[Letterhead of Bidder]

<u>[Date]</u>

[Name of Chairperson of BAC] [Designation] [Name of DPWH Procuring Entity] [Office Address]

Dear Sir / Madame:

Subject: Technical Proposal Submission

We, the undersigned, offer to provide the consulting services for *[insert Name of Project]* in accordance with your Bidding Documents dated *[insert date]* and our Bid. We are hereby submitting our Bid, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope.

We confirm that the information contained in the Eligibility Documents submitted earlier together with the Expression of Interest remain correct as of the date of bid submission.

If negotiations are held during the period of bid validity, i.e., before *[insert date]*, we undertake to negotiate on the basis of the proposed staff. Our Bid is binding upon us and subject to the modifications resulting from contract negotiations.

In accordance with Clause 51 of the General Conditions of Contract (GCC) which is part of the Bidding Documents for this Project, we acknowledge and accept the Procuring Entity's right to inspect and audit all records relating to our Bid irrespective of whether we enter into a contract with the Procuring Entity as a result of this Bid or not.

We understand you are not bound to accept any Bid received for the selection of a consultant for the Project.

We acknowledge that failure our authorized representative to sign this Technical Proposal Submission Form and the abovementioned Financial Proposal Submission Form shall be a ground for the rejection of our Bid.

Very truly yours,

Authorized Signature: Name and Title of Signatory: Name of Firm: Address:

#### **Bid Securing Declaration Form** [shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES) CITY OF \_\_\_\_\_\_) S.S.

#### BID SECURING DECLARATION Project Identification No.: [Insert number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
  - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this \_\_\_\_\_ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE] [Insert signatory's legal capacity] Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice

GPPB Resolution No. 16-2020, dated 16 September 2020

#### **DPWH-CONSL-22(**TPF3). COMMENTS AND SUGGESTIONS OF CONSULTANT ON THE TERMS OF REFERENCE AND ON DATA, SERVICES, AND FACILITIES TO BE **P**ROVIDED BY THE PROCURING ENTITY

#### On the Terms of Reference:

1.			
2.			
3.			
4.			

5.

On the data, services, and facilities to be provided by the Procuring Entity:

- 1.
- 2.
- 3.
- 4.
- 5.

DPWH-CONSL-22(TPF3)-2016

#### **DPWH-CONSL-24(**TPF 4). DESCRIPTION OF THE **APPROACH,** METHODOLOGY AND WORK PLAN FOR PERFORMING THE PROJECT

DPWH-CONSL-24(TPF4)

Insert Organizational Chart for the Project.

1. Technical Support Staff											
Name	Position	Task									

1.Technical Support Staff to report directly to										
Name	Position	Task								

#### TPF 6. CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Proposed Position:	
Name of Firm:	
Name of Staff:	
Profession:	
Date of Birth:	
Years with Firm/Entity:	
Membership in Professional Societies:	
Detailed Tasks Assigned:	

#### **Key Qualifications:**

[Give an outline of staff member's experience and training most pertinent to tasks on project. Describe degree of responsibility held by staff member on relevant previous projects and give dates and locations. Use about half a page.]

#### **Education:**

[Summarize college/university and other specialized education of staff members, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.]

Degree Courses:

Degree	Major/Specialization	Institution	Dates Attended
T		•	

Training:

Course	Conducted by	Start Date	End Date	No.of hours		

**Employment Record:** 

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of projects. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]

Service record							
Start Dat	e	End Date	Organiz	ation	Position		
Projects:							
Project Name and location	Project Cost	Designation	Services rendered	Start Date	End Date	Client	

#### Languages:

[For each language, indicate proficiency: excellent, good, fair, or poor in speaking, reading, and writing.]

#### **Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

#### **Commitment:**

I also commit to work for the Project in accordance with the time schedule as indicated in the contract once the firm is awarded the Project.

