing ay <inaudible> sa Tagalog or kung saang linggwahe po kayo komportable. Ine-enganyo po natin ang lahat na mag-participate, kung gusto niyo pong magtanong, itaas niyo po muna ang inyong kamay at akin po kayong ia-acknowledge bago po pumunta sa mikropono. Magpapakilala po kayo-sabihin niyo po ang inyong pangalan, barangay, at kung saan po kayo nabibilang na organisasyon. Lahat po ng presentasyon o katanungan o mga issues at concern ay dapat ay maikli, malinaw, at diretsa lamang. Iwasan ang paggawa ng mahahabang salita upang makamit nang husto ang partisipasyon ng publiko at upang makamit ang objective ng Public Hearing... para rin po masagot ng ating proponent at ng ating consultant ang inyong mga katanungan. Kung ang ating mga katanungan o issues ay limitahan lang natin sa tungkol sa proyektong ito- sa Dalton Pass East Alignment Project po.

Ang mga komento ay dapat kinatawan ng interes ng publiko at hindi pangsarili nang sa gayon ay nakapokus ang lahat sa isyung pag-uusapan. Inaanyayahan din po na makinig sa mga taong nagsasalita at iwasan ang paggawa ng anumang nakakabulabog o nakakagulo <inaudible> po.

TRANSCRIPT OF THE PUBLIC HEARING PROCEEDINGS

DPWH's Dalton Pass East Alignment Project

Venue: Municipal Covered Court, Aritao, Nueva Vizcaya | Date: 03 May 2023

Ang Hearing Officer po, ako po ay may karapatang palabasin po kung sino mang manggulo o mangbulabog po sa ating Public Hearing. Nawa'y magkaroon po tayo ng maayos at malinaw na diskusyon para po sa ating Public Hearing. At kung maari po'y tapusin ang Public Hearing at huwag po munang umalis. Isa pa pong reminder na ang ating Open Forum po ay maaring umabot ng three hours pero depende po sa atin iyon kung meron pa po tayong mga tatalakayin or tatanungin sa ating project proponent, sa DPWH, atsaka sa ating consultant. Pwede na po tayong magsimula. Kung sino pong may katanungan, itaas niyo lang po ang inyong kamay at tatawagin ko po kayo para po... Kahit ano pong tanong, sir o ma'am, tungkol sa proyekto po. Sa mga issues po, komento po, question po. Sighe po, sir. Pangalan po muna, kung saang barangay, organisasyon po.

PUBLIC: Ako po si Bayani *** ang Municipal IPMR ng Aritao. Maganda po ang presentasyon <inaudible>. Ang katanungan ko kasi ang project ay nasa loob ng ancestral domain pero ang nakikita ko wala yatang taga-NCIP dito. Kasi kanina, nakalagay na dyan na meron ng Free Prior and Informed Consent- noon pa. Pero kanina, may nakita ako dyan na yung sa final decision nung mga local na <inaudible> namin ay dedesisyunan pa ng mga community <inaudible> pero dapat sana mailagay dun sa Memorandum of Agreement ng community atsaka dyan sa government pero wala pa pala iyon. Ngayon lang lumabas yun. Tapos yung <inaudible> memorandum of agreement before Free Prior and Informed Consent.

PH OFFICER: Sir, regarding po yung sa NCIP yung tanong niya- sa ancestral domain... sa may memorandum daw po.

EIA CONSULTANT: Maraming salamat po, sir- sa IPMR po natin sa Aritao. Ang NCIP po sa ganitong pagkakataon ay lagi pong imbitado - sila po ay iniimbitahan. Bukod po dun sa notice na pinadala sa kanila, separate

TRANSCRIPT OF THE PUBLIC HEARING PROCEEDINGS

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letter... surat na nakarating rin po sa kanila. Pero ganito po iyon ano, kung meron po tayong additional na concerns dun sa mga napakinggan niyo po ngayon, sa NCIP po tayo dudulog... yun po yung forum. Siguro po, may susunod pang mga konsultasyon na ipapatawag po tayo ng NCIP para po partikular sa concern ng mga IP sa ating lugar. Pero maganda po sigurong napakinggan niyo po ngayon dahil gaya po ng sinabi niyo, may mga bago kayong nakita na maaring wala po sa dati niyong usapan. Ito po ay pwedeng pwede niyong idulog sa NCIP. Either po sa formal channel o kaya sa mapapatawag nilang konsultasyon. I'm sure andun ang DPWH din, mapag-uusapan niyo po iyon separately dito po sa isyung inyong bini-bring up. Pero... noted po sir, since documented po ang Public Hearing natin. Lahat po ng nabanggit ninyo ay makakarating rin po sa NCIP. Bibigyan din po namin sila ng kopya nun gating proceeding ng Public Hearing. Salamat po.

PH OFFICER: Si sir po.

PUBLIC: Aries ***, acting Municipal Engineer ng Santa Fe. So, maganda po yung inano ni Sir Joel (Engr. Joma) sa Environmental Impact Statement. So... although may hinahanap po ako, although lahat naman kami dito sa probinsya, hindi kami techie. Hinahanap ko yung abandonment, decommissioning na plan niyo sir para maano din yung decommissioning tapos restoration plan after ng project. Yung pag-plano niyo para sa environment, social, o sa economic. Iyan yung tatlong factor na dapat nating ikonsider. Ano ba yung plano ng project natin tungkol sa decommissioning at sa ka restoration?

EIA CONSULTANT: Sa Bayan po ng Santa Fe? Tama po ba? Maraming salamat po sa question. Attorney, sagutin ko lang. So yung decommissioning, tama po kayo 'no. Kung inyo pong pag-aaralan yung report, lahat ng

TRANSCRIPT OF THE PUBLIC HEARING PROCEEDINGS

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pag-aaral natin dun ay nakahati sa bahagi ng proyekto. Meron po tayong tinatawag na pre-construction, ito po yung ginagawa natin ngayon-lahat ng permits sine-secure, lahat ng right-of-way sine-secure... pre-construction stage pa po yun. Meron din tayong construction phase, so yung limang taong tatakbo. Yung decommissioning po ay kabahagi ng operation phase. Bakit po? Kasi...ay sorry construction stage hindi po operation. Pag nagsara po ang contractor, ibig-sabihin mag de-demobilization na siya. Demobilization po ang tawag doon. Kung saan yung ginamit na temporary facilities ay ipi-pullout at tatanggalin lahat. I'm sure familiar po kayo doon kapag gumagawa ng kalsada. Medyo mas malaki lang yung temporary facilities na ilalagay lang natin dito-mga batching plant na maaring gamitin ng contractor. Lahat po iyan ay ide-demobilize, lahat po iyan ay nakalagay sa responsibilidad ng contractor na malinis yung site na kanilang pag-gagalawan, isa po iyon. Pangalawa, kung may concern po tayo sa mga kontaminasyon na maari nilang iiwan. Kasi alam po nating yung mga truck nila, doon nililinis, maaring dun din papalitan yung ibang spare parts na nagkakaroon ng tagas ng langis, iyan po ay kabahagi ng Multi-Partite Monitoring Team kasi lahat po iyan ay component din ng project. So, mapapasok din yan sa monitoring. Tricky lang po yung decommissioning, dahil ang term po natin ay demob o pagtanggal ng mga temporary facilities para malinis po yung lugar kasi po'y ito'y isang infrastructure project. Pagkatapos po nung construction, papasok na po yung operation kung saan magme-maintain din po ang DPWH ng isang Command Center, I think meron din po tayong opisina na ilalagay din po doon na mangangasiwa po ng lahat ng kalat na mage-generate naman during operation. So iyon po yung mangyayari. Siguro i-highlight lang

TRANSCRIPT OF THE PUBLIC HEARING PROCEEDINGS

DPWH's Dalton Pass East Alignment Project

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din po namin sa report yung sinasabi niyong demobilization, maaring iyon po yung isa naming nakaligtaan. Idadagdag po namin.

PUBLIC: Sir Joel (referring to Engr. Joma, ang isa pa pong factor na tinitignan natin is yung economic. Kasi syempre, kaya nga tayo decommissioning tapos demobilization- aalisin natin yung project, may maiiwang community. Ano ba yung maibibigay natin kaya dapat nasa report din natin iyon. So iyon yung tinitignan natin na impact di ba?

PH OFFICER: Sir, yung tanong niyo po tungkol sa labor po ba after nung ano?

PUBLIC: Pati yung kabuhatan nung madi-displace paano natin iti-treat yan after the project? Or meron ba tayong... kaya nga plan siya eh-decommission/ restoration plan o baka ma-absorb nung project na magma-manage doon. Ano ba talaga yung dapat nakalagay dun sa Environmental Impact Statement natin?

EIA CONSULTANT: Yes, sir. Intindihin ko lang po yung katanungan ninyo. Yung madi-displace po, tama po ba? May portion po tayong tanong na madi-displace. Yung displacement, meron po tayong compensation na nakalagay dun sa RAP... sa Resettlement Action Plan- sa right-of-way acquisition plan, meron po iyon. Pero hindi po kasi iyon parang demob dahil iyan po ay gagawin bago simulan yung proyekto. Yun po yung una kong naiisip 'no. Kung sino po yung pwedeng unang tatamaan, mawawalan ng kabuhatan because papasok yung project, kailangan silang tanggalin dun, lahat po iyan ay na-cover ng RAP nating tinatawag. Iyan po'y isang dokumento rin po, separate din dito sa document na 'to. Meron din po iyan at kinonsulta rin po iyan sa ating mga barangay.

TRANSCRIPT OF THE PUBLIC HEARING PROCEEDINGS

DPWH's Dalton Pass East Alignment Project

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Yung pangalawang tanong po ninyo sir, halimbawa nag-construct na- andyan na po yung facility. Hindi po natin maiiwasan dahil limang taon itong gagawin. Yung parang sa tabi ng temporary facility natin o yung construction yard na gagawin ng contractor, maari pong magkaroon ng mga pagsulpot ng mga livelihood- mga nagtitinda ng pagkain, meron po, hindi po natin maiiwasan iyon. Kabuhayan, may mga kabuhayan pong uusbong doon. 'Pag Nawala po yung facility na nandun, maki-clear din po iyin, kailangan din po talagang umalis nung mga tao doon. Kasi po, number one, maaring yung lugar na iyong ay gagamitin na ng kalsada- dadaanan na, magiging mapanganib kung nandun pa sila mag-stay. Kailangan po talaga silang... so yung portion na po iyon sir, iko-konsulta po namin sa DPWH at iyon po ang magandang na pick-up namin sa inyo ngayon- yung concern sa mga mawawalan ng kabuhayan after mawala yung mga temporary facilities na nandoon. Naka-identify naman po iyon dun sa project kung saan naman yun. Maraming salamat po sa inyong comment.

PH OFFICER: Sino pa pong gustong magtanong pa po? Sir po.

PUBLIC: So ako po si Forester John Simeon, MENRO ng Santa Fe. So nabanggit, napakita sa presentation na 5 years yung duration ng construction phase. With that period, yun pong ating kwan, napakalaki po nung mage-generate na basura, sa solid waste. Syempre mangaggaling sa mga construction materials. So meron na po ba kayong solid waste management plan? Kasi kailangan po nating ma-determine kung sino yung maga-accept or kung saan, anong facility, kaninong facility ng munisipyo yung maga-accept po... sa disposisyon nung Solid Waste Management ninyo. Kailangan sana meron sariling plan iyan aside from

TRANSCRIPT OF THE PUBLIC HEARING PROCEEDINGS

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dun sa hazardous waste management plan. Ano po yung plano ninyo sa pag-manage ng ating solid waste? Yun lang po.

EIA CONSULTANT: Sagutin ko na po 'no kasi nabasa ko rin naman po yung plano. Unang-una po, tama po kayo sir, malaking bahagi ng solid waste - yung tinatawag nating construction waste. Ito yung mga normal na nagre-generate during construction. Sa ngayon po, yung naka-declare sa plano ngayon, dahil meron tayong mga temporary facilities, mga material recovery facilities po silang ilalagay. MRFs within their compound. Ito po yung iso-sort yung pwedeng itapon at hindi. Pero definitely po, ilalagay po ito as an obligation sa contractor ng DPWH para po kausapin yung host municipality kung kakayanin po ng existing landfill po ninyo yung mga basura na mage-generate. Pero primarily, nakataga po iyan sa amin, Material Recovery Facility, hangga't maaari, tignan natin yung magagamit muli, at maaari pa nating ibenta pa. Primary responsibility po ito ng DPWH pero dahil contractor po yung magpapagalaw doon. Ito po yung isasaad natin doon sa contractor contract obligation nila para masagot yung solid waste management. So MRF po tapos ilalagay na lang po namin - coordination with the municipal solid waste general service po siguro ma-assess kung kakayanin ng landfill. Kasi po kung hindi, mao-obliga po yung contractor na maghanap ng landfill na maaring tumanggap ng ganung klaseng mga basura na ige-generate po.

PUBLIC: So dapat pong maging clear bago natin pagplanuhan. Kasi sa Santa Fe, napakaliit po nung aming facility and Aritao, alam ko problema rin nila didto yung basura. Hindi kaya tayo pwedeng mag-establish o gumawa ng sariling Sanitary Landfill? Kasi five years yan, napakahirap i-manage ng basura. Ano po? Siguro yung munisipyo, yung

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konting volume, pwede. Kasi kung gagamitin po namin yung mga sako, pwede nating i-recycle iyan... gawing bayong... eco-bags pero minimal lang kasi sir yung ano... and bawal na bawal po tayong magsunog ng mga basura or baka saan lang tabunan yan at strikto po ang Bayan ng Aritao at Santa Fe riyan. Siguro maging ano po tayo compliant. Yun lang po, thank you!

EIA CONSULTANT: Thank you, sir.

PH OFFICER: Wait lang po. Nasagot niyo na po ba kung possible po bang makapag-establish ng sariling sanitary landfill kasi po five years yung construction?

PROPONENT: Francesca Del Mundo po from DPWH. Regarding po sa concern natin sa Sanitary Landfill ng... kung possible po magkaroon ng sariling... actually during construction ang mage-generate lang naman ho usually na waste ng mga contractor, ng mga construction worker, ay yung mga common waste nila which is maliit lang po iyon. Ang usually na malaki nating mage-generate dyan is mga spoils like yung soil na mae-extract natin na rest assured po na hindi natin sa waste facilities natin. Again, sabi po nila na hangga't maari po, ire-recycle... ire-reuse yung magagamit or makukuhang mga soil. Regarding po sa sariling sanitary landfill, it will maintain additional cost din po kasi. With that po, rest assure na siguro ilalagay na lang natin sa plan natin na kung gaano lang kaunti o karami na mage-generate ng mga taong nandoon. Iyon sir yung pwede naming ilagay dun sa report.

PH OFFICER: Thank you po, ma'am.

PUBLIC: Ang project na ito ay dalawang bayan, Santa Fe at Aritao. Ang ancestral domain is Kalanguya-Kalahan Santa Fe. Ang question ay ganito

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po, in case na may problema doon, saan papunta? O saan ang masusunod?

The political boundary or the ancestral domain boundary? Which will prevail? The political boundary of the ancestral domain...

EIA CONSULTANT: Sir, doon po sa'ting MOA na napirmahan, pwede po nating balikan. Meron po tayong tinatawag na Grievance Redress Mechanism. Naka-explain po doon kung papaano po natin ire-resolve yung mga issues na nari-raise. Ito pong mga issue na ito ay IP concern. Ang malinaw po doon na kapag may IP concern ang ancestral domain niyo po ang mag-go-govern over the political boundary.

