DPWH - Albay 2<sup>nd</sup> District Engineering Office RES V Compound, Airport Site Legazpi City, Albay

## INVITATION TO BID FOR 24GFB0001

The Department of Public Works and Highways - Albay 2<sup>nd</sup> District Engineering Office, through its Bids and Awards Committee (BAC) for Goods, invites suppliers to apply to submit bids for the following Contract:

Contract Name : Procurement of Various Laboratory Testing Apparatus/Equipment for Use in Material

**Testing of Quality Assurance Section** 

Contract Location : DPWH-Albay 2nd DEO, RES V Compound, Airport Site, Legazpi City, Albay

Brief Description of Goods

to be Procured

Procurement of Various Laboratory Testing Apparatus/Equipment for Use in Material

**Testing of Quality Assurance Section** 

Approved Budget for the Contract (ABC) : ₱31,372,855.54

Source of Funds : **101101 (FY 2024)** 

Delivery/Contract Duration : **30 C.D.** PR NO. : **24-01-005** 

The BAC is conducting the public bidding for this Contract in accordance with Republic Act No. 9184 and its Implementing Rules and Regulations (IRR).

Bidders should have completed, within from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section IV, Instruction to Bidders.

To be eligible to bid for this Contract, a supplier must meet the following major requirements:

- a) Registration certificate from SEC, Department of Trade and Industry (DTI) for sole proprietorship, or CDA for cooperatives;
- b) Mayor's/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located or the equivalent document for exclusive economic zones or areas;
- c) Tax clearance per Executive Order 398, series of 2005, as finally reviewed and approved by the BIR;
- d) Filipino citizen or 60% Filipino-owned partnership/corporation;
- e) Completion of similar contract costing at least 50% of the ABC;
- f) Net Financial Contracting Capacity (NFCC) at least equal to the ABC or in lieu of the NFCC computation, a committed line of credit (CLC) specific to the contract to be bid from a universal or commercial bank.

The DPWH will use non-discretionary "pass/fail" criteria in the eligibility check, preliminary examination of bids, evaluation of bids, post-qualification, and award.

The schedule of key procurement activities for this Contract are shown below:

Activity	Time	Place
1. Issuance/Downloading	March 14, 2024 (Thurs.) to April	Hard copies at BAC Secretariat, Procurement Section of this
of Bidding Documents	02, 2024 (Tues.)	Office. Downloadable from DPWH website www.dpwh.gov.ph and PhilGEPS website www.philgeps.gov.ph
2. Pre-Bid Conference	Thursday, March 21, 2024 at 10:00:00 AM	
3. Receipt by the BAC of Bids	April 02, 2024 until 10:00 am	
4. Opening of Bids	Immediately after cut-off of dropping	

Bidders shall pay a fee of P25,000.00 for the Bidding Documents, upon securing hard copies of the

documents. Bidding documents fee **may be refunded** in accordance to section 17.5. of the 2016 Revised IRR of

R.A. 9184, however, said refund shall be subject to the conditions stipulated based on the grounds provided under Section 41 of the Act and this IRR. Bidders that download the Documents from the DPWH/PhilGEPS website shall pay

fee upon submission of their the bids. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in Instruction to Bidders.

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The DPWH - Albay 2nd District Engineering Office reserves the right to accept or reject any bid and to annul the bidding process at any time before the contract award, without incurring any liability to affected bidder/s, accordance with the provisions of Section 41 of RA 9184 and its IRR

Any request for additional information concerning this bidding shall be directed to the following:

BAC Chairman: **Engr. NINEZ B. REGALADO** Address: Albay 2nd DEO, RES V Compound

Airport Site, Legazpi City Telephone No.: 480-07-90

Email Address: procurement.albay2nd@gmail.com

OIC - Head Procurement Officer: Engr. MARIA JOY L. ZAMUDIO

Address: Albay 2nd DEO, RES V Compound

Airport Site, Legazpi City Telephone No.: 480-07-90

Email Address: procurement.albay2nd@gmail.com

Approved by:

Dates of Publication:

March 14, 2024 to March 20, 2024

Newspaper:

N/A

NINEZ B. REGALADO Chief, Maintenance Section BAC, Chairman

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### **BID DATA SHEET**

ITB Clause	
TTD Clause	The PROCURING ENTITY is <b>DPWH, Albay 2<sup>nd</sup> District Engineering Office</b>
1.1	The Acope of the Goods/Services required under this Contract  Procurement of Various Laboratory Testing Apparatus/Equipment for Use in Material Testing of Quality Assurance  Section
2	The Funding Source is: The Government of the Philippines (GOP) through amounting to P31,372,855.54 The name of the project is  Procurement of Various Laboratory Testing Apparatus/Equipment for Use in Material Testing of Quality Assurance Section
3.1	No further instructions.
5.1	No further instructions.
5.2	None of the circumstances mentioned in the ITB Clause exists in this Project. Foreign bidders, except those falling under ITB Clause 5.2(b), may not participate in this Project.
5.4	No further instructions.
6.3	No further instructions.
8.1	Subcontracting is not allowed.
8.2	Not applicable.
9.1(a)	The procuring Entity will hold a pre-bid conference for this Project on March 21, 2024 at 10:00am, DPWH Albay 2 <sup>nd</sup> District Engineering Office, Airport Site, Legazpi City.
9.1(b)	Contract duration is 30 C.D.
10.1	The Procuring Entity's address is:  DPWH Albay 2nd District Engineering Office, RES Compound, Airport Site, Legazpi City  JOANNE T. MORALES, BAC Chairman (052) 480-0790
10.3	No further instructions.
12.1(a)(i)	No other acceptable proof of registration is recognized.
13(c)(2)	The statement of all ongoing government and private contracts shall include all such contracts prior to the deadline for the submission and receipt of bids.
13(c)(3)	No additional requirements.
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BDS for Contract ID No.

24GFB0001

14	The ABC is P31,372,855.54 Any bid with a financial component exceeding this amount shall not be accepted.
14.2	No incidental services are required.
17.1	The bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Pesos.
18.1	Bids will be valid until 120 C.D. from the date of opening of bids.
19.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:  1. The amount of P627,457.11 , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;  2. The amount of P1,568,642.78 , if bid security is in surety bond; or draft/guarantee or  3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security.
19.2	The bid security shall be valid until July 30, 2024
21.3	Each Bidder shall submit <b>1</b> original copy duly signed and <b>1</b> photocopy (duly signed) of the first and second components of its bid.
22	The address for submission of bids is  The Chairman, DPWH, Albay 2nd District Engineering Office, Airport Site, Legazpi City.  The date for submission of bids is  April 02, 2024 until 10:00 am
25.1	The place of Bid Opening is at DPWH, Albay 2nd District Engineering Office, Airport Site, Legazpi City. The Date and Time of Bid Opening is  Immediately after cut-off of dropping
25.2	No further instructions.
28.3(d)	Bid Modification is allowed.
28.4	No further instructions.
28.5	No further instructions.
29.2(b)	Only tax returns filed and taxes filed and taxes paid through the BIR Electronic Filing and Payment System (EFPS) shall be accepted.  NOTE: The latest income and business tax returns are those within the last six months preceding the date of bid submission.
29.2(d)	No other acceptable proof of registration is recognized.
32.4(g)	No further instructions.
33.2	No further instructions.

# SPECIAL CONDITION OF CONTRACT 24GFB0001

GCC Clause	
1.1(g)	The Procuring Entity is <b>DPWH Albay 2nd District Engineering Office</b> .
1.1(i)	The <b>Supplier</b> is
1.1(j)	The Funding Source is 101101 (FY 2024) in the amount of <b>P31,372,855.54</b>
1.1(k)	The <b>Project Site</b> is located at DPWH-Albay 2nd DEO, RES V Compound, Airport Site, Legazpi City, Albay
5.1	The Procuring Entity's address for Notices is at <b>RES V Compound, Airport Site, Legazpi City, Albay.</b> The Supplier's address for Notices is
	Additional Bidding Requirements the Prospective Biddders must closely comply;
	1. Improperly sealed and marked bid envelopes is <b>ACCEPTED</b> provided that the bidder is duly authorized representative shall acknowledge such condition of the bid as submitted.
	2. Prospective bidders shall present their <b>ORIGINAL OFFICIAL RECEIPT OF PAYMENT</b> for Bid Documents (Project Specific) to the BAC Secretariat of this office before the deadline stated in the <b>Invitation to Bid (IB)</b> . Only the owner or authorized representative with a <b>Special Power of Attorney (SPA)</b> will be allowed to transact business relative to the bidding matters.
	<b>Delivery and Documents –</b> Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:
	(i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
	(ii) Original and four copies delivery receipt/note, railway receipt, or truck receipt;
	(iii) Original Supplier's factory inspection report;
6.20	(iv) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate;
	(v) Original and four copies of the certificate of origin (for imported Goods);
	(vi) Delivery receipt detailing number and description of items received signed by the authorized receiving personnel;
	(vii) Certificate of Acceptance/Inspection Report signed by the

Procuring Entity's representative at the Project Site; and

(viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site.