	Date:	
[Signature of staff member and authorized representative of the firm]	Day/Month/Yea	ar
Full name of staff member:		
Full name of authorized representative:		_

			Months (in the Form of a Bar Chart)							f a Bar Chart)					
Name	Position	Reports Due/Activities	1	2	3	4	5	6	7	8	9	1	1	1	Number of Months
												0	1	2	
															Subtotal (1)
															Subtotal (2)
															Subtotal (3)
															Subtotal (4)
Full-time: Reports Due: Activities Duration		Part-time:													
Location	l	Signature:													
Location		(Authorize		epre	sen	tativ	/e)								
		Full Name	:												
		Title:													
		Address:													

		[2	1 <i>st, 2</i> 1	nd, et	c. are	mon	ths fro	om th	e stai	rt of p	rojec	t.]	
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	
Activity (Work)													
_													
_													

#### A. Field Investigation and Study Items

#### B. Completion and Submission of Deliverables/Reports

Deliverables/Report	Date
Inception Report	
Monthly Progress Report	
Quarterly Progress Report	
Final Report	
Inception Report	

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES ) CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.

#### AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. [Select one, delete the other:]

*[If a sole proprietorship:]* I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. [Select one, delete the other:]

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, <u>by itself or by relation</u>, <u>membership</u>, <u>association</u>, <u>affiliation</u>, <u>or controlling interest with another blacklisted</u> <u>person or entity as defined and provided for in the Uniform Guidelines on Blacklisting</u>:
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
- 6. [Select one, delete the rest:]

*[If a sole proprietorship:]* The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

*[If a corporation or joint venture:]* None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.
- **IN WITNESS WHEREOF**, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_, 20\_\_\_ at \_\_\_\_, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE] [Insert signatory's legal capacity] Affiant

[Format shall be based on the latest Rules on Notarial Practice]

[[Letterhead of Bidder]

<u>[Date]</u>

[Name of Chairperson of BAC) [Designation] [Name of DPWH Procuring Entity] [Office Address]

Dear Sir / Madame:

Subject: Financial Proposal Submission

We, the undersigned, offer to provide the consulting services for *[insert Name of Consultancy Project]* in accordance with your Bidding Documents dated *[insert date]* and our Bid (Technical and Financial Proposals). Our attached Financial Proposal is for the sum of *[amount in words and figures]*.

Our Financial Proposal shall be binding upon us up to expiration of the bid validity period, i.e., *[insert date]*.

In accordance with Clause 51 of the General Conditions of Contract (GCC) which is part of the Bidding Documents for this Project, we acknowledge and accept the Procuring Entity's right to inspect and audit all records relating to our Bid irrespective of whether we enter into a contract with the Procuring Entity as a result of this Bid.

We confirm that we have read and we understand and accept the contents of the Instructions to Bidders (ITB), Bid Data Sheet (BDS), General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Terms of Reference (TOR), the provisions relating to the eligibility of Consultant, the applicable guidelines for the procurement rules of the Funding Source, and all Sipplemental/Bid Bulletins issued and other attachments and inclusions included in the Bidding Documents sent to us.

We understand you are not bound to accept any Bid you receive.

We remain,

Yours sincerely,

Authorized Signature: Name and Title of Signatory: Name of Firm: Address:

DPWH-CONSL-30(FPF1)

#### **DPWH-CONSL-31(**FPF 2). SUMMARY OF COSTS

	Item	Cost (PhP)
I.	REMUNERATION	
II.	REIMBURSABLE COST	
III.	GEOTECHNICAL SURVEYS AND INVESTIGATION	
IV.	SUBTOTAL (I+II+III)	
۷.	VAT (12% OF I)	
VI.	CONTINGENCY (5% OF IV)	
VII.	GRAND TOTAL (IV+V+VI)	

#### **DPWH-CONSL-32(**FPF 3). BREAKDOWN OF PRICE FOR THE PROJECT

	Item	Amount (PhP)
-	neration: ERSONNEL	
2.	TEAM LEADER (Civil Engineer) Laboratory Technician <i>ppor t Technical Staff:</i>	
3.	Senior Driller	
4.	Junior Driller	
5.	Field Driver	
<u>Reim</u>	pursable:	
1.	Per diem	
2.	Vehicle rental (with driver)	
3.	Office supplies and printing reproduction of documents and reports	
<u>Surve</u>	<u>y Equipment</u>	
1.	Geotechnical surveys and investigation	

	I.Breakdown of Remuneration Costs	No.	Days	Person-days	DAILY RATE	AMOUNT
KEY ST	AFF					
1	Team Leader (Civil Engineer)	1	3 days	1 person-days		
2	Laboratory technician	1	3 days	1 person-days		
SUPPO	RT TECHNICAL STAFF					
3	Senior driller	1	3 days	1 person-days		
4	Junior driller	3	3 days	3 person-days		
5	Field Driver	1	3 days	1 person-days		

II.BREAKDOWN OF REIMBURSABLE COST	QUANTITY	UNIT	UNIT COST	TOTAL COST
1. Per diem	6	Man-days		
2. Vehicle rental (with driver)	3	Vehicle-days		
3. Office supplies and printing reproduction of documents and reports	1	Lump-sum		

III.BREAKDOWN OF SURVEY EQUIPMENTS	QUANTITY	UNIT	UNIT COST	TOTAL COST
Geotechnical Surveys and Investigation	1	l.s.		