PROPONENT: Engr. Bulan po from DPWH. Tama po iyon, may Grievance Redress Mechanism po tayo na naka-indicate sa MOA. Unang-una po, kapag may mga problema, doon muna sa locality, doon muna sa IP, na organization muna ire-resolve yun. Kapag hindi naresolve dun, 'tsaka po tayo aakyat sa <inaudible>. So ganun po yung parang authority sa pag-resolve ng mga concerns and problems pagdating sa community. Thank you po.

PH OFFICER: Thank you, sir. Sino pa po ang nais magtanong o magbigay ng kanyang komento regarding po sa proyektong 'to? Si sir po.

PUBLIC: Magandang umaga. Ako si Edgardo Sabado, Provincial Planning and Development Coordinator. Several time kasi kapag ganitong mga compact na, una ay, siguro basic lang. Ano bang major plan nitong project? Kasi yung sa nakausap kong... binigay niyo sa aking document is Dalton Pass East Alternate Road, hindi siya Dalton Pass East Alignment Road. Yan basic lang muna 'yan. Kung ano ba talagang titulo nung project?

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EIA CONSULTANT: Okay po. Ganito po. Tama po kayo 'no, sa lahat ng presentasyong ginawa namin nung 2021, ang pangalan po ng proyekto is Dalton Pass East Alternative Road Project. Pero nagkaroon po ito ng pagbabago ngayong 2023 po, doon po sa listahan ng priority program ng gobyerno natin... bale flagship infrastructure programs po, pinalitan na po yung pangalan ng Dalton Pass East Alternative sa Dalton Pass East Alignment Road Project. Kaya po yung buong report po namin ay pinalitan namin para mag-comply na po dun sa bagong pangalan para wala na pong kalituhan na maganap. Pero same project po ito.

PUBLIC: Pwede pa? May serious lang akong concern.

PH OFFICER: Yes po, sir.

PUBLIC: Yung proyektong Dalton Pass East Alignment Road Project, saang standard siya napapaloob? Nasa Highway Standard 1? O nasa Highway Standard 2? Based sa study ng JICA na yung sa highway.

EIA CONSULTANT: I-confirm po namin pero tama po kayo High standard highway po yung sinusundan namin kaya po ganyan yung design speed niya.

PUBLIC: Kaya nga kung 1 or 2 siya. Kasi may implikasyon ang 1 o 2, di ba? Kasi sa 1, may implikasyon sa access kasi fence yan. Expressway ang standard niyan. Kapag standard 2 ay yung <inaudible>. So meron yang... yan yung sinasabi ko kanina that all of these will be <inaudible> funded ng JICA. So kung <inaudible> funded, so loan, no concession- mas mura. So kung loan 'to, yung recoupment ng cost with the loan ay though toll booth o public booth?

PH OFFICER: Sir, yung katanungan po ni engineer ay tungkol po sa category o standard- high standard highway 1 or 2 po? Yung isang

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tanong is regarding the funds po. From DPWH, may makakasagot po ba regarding sa standard o category nung itatayong pong <inaudible>?

EIA CONSULTANT: Sige sir. Two items 'no attorney. Number 1, highway... confirming it is highway standard 1 or 2, pero based sa nakikita naming disenyo, naglagay na po sila ng access sa tabi para makapag-connect yung dalawa. So, having said that, I think... kung napansin niyo po kanina sa video, meron pong access road na tutulay, tatawid sa ilalim para magkaroon ng connectivity yung magkabilang panig- kasama po iyon sa design sa ngayon.

PUBLIC: Pero kung... Kasi kapag expressway, they are requesting access crossing the road kung community to community kasi <inaudible> nila. Kaya't maganda na kahit na single elevated pathways, in case lang.

EIA CONSULTANT: Okay, we'll consider that sir. We'll verify lang sa DPWH ngayon kung 1 or 2 siya. Pero based dun sa design namin ngayon, parang tinitipid yung crossing kaya maglalagay sila ng access sa ilalim. On your second item sir, I think we also discussed this dun sa toll, sa totoo po sa ngayon, pinag-uusapan pa rin ng opisina. Hindi pa po yung modality in terms of papaano po ire-recover yung... si sir, may idadagdag.

PROPONENT: (Engr. Ponce) Regarding kung merong access, hintayin po muna natin matapos yung detailed engineering design. Kung meron man tayong ma-identify na access road. Kasi ito nga eh, project na 'to parang nakita niyo sa video kanina, parang very long road construction ito at nasa high speed ang highway na 'to. So maaari ngang lilimitahan natin yung access road crossing sa mga ganyan. Pero hintayin po natin yung detailed engineering design. Ah kung toll road..

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PUBLIC: <inaudible> kasi kung public road siya, babagsak tayo sa highway standard 2. P'ag highway standard yan - toll booth yan.

PROPONENT: (Engr. Ponce) Hindi pa namin masagot iyan kasi hintayin natin yung detailed engineering design. Pero may proposal na ganun ah. As of now, hindi pa namin ma-finalize iyan.

PUBLIC: In terms of title, balikan ko yung title. Kasi yung Dalton Pass kasi ay named to General Dalton ano- sa history. Ngayon, pangalan kasi nung area is Balete Pass as a Republic Act. So yung isang manifestation ng governor namin when we are proposing a high standard highway 1, from Tayabo, San Jose to Bayumbong ang tawag namin ay Balete Pass Expressway- East Alignment, parang ganun. Meron ng RDC endorsement. Proposal namin yan from Tayabo, San Jose up to Bayombong. I read the plan na may proposal nga na 90 kilometers. Is this part of that component. Yun nga yung tinatanong ko, kung yung 23 kilometers from part nung component yung proposed expressway na that will plot from Tayabo to Bayombong kaya we proposed a expressway for that matter. At kasi, nakikita niyo, yung <inaudible> 2 ay mage-end sa Tayabong, San Jose. Yung PANEX from Pangasinan to Nueva Ecija, mage-end sa Tayabo, San Jose. From TPLEX to <inaudible> 2. From Tayabo, San Jose, expressway na iyan, papasok ng region 2. So yun po yung masterplan kapag naka-start na yung highway. So yun lang, kaya tinatanong ko, yung 20 kilometers ba ay component siya ng high standard highway category 1.

PROPONENT: (Engr. Ponce) Okay. Yung CLEX sa pagkakaalam namin ay hanggang San Jose iyan, ano? Actually, itong Dalton Pass, hindi connected dun. Pero ganun po yung nakikita namin, iba po yung CLEX, PPP yung mag-aano dun eh. So yung aming beginning is dun sa may

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Barangay Bunga. So kung mag-tunnel, hindi pa maano yung connection nung dalawa. Nitong proposed Dalton atsaka yung CLEX Phase 2. Ganun ang ano, pero yung sa Region 2, magwo-work out kami para magamit namin yung sa end eh. Dyan namin iko-connect sa end, sa Barangay Canarem. We will also ask the Regional Office na makikipag-coordinate kami dyan na kung meron silang proyekto dyan or kung wala, ipo-propose namin na kami, yung Dalton Pass, iko-connect dun sa barangay na iyon.

PUBLIC: <inaudible> Ano ba siya, yung road project na'to. Kasi hindi <inaudible>

PROPONENT: (Engr. Ponce) Ano, mako-consider ito na HS1. Kasi nga, as much as possible, di ba yung HS1 meron yung alternate road na construction. Tama ba iyon?

PUBLIC: I think wala. Kasi under the <inaudible> highway masterplan study ng UP ay meron kang standard highway na alternate dito sa <inaudible> na part of the proposal. Kaya nga tinatanong namin.

PROPONENT: (Engr. Ponce) Ganito na lang, siguro hintayin muna natin yung Detailed Engineering Design para maging safe tayo dun sa mga...

PUBLIC: <inaudible> iklaro kung kasama sa buong... ma-check lang natin 'tong segment na 'to pwedeng <inaudible> kilometers. Kasi segment lang siya ng buong east alignment eh.

PROPONENT: (Engr. Ponce) Yung mga hindi natapos ng mga Regional Offices, dun po <inaudible> yung Dalton Pass doon, yun lang. Pero nga yung sinabi ko sa area niyo, yung magiging... kailangan ng improvement dyan eh... kasi nga gusto namin maging high standard itong ano eh... yung mga local na kalsada, mini-make sure namin na high standard iyon - para maging uniform ang kalsada.

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PUBLIC: Then sa Operation and Maintenance, kasi nabasa ko na may OCC.

Iyon bang operation and maintenance ay ipapa-kontrata o will be directly under DPWH.

EIA CONSULTANT: Pinag-aaralan po iyan pero let me ask the DPWH again to...

PROPONENT: (Engr. Bulan) Balikan ko lang yung tinatanong mo kung part ba o segment ba siya ng High-Standard Highway. Yes, sir, part siya kasi tayo ngayon sir sa mga dine-design natin na mga highways, hindi na tayo lumalayo sa high standard highways na ginawa ng DPWH... na funded din ng JICA. So itong segment na ito, itong 23 kilometers na 'to, kaya siya naka-design na 60-meter road-right-of-way, 60 kph-speed, yung sir yung mga criteria to classify as high standard highway.

PUBLIC: Pati gradient din ba?

PROPONENT: (Engr. Bulan) Yes, sir, pati gradient. Kasi ang main objective ng project na 'to- para mapalitan ito or magkaroon ng alternative dito sa Dalton Pass na existing. Okay sir, part siya ng high standard highway. Ngayon sir, dun sa sinasabi niyong... huling tanong niyo po, sa OCC. Actually sir, recently may dumating na mission from JICA. Tinatawag iyon na fact finding mission. Since nasa project preparation pa lang tayo, yung mga ganung discussion- fina-finalize pa yun. Kasi tinitignan nila sir yung viability kung pwede bang... kaya ba ng DPWH or kaya ba ng sariling pondo natin or kung kailangan nating i-outsorce. So again, pina-aaralan pa yung OCC na iyon.

PUBLIC: So hindi pa final

PROPONENT: (Engr. Bulan) Hindi pa final sir. Kaya sir, nasa project preparation pa lang po tayo- pagkuha pa lang ng permits, katulad ng

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ECC, yun pa lang sir yung tinatalakay natin ngayon para mag-proceed na tayo sa project evaluation. Yun nga po sir sa PDC, RDC, and NEDA. Kapag dumating na tayo sa mga ganung stages, most likely meron na tayong mga preliminary design kung saan made-decide na natin kung anong kailangan dun sa mga tinatanong niyo.

PUBLIC: Yung sa nabanggit kanina na Multi-Partite Monitoring Team, at ang binabanggit lang during construction. How about operation and maintenance? May MMT ba?

PH OFFICER: Sir.

CASE HANDLER: Doon sa MMT po, as long as continuous yung validity ng ECC, magkakaroon po tayo ng MMT. Kung ire-request po for termination saka lang po mabubuwag yung MMT pero ano pa rin po namin iyan-evaluation pa rin ng office kung pagkatapos ng construction, kapag during operation phase na. Kasi po there will be a time na yung impact niya ay hindi naman na po katindi kumbaga unlike nung construction kasi andun po yung bulk impact- yun nga po sa construction phase. Pero for magiging evaluation pa rin siya ng office. Anyway, isasama naman po namin as member yung mga municipality nang sa gayon makita nila kung kailangan pa ba ituloy-tuloy yung operation ng MMT during the operation phase.

PUBLIC: Natanong ko kasi yun dahil may mga mitigation measure sila during the operation phase so sinong magmo-monitor nun?

CASE HANDLER: Actually po, yung MMT ay bukod pa po iyon sa personal monitoring ng EMB. Kumbaga itong MMT, kasama po yung ibang stakeholder na affected pero hindi naman namin isasantabi yung trabaho pa rin namin na imonitor pa rin yung project. SO may mg aproyekto pong walang

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MMT especially yung mga ECA Projects- mino-monitor pa rin iyon ng EMB kasama nung EMB Regional Office. Kahit po may MMT o wala, magmomonitor pa rin po ang EMB.

PUBLIC: Meaning if there is a decision to disband the MMT na hindi na itutuloy sa operation and maintenance stage, then meron kayong gagawing rekomendasyon.

CASE HANDLER: Meron pa rin at meron pa rin. Hindi lang po MMT ang nagmo-monitor. Hanggang valid pa rin ang ECC, imo-monitor pa rin namin.

PUBLIC: Then meron kasing ginawang baseline study na na-conduct. In case po during dun sa construction, meron kayong ma-encounter na critical flora or fauna. Ano yung methodology or ano yung options during construction?

PH OFFICER: Sige po, sir.

EIA CONSULTANT: Sir, unang-una yung sa permit po siguro 'no- yung mga tree cutting. Magkakaroon po sila ng full inventory. Hindi po kasi full inventory yung ganawa natin usually sa EIA, representative tayo ng transect. Pero definitely sir, kapag nag-appluy tayo ng Tree Cutting Permit, this will be full inventory including yung sa madadaanan po... whatever na makikita nila. Usually this is being done jointly by the CENRO, makikita po nila kung ano yung critical specie na nandun. Nandun naman po ang CENRO. The full inventory will happen after, hindi pa po natin ginagawa yun.

PUBLIC: Ang tinatanong ko, ano yung gagawin kapag naka-encounter.

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EIA CONSULTANT: It will be based on the guidelines of the CENRO office.

Kasi usually the tree inventory is done in coordination with CENRO-nandun po sila. So kung may makita dung specie, sila po yung... kailangan nating i-report sa kanila or kailangan nilang... may procedure po ang CENRO Office kung papaano nila gagawin.

PUBLIC: Siguro, kailangan lang ilagay dun sa mitigation.

EIA CONSULTANT: Sige sir, we will follow that procedure- i-highlight po namin sir.

PH OFFICER: Sir from DPWH po.

PROPONENT: (Engr. Ponce) Follow up ko lang sa tanong mo. Kunwari di namin nasama sa inventory yung mga flora na ganyan, so makiki-pagcoordinate kami sa CENRO? Mai-include siya sa Tree Cutting Permit?

EIA CONSULTANT: Yes, sir. Idadagdag po namin sa mitigating measure aside from that yung institutional plan siguro on how this will operate. Pero from our experience during the Tree Cutting Permit application, we will be conducting this through the CENRO. Usually si CENRO ang kasama nating nagbibilang ng puno- so mas alam nila 'yon. May taga-DENR po nab aka po pwedeng sumagot sir.

DENR-PENRO: Magandang umaga po sa ting lahat. Forester Santos po form PENRO Special Concerns. Actually yung procedures po natin bago po mag-conduct ng anumang <inaudible> 100 % inventory at may mga guidelines na sinusunod. Una sa replacement at rehab. So tama po yung sinabi niyo, lahat ng species na madadaan niyan, maka-classify siya and the magkakaroon siya ng policy- to be submitted to Undersecretary for Field Operations.

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EIA CONSULTANT: I-emphasize na lang po namin sa report para ma-enhance po yung discussion.

PUBLIC: Tungkol naman sa hangin. Kasi merong baseline nagawa <inaudible> na may mga information na lumalagpas dun sa standard. I'm not sure kung air quality standard.

EIA CONSULTANT: Sa noise po siya, sir.

PUBLIC: Ah noise pero sa air, wala naman. During the operation and maintenance, meaning <inaudible> yung activity niyo, may dumadaan na sasakyan, malalaking truck- maugong. Paano natin mami-mitigate yung impact niya? Can we meet the same standard pre-construction?

EIA CONSULTANT: Attorney, can I?

PH OFFICER: Yes po, sir.