### Packaging -

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the GOODS' final destination and the absence of heavy handling facilities at all points in transit. The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity. The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity Name of the Supplier Contract Description Final Destination

### Insurance -

The Goods supplied under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Procuring Entity.

### Patent Rights -

The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.

10.40	Not applicable.
13.40	No further instructions.
16.10	None
17.30	No further instructions.
17.40	No further instructions.
21.10	No further instructions.

SCC for Contract ID No. 24GFB0001



ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

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	ontinuation next page.				TOTAL			

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ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

	Testing of Quality	Assurance S	secti	on		
Stock/ Property No	ITEM/ DESCRIPTION	Qua	antity	Unit/s	Unit Cost	Total Cost
Property No.	The Mortar Compression Machine consist of: a. Very rigid two column single or double chamber Load b. Automatic Hydraulic Power Pack c. Digital Data acquisition & control system, d. Upper Platen (with ball seating assembly), e. Lower Platen, f. Loading Cylinder Assembly & Limit switch for safety -load accuracy within 1.0% within the verified loading ra -220/240/220-240 V and with 220/240/220-240 V AVR/U -The supplier shall provide a certificate of compliance	Frames,	antity	Unitys	Unit Cost	Total Cost
3	demonstrating that the product being supplied satisfies t specifications outlined in "ASTM C109"  DUCTILOMETER/ DUCTILITY MACHINE  -conforms to AASHTO T 51 / ASTM D 113  - For pulling the briquet of asphalt material apart, specin continuously immersed in water while being pulled apart uniform speed without undue vibration, test speed vibral ±5%, water in the tank of testing machine shall cover th specimen both above and below it by ≥ 2.5 cm and shall maintained at 25 ± 0.5°C,  -with water refrigeration to maintain temperature of wat-shall have a means by which the elongation at the time rupture can be measured in cm, capable of 5 cm/min test-220/240/220-240 V and with 220/240/220-240 V AVR/L	men t at a tition within ne I be ter e of st speed,	1	unit		
4	BRIQUETTE MOLD AND BASE PLATE -conforms to ASTM D113 or AASHTO T5 -brass, 10±0.1 mm thick,		3	pcs		
5	BRIQUETTE BASE PLATE -conforms to ASTM D113 or AASHTO T5 -a brass base plate that is larger than the assembled mo		3	pcs		
6	ROTATING SHELF THIN-FILM OVEN  -Forced ventilation or forced air type (with fan to move tinside the oven) -Electrically heated -Digital temperature display, Thermostatically controlled, Steel interior material -Automatic over-temperature alarm -Temperature range: 75°C to 180°C or wider range -With local calibration showing temperature uniformity obetter throughout testing chamber at 110°C, 163°C, 200 250°C -Rectangular interior -Minimum internal dimensions (excluding heating elemer 330 x 330x 330 mm -Front opening is the same interior height and width of transition opening has a tightly fitted hinged door with a mi 100 x 100 mm (4x4 in) window composed of 2 sheets greated by an air space positioned to allow reading of thermometer without opening the door -with openings for the entrance of air and for the exit of air and vapors	the air  , Stainless  of ±5°C or or o°C and  nt):  the oven innumum glass a vertical	1	unit		
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ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

-with a single vertice interior dimensions a rotating shelf vert permitted -with mechanical mechanical mechanical mechanical mechanical mechanical mechanical siscapable of returnition with provision for the circular shelf in the center and oute thermometer bulb is of shelf -Includes certificate conformance to AAS specific brand, model—With rotating shelf-following specs: circular circular shelf max per oven to the center of the shelf max per oven to the center of the shelf max per oven to the center of the shelf max per oven to the center of the shelf max per oven to the center of the shelf max per oven to the context of the follow a. Sieve Frame-meleither 50 ± 6 mm (2 mounted in the fram when an electroform sieve from the top of 6 mm (3.0 ± 0.25 ir in.) in total height, sufficient to allow ai electroformed sheet b. Sieve Cloth or Electroformed reinfor 161 with the except 2 per liner centimet c. Cloth or Sheet Mc.i. Woven-Wire Clotype cloth shall be relooseness, or wrinkled to the frame. Two-piecenent from catchift the frame c.ii. Electroformed Secondary.	ITEM / DESCRIPTION	Quantity	I Init/c	Unit Cost	Total Cost
-With rotating shelf-following specs: circ 280mm, rotating rat to