Control Contro Diplahan, Zamboanga Sibugay, Region IX



# TERMS OF REFERENCE

# CONTRACT ID: 24CSJI0010

Geotechnical Exploration for the Construction of Bridge, Jct Lanao-Pagadian-Zamboanga City Rd-Buug Connecting Pamintayan Road in support to the Production of Raw Seaweeds to Drying Facilities, Barangay Pamintayan, Buug, Zamboanga Sibugay

# I. INTRODUCTION

that The Department of Public Works and Highways (DPWH) is responsible primarily for National Roads and Bridges and Road Network Development project but other seeking to interconnect other provinces from Zamboanga Sibugay to Zamboanga Del Norte, Zamboanga Del Sur, Zamboanga City and other nearby regions for the safety and maintain further the road networks Flood Control structures projects like and mitigate, protect component infrastructure comfort of its user. develop,

## II. OBJECTIVES

- To explore the sub-surface conditions of the area to provide general data relating to the project ÷
  - 2. To give an outline of the surface and subsoil geology
- and consideration recommendation on the selection and design of foundation. engineering give and obtained data the To analyse e.
  - the To prepare the detailed geotechnical and geological investigation of bridge for the preparation of the foundation. 4.
    - To be able to provide a detailed sub-soil technical report. ы.

# III. PROJECT SCOPE

BORING REQUIRE Name of Project	BORING REQUIREMENTS FOR EACH PROJECT SITE Project Spacing	ITE Depth
CONSULTING SERVICES FOR Geotechnical Exploration for the Construction of Bridge, Jct Lanao- Pagadian-Zamboanga City Rd-Buug Connecting Pamintayan Road in support to the Production of Raw Seaweeds to Drying Facilities, Barangay Pamintayan, Buug, Zamboanga Sibuqay	Abutment A & Abutment B -2 boreholes	- 30 meters depth per borehole



# SCOPE OF CONSULTING SERVICES IV.

The Consultant shall provide all the labor, instrument/equipment materials, and supplies, geotechnical the perform satisfactorily 9 necessary exploration herein required, viz: etc., bunkhouses, vehicles,

- Field Works Ч. В Ч.
- Laboratory Testing
- Soil Investigation and Preparation of Report υÖ
  - Geotechnical Evaluation Report

this boring/drilling The Consultant shall be held solely responsible for the result of exploration and other activities under this Terms of Reference (TOR).

# DETAILED EXPLORATION REQUIREMENTS/SPECIFICATIONS

#### FIELDWORKS 2

#### **Borehole Location** Ż

the site. For piers or abutments less than 30 meters wide, boring shall be one The geotechnical investigation shall also include a geotechnical assessment of (1) each on both abutments, and one (1) per pier. For piers or abutments greater than 30 meters wide, provide a minimum of two (2) boreholes each.

variable Q complex of provided in areas Additional borings should be subsurface conditions.

were done along the original alignment, confirmatory boreholes should be conducted, the locations and numbers of which shall be determined by the In case the centerline of the proposed bridge is realigned after boring activities Geotechnical Engineer.