EIA CONSULTANT: So ang atin pong standard sa ngayon na kinukumparahan - yung nakita niyong naka-table kanina ay kinukumpara natin dun sa existing standard ni DENR at kina-classify din po iyan depende sa area, kung residential... yan po ay utility na. Nag-iiba po yung standard. So yug tanong niyo po na kung pwede nating ma-meet, magiging basehan po natin doon kung ano na yung gamit nung area. Pero definitely, dun sa mga bahay na na-monitor natin, hindi po magbabago iyon kasi doon pa rin sila nakatira. Pero doon sa daanana na ng sasakyan mismo na sabi niyo dadaan na doon yung sasakyan, ibang standard na yung magpi-prevail doon dahil iba nan ga po yung use. Can I just... siguro I'll pick up your recommendation on the operation and maintenance. Let me emphasize this also that because this is an ODA project, meron po talagang requirements sa amin sa JICA na maglagay ng O&M at least for one year ng end ng construction to make sure na

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tuloy-tuloy ang monitoring ng DPWH. But this is again outside the MMT requirement na sinasabi po ni Engr. Joel. Kasi po eventually, kapag gusto po ni munisipyo na ituloy-tuloy, I think pwede pong mag-operationalized yung MMT dahil valid pa po yung ECC na hawak-hawak ni DPWH. Pwede po iyon sir. I think dahil sa power and option na ituloy-tuloy sa operation and maintenance. NAIintindihan ko po yung agam-agam ninyo dahil iba nga rin yung kondisyon ngayon dahil nga po may tunnel. Bukod ito nga po yung pinaka-mahabang tunnel na gagawin natin sa Pilipinas, iba yung... hindi pa natin nae-experience eh. Baka yung ugong ng pagpasok ng sasakyan eh iba... di po ba? Baka ho marinig. Lahat po iyon ay isinaalang-alang ng JICA kaya po nag-extend sila ng one year- operating and maintenance monitoring. After po one year ng operation, babalik na po sa MMT... sa DENR... kung itutuloy pa rin po natin yung activity.

PUBLIC: Kasi I would recommend na dun sa parte na on-grade, pwede bang magtanim ng buffer... mga tree? Para ma-mitigate yung sound along the right-of-way.

EIA CONSULTANT: I-discuss po namin. I think lalabas na po Detailed Engineering Design. Sige sir, natural noise barriers, we can recommend sir. Wala namang masama don gaya ng ginagawa natin sa NLEX na may matataas na puno. Yes sir, noted po.

PUBLIC: I think sa water, addressed naman. Kasi ang concern ko during the operation and maintenance is yung sediments. At meron ding kayong nalagay na Solid Waste Management during operation and maintenance, meaning... kasi di natin maiwasan during operation and maintenance, yung nagtatapon ng basura, ganun. So the DPWH or the Contractor will be the one collecting. The same concern, hindi lang yung sa five years,

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saan niyo itatapon yung waste during operation and maintenance. Meaning, kung ilang years yan mago-operate, syempre it will generate solid waste. So isang concern, you will give truck to the municipality? Yung DPWH doon niyo dadalhin yung waste? Yung recommendation na magkaroon kayo ng sariling Sanitary Landfill. Ang concern ko, during construction lang sila naka-tutok neglecting operation and maintenance. Other countries <inaudible> kasi napapabayaang din kaya I'm focusing on that. Ito namang sa sediment, nakita ko naman ito na you have sediment traps yun naman usually ang problema- yung pag-alis ng silts o sediments in the traps- yun yung isang concern. Kung expressway ito, bahala yung contractor or operator. Pero kug DPWH ang mag-maintain, I don't know if that can be followed during operation and maintenance ng road. So I'm so critical nga doon sa MMT na mas better i-maintain yung MMT to really ensure na yung mga condition sa ECC ay nasusunod. Hindi lang si EMB- kasi yung EMB is just one agency na marami ring ginagawa. So we request na meron ding MMT na titingin kung may mga lapses during the O&M in case na may mga magandang nagawa. So iyon yung nakikita... I would propose na kailangan nating i-continue yung MMT during operation and maintenance. Yung decommissioning, hindi ata iyon mangyayari kasi yung decommissioning, babakbakin mo yung mismong kalsada eh. Matagal pa iyon- kasi merong mga conditions dun sa decommissioning. Isa na dun kapag ayaw niyo na nung MOA with the CADT holders- iyon ang isang condition for decommissioning. Nandun sa kwan yung mga conditions nakalagay. That's one. Then air, water. Sa water, okay naman. Sa other aspects, sa social... I think it was addressed mostly dun sa social. Sa Public Hearing naman, the more they can ventilate their concerns. Yun lang muna yung aming reaction to the proposal. I do hope na meron ng clarity because of the consultation

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na ginagawa... ng clarity in terms of kung an oba talaga siya kasi it will affect future actions to be taken.

EIA CONSULTANT: Maraming salamat po! Napakarami pong naibigay na impormasyon niyo sa amin. Hawak hawak ni sir yung kopya ng EIS namin. Di niyo nakikita, meron siyang kopya. Maraming salamat po. We will discuss your recommendation with DPWH and again, gaya ng sinabi nila, most of these will be really addressed during the Detailed Engineering. Pero hangga't maari po yung mai-include po sa EIA, ilalagay po namin yung kayta nating i-include.

PROPONENT: (Engr. Ponce) During the implementation namin dyan, meron kaming pini-prepare na Environmental Compliance Report- monthly o semi-annually. Oo, meron kaming pini-prepare na ganyan. So iyon, andun yung aming compliance sa mga ECC, naka-reflect dyan. Andun yung aming report, pwede naming gamitin yun sa... And during after ma-issue iyan, nagi-issue kami ng certificate of completion. Plus, after that, may one year maintenance iyan na ginagawa ni contractor. Anything na mangyari doon, masira, ibabalik nila iyon. After nung maintenance ni contractor, ang tanong dyan kung sino na ang magmi-maintain. Di ba? Kasi kailangan dyan, ma-educate yung magmi-maintain, specifically yung sa tunnel kung paano mag-operate nun- kailangang ma-educate yung hahawak ng maintenance niyan. Sa Regional Office na namin iko-coordinate, respectively- Region 2 and Region 3. Thank you!

PH OFFICER: Meron pa po bang nais magtanong? Magtaas lang po kayo ng kamay. Any questions po, issues, or concerns po regarding sa proyekto ng DPWH?

Sir po na naka-white. Sige po sir.

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PUBLIC: *** from Control Office of Radio Aritao. Yung tanong po ni engineer from provincial office, meron po ba tayong MOA for hiring of laborers para sa mga affected areas? Sa LGU, sa contractor, o sa DPWH? Mai-prioritize po natin yung mga affected area. Yun lang po.

PH OFFICER: Sir, regarding employment po.

PROPONENT: (Engr. Ponce) Regarding sa employment, meron kaming law diyan na nire-require kami pati ng aming contractor na mag-hire ng tao sa locality- composing 60% unskilled and 40% ng skilled. Dun sa qualification na ina-applyan ninyo, ganun dapat, qualified kayo ah. Ganun lang, requirement din sa amin yun.

PH OFFICER: Sir, pangalan lang po and kung taga-saan.

PUBLIC: IPMR ng Aritao po, Bayani Larosa. <inaudible> Pwede ho bang at the very beginning of the construction, ilagay natin yung IP First Policy? IP First Policy.

PH OFFICER: Sir, yung tanong po ni sir from IPM ay kung pwede daw bang ibigay yung IP First Policy?

EIA CONSULTANT: Sir, sa ngayon po, ino-note po muna namin. Okay lang po ba? Na meron po kayong suhestyon na ganun at ibabangga po namin dun sa kung ano po yung sinasaad ng Department Order ng DPWH. Kasi sa ngayon po, ang nakasulat, yung mga taga-doon ang uunahin. So kung yung mga taga-doon ay IP, mauuna naman po kayo. Ganun po yung context nun. Pero sir, ngayon ko po lang narinig yung suggestion niyo na parang IP First Policy. Iko-confirm po namin sa DPWH, ayaw po namin magkamali ng sagot pero ililista po namin ngayon. Ibibigay po namin iyon. Pero kasi kung yung policy nila ay dun sa barangay at majority

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nung mga nasa barangay ay IP, hagip na hagip po kayo dun kasi kayo yung bibigyan... ma-prioritized.

PH OFFICER: Any questions pa po? Or suhestyon po sa project? Sir po.

PUBLIC: Ben Balalong po ng Canabuan, Punong Barangay. This is a basic question siguro. Sir Joma mentioned a while ago the number of trees to be cut is almost ten thousand. Saan po sir dadalhin yung kahoy, during operation... maka-cut? Baka pwede pong humingi.

PH OFFICER: Sir from DENR po.

DENR-PENRO: May Joint Memorandum Policy po tayo. Itu-turn over po lahat yan sa DENR for proper safekeeping. With existing policy, itu-turn over po iyon. Gaya po ng existing minings natin, lahat po ng na-cut doon, aside from the replacement, we rehabilitation. So itu-turn over sa DENR for proper disposition.

EIA CONSULTANT: Kap, sa DENR po raw.

DENR-PENRO: Ang policy po kasi... ganito po kasi sir ang kwan ng DENR, kapag may mga local projects yung mga barangay, mag-request po sila sa opisina <inaudible>. Then kapag in-approve ng aming Regional Director, they can utilize. Yung request <inaudible>. Pero dadaan din po iyan sa process. Regional Director na po ang mag-approved niyan.

PH OFFICER: Thank you po, sir. Any questions pa po? Mga katanungan, issues, concerns or... si sir po ng DPWH.

PROPONENT: (Engr. Ponce) Tungkol dun sa concern na IP's First Priority, maganda po sigurong makipag-coordinate sa barangay para kung sino yung gusto niyong ano... mas mabuti iyon kasi kami naman ho kapag in-implement namin yan, ayaw namin na "si ano ganun, si ano

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gusto ganun". Maaring mag-usap muna kayo sa locality ninyo sa barangay kung sino po ang... para maayos po.

PUBLIC: Patungkol po ito dun sa ano ni IPMR, yung IP First Policy. Siguro po kapag nag-umpisa na po ang construction phase... siguro po magandang makipag-ugnayan ang contractor sa duns a PESO manager ng munisipyo. Dahil sa PESO Office po, meron na po kaming profile ng mga taga-barangay at yung skill nila, andun na rin po- kaya Madali na lang tayong... Ang importante na makipag-ugnayan po kayo dun sa PESO office ng munisipyo.

PUBLIC: Since na wala pang DED, mga sir, baka pwede nating i-include yung provision ng service bay. Andun siguro sa tunnel may service bay, kapag may nasiraan, meron. So another concern ay sa panahon ngayon maraming mahilig sa facebook, tiktok yung mga tao. So hindi ba pwede dun sa bukana ng mga tunnel magkaroon tayo ng provision for mga nagpi-picture na... sa ano nila... it is some sort na pino-promote namin yung project or pino-promote din namin yung locality. Kaya ngayung sinabi kanina ni PPDO, yung pangalan niya san hindi Dalton Pass- Balete Pass eh. Di ba? Mas maganda kasi we are promoting the locality. Kasi ang Dalton Pass is time memorial kay... kay adapat palitan na eh, may Republic Act na. Salamat po.

PH OFFICER: Sir, ano po yung pinaka-question niyo po? Promotion po?

PUBLIC: Promotion on tourism. Pwede naman tayong maglagay sa mga bukana. Hindi natin maiiwasan yan eh. We are promoting the locality, nagi-invest tayo sa province- Province ng Nueva Vizcaya at ng Nueva Ecija.

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EIA CONSULTANT: Noted, sir. Ilang beses na rin naming narining yang suggestion na iyan. Ilalagay din po namin sa recommendation at sa documentation ng Public Hearing para pag-usapan po ng DPWH. And this will be considered in the Detailed Engineering Design. Thank you po.

PUBLIC: Siguro part ng support dun sa labor. Yung implementation ng RA 11291, yung Magna Carta of the Poor na kung saan 30% ng skilled workers ay manggagaling sa qualified skilled na katutubo. Merong batas tungkol doon. Baka pwede 'tong ilagay doon sa agreement. Meaning, i-anchor niyo lang dun sa agreement with the IPs... sa ICC natin kung paano natin i-implement yung Magna Carta of the Poor sa ICC... sa agreement.

PH OFFICER: Yung question po ni sir is regarding po sa requirements of employment po kung pwede pong i-consider yung Magna Carta of the Poor po.

PUBLIC: Kasi mandated sa Magna Carta of the Poor na at least 30% qualified skilled workers ay coming from the poor.

EIA CONSULTANT: Noted.

PH OFFICER: Noted daw suggestion po.

Any questions pa po, concerns, or suggestions para sa proyektong ito? Sir, pangalan po at kung saan nabibilang na barangay.

PUBLIC: **** Bautista, SB Member po ng Santa Fe. Kanina, nakita ko yung presentation kanina dun sa tunnel - 1.6 km. Wala pa po bang epekto sa mga katubigan natin, baka naman... kasi sa taas yan magaganap yung tunnel eh. Baka naman mawalan ng tubig dito sa baba.

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PH OFFICER: Ang tanong po ni sir is regarding sa construction ng tunnel kung may effect daw ba ito sa water.

EIA CONSULTANT: Sir, thank you po. During the initial discussion with the JICA Study Team, na-consider po iyon. Kasi alam nila na merong mga possible na groundwater na maaaring bumababa. So yung final location po nila ngayon, na-consider na po iyon dun sa study nila. Yung groundwater assessment, kasama po iyon. And yung nilagay nila ngayon na position nung tunnel, sinasabi nila na hindi maapektuhan yung groundwater resources.

PH OFFICER: May mga magtatanong pa po? Any comment po? Suggestion po for the <inaudible> proyekto po ng DPWH? Maari na po tayong magtaas ng kamay para po marinig ko ang inyong mga katanungan.

PUBLIC: In case po of road safety 'no. Yung access ng mga local <inaudible> responders natin sa facility, kung paano yung protocol? Kasi kung merong mga disgrasya or anything pwedeng mangyari dun sa tunnel or... paano yung access ng emergency on that spot?

EIA CONSULTANT: Yes, sir. We'll consider that.

PROPONENT: Actually, sa <inaudible> sa trabaho diyan, meron kaming safety requirement- this includes na magmo-mobilize kami ng mga nurse... ganyan. Immediate... oo... during operation, magdeploy kami ng mga nurse. Yung operation and maintenance niyan, pag-uusapan pa natin yan kung sino yung maga-ano. Pero syempre, may mga naka-abang dyan na kunwari mga naka-standby na generator, ganyan o bumbero... standby.

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EIA CONSULTANT: Sir, yung details ng OCC, isama natin yung coordination sa LGU para at least yung effort ninyo ay magsasalungat. Pero i-note po namin iyan. You're referring to the OCC po.

PH OFFICER: Name po at kung saan nabibilang.

PUBLIC: Jerry Tan, Assistant Provincial Assistant Engineer ng Nueva Vizcaya. Ang naiisip ko lang po during the operation of the project, halimbawa may mga masiraan ng sasakyan sa loob ng tunnel. Meron bang yung provision ng emergency exit. Meron ba tayong mga ganun? Meron bang... considering the length na 4.10 kilometers - napakahaba niyan. Halimbawa, masiraan ka dun sa gitna, huwag naman sana mangyare, may earthquake- makulong ka dun sa loob. Meron ba yung portion na na-consider nilang emergency exit? Thank you!

EIA CONSULTANT: Salamat, sir. This will be provided in the detailed engineering, but I can ask DPWH para po masagot.

PROPONENT: (Engr. Bulan) Sir, kung mapapansin po natin kanina. Di 'ba pinakita kanina yung parang conceptual design nung tunnel facilities. So sir, yung concern niyo, nakapaloob sa Operation Control Center. Mini-make sure ng mago-operate and maintain na yung facilities natin ay equipped with safety facilities. Kaya po sir, dalawang tunnel yan di ba? Supposed to be evacuation tunnel yung isa. Kaya sir dalawa yan, in case na may nangyari di naman inaasahan- earthquake, so may mga emergency exit na iko-construct dyan sir, may mga connection sa gitna, merongiko-construct dyan sa gitna para po sakali ma-divert yung traffic sa kabila <inaudible>. So kumpleto sir sa safety facilities. Maski sir yung mga rumoronda na tao, kumpleto rin iyon sir... with CCTVs

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para ma-monitor yung mga nangyayari sa loob ng tunnel habang ginagamit.

PH OFFICER: Meron pa pong magtatanong po? Magri-raise ng issues po, maari niyo lamang po itaas ang inyong kamay. Wala na po bang mga katanungan sir? Maari ko na po bang... kung wala na po kayong katanungan, pwede niyo pong i-move para matapos na po itong open forum.

Wala na po? Sige po, sir.

PUBLIC: I move that the open forum is suspended or adjourned.

PH OFFICER: May mag-second the motion po?

The Public agreed to closed the Open Forum.

The Public Hearing Officer then summarized all the concerns and issues raised regarding the proposed project. The Public Hearing Officer also presented the next steps for the project.

<END OF TRANSCRIPT>

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PUBLIC HEARING

<START OF TRANSCRIPT>

PH OFFICER: Magandang umaga po sa ating lahat. Ako po ang inyong Hearing Officer, Atty. Erika Romero. Dadako na po tayo sa open forum ng kung saan maari na po kayong makapag-tanong or mag-raise ng issues and concerns regarding sa proyekto ng DPWH- and Dalton Pass East Alignment Road Project. Pero bago po ang lahat, meron po tayong alituntunin or mga house rules na dapat sundin para magkaroon tayo nang maayos na Open Forum. Una po, ang Public Hearing ay gagawin sa Tagalog or kung saang linggwahe kayo mas komportable. Pangalawa po, ine-enganyo po ang lahat na magparticipate o para po makapagtanong, itaas niyo lamang po ang inyong kamay at akin pong ia-acknowledge ang inyong presensya para po makapagsalita po sa mikropono. Kapag kayo'y magsasalita na, magpakilala muna kayo. Sabihin niyo ang inyong pangalan, barangay at organisasyon kung saan po kayo nabibilang.

Lahat ng ay dapat ay maikli, malinaw, at direktso. Iwasan ang paggawa ng mahahabang pagsasalita upang magamit nang husto ang partisipasyon ng publiko at upang makamit ang objective ng Public Hearing. Ang mga komento ay dapat bilang kinatawan ng publiko at hindi pangsarili nang sa gayon ay nakapokus ang lahat sa isyung pinag-uusapan. Sunod po is makinig sa mga taong nagsasalita at iwasan ang paggawa ng anumang nakakabulabog. As Hearing Officer po, mayroon po akong karapatan na palabasin po kung sino man ang manggulo o mangbulabog during our Open Forum at Public Hearing. Kung maari pay tapusin ang Public Hearing at huwag muna pong umalis. Iyon lamang ang mga alituntunin po. Maari

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na pong... Pwede na po tayong magtanong regarding sa proyekto ng DPWH. Itaas niyo lamang ang inyong kamay at akin kayong tatawagin. Ah sir...

PUBLIC: Magandang tanghali po sa ating lahat. Ako po si Ginoong Espino Bagsic ng Barangay Burgos. Meron lang po akong iatatanong tungkol dun sa dadaanang Sitio Barang. Sa Sitio Barang po, may mga bahay na madadaan. Meron din pong mga bukid na dadaanan. Meron pong mga tenant <inaudible> at meron ding mga title- yung mismong madadaan ng daan po natin. So ano po ang makukuha nilang benepisyo? Yung mga dadaanang bahay, dadaanang itainatayong simbahan, madadaanag itinatayong malaking bahay, at dadanang mga land lang na may title na bukid po doon sa nasasakupan ng Sitio Barang. Magandang umaga po sa ating lahat. Yun lang po ang aking katanungan.

PH OFFICER: Sir, from DPWH <inaudible>.

PROPONENT: Franchesca Del Mundo from DPWH. Sir, regarding po sa tanong niyo regarding sa kabayaran para sa mga bahay at mga istraktura na matatamaan. Rest assure po na ang DPWH po ay babaran po ang anuman pong lupa or structure na dadaanan ng ating proyekto. Kaya meron po tayong Right-of-Way Acquisition Plan na kung nakasaad doon na yung estimated na matatamaan. Rest assured na lalapit po sa inyo ang team namin para makuha po ang information niyo at mabilang kayo doon sa mga mababayaran. Nasa batas naman po iyon, RA 10752, na lahat po ng lupa pati mga structure ay babayaran po. Salamat po.

PH OFFICER: Okay po. Sino pa pong nais magtanong? Magtaas lang po ng kamay. Si Ma'am na naka-green.

PUBLIC: Magandang tanghali po. Ako po si Annaliza Inway mula sa Barangay Salazar. Kami po yung mga <inaudible>. Ang tanong ko po

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ma'am, yung... wala na bang adjustment yung ano nilagay sa listahan kasi maluwag naman yung space niya, pwede namang i-adjust o kaya sa mga bukid yun po. Wala na bang adjustment, yan na po ba talaga yung dadaanan po?

PH OFFICER: Sir po from DPWH.

PROPONENT: (Engr. Ponce) Ma'am, salamat po sa inyong tanong. Yun pong pagkakaroon ng adjustment sa alignment ating kalsada, yun yung sa tingin ng JICA Study team, ito po yung mainam na daan. So maipapakita po namin yung final alignment pagkatapos ng Detailed Engineering Design. Ganun po iyon. Hindi basta-basta binabago ang daan kung gusto niyo maiwasan baka masira yung design nila sa kalsada. Hindi ho basta basta nababago yan. Salamat po.

PROPONENT: (EnP. Del Mundo) Ma'am, clarify lang po namin. Iyon po bang ibig-sabihin niyo sa adjustment is madagdagan po ba yung listahan na kasama po ba doon sa mga affected o yung mismong dadaanan po?

PUBLIC: Good afternoon po. Ang ibig-sabihin dun sa tanong is hindi pwede <inaudible> yung dadaanan, mag-adjust ng konti para nga hindi madamay yung the whole property. Meron kasing sample na bukid po ng tito namin. Buong bukid po niya pati house niya, lahat po talaga madadaan. And then, may request po sana kami in behalf of that tito of ours, na sana dumating yung project sa property nila, pwede daw sana yung payment sa kanyang property ay maibigay na para naman maibili ng lilipatan nila.

PROPONENT: (Engr. Ponce) Yung tugon po sa kabayaran, basta po meron kaming checklist ng mga papel/ dokumento na kailangan niyong i-submit.

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Basta po'y kumpleto iyan at napatunayan namin na sa inyo ang lupa, <inaudible> kailan po yung title. Yun lang.

PUBLIC: May title po siya sir pero hindi na po siya umabot sa registration kasi naiano na po iyon na protected area. Yung NAMRIA ba? Yung hindi na po siya pwedeng i-rehistro na Alienable and Disposal. Pero meron na po siyang title noon kaso hindi na nga po na na-register. Ngayon, considered na po iyon na ancestral domain. Kaya ayun po yung isa naming tanong. Kung less ba yung bayad nun kumpara sa non-IP?

PH OFFICER: Sir, yes po.

PUBLIC: Magandang araw po sinyong lahat. Mr. Leonardo Udasco ng DENR-CENRO Munoz, kasalukuyang APASu ng Pantabangan-Carranglan Watershed Forest Reserve. Gusto ko lang pong linawin yung sinasabi niyo kaninang property ay ina-apply niyo ng titulo? Ngeyon po ay hindi narehistro kasi pasok po sa forest land subalit yung lugar na tinutukoy niyo ay bahagi ng inyong CADT. So yung lugar po ay bahagi po ng CADT at ang isyu nila ngayon ay magkano yung magiging kabayaran na sa tingin ko ang mas makakasagot lang nito ay NCIP. Maraming salamat po.

PH OFFICER: Meron po ba tayong taga-NCIP?

PROPONENT: Engr. Bulan po from DPWH. Naipaliwang po ni sir na yung lupang tinutukoy belongs to CADT na. So ibig-sabihin, yung ownership nung lupa, hindi na po sa indibidwal na tao kundi dun sa CADT na. Tama po 'no? Ayon po sa ating RA 10752 at naka-indicate po sa ating binuong MOA during the conduct of the FPIC, na kapag ang lupa ay categorized or na-belong sa CADT- ang mode of payment natin sa Right-of-Way Acquisition ay easement... easement mode of acquisition. Ano po bang ibig-sabihin ng easement? Ibig-sabihin babayaran ang lupa na iyon

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sa halagang nakasaad sa BIR Zonal Value. However, yung bayad na pong iyon ay hindi na mapupunta sa indibidwal na tao kasi hindi na nakatitle sa kanya- ang lupa na pong iyon ay nasa CADT na. So iyon po ang nakalagay sa ating batas. At iyon po ay napaliwanag na ilang beses during the conduct of Free, Prior and Informed Consent na sinangayunan din ng mga taga- <inaudible>. So iyon po ma'am. Kung halimbawa naman ang lupa ay hindi parte ng CADT, bale ang mag-govern po doon na mode of acquisition is deed of negotiated sale basta meron kang title. Ang negotiated sale ay... ang bayad po sa negotiated sale is Current Market Value. So iyon po. Thank you po.

PH OFFICER: Sino pa pong nais magtanong? Pakitaas na lang ng inyong kamay.

PUBLIC: Magandang umaga sa ating lahat. Isa rin ako sa nag-enumerate during...

PH OFFICER: Pangalan po muna

PUBLIC: **** ng Bunga. During our land estimation, <inaudible> yung na-consolidate na yung number ng mga affected and then yung mga taong hindi <inaudible>. Paano yung gagawin natin iba ma'am?

PH OFFICER: Mga?

PUBLIC: Iyon pong nag-enumerate po kami, wala sila. Hindi po sila naisali dun sa na-enumerate namin. Tapos na-final na po yung mga affected, tsaka lang po sila lumabas- apektado rin pala sila. Ano pong gagawin natin sa kanila?

PROPONENT: (Engr. Ponce) Iyon pong aming RAP, <inaudible> iyan po ay ginawa namin sa lugar. So doon po nakalagay yung master list. Ibig-

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sabihin nakalagay dun lahat ng affected... andun po yon nakalagay. So yung mga pangalan na nakalagay dito ay maaari naming na-recognized as affected. Yung wala po doon, hindi namin pwedeng <inaudible>.

PUBLIC: Paano po kaya iyon? Kasi nga kami yung nag-enumerate, nung time na nag-enumerate kami yung iba po kasi hindi nagpunta and then yung time na magmi-meeting na ulit kami with the barangay, tsaka lang sila nagpunta <inaudible>.

PROPONENT: (Engr. Ponce) Sige po, icheck po ulit namin yung RAP. <inaudible> Actually, yung aming master list pwede pa po naming i-update.

PUBLIC: <inaudible> sir, meron daw dadaanang hindi nakasama sa enumeration.

PROPONENT: (Engr. Ponce) Sige po, the moment na ma-receive namin iyan, makikipag-ano pa naman kayo sa bahay bahay. So malalaman pa namin iyan kung talagang... sa ngayon sinasabi na hindi nakasama, pwede nating isama. Ganun po.

PROPONENT: (EnP Del Mundo) Ma'am, bigyan lang po natin ng paglilinaw, yung hindi po naisama nung una, maisasama po siya once magkaroon ng final validation. Ang pakiusap lang po namin sana, sa final validation, isama na po yung talagang dapat isama. Kasi once na ma-finalize na sa validation, may matatagal pa dun... may maidadagdag pa, may cut-off na po tayong tinatawag. Yung cutoff na iyon, once na ma-final na wala na po tayong <inaudible> doon. So yun po yung pakiusap namin. Since ngayon po, wala pa yung final validation, kung meron pang idadagdag, pwede pa naman pong ihabol kasi may DED pa naman po. So

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doon po natin icheck kung talagang affected po sila. Magkakaroon pa tayo ng <inaudible>. So huwag pong mag-alala yung hindi pa naisama.

PUBLIC: Actually ma'am, yung mga humahabol po sa amin, <inaudible>. Ibig-sabihin, <inaudible>, iyon lang po.

PROPONENT: (EnP Del Mundo) Basta yun ma'am, basta kasama na po sila. Iva-validate naman po namin.

PUBLIC: (APASu) Gusto ko lang pong linawin yung kanyang nire-raise, kung ano yung uri na maapektuhan. Pero lumabas naman po na People's Organization, napag-aralan ko po kasi, maliban dun sa una na solusyon <inaudible>, may susunod pa pong presentation ang DPWH <inaudible> at may representative naman po ang People's Organization <inaudible> mas mainam na pag-usapan with chairperson para sa gayon minsanan na lang po at hindi mahirapan sa proseso. Maraming salamat.

PH OFFICER: May nasi pa pong magtanong?

PUBLIC: Magandang umaga po! **** Punong Barangay ng Salazar. Tanong ko lang po tungkol sa MOA. Hindi pa ba <inaudible> yung paggawa ng amendment? Dahil meron pa kasing mga condition na idadagdag po namin. Tanong ko lang po kung hindi pa amend, ngayon pa lang po kami gagawa.

PH OFFICER: Sir, ang tanong po regarding sa MOA amendment po.

PROPONENT: (Engr. Bulan) Yung tungkol po sa ganong kondisyon, alam naman po nating lahat na NCIP, IPs, atsaka DPWH... pirmado na po natin the best solution of consent sa part ng IPs, Memorandum of Agreement, yung tatlong parties. Atsaka yung Certification of Precondition na permado na po ni chairperson. So kapag mga ganyang cases sir, na <inaudible> ng IPs, ang advise namin, hindi namin sinasabi na hindi

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pwede, dahil ang DPWH ay wala sa posisyon para baguhin yun dahil po kumbaga <inaudible> natapos na. Legal na, lahat ng kondisyon. Ang advise po ng DPWH, idulog niyo po ang concern niyo... siguro among yourself muna, mga IPs. At pumunta sa NCIP. Then i-evaluate ni NCIP kung okay po ba ang mga ganung changes, tsaka naman po kayo pumunta sa DPWH. Yun po, sir.

PH OFFICER: Okay po. Ibang katanungan naman po o shestyon para sa proyekto. Itaas niyo lang po ang inyong kamay.

PUBLIC: (Mr. Udasco) Ang concern ko po... narinig po kasi kanina na maiksing environmental impact assessment. Ito po ba ay bahagi ng feasibility study or pini-present na lang po natin is feasibility ng <inaudible>. Ang pagkaka-alam po namin <inaudible> as ECC at hindi tayo pwedeng mag-conduct ng EIA kung hindi po aprubado yung resolution na pagbibigay ng pahintulot para sa proyekto... na i-conduct yung proyekto.

At pangalawang katanungan po namin, yung spoil area. Ito po ba'y... yung spoil area na inyong tinukoy ay nasa loob ng protected area din? So far, yung lang po yung questions namin. Okay po.

EIA PREPARER: Si Jerome Leano po, part ng EIA Study Team. Bale sir for your first question po- yung tinatanong niyo po kung part siya ng resolution ng DPWH para dun sa pag-conduct ng feasibility study, parte po yung ginawa namin. Kasama po yung RAP o yung Right-of-Way Acquisition Plan and then yung Indigenous People Plan. So kami naman po yung sa Environmental Impact Assessment. So ito po, parte po nung isinasagawa natin or hinihingi natin ng pahintulot sa PAMB.

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So yung pangalawa niyo namang katanungan is yung spoil. May parte po doon kasi yung mga spoils area po, parte ng mga tunnel. So most probably, pasok siya sa CADT areas and then dun sa PCWFR. Subject for finalization namn po iyon kagaya ng sinabi kanina. Pwede po kasing gamitin yung mga spoils sa construction sa construction nung project so baka wala rin pong spoils na ano po. So ifa-finalize pa po namin iyan sa DED. And then sa mga IPs, kung okay lang sa kanila yung mga location ng paglalagyan ng mga spoils. Salamat po.