#### **Borehole Depth** N

If the foundation design has not been identified, the depth should be 30 meters encountered. In case the bearing layer is not yet encountered beyond 30 meters, boring shall continue until the preferred layer is encountered and/or upon the instruction of the Geotechnical Engineer. into sound rock, if

#### Procedure ന്

Deep drilling with Standard Penetration Test (SPT) shall be conducted at 7.30 meters from the centreline of the existing bridge left and right at each abutment. The minimum depth shall be determined based on confirmation of hard strata or bedrock. Drilling can be stopped after three (3) meters minimum penetration into hard strata or bedrock. ສ່



- and undisturbed soil samples. These analyses and testing shall be performed in disturbed Ы Consultant shall perform analysis and testing accordance with AASHTO and ASTM standards. The ġ.
- The soil samples for foundation design shall be tested for the determination (grain size distribution and classification, moisture content, Atterberg limits, etc.). of the main characteristics J
- Submit design recommendations, foundation condition scheme, bearing excavation stability, seismic design consideration, and liquefaction potential hydrological influences, settlement, groundwater table, and capacity d.
- and should be delineated and potential mass movement areas should be Geological structure, especially active faults that might traverse the area, earthquake Analysis of liquefaction potential during consolidation due to soft ground should be included. identified. ė

# 4. Handling and Core Samples

and labor shall provide all the materials, equipment, necessary for preserving samples. The contractor

# **B. LABORATORY TESTING**

samples for testing shall be made in accordance with AASHTO. The following tests shall be made on samples obtained from boring The preparation of and drilling.

# **Standard Penetration Test**

shall have four 12.70 mm (minimum diameter) vent ports and contain a check head, and a guide permitting a free fall of 0.762 m. The consultant shall conduct SPT shall be carried out through ordinary soil encountered to the depths specified above. The Split-barrel sampler to be used shall be 685.50 mm long and 50.80 mm wide with an inside diameter of 34.90 mm. The coupling head valve. The Drive weight assembly shall consist of a 63.50 kg weight, a driving this procedure according to AASHTO T 206.

# **Mechanical Sieve Analysis**

The grain size distribution is used to determine the textural classification of soils (i.e., gravel, sand, silty clay, etc.) which in turn is useful in evaluating the engineering characteristics such as permeability, strength, swelling potential, and susceptibility to frost action. The consultant shall conduct this procedure Mechanical Sieve Analysis determines the percentage of various grain sizes. according to AASHTO T 88.



# Hydrometer Analysis

colloid percentages in the soil. The consultant shall conduct this procedure Hydrometer Analysis determines the distribution (percentage) of particle sizes smaller than the No. 200 sieve (<0.075 mm) and identifies the silt, clay, and according to AASHTO T 88.

### **Specific Gravity**

This test determines the specific gravity of the soil grains. This can indicate the mineralogy of the material which may affect its engineering properties. The consultant shall conduct this procedure according to AASHTO T 100.

### Atterberg Limits

grained soils and the moisture content. The consultant shall conduct this This test describes the relation between the consistency and plasticity of fineprocedure according to AASHTO T 90.

# Natural Moisture Content

This test determines the amount of water present in a quantity of soil in terms settlement, workability, and other properties. The consultant shall conduct this of its dry weight to be used to provide general correlations with strength, procedure according to AASHTO T 265.

### Soil Strength Test

The design and analysis of shallow and deep foundations, excavations, earth retention structures, fills, and slopes require a thorough understanding of soil strength parameters.

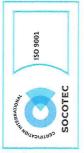
tests to be performed vary depending on the type of construction, the The selection of strength parameters needed and the corresponding types of foundation design, the intensity, type, and duration of loads to be imposed, and soil materials existing at the site.

# **Consolidation Test**

terms of constrained modulus ( $D_r = 1/m_v$ ), pre-consolidation stress, rate of This test determines the compressibility parameters (Cc, Cs, C,), stiffness in consolidation (cv), creep rate (C'), and approximate value of permeability (k). The consultant shall conduct this procedure according to AASHTO T 216.

### **Permeability Test**

This test determines the potential flow of fluids through soils. The consultant shall conduct this procedure according to AASHTO T 215.



# Moisture-Density Relation Test (Compaction Test)

corresponding to this density. The consultant shall conduct this procedure according to AASHTO T 99 (Standard Proctor), and AASHTO T 180 (Modified nominal compaction energy for a given soil and the (optimum) moisture content This test determines the maximum dry density attainable under a specified Proctor).

### Swell Index Test

The This test determines the swell potential of possibly expansive soils. consultant shall conduct this procedure according to AASHTO T 256.