PH OFFICER: May mga katanungan pa po ba? Itaas niyo lang po ang inyong kamay. MAari na po kayong magtanong o magbigay ng komento, suhestiyon tungkol sa proyekto ng DPWH. Sige po, ma'am.

PUBLIC: May clarification lang po. Sorry ho, tayo nang tayo, hindi naman po ito concern. May clarification lang ho doon sa sinabi ni APASu tungkol dun pagbabayad ng aming ancestral domain. Huwag po kayo mag-alala, hindi po dahil yung CADT yung babayaran, CADT na yung tatanggap ng bayad. Ibibigay pa rin yun sa indibidwal na nagmamay-ari ng lupa. Yun lang po <inaudible>.

May tanong lang po dito kung kasama ba sa inyong agenda yung pagbibigay ng training para po sa mga hindi nakapag-aral na mga IP na magiging beneficiary ng mga trabaho doon para magkaroon po sila ng kasanayan.

PH OFFICER: Yung tanong ni ma'am ay tungkol sa livelihood or employment po... or TESDA Training para sa community po nila.

PROPONENT: (Engr. Bulan) Yung tanong po ni ma'am, tungkol sa TESDA training po. Actually, may programa po ang <inaudible> natin. Pero <inaudible> makikipag-coordinate po kami sa LGU para po sa mg aganung programa. Pangalawa, yung sa livelihood, meron po tayong ganun sa part

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ng RAP. Mine-make sure ng department na yung mga mawawalan ng trabaho, kabuhayan... kasi yung mga project affected person/family, basta basta na lang mawawalan ng pangkabuhayan. Hindi lang ho ngayon masyadong nadicuss, pero sa RAP po, Resettlement Action Plan. Thank you po.

PH OFFICER: May mga katanungan pa po ba? Issues sa proyekto ng DPWH. Itaas na lamng po ang inyong kamay.

May mga katanungan pa po ba ragerding po sa proyektong ito? Para po ma-address ng ating proponent. Si sir po, yung nasa likod. Pakilala po muna.

PUBLIC: Magandang araw po. We are from Provincial Engineering Office sa Provincial Capitol. Gusto lang po sana naming matignan yung buong alignment ng project kung hanggang saan.

PH OFFICER: Sir, pwede pong i-present yung...

Engr. Bulan (DPWH) discussed again the slides pertaining to the project alignment.

PH OFFICER: May mga nais pa po bang magtanong o magkomento tungkol sa project?

Mr. Leonardo Udasco, APASu (DENR-CENRO Munoz/DENR- PAMB PCWFR) shared that after the agency reviewed the conducted studies for the project, they can certify that the proponent properly researched the proposal and its environmental impact.

PUBLIC: Thank you so much attorney! Engr. Bernardo De Guzman, Bayan ng Carranglan. Kung wala na pong katanungan sa project po ng DPWH na narito sa Bayan ng Carranglan, <inaudible>. Ang masasabilang po natin doon ay minsan lang po ito mangyari sa kasaysayan ng ating bayan, sa

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lalawigan ng Nueva Ecija. Ang pakiusap ko lang po sa aking mga kababayan, suportahan po natin 'to sapagkat ang makikinabang ng proyektong ito ay ang ating susunod na henerasyon. Una, ang progreso ng ating komunidad <inaudible> para sa ating mga kababayan at iba pang mga kaibigan ay unang-una, magkakaroon po tayo ng maraming projects, hanapbuhay, at marami pang iba. At tataas ang antas... kalidad ng ating mga pang-aari ng ating nasasakupan. Kaya lahat ay <inaudible> sa pangunguna ng ating kababayan <inaudible>, mga barangay na nasasakupan sa Bayan ng Carranglan. Tulungan po natin ang gobyerno sa pangunguna ng DPWH at ang JICA sapagkat sila ang magbibigay sa atin ng karapatan upang umunlad ang ating bayan. Kaya sa oras na ito, kung wala nang magtatanong, lahat po tayo ay magpasalamat sa ating lumikha at sa ting mga panauhin. Sila ang instrumento kung kaya ang Bayan ng Carranglan, sa araw ng bukas ay merong tinatawag na kaunlaran. Magandang tangahali po at maraming salamat sa inyong lahat.

PH OFFICER: Last call po, wala na bang magtatanong regarding po sa proyekto? Kung wala na po, anyone from the audience to move terminate the forum.

Engr. Bernardo De Guzman requested to close the Open Forum.

PH OFFICER: Any second the motion po bago ko i-summarize ang mga napag-usapan sa araw na ito. Second the motion lang po...

Ms. Annaliza Inway agreed to close the Open Forum.

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The Public Hearing Officer then summarized all the concerns and issues raised regarding the proposed project. The Public Hearing Officer also presented the next steps for the project.

<END OF TRANSCRIPT>

TRANSCRIPTION

ANNEX G

Duly Accomplished EIA Technical Screening Form

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

GENERIC EIS/EPRMP SCOPING AND SCREENING FORM

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Date Submitted for Screening: _____
 Form of Submission: ____ Hard ____ Digital
 Project Title: Dalton Pass East Alternative Road Project
 Project Location: Provinces of Nueva Ecija and Nueva Vizcaya
 Project Proponent: Department of Public Works and Highways
 Authorized Representative: Benjamin A. Bautista
 Address: PJHL Building, NCR Compound-DPWH, 2nd Street, Port Area, Manila
 Contact No: (02) 8304-3901 Fax No: _____ Contact Person: _____
 EIS Consultant: LCI Envi Corporation
 Address: Unit 8L-M, Future Point Plaza 3, 111 Panay Avenue, South Triangle, Quezon City
 Contact No: (02) 8442 2830 Fax No: (02) 8961 9226 Contact Person: Mr. Joma Lim
 Project Category & Type (based on Annex A of MC 2014-005 Guidelines): (e.g. 1.3.2. Refineries-Category A) 3.4.1 Roads New Construction & 3.4.7 Tunnels and sub-grade roads and railways
 Project Size (use parameter in Annex A of MC 2014-005 Guidelines): 23 km Road including 6.06km Tunnel

Project Status (Please Check):

☒ New Project

☐ Existing Year of Establishment: _____

With Previous ECC? (Please check) ☐ Yes ☒ No

If with Previous ECC, Date/s of Issuance and Reference Code/s: (List in chronological order)

Date/s of Issuance:

Reference Code/s:

Date of Technical Scoping: January 11, 2022

Venue of Technical Scoping: Microsoft Teams

Table 1. Checklist of Documentary Requirements

Boxes and blanks in the first column are to be filled-up during scoping and the rest, upon submission of EIS for screening

	Acceptable?		Screening Officers' Remarks
	Yes	No	
Check required EIA Report ¹ <input checked="" type="checkbox"/> Environmental Impact Statement (EIS) <input type="checkbox"/> Environmental Performance Report and Management Plan (EPRMP) <i>(include photographs or plates of project site, impact/affected areas and communities and land-use plan showing compatibility of the proposed project)</i>		✓	List of Annexes were enumerated to identify all the documents that are included under each Annexes. The submission included the revised EIS with the approved EIA screening form with page locators.
Proof of Authority over the Project Site <input type="checkbox"/> TCT <input type="checkbox"/> Lease Agreement <input type="checkbox"/> Others: <u>RROW, PAMB clearance (explain in the report), Certification precondition (CP), MOA between NCIP and the ICC IP community</u>	✓		Acceptable
Accountability Statements of Preparers & Proponent (see Annexes 2-21 & 2-22 of Revised Procedural Manual for DAO 2003-30)	✓		Acceptable
Duly Accomplished Project Environmental Monitoring & Audit Prioritization Scheme (PEMAPS) Questionnaire (see Annex 2-7d of Revised Procedural Manual for DAO 2003-30)		✓	Item 1.2.1 was updated accordingly to provide numerical quantity of the projected waste generation.
For EPRMP, Copy of previous ECC			N/A
For EPRMP, Proof of compliance in the submission of monitoring reports			N/A

¹ Please refer to attached checklist of EIS/EPRMP Contents

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ACTION TAKEN: (Please check to indicate corresponding action taken)

- ☐ Document accepted; please submit ____ copies
☐ Document not accepted

NOTED BY:

Screening Officer
Division

Section/Division Chief

EMB Office
Screening Office

Date: _____

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Table 2. EIS/EPRMP Annotated Outline

Sections / Subsections	Content	Page #	Acceptable?	REMARKS
Executive Summary				
Project Fact Sheet	Summary of Project Description <i>(For EPRMP, Include comparative matrix of the existing project components vis-à-vis the proposed changes)</i>	EIS-i		Matrix was updated to include total length of the project and locations of the project components.
Process Documentation	Documentation of the process undertaken in the conduct of EIA (<i>EIA Team, EIA Study Schedule & Area, description of key EIA Methodologies including sampling and measurement plan, Scoping and Public Participation</i>)	EIS-i to EIS-xxi		Indicated in the TOR that the EIA Study was based on the agreed EIS Screening Form during the technical scoping.
EIA Summary	<ul style="list-style-type: none"> Summary of alternatives considered in terms of siting, technology selection/operation processes and design Concise integrated summary of the main impacts and residual effects after applying mitigation Risks and uncertainties relating to the findings and implications for decision making 	EIS-xxi to EIS-xxxvi		<p>The said screening form is attached as ANNEX G.</p> <p>Indicated the specific dates of the EIA Studies accordingly.</p> <p>The sampling and measurement plan was included in the EIA Methodologies</p> <p>Provided a summary matrix of the invited stakeholders and actual attendees of the conducted public participation activities.</p> <p>Include in the Annexes the complete IEC and Public Scoping (PS) Documentation as part of ANNEX F.</p> <p>Provided a summary matrix showing the issues and concerns raised by different</p>

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				<p>stakeholder groups during the IEC and PS activities accordingly.</p> <p>Provided a summary of alternatives considered in the study.</p> <p>Provided column for options for target performance/efficiency.</p> <p>Provided discussion on risk and uncertainties.</p>
1. Project Description Include as an introduction, basic information about the project and project proponent Provided a brief project background including a discussion of DPWH's authority over the project area.				
1.1 Project Location and Area <i>For EPRMP, discussions should be in the context of the proposed modification/changes</i>	a) Map showing sitio, barangay, municipality, province, region boundaries, vicinity, proposed buffers surrounding the area and Primary & secondary impact areas	1-12		
	b) Geographic coordinates (shape file data) of project area (use WGS 84 datum - GPS setting)	1-4 to 1-11		
	c. Describe the vicinity and the accessibility of the project site/area	1-17 to 1-20		
1.2. Project Rationale <i>For EPRMP, discussions should be in the context of the proposed modification/changes</i>	<ul style="list-style-type: none"> Cite and focus on the need for the project based on national and regional/local economic development in terms of contribution to sustainable development agenda or current development thrusts. Describe the justification for the Project with particular reference made to the economic and social benefits, including employment and associate economic development, which the project may provide. The status of the project should be discussed in a regional and national context. 	1-21		
1.3. Project Alternatives <i>For EPRMP, discussions should be in the context of the proposed modification/changes</i>	<p>a) Cite criteria used in determining options for facility siting, development design, process/technology selection, resource utilization and discuss how the decisions on the preferred options were made.</p> <p><u>Siting</u>: Alternative project locations including factors significant to the selection such as severity of impacts, perception of affected communities with regards to project, ancestral domain issues, land classification, etc. Discuss other options on the siting of major components of the project within the project area.</p> <p><u>Technology Selection/Operation Processes and design Selection for storage</u>: Alternative technologies, operation processes, and measures to minimize wastes, prevent adverse impacts such as air and water pollution, groundwater, and land contamination, and for the</p>	<p>1-28</p> <p>1-28 to 1-31</p> <p>1-32</p>		

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	<p>prevention/control of emergency events (eg. fire, explosion, leaks, spills) including factors significant to the selection.</p> <p>Discuss the details of the New Austrian Tunneling method as well as the drainage of the water in the tunnels -Mr. Vargas</p> <p><u>Resources:</u> Alternative sources of power, water, raw materials and other resources needed including factors significant to the selection such as supply sustainability and climate change projections</p> <p><i>Likewise contextualize the determination of preliminary options in terms of project site factors significant to the selection such as supply sustainability and susceptibility to:</i></p> <ul style="list-style-type: none"> • Liquefaction, Ground Shaking, Ground Rupture, Earthquake induced Landslides Volcanic eruptions, tsunami (PHIVOLCS) • Rain-induced landslide and flooding (MGB) • Storm surge, and flooding as well as extreme climatologic conditions (PAGASA) 	<p>1-34 to 1-35</p> <p>1-35</p>		
	b) Summarize and discuss comparison of environmental impacts of each alternative for facility siting, development design, process/technology selection, resource utilization	1-28 to 1-30		
	d) Discuss the consequences of not proceeding with the project or no project option	1-35 to 1-36		
1.4 Project Components	a) General layout of facilities;	1-42		
<i>For EPRMP, discussions should be in the context of the proposed modification/changes; boundaries of current project area should be delineated from the proposed expansion area, if any</i>	b) Maps showing in particular, the location and boundaries of project area, location and footprint of main facilities, storage and support facilities, and proposed buffers.	1-42 to 1-43		
	c) Identification and general description of major components such as materials, capacity, number, safety features , etc.	1-44 to 1-65		
	<p>d) Identification and description of support facilities and infrastructure requirements such as energy/power generating facility (if any) or energy source, water supply/storage, storm water drainage, sewerage, telecommunications, safety devices/emergency facilities, accommodation and similar facilities</p> <p>Include wastewater and solid waste management system during construction phase – Dr. Maestrecampo</p>	1-61 to 1-65		
	<p>e) Identification and description of pollution control devices and waste management system for the waste materials: wastewater, air emissions, domestic wastes, toxic and hazardous wastes, non toxic and non hazardous wastes, etc.</p> <p>Identify combustion and non-combustion equipment, other relative activities generating dust and gaseous emissions during construction phase – Dr. Maestrecampo</p>	1-61		
1.5. Process/ Technology	a) Description of the Processing/Manufacturing technology <ul style="list-style-type: none"> o process flow sheet showing material, and water (and energy, if applicable) balance including inputs and similar data on products, recycling and waste streams o materials/product handling and transport including storage protocols 	1-44 to 1-65		
<i>For EPRMP, include discussion/comparison of existing and</i>				

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Sections / Subsections	Content	Page #	Acceptable?	REMARKS
<i>proposed modifications or expansion</i>	c) Description of the pollution control devices and waste management system	1-61 to 1-65		
	d) Description of the operations and maintenance of facility	1-64 to 1-65		
I.6. Project Size <i>For EPRMP, include discussion/comparison of existing and proposed modifications or expansion</i>	a) Total capacity / stock population/dimension (whichever is applicable based on screening parameter in the Guidelines for Coverage Screening per MC 2014-005)	1-65		Width of the alignment and critical slope was provided accordingly.
	b) Total Project Area in sq.m. or hectares	1-65		
I.7. Development Plan, Description of Project Phases and Corresponding Timeframes <i>For EPRMP, discussions should be in the context of the proposed modification/changes</i>	<p>Phases to be described in terms identifying specific activities (w/ special attention on those with significant environmental impacts as well as climate change adaptation options relevant to the project and project activities) and corresponding projected implementation timeframes:</p> <ul style="list-style-type: none"> • Pre-construction (e.g. planning, acquisition of rights to use land, etc.) • Construction (e.g. land/site clearing, temporary housing, transport of materials, health and other services for the workforce, discussion of temporary facilities including the progress of works/milestones and the number workers required per milestones) • Operation (projected period of start-up/commissioning/full operation of various project components) include discussion on the operation of various components (as identified above) in terms of raw materials, fuel requirements, waste management and infrastructure requirements • Decommissioning/Abandonment/Rehabilitation <ul style="list-style-type: none"> - projected life of the project and alternatives for the future use of the project area which should be consistent with long term zoning and land use development plan of the municipality; - Abandonment Plan (general) to include management plan for the projected cumulative/long term project impacts such as remediation of contaminated soil and water resources, land restoration, proper dismantling/abandonment of facilities/ equipment and other necessary activities 	1-66 to 1-68		Provided information and identification of specific project activities that will have significant environmental impacts under different project phases.
I.8. Manpower	<p>Tabulate the following per project phase (pre-construction, construction, operation, and maintenance):</p> <ul style="list-style-type: none"> • manpower requirements; • expertise/skills needed; • nature & estimated number of jobs available for men, women, and indigenous peoples (if in IP ancestral land); • scheme for sourcing locally from host and neighboring LGUs 	1-69 to 1-70		
I.9. Project Cost	Indicative Project Investment Cost (Philippine Peso)	1-70 to 1-71		
2. Assessment of Environmental Impacts See Table 3 for the list of key environmental impacts which shall be subjected to assessment. The assessment shall be done using the prescribed approach/method and in relation to the corresponding baseline characterization in the primary and secondary impact areas (as determined using the Guidelines in Annex 2-2 of the Revised Procedural Manual (RPM) for DAO 2003-30 or succeeding issuances). The sampling and measurement plan used shall be discussed. Likewise, the assessment should be done for the various phases of development		2-1 to 2-193		Plotted the project alignment (showing the road, bridges, and tunnels) in the land use maps.

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	<p>(i.e. pre-construction, construction and operation) and should consider climate change projections and disaster risks based on existing natural hazard information. <u>For all maps</u>, include overlays of project area footprint, show sensitive/critical receptors and sampling points for baseline data (indicate geographical coordinates). In conclusion, the residual and cumulative impacts shall be assessed.</p> <p>For EPRMP, the result of the proponent's monitoring shall be used as baseline. The assessment of environmental impacts of proposed modification shall be discussed in relation to the actual impacts of existing project operations which shall be presented from a summary of the results of compliance monitoring (in matrix and graphical form) as described in 6.1.</p>			Indicated the source and date of all the maps used in the EIA study, if applicable.																				
3. Environmental Management Plan	<p>Appropriate mitigation/management measures should be specified for each of the identified key impacts (Table 3). Appropriate climate change adaptation and disaster risk reduction measures/options shall likewise be thoroughly discussed. The impact management plan should be summarized using at the minimum, the format in Annex 2-17 of RPM for DAO 2003-30</p> <p>For EPRMP, the proposed impact management plan to be discussed shall consider review of performance of existing project based on the Environmental Quality Performance Levels (EQPLs) set. Also include change in adaptation measures / options and remediation of contaminated soil and water resources, land restoration proper dismantling, if any.</p> <table border="1" style="margin: 10px auto; width: 60%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="padding: 5px;">Project Activity</th> <th style="padding: 5px;">Potential Impact</th> <th style="padding: 5px;">Proposed Mitigating Measures</th> <th style="padding: 5px;">Performance/Target Efficiency</th> </tr> </thead> <tbody> <tr style="background-color: #e0e0e0;"> <td colspan="4" style="padding: 5px;">Construction Phase</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> <tr style="background-color: #e0e0e0;"> <td colspan="4" style="padding: 5px;">Operation Phase</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>During construction phase:</p> <ul style="list-style-type: none"> Include all aspects of air pollution sources particularly dust control or mitigation. Consider road watering plan and water sprinkling on wheels of transport vehicles to avoid spreading of dust particles on the community roads. Provide mitigating measures on the inducement of flooding and the change in drainage morphology. Provide mitigating measures of the impact of sedimentation in surface water (if applicable) especially during inclement weather or typhoon. Include landslide prevention and other risk reduction strategies <p style="margin-left: 20px;">– Dr. Maestrecampo</p>	Project Activity	Potential Impact	Proposed Mitigating Measures	Performance/Target Efficiency	Construction Phase								Operation Phase								3-1 to 3-19		<p>Under construction phase in Table 3-1, the EMP for the construction of road, bridges, and tunnels were identified separately.</p> <p>Under Table 3-1, Provide the indicative cost for the EMP implementation.</p>
Project Activity	Potential Impact	Proposed Mitigating Measures	Performance/Target Efficiency																					
Construction Phase																								
Operation Phase																								
4. Environmental Risk Assessment (ERA) & Emergency Response Policy and Guidelines	<p>The level of coverage and type of document required shall first be determined based on Annex 2-7e of RPM for DAO 2003-30.</p> <p>For EPRMP, discuss status of implementation of the safety policies/guidelines and any proposed changes. Include last three (3) years of safety statistics. Also include incidence such as spills, near spills and similar incidents such as accidents and emergency. Discuss actions taken.</p> <p>See Table 4 for details</p>	4-1 to 4-12		The blasting activity as discussed in the Project Description was already considered in the ERA.																				
5. Social Development Plan/Framework (SDP) and IEC Framework	<p>For EPRMP, discussion should focus on the status of implementation of SDP and IEC commitments. Discuss adjustments that should be undertaken.</p>																							

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Sections / Subsections	Content	Page #	Acceptable?	REMARKS
5.1 Social Development Program (SDP)	Community development or livelihood programs/activities, projected beneficiaries, partner institutions, timeframe of implementation as well as source and amount allotted per activity/component (See Annex 2-18 of RPM for DAO 2003-30)	5-1 to 5-2		Acceptable
5.2. Information and Education Campaign (IEC)	Target sector, key messages, scheme/strategy/methods, Information medium, timelines and frequency, cost (See Annex 2-19 of RPM for DAO 2003-30)	5-3 to 5-21		Acceptable
6. Environmental Compliance Monitoring				
6.1 Environmental Performance (for EPRMP only)	<ul style="list-style-type: none"> Results of compliance monitoring in matrix and graphical form showing and explaining the trend in environmental conditions Analyze performance based on the Environmental Quality Performance Levels (EQPLs) set Discuss compliance to ECC conditions and performance against the originally approved Environmental Management and Monitoring Plan, MMT requirements/commitments, third party audits (if any) Discuss implementation of appropriate and effective environmental impact remedial actions in case of exceedances Discuss operationalization of complaints management system 			N/A
6.2. Self-Monitoring Plan	<p>The monitoring plan shall be summarized using Annex 2-20 of RPM for DAO 2003-30 or succeeding issuances as template.</p> <p>For EPRMP, the original and proposed additional/changes in sampling sites/stations shall be discussed and shown in map/s. Proposed reduction in or additional parameters especially for air and water shall likewise be identified. The proposed changes in parameters and/or sampling stations which shall be based on the results of the impact assessment reported in Chapter 2 shall be discussed in this section.</p>	6-1 to 6-8		<p>The EMoP was based on the revised of the EMP.</p> <p>The coordinates of the location of the sampling stations were provided in the EMoP matrix.</p> <p>Provided map for easier reference (Figure 6-1).</p>
6.3. Multi-Sectoral Monitoring Framework	Discussion on the necessity of creating a Multi-Partite Monitoring Team (MMT). If deemed necessary, describe the proposed scope of MMT responsibilities and activities and tabulate the list of proposed stakeholder-members of the MMT, basis of selection and proposed role. (See Annex 3-4 of the RPM for DAO 2003-30, DAO 2017-15 and DAO 2018-18).	6-9 to 6-10		Updated to provide discussion on DAO 2018-18 accordingly.
6.4 Environmental Guarantee and Monitoring Fund Commitments	<ul style="list-style-type: none"> Discussion on the necessity of putting up an EGF. If deemed necessary, present a proposed amount of EGF indicating the basis for the estimate (per guidelines in annex 3-6 of RPM for DAO 2003-30) If MMT is deemed necessary, present a proposed amount of EMF (based on a draft AWFP in following the format in Annex 3-4 and consistent with guidelines in Annex 3-5 of RPM for DAO 2003-30); 	6-10 to 6-11		Amount for EMF was provided accordingly.
7. Decommissioning / Abandonment / Rehabilitation Policy		7-1		Acceptable
Statement on Proponent's policies to implement the abandonment plan described in Item 1.7 and to formulate and submit procedures for Rehabilitation/ Decommissioning/Abandonment within a timeframe specified in the ECC.				

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Sections / Subsections	Content	Page #	Acceptable?	REMARKS
	For EPRMP, present approved plan/program, if any, and proposed changes.			
8. Institutional Plan for EMP Implementation	<p>Present the organizational scheme of the proponent including line of command and reporting procedures as well as manpower complement and relationships with other operating departments.</p> <p>For EPRMP, discuss status of implementation and any proposed changes in the plan to cover modification/expansion if any.</p>	8-1 to 8-2		Acceptable

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Table 3. Key Environmental Impacts to be included in the Assessment and Formulation of Management and Monitoring Plan to be reflected in the EIS/EPRMP

During scoping: Unless otherwise specified as agreed during scoping, all items listed are required. Write specific instructions (if any) on the blanks/spaces provided			✓ For completeness during procedural screening; page numbers should be provided upon submission of the EIS/EPRMP							
List of Key Impacts	Baseline Data Parameter Requirements	Required Assessment Methodology/Approach	Baseline Conditions	Impact Analysis	Mgmt. Plan	Monitoring Plan	Remarks			
			Page	✓	Page	✓	Page	✓		
I. Land			2-1							
1.1. Land Use and Classification			2-1							
1.1.1 Impact in terms of compatibility with existing land use	Description & Map showing the project area in relation to Legal/official classification of Land (whether Forestland, Alienable and Disposable Land or Private Land) and existing land use. -For. Javier	Assessment of the compatibility of the proposed project vis-a-vis actual land use and the approved comprehensive land use plan/zoning classification, ECA Classification and/or the coastal resource management plan of the LGU if any.	2-1 to 2-7		2-3			Plotted the project alignment in the land use maps. Map were updated accordingly.		
1.1.2 Impact on compatibility with classification as an Environmentally Critical Area (ECA)	Identify ECA where the project is located or near the project area. Identify areas vulnerable/susceptible to natural hazards where the project is located or near the project area (include map/s).		2-8 to 2-9		2-8 to 2-9			Completed the remarks in Table 2-7 based on EMB MC 2014-15.		
1.1.3 Impact in existing land tenure issue/s	Determine if the project area is under CARP or with CADC / CADT / CALC/ CALT, with IFMA/CBFMA, within COC, within MPSA or other tenurial instruments and identify corresponding existing tenure issues including presence of informal settlers.	Identify and assess impact in terms of land tenure issues in relation to project implementation	2-10 to 2-14		2-14			Acceptable		
1.1.4 Impairment of visual aesthetics	Visually significant landforms/ landscape/structures	Identify and assess impact of the project on these visually significant landforms/landscape/structures	2-18		2-18			Acceptable		
1.1.5 Devaluation of land value as a result of improper solid waste management and other related impacts	Existing solid waste management and related land management scheme in the area	Identify and assess impacts of the estimated generation of solid wastes in terms of: - amount and			2-18			Acceptable		

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List of Key Impacts	Baseline Data Parameter Requirements	Required Assessment Methodology/Approach	Baseline Conditions		Impact Analysis		Mgmt. Plan		Monitoring Plan		Remarks
			Page	✓	Page	✓	Page	✓	Page	✓	
		- characteristics (hazardous or domestic) and other related issues on the existing management scheme									
1.2 Geology/Geomorphology			2-20								
1.2.1 Change in surface landform/geomorphology/ topography/ terrain/slope	Slope and Elevation/Topographic Map;	Identify and assess project impact in terms of the changes in surface landform/topography/terrain/slope including existing hazard as maybe aggravated by climate change as projected by PAGASA	2-20 to 2-38		2-38						Acceptable
1.2.2 Change in sub-surface geology/underground conditions	Regional/General Geological Map Natural Hazard Map (sub surface)	Identify and assess project impact in terms of the changes in sub-surface geology and inducement of subsidence, liquefaction, landslides, mud/debris flow to the environment including the possibility of aggravating existing natural hazards	2-21 to 2-38		2-38						Acceptable
1.2.3 Inducement of subsidence, liquefaction, landslides, mud / debris flow, etc.	Geological Map as needed.; hazard maps (NAMRIA, NDRRMC, MGB, PHIVOLCS, PAGASA) Map of the tunnel areas. Structural geographic map of tunnel areas-Mr. Vargas	Discuss and assess the impacts of geologic hazards and planned earthworks on the project facilities (e.g., landslides, mudflows, subsidence, ground shaking from earthquake, liquefaction, flooding, etc.). Note in the discussion how climate change can aggravate the hazards and impacts. The geologic hazards map must consider the hazards/exposure/vulnerability/ risk maps of Section 1.1.2.	2-27 to 2-30		2-38						Acceptable
1.3 Pedology			2-40								

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			Page	✓	Page	✓	Page	✓	Page	✓	
1.3.1 Soil erosion / Loss of topsoil/overburden	<ul style="list-style-type: none"> Summary of Soil Investigation Report on soil type and quality Soil map showing soil types, sampling stations, topography, streams, built-up areas, and planned project features Water and wind erodibility potential Sediment sources, and Riverbank stability 	<p>Describe capability of the land to accommodate the proposed development with minimal or without soil erosion/loss of topsoil/overburden</p> <p>Describe the physical properties and erodibility potential of the soil, ongoing erosion processes and assess the erosional impacts of the project. The Universal Soil Loss Equation (USLE) and its variants may be used in the modeling.</p>	2-40 to 2-46		2-47						Map was updated accordingly.
1.3.2 Change in soil quality/fertility	Laboratory results on soil sample analysis for N, P, K, pH, organic matter, micronutrients and trace metals e. g. Pb, Hg, As, Cd, Cr hexavalent, etc.	Assess the impact of the project activities including the possibility of spills on soil quality and fertility	2-46		2-47						Acceptable
1.4 Terrestrial Ecology			2-48								
1.4.1 Vegetation removal and loss of habitat	<ul style="list-style-type: none"> Indicate if within (show road alignment) or proximate to declared Protected Area -For. Javier Map showing land/forest cover; sampling sites; location of observed important, endangered, and keystone species; ecologically sensitive sites; planned land development works Flora and fauna species inventory or survey report to cover species listing, abundance, richness, dominance, diversity, evenness, ecological status, and uses; Historical occurrences of pest infestation, forest/grass fire and/or similar incidences 	<p>To establish baseline,</p> <ul style="list-style-type: none"> - Use quadrat sampling for flora to cover all land cover types - Use transect walk , mist nets, traps, for fauna - show survey locations in a map <p>Identify and assess specific impacts of the project activities guided by the following:</p> <p>1. Habitat loss or degradation – Land clearing, river damming, etc. will result in the loss of habitat. Some activities may lead to the alteration of habitat composition, structure or function. Some habitats, e.g.,</p>	2-73 to 2-74		2-73 to 2-74						Acceptable

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			Page	✓	Page	✓	Page	✓	Page	✓	
1.4.2 Threat to existence and/or loss of important local species	Summary of endemism / conservation status	wetlands, are critical to ecological processes or endangered species.			2-75						Acceptable
1.4.3 Threat to abundance, frequency, and distribution of important species	<ul style="list-style-type: none"> Summary of abundance, frequency and distribution Economic importance and uses of significant flora and fauna 	2. Habitat fragmentation – This is the break-up of the natural landscape into small patches isolated from one another. It affects the number of species present, movement of species, and transfer of materials among habitats.			2-75						Acceptable
1.4.4 Hindrance to wildlife access	Survey map in relation to the project site	3. Loss of species – Of special interest are the keystone, endangered, and endemic species. 4. Pollution effects on species – The stressors include dust, noise, chemical/ petrochemical spills, eroded sediment, increased temperature, etc. Relate discussions to estimated GHG emissions and possible carbon sequestration program/s			2-75						
2. THE WATER											
2.1 Hydrology/Hydrogeology			2-86								
2.1.1 Change in drainage morphology / inducement of flooding/ Reduction in stream volumetric flow	Drainage map (also showing local drainage system/infrastructures); Historical flooding/drought occurrences, stream flow measurements/estimates; Delineation of watershed /sub-watersheds/ floodplain; and identification of aquifers if any Include a map of the affected river system overlaying the project components – Dr. Maestrecampo	Identify and assess project impact on the change in drainage morphology/local drainage system and resulting effects of flooding pattern in the project area and surrounding. Include climate projections effects on flooding. Relate discussions to item 3.1.1	2-86 to 2-90		2-91						Maps were updated accordingly.