### IMPLEMENTATION ∕"

### **OUTPUTS/DELIVERABLES** ۵.

#### Inception Report 1.

the submitted in soft-bound copy with the title of the report written at the commencement of services. It shall outline a detailed work program and briefly describe the methodology and project schedule (GANTT and S-Curve) proposed to meet the terms of reference. The report shall include the initial findings as well as the preliminary layout of the forms to be used for various investigations and calculations. Inception Reports shall be after month  $(\mathbf{I})$ one submit ф required <u>s</u> Consultant spine. The

#### Final report N

The Consultant shall prepare the final report in 2 bound copies to be of consulting services/works. It shall include, but not be limited to the following: the completion submitted after

- Introduction -
- A. Project Background
- Project Location and Site Description <u>в</u>
  - Objectives and Scope of Work Ц.
    - Geology and Seismicity III.
- Regional Geology Ą.
  - Site Geology ш.
    - Seismicity Ċ
- Field and Laboratory Tests IV.
- A. In-situ Tests (w/ description of test conducted)
- Laboratory Tests (w/ description of test conducted) Results of Field Investigation and Laboratory Testing ы В
  - Subsurface Soil Condition Ą.

>

- Geotechnical Parameters based on Test Results
  - **Evaluation and Findings** ΥI.
- Conclusions and Recommendations VII.
  - Reference VIII.



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List of Figures List of Tables Appendix

- Location Map 篇
- Geologic Map
- 窗
- Borehole Location Plan Geologic Cross-Sections & Soil Profiles
  - **Borehole Logs**
- Geophysical Data (if conducted)
  - In-situ Test Data .
- Laboratory Test Data ......
- **Detailed Calculations** 8
- Additional Photographs

# **DURATION OF CONSULTANCY SERVICES** œ

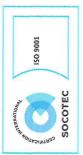
and 30 calendar days and the Consultant shall geological commence work upon receipt of the Notice to Proceed (NTP). contract period for undertaking the geotechnical investigation is Consultant's The

#### SCHEDULES ບ່

Indicative schedule of activities and key personnel per project.

Item	December		MO	MONTH	
no.	nescription	WEEK 1	WEEK 2	WEEK 3	WEEK 4
F	Mobilization/				
<b>.</b> .	Demobilization				
П.	Drilling Works				
III.	Laboratory Testing				
IV.	IV. Final Report				

Item			MO	MONTH	
no.	nescription	WEEK 1	WEEK 2	WEEK 3	WEEK 4
I.	Team Leader				
II.	Foreman				
III.	Driller				
IV.	Laboratory Technician				
۲.	Encoder				



### MANPOWER REQUIREMENTS VI.

The Consultants shall be composed of qualified staff with experience in the conduct of geological and geotechnical investigations.

Position/Key Staff	No. of Staff		Detailed Tasks/ Responsibilities	Rei	Required Qualifications
		•	Overall guidance, direction, supervision,	٠	Licensed/Registered Civil Engineer.
			members of the Team.	٠	Must be a holder of a Mactar's Danrag in
		٠	Collection and		Geotechnical Engineering: and
			evaluation on the		
			project sites.	•	Must have at least five (5) vears of related work
		•	Study and determination of items and method of		or research experience.
Team Leader	1		soil investigation and		
			laboratory test.		
		٠	Perform necessary		
			subsoil investigations on representative sections		
			of the road with		
			samples to be taken at suitable intervals.		
		)	اعداد باد داط ملمدالمديدا		
		•	unvesugate the physical		
			to facilitate the design		
			of structures.		
		٠	Investigate the physical properties of materials to facilitate the design of structures.	٠	BS in Civil Engineering; Doctoral or MS in related field is an added advantage;
Laboratory	<del>, .</del>	٠	Assists the Team Leader in the collection	٠	Duly licensed/registered civil engineer;
Technician	1		of necessary data and	٠	At least 5 years
			out detailed soil investigations along the road alignment.		experience in soil, sub- surface, and geotechnical survey and study of roads, bridges, and
					related structures.

SOCOTEC CERTIFICATION Website: www.dpwh.gov.ph
Tel. No(s).: (062) 716-10

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# **ASSISTANCE TO BE PROVIDED BY THE DPWH** VII.

information necessary for performing the above services. The Consultant is expected to provide office space and equipment and all other resources for The DPWH shall ensure that the Consultant has access to all relevant completing the services.

Prepared by:

**OS REYES** ELLAINER. DE I

Engineer II

Chief, Maintenance Section MELVAR B. BAROY BAC Chairperson Transferration of the second Approved by:



Website: www.dpwh.gov.ph
Tel. No(s).: (062) 716-10