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			Page	✓	Page	✓	Page	✓	Page	✓	
2.1.2 Change in stream, lake water depth	Regional hydrogeological map	Identify and assess project impact in terms of change in stream, lake water depth			2-91						
2.1.3 Depletion of water resources / competition in water use	<p>Current / projected water use (groundwater/surface water) in the area and adjacent areas</p> <p>Inventory of water supply source including springs and wells(indicate depth of water table) and show location in a map of appropriate scale</p> <p>Identify if there any irrigation facilities that would be impacted by the tunnels- Mr. Vargas</p>	<p>Identify and assess project impact on the existing water resources and the resulting competition in the water use using analysis/estimation of water availability. Include discussions taking into consideration the PAGASA medium to long term projections</p> <p>Quantify the amount of water that will be extracted during construction.</p> <p>Identify the potential impacts of water extraction to the affected community.</p> <p>Conduct water balance to show that water extraction from sources will not exceed the source's threshold.</p> <p>Include strategies on water conservation to address the possible impact of water resource depletion or water resource competition</p> <p>- Dr. Maestrecampo</p>			2-91 to 2-92						<p>Section was updated to answer if there are irrigation facilities.</p> <p>Section was also updated to show the quantity of water that the project will use.</p>
2.2 Oceanography (applicable to projects with jetty/port and/or subsea structures that will change the bathymetry in the area) -N/A											
2.2.1 Change/disruption in water circulation pattern, littoral current, and coastal erosion and deposition	<ul style="list-style-type: none"> Bathymetric survey and map Measurement of water currents Analysis of available proximate tides data Hydrodynamic modeling Particle dispersion modeling and map Storm surge hazard, exposure, vulnerability, risk maps 	<p>Identify and assess project impact on the degree of change/disruption of circulation pattern and the potential for coastal erosion</p> <p>Build a hydrodynamic model based on the measured bathymetry and currents and tidal analysis and then validate the model. A public domain</p>									Not applicable.

Project Name: _____

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			Page	✓	Page	✓	Page	✓	Page	✓	
		software like the United States Environmental Protection Agency Environmental Fluid Dynamics Code (EFDC) may be used. Through the validated hydrodynamic model, assess the impacts of the project on water circulation, littoral current, and coastal erosion and deposition. Use the modeling results of Sec. 1.3.1 and 2.1.1. Discuss how the impacts may be affected by climate change especially sea level rise.									
2.2.2 Change in bathymetry	Bathymetric map;	USLE / similar modeling when applicable Use the hydrodynamic model to assess the impacts of the bathymetric changes. Discuss how the impacts may be affected by climate change. Compare projected new bathymetry as a result of the project with the existing									Not applicable.
2.3 Water Quality (wet and dry season sampling)											
2.3.1 degradation of groundwater quality	Physico-Chemical characterization of water: Use primary parameters stipulated in DAO 2016-08	Identify and assess project impact in terms of degradation of groundwater, coastal surface water and coastal/marine water quality. Use DENR standard methods and procedures for sampling and analysis.	2-92 to 2-96		2-96						Map was updated accordingly.

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			Page	✓	Page	✓	Page	✓	Page	✓	
2.3.2 degradation of surface water quality	<input checked="" type="checkbox"/> pH <input checked="" type="checkbox"/> BOD5 <input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> Color <input checked="" type="checkbox"/> Nitrate	Assess impact on siltation of surface and coastal/marine waters. Circulation / plume modeling for regular discharges, leaks/spills, worst case scenario of failure of WTF and other emergency/ accident scenarios for facilities with structures in water bodies	2-92 to 2-102		2-102						
2.3.3 degradation of coastal/marine water quality	<input checked="" type="checkbox"/> Phosphate <input checked="" type="checkbox"/> Temperature <input checked="" type="checkbox"/> DO <input checked="" type="checkbox"/> Oil and grease <input checked="" type="checkbox"/> TSS <input checked="" type="checkbox"/> Heavy Metals : _____ <input checked="" type="checkbox"/> fecal / total coliform <input checked="" type="checkbox"/> others: _____ <input checked="" type="checkbox"/> sampling site map	Link discussion of spills with Section 1.3 especially if spills affect soil and groundwater. Aquifer (Groundwater) vulnerability Assessment (i.e. discussions on groundwater contamination due to project operation). Show in a map, sampling sites for monitoring purposes based on the above assessment.									
2.4 Freshwater Ecology											
2.4.1 Threat to existence and/or loss species of important local and habitat	<ul style="list-style-type: none"> • Summary of endemicity / conservation status • Abundance of ecologically and economically important species (fishes, benthos, planktons); • Presence of pollution indicator species; • sampling site map 	Identify and assess project impact in terms of threats to existence/and or loss of species, abundance frequency and distribution species and include discussions on overall impact to freshwater ecology. Relate discussions to air and water	2-102 to 2-131		2-131						Refer to pages 2-121 and 2-122. There were no fishes caught during the conduct of the aquatic ecology assessment.
2.4.2 Threat to abundance, frequency, and distribution of species		Show in a map, sampling sites for monitoring purposes based on the most significant threats identified.	2-102 to 2-131		2-131						Refer to pages 2-121 and 2-122. There were no fishes caught during the

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List of Key Impacts	Baseline Data Parameter Requirements	Required Assessment Methodology/Approach	Baseline Conditions		Impact Analysis		Mgmt. Plan		Monitoring Plan		Remarks
			Page	✓	Page	✓	Page	✓	Page	✓	
											conduct of the aquatic ecology assessment.
2.5 Marine Ecology (applicable if project involves activities, discharges and structure in marine waters)-justification why this is not included											
2.5.1 Threat to existence and/or loss of important local species and habitat	<ul style="list-style-type: none"> Abundance/densities/distribution of ecologically and economically important species (mangroves, fishes, benthos, planktons, coral reefs, algae, seaweeds, sea grasses); Presence of pollution indicator species; Historical occurrences of red-tide, fish kill or any related event marine resource map sampling site map 	<p>Quadrat, transect, line intercept, spot dive, manta tow, marine resource characterization (e.g. municipal and commercial fisheries data) for baseline gathering.</p>			2-131						Not applicable. Alignment is far from Marine Waters.
2.5.2 Threat to abundance, frequency and distribution		<p>Identify and assess project impact in terms of threats to existence, loss of important local species, threat to abundance, frequency and distribution and include discussions on overall impact to marine ecology. Relate discussions to air, water and oceanography</p> <p>Show in a map, sampling sites for monitoring purposes based on the most significant threats identified.</p>			2-132						Not applicable. Alignment is far from Marine Waters.
3.0 THE AIR											
3.1 Meteorology/Climatology											
3.1.1 Change in the local micro-climate e.g. local temperature	Monthly average rainfall and temperature of the area; Climatological normals/extremes; Wind rose diagrams; Frequency of Tropical cyclones	Identify and assess project impact in terms of change in the local micro-climate change. Also discuss effects of climate change using PAGASA medium to long term projections	2-133		2-134						Acceptable

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			Page	✓	Page	✓	Page	✓	Page	✓	
3.1.2 Contribution in terms of greenhouse gas emissions (or GHG mitigation potential) Note: applicable only for projects with significant GHG emissions	Data on Greenhouse gasses (i.e. carbon dioxide, nitrous oxide);	Estimate projected greenhouse gases (GHG) (i.e. carbon dioxide, nitrous oxide) using IPCC guidelines; include mitigation and/or sequestration for both construction and operation phases.	2-138								Acceptable
3.2 Air Quality (& Noise) (wet and dry season sampling)											
3.2.1 Degradation of air quality	Characterization of ambient air quality: Conduct 24-hrs Ambient Air Quality Monitoring based Standard Criteria Parameters: TSP, PM10, SO2, NO2 as per NAAQGV and NAAQSSAP under DAO 2000-81 – Dr. Maestrecampo <input checked="" type="checkbox"/> TSP <input checked="" type="checkbox"/> PM10 <input checked="" type="checkbox"/> SOx <input checked="" type="checkbox"/> NOx <input checked="" type="checkbox"/> Trace Metals : _____ <input checked="" type="checkbox"/> others: _____ (for sampling methods refer to Clean Air Act) <input checked="" type="checkbox"/> sampling site map	Use DENR standard methods and procedures for sampling and analysis. Relate selection of sampling locations using data collected in 3.1.1 Identification and assessment of impact of the project to the identified parameters including VOCs and odor through air dispersion modeling (as may be applicable) Show in a map, sampling sites for monitoring purposes based on the above assessment. Compare changes in air quality over time using statistical tools e.g. across sampling sites over time, and test for significant changes	2-138 to 2-147		2-140 to 2-147						Map was updated accordingly.

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			Page	✓	Page	✓	Page	✓	Page	✓	
3.2.2 Increase in ambient noise level	Characterization of ambient noise level sampling site map	Use DENR standard methods and procedures for sampling and measurement. Identification and assessment of impact to ambient noise level using noise attenuation modeling and comparing it with relevant standards. (applicable if estimated total noise level will exceed noise standard).	2-140								
4.0 THE PEOPLE											
4.1 Displacement of settler/s Displacement / disturbance of properties Change/conflict in land ownership Change/conflict Right of way Impact on Public Access	Demographic data of impact area: (at least 2020)-Dr. Cabalza - Number of households and household size - Land area, - Population, - Population density /growth - gender and age profile, - literacy rate, profile of educational attainment - settlements map	Identify and assess project impacts on demography of affected communities. Use assessment in the formulation of SDP/IEC Assess availability of alternative public access and housing options for displaced settlers For project with displacement/ disturbance of properties/settlers, change/conflict in land ownership and change/conflict right of way, formulate resettlement framework plan or RAP	2-149 to 2-153		2-153 to 2-162						Acceptable
4.2 In-migration proliferation of informal settlers	Census of population / property that will be displaced / disturbed Housing ownership profile / availability of housing/ number of informal settlers	Identify and assess project impact due to in-migration patterns including proliferation of informal settlers	2-163		2-154 to 2-156						Acceptable
4.3 Cultural/Lifestyle change (especially on Indigenous People, if any)	Demographic data on Indigenous People (if any) and existing Culture/Lifestyle that may be significantly affected	Identify and assess project impact in terms of Culture/Lifestyle that may be affected and/or introduced	2-166		2-166						Acceptable

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			Page	✓	Page	✓	Page	✓	Page	✓	
4.4 Impacts on physical cultural resources	<p>Inventory and description of physical cultural resources and landscapes that have archaeological, paleontological, historical, religious, aesthetic, or cultural significance: Movable or immovable objects, below ground or under water, sites, structures, groups of structures, and natural features</p> <p>Classify cultural interest value/ importance into local, provincial, national, or international level</p> <p><i>Sources of information: UNESCO, National Museum (NM), National Historical Commission of the Philippines (NHCP), National Commission for Culture and Arts (NCAA) and the Local Government Units (LGUs) in the project area and other UN or National Publications</i></p>	<p>Identify all potential project impacts in an integrated manner considering the type, significance, and value/importance of the physical cultural resource/s</p> <p>Identify risks in terms of capacity and commitment in managing the impacts</p> <p><i>(protocols in handling chance finds shall be implemented)</i></p>	2-166		2-167						Acceptable
4.5 Threat to delivery of basic services /resource competition	<p>Availability of public services in terms of:</p> <ul style="list-style-type: none"> Water supply Power supply Communications /transportation peace and order / crime education facilities recreational facilities / sports facilities <p>statistical data / information related to public services:</p> <ul style="list-style-type: none"> literacy rate, profile of educational attainment Crime rate Food security 	Identify and assess project impact in terms of threats to delivery of basic services including potential for resource competition in the area including effects of in-migration	2-167 to 2-176		2-167 to 2-177						Acceptable

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			Page	✓	Page	✓	Page	✓	Page	✓	
4.6 Threat to public health and safety	<p>Availability of public services in terms of: health resources (Government and Private)</p> <p>Statistical data / information related to public services:</p> <ul style="list-style-type: none"> • Morbidity and mortality rates (infants and adults - 5-year trend) • Common diseases in the area including endemic diseases; • Health and safety protocols in the workplace <p>Environmental Health and Sanitation Profile</p>	<p>Identify and assess specific threats to public health and safety due to project impacts. Relate discussions to land, air and water (Item 1 to 3)</p> <p>Analysis of the impact of project implementation on existing disease profile including weather sensitive diseases and impact aggravation as a result of climate change as projected by PAGASA</p>	2-174 to 2-177		2-177						Acceptable
<p>4.7 Generation of Local Benefits from the project</p> <p>Enhancement of employment and livelihood opportunities</p> <p>Increased business opportunities and associated economic activities</p> <p>Increased revenue of LGUs</p>	<p>Socioeconomic data:</p> <ul style="list-style-type: none"> • Main sources of Income • Employment rate/ profile • Poverty incidence • sources of livelihood • commercial establishments and activities • banking and financial institutions 	Identify and assess local benefits of the project in terms of enhancement of employment and livelihood opportunities, increased business opportunities and associated economic activities and increased revenue of LGU	2-177 to 2-178		2-178 to 2-179						Acceptable
4.8 Traffic congestion	<p>Road network/ systems</p> <p>Existing Transportation/traffic situation</p>	Identify and assess project impact on the traffic situation in the area including congestion based on existing capacity of road system	2-183		2-184						Acceptable

☐ 1st ☐ 2nd ☐ 3rd _____th Screening

GENERIC EIS/EPRMP SCOPING AND SCREENING FORM

Table 4. Environmental Risk Assessment to be included in EIS/EPRMP

During scoping: Check (✓) required/applicable items; items with ✓ are automatically required; write specific instructions (if any) on the blanks/spaces provided.			✓ For completeness during procedural screening; page numbers should be provided upon submission of the EIS/EPRMP						
Level of Coverage & Type of Risks	CONTENTS OF ERA AS PART OF EIS/EPRMP For the identified safety risks in column 1	Remarks/ Specific Scoping Instruction/s	ERA		ERP		Monitoring Plan		REMARKS
			Page	✓	Page	✓	Page	✓	
Level of Coverage: Refer to Annex 2-7e of the RPM for DAO 2003-30 <input type="checkbox"/> Level 2 (QRA Required) <input type="checkbox"/> Level1 (Emergency Plan based on hazard analysis) <input checked="" type="checkbox"/> Risk Screening Level	For EPRMP, include HAZOP or QRA for existing facilities and compare with that for the expansion. Also include discussions on safety incidents/records/history (in relation to environmental risks) classified into first aid, medical attention cases, days away from work cases, fatalities (including contractors), record of drills (fire, spills, explosion, among others) and any experience in implementing the ERP For EIS, check type of report to be submitted prior to Operation: <input type="checkbox"/> Quantitative Risk Assessment(QRA) <input type="checkbox"/> HAZOP <input type="checkbox"/> Others : _____		4-1						Blasting activity was already considered in the assessment.
Safety Risks Type: <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Explosion <input checked="" type="checkbox"/> Release of toxic substances	<input checked="" type="checkbox"/> Description of conditions, events and circumstances which could be significant in bringing about identified safety risks <input checked="" type="checkbox"/> Description & assessment of the possible accident scenarios posing risk to the environment <input checked="" type="checkbox"/> Description of the hazards, both immediate (acute effects) and delayed (chronic effects) for man and the environment posed by the release of toxic substance, as applicable <input checked="" type="checkbox"/> The safety policy and emergency preparedness guidelines consistent with the regulatory requirements. Emergency Preparedness should also consider natural hazards to the infrastructures and facilities. For EPRMP, present actual Emergency Response Policy, record of drills and recorded events.		4-1 to 4-3						Blasting activity was already considered in the assessment.
<input checked="" type="checkbox"/> Physical Risks (Failure of Structure w/c could endanger life, property and/or the environment)	<input checked="" type="checkbox"/> Description of conditions, events and "trigger" which could be significant in bringing about identified physical risks <input checked="" type="checkbox"/> Description & assessment of the possible accident scenarios posing risk to the environment		4-3 to 4-12						Blasting activity was already considered in the assessment.

☐ 1st ☐ 2nd ☐ 3rd _____th Screening

GENERIC EIS/EPRMP SCOPING AND SCREENING FORM

<i>During scoping: Check (✓) required/applicable items; items with ✓ are automatically required; write specific instructions (if any) on the blanks/spaces provided.</i>					<i>✓ For completeness during procedural screening; page numbers should be provided upon submission of the EIS/EPRMP</i>				
Level of Coverage & Type of Risks	CONTENTS OF ERA AS PART OF EIS/EPRMP For the identified safety risks in column 1	Remarks/ Specific Scoping Instruction/s	ERA		ERP		Monitoring Plan		REMARKS
			Page	✓	Page	✓	Page	✓	
	<input checked="" type="checkbox"/> Description of the hazards both immediate (acute effects) and delayed (chronic effects) for man and the environment posed by the failure of structure, as applicable								

Noted By:	Signature		Signature
Review Committee Members		EMB Representatives	
1. Dr. Dodjie Maestrecampo		1. Engr. Jason Esguerra	
2. Mr. Edmundo Vargas		2. Engr. Dexter Tabada	
3. Dr. Chester Cabalza			
4. For. Javier		Project Proponent:	
Resource Persons:		Mr. Roberto C. Mendoza	
1. EMB Region 2		Project Preparer/Consultant:	
2. EMB Region 3		Mr. Joma Lim	
3. BMB			
4. NCIP			
5. MPDO, Carranglan			
6. PPDO, Nueva Vizcaya			

☐ 1st
☐ 2nd
☐ 3rd
 _____th Screening

ANNEX H

Result of the Environmental and Social Considerations
of the JICA Study

ENVIRONMENTAL IMPACT STATEMENT

DALTON PASS EAST ALIGNMENT ROAD PROJECT

Provinces of Nueva Vizcaya & Nueva Ecija

Table 12.1-58 Draft Scoping and Impact Assessment

Table 12.1-55 Draft Scoping and Impact Assessment							
Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
Pollution Control	1	Air Pollution	✓	✓	B-	B-	During Construction : <ul style="list-style-type: none">• Air quality around the project site is in good condition. Air pollution from emission gas and dust is expected due to the operation of construction machinery and vehicles, however there will be no significant impacts. The impacts will be minimized by implementing appropriate mitigation measures. During Operation : <ul style="list-style-type: none">• Air pollution can occur along roads and at tunnel portals. As a result of examining the impact of air pollution in consideration of the planned traffic volume, it is predicted that the impact will be extremely small.• Air pollution near the existing road (Dalton Pass) will be improved by reducing traffic volume.
	2	Water Quality	✓		A-	N/A	During Construction: <ul style="list-style-type: none">• The water quality of rivers around the project site is good. When turbid water from construction work such as excavation flows into a river, it may pollute the river and have a significant impact. Construction wastewater will be discharged after turbidity treatment and pH adjustment, and regular monitoring will be conducted to check water quality.
	3	Waste	✓		B-	N/A	During Construction : <ul style="list-style-type: none">• Surplus soil generated from tunnel excavation and cutting work will be reused for embankment work, etc., however it is estimated that 1.76 million m³ of surplus soil will be generated. The surplus soil will be accumulated in a dump site set up on the flat land around the project site.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	4	Soil Contamination	✓		B-	N/A	During Construction : <ul style="list-style-type: none">As a result of the survey around the tunnel, no high concentrations of heavy metals were found in the soil. If excavation soil contains high concentrations of heavy metals, contaminated soil may spread. Therefore, monitoring of heavy metals during construction should be continued, and if heavy metals are confirmed, controlled storage facilities should be introduced to prevent the spread of contaminated soil.
	5	Noise and Vibration	✓	✓	A-	B-	During Construction : <ul style="list-style-type: none">Houses near the project site will be affected by noise generated by construction work. The impact will be mitigated by conducting construction work rationally and by reducing the number of construction machines and operating hours. In addition, information of the construction activities should be closely shared with the community.Noise from blasting work is generated in tunnel construction. Neighboring residential areas may be affected. Since the number of blasts per day is limited and the portal are several hundred meters away from houses, there is no significant negative impacts, however the blast noise reaches about 80 dBA. Therefore, mitigation measures are required in the construction plan. During Operation : <ul style="list-style-type: none">As a result of roadside noise prediction, on the whole, the negative impacts are expected to be minor. On the other hand, roadsides with embankment structures tend to be affected by road noise. It is desirable to consider sound insulation in the guardrails and fences that are installed.Dalton Pass roadside noise will be improved by reducing traffic.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	6	Ground subsidence	✓		B-	N/A	During Construction : • Several alternatives were compared and the most advantageous one in terms of construction technology, disaster resilience, and maintenance was selected. Structural studies will also be conducted to secure stability of the structures in future detailed design.
	7	Odor			N/A	N/A	
	8	Sediment			N/A	N/A	
Natural Environment	9	Protected Area	✓	✓	A-	B-	During Construction: • Negative impacts on the functioning of the water source and forest reserve (PCWFR) are anticipated due to the cutting of trees in the ROW and the discharge of waste water into the river during construction. Impacts will be minimized through reforestation and pollution control measures (water quality, waste, soil contamination, etc.). Development of a management plan for PCWFR is underway. The project will proceed with the plan while ensuring consistency with the relevant management plan. Mitigation measures proposed by the PAMB (Protected Area Management Board) will be included in the process of enacting the ECC, which is expected to mitigate the impact on businesses within the protected area. During Operation : See 10. Ecosystem.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	10	Ecosystem					During Construction : <ul style="list-style-type: none">• Tree felling may affect vegetation. Based on the system of the Philippines, a replanting plan will be drafted and executed, taking into consideration the surrounding vegetation. Regarding the number of trees to be planted, 50 trees will be replanted for each artificially planted felled tree, and 100 trees for each naturally growing tree will be replanted. Replanted tree species will be focused on endemic species of the Philippines, including those confirmed locally. Regarding the locations and methods of planting trees, opinions of the local residents will be referred.• Animal habitat is reduced, but only within the ROW. Avoidance behavior may occur due to construction noise, etc., but it is considered to be temporary, and no irreversible impact is expected. On the other hand, animals that depend on rivers (aquatic organisms and some birds) are easily affected by changes in river water quality, so it is necessary to pay attention to wastewater management during construction.• Abnormal flooding during tunnel excavation may lead to lower groundwater levels in the surrounding area, affecting vegetation and farmland. Prevent abnormal flooding as much as possible through monitoring. During Operation : <ul style="list-style-type: none">• Pollution (air pollution) from vehicle travel may impact vegetation along the roadside, but the impact is expected to be small because the concentration of air pollutants generated is expected to be low. Regarding the effects of lights at night, no animal species which are vulnerable for lighting exposure were found. In addition, the negative impacts on crops are expected to be limited, judging from the fact that the installation of lights is limited to a narrow area (tunnel entrance) and the state of cultivation along the road.
	11	Hydrology			N/A	N/A	

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	12	Geographical features	✓		B-	N/A	During Construction : • Since excavated surplus soil is used, no excavation site is required. The remaining surplus excavated soil will be stored in a dumping site (350,000 m ²) set up around the project site. Therefore, there is little possibility of affecting topography and geology. See "Ground subsidence".
	13	Land Acquisition and Involuntary Resettlement	✓		A-	N/A	Before Construction : • The project will require land acquisition of approximately 129ha. There are 659 affected residents included in 163 households affected households. Among this, 218 affected residents included in 54 households will lose their homes. A RAP was formulated in this study. Appropriate compensation and relocation support will be implemented based on this.
Social Environment	14	Poor	✓	✓	B+-	B+-	Before Construction : • Residents (ICCs/IPs) around the project site are generally considered to belong to the poor. In the construction work of the project, 50% of unskilled workers and 30% of skilled workers will be employed locally, which will greatly contribute to the employment environment. For the affected residents within the ROW, the impact will be mitigated through appropriate compensation and livelihood support based on the RAP. As for livelihood restoration, support for agriculture, tourism promotion, and sales of local products, which were requested by the local communities, will be examined. During Construction / Operation : • The locals are expecting more economic activity along the road and the development of tourism. On the other hand, there are concerns about the negative impacts on livelihoods due to the decrease in traffic on existing roads. Support measures such as livelihood support such as vocational training and preferential use of land along the project road are desired.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	15	Ethnic minorities and indigenous peoples	✓	✓	A+-	A+-	Before/During Construction : During Operation : <ul style="list-style-type: none">• Roadside development associated with the implementation of the project is expected to benefit the livelihoods and economic activities of indigenous peoples. On the other hand, <ul style="list-style-type: none">• The project area includes the Ancestral Domain. Implementation of this project may affect the lives, livelihoods and communities of indigenous peoples.• Decrease in traffic volume on the existing road may affect the lives and livelihoods of indigenous peoples along the road. Negative impacts will be mitigated through robust implementation of RAP, compliance with ECC, implementation of MOA matters, and implementation of action plans proposed in IPP
	16	Local economies, such as employment, livelihood, etc	✓	✓	B+-	B+-	Before/ During Construction : During Operation : See « Poor »
	17	Land use and utilization of local resources	✓	✓	B-	B+	During Construction : <ul style="list-style-type: none">• The land within the ROW is unused land or agricultural land, and it will disappear as a result of the implementation of this project. Affected peoples who lose their farmland will be compensated and relocated based on the RAP. As for the felled trees, replacement afforestation will be carried out according to the afforestation plan. These mitigation measures will avoid significant negative impacts. During Operation : <ul style="list-style-type: none">• The roadside is expected to develop and improve economically.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	18	Water usage	✓	✓	B-	D	During Construction : • There are no wells in the vicinity of the project site, and water from streams or springs is used. Due to geological characteristics, if a large amount of spring water is generated due to tunnel excavation, it may cause a decrease in the surrounding groundwater level and affect water use. Continuous monitoring from pre-construction to post-construction for the purpose of examining appropriate mitigation measures for water inflow due to construction in advance. Concrete countermeasures against seepage in tunnel construction will be considered in the detailed design. During Operation : • There is no possibility that the structures of the project will affect groundwater after the completion of construction, after spring water is properly treated during construction.
	19	Existing social infrastructures and services	✓	✓	B-	B+-	During Construction : • There is a possibility that the area will be divided due to access restrictions in the construction work area. Convenience to the community will be ensured by ensuring necessary safety passages and prior opening of completed structures. During Operation : • It is a plan to secure a cross road and avoid division of the area. • Positive impacts are expected due to improved access to social services.
	20	Social structure such as social capital and local decision-making institutions	✓	✓	D	D	During Construction / Operation : • From the view of the ICCs/IPs concerned, there were no particular factors that would affect the social organization of the ICCs/IPs.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	21	Misdistribution of benefits and damages	✓	✓	B-	B+-	Before / During Construction : <ul style="list-style-type: none">Disadvantages will occur to the affected residents within the ROW. Compensation, resettlement and mitigation of impact based on RAP. During Operation : <ul style="list-style-type: none">Economic benefit is expected along the road of the project. On the other hand, existing road may have negative economic impacts due to reduced traffic volume. Support measures such as livelihood support including vocational training and preferential use of land along the road of this project are desired for residents along the existing road.
	22	Local conflicts of interest	✓	✓	B-	B+-	During Construction / Operation : <ul style="list-style-type: none">See " Misdistribution of benefits and damages"
	23	Cultural heritage	✓		B-	N/A	During Construction : <ul style="list-style-type: none">There is cultural heritage at the community level in the vicinity of the project site. In the alignment plan, it was decided to avoid negative impacts on objects of community belief. As for other cultural heritage objects, it was planned to minimize the negative impacts as much as possible.
	24	Landscape	✓	✓	B+-	B+-	During Construction / Operation : <ul style="list-style-type: none">A total of 5.8 km of elevated structures will be installed in this project, which may affect the landscape of the protected area. Since the outline design has not reached a concrete proposal for the appearance, it is necessary to reflect the opinions of the community at the detailed design stage.

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
	25	Gender	✓	✓	B-	B+-	During Construction : <ul style="list-style-type: none">Many cases of gender-based violence have been reported in the Philippines. Since it is highly likely to occur in the workplace, it is also a concern in the construction work of this project. In order to avoid violence in the workplace in advance, consultation meetings will be established to share information on the status of the project construction work on an ongoing basis. Opportunities continuously sharing information on the status of the project, etc. should be established. 50% or more of the attendees should be women at the public consultations of the project. During Operation : <ul style="list-style-type: none">It is anticipated that the implementation of the project will facilitate women's access to social and economic services through safe and rapid mobility. Suggestions for planning considerations were received during the consultation on gender assessment. In the detailed design, these suggestions should be reflected in the project.
	26	Children's rights	✓	✓	B-	B-	During Construction / Operation : <ul style="list-style-type: none">Harassment to children may occur due to socio-economic changes during construction. By continuous stakeholder consultations, issues should be clarified, and responded.The school-commuting road will be divided due to the new road. By installing overbridges and underpasses, the existing road network will be secured.
	27	Infectious diseases such as HIV/AIDS	✓		B-	N/A	During Construction: <ul style="list-style-type: none">A total of about 2,000 engineers and construction workers will be engaged in the construction work of the project. Implement measures against infectious diseases based on DOLE's occupational safety and health standards.
	28	Working conditions	✓		B-	N/A	During Construction : <ul style="list-style-type: none">See «Infectious diseases such as HIV/AIDS», and « Accident ».

Classification	No	Impact Items	Assessment				Reasons of Assessment
			Draft Scoping		After Survey		
			Before/during Construction	On Operation	Before/during Construction	On Operation	
Others	29	Accidents	✓	✓	B-	D	During Construction: : • Although the number of occupational accidents in the Philippines is on the decline, the number of victims due to occupational accidents is increasing. It is necessary to observe occupational safety and health standards and pay attention to safety measures in tunnel construction. During Operation : • Traffic accidents in the Philippines are on the rise. In the project, in addition to considering safety in road design, safety measures such as guardrails and road markings will be implemented.
	30	Trans-boundary impacts or climate change	✓		B-	B+	During Construction: : • The construction work will generate about 40,000 tons of carbon dioxide. In the construction plan, fuel consumption should be suppressed by a rational work plan. Approximately 11,200 trees will be cut down, reducing the amount of carbon dioxide absorbed, however the amount of carbon dioxide absorbed will be recovered as trees will be replanted in excess of the number of trees cut (50 or 100 trees per felled tree). During Operation : • The amount of carbon dioxide generated from automobile exhaust gas between Digdig and Aritao will be reduced by about 12% compared to the case where the project is not implemented.

A+/-: Significant positive/negative impact is expected.

B+/-: Positive/negative impact is expected to some extent.

C: Extent of positive/negative impact is unknown. (A further examination is needed, and the impact could be clarified as the study progresses)

D: No impact is expected

N/A: Not Applicable

* Impact Items refer to "JICA Guidelines for Environmental and Social Considerations April 2010"

Source: JICA Study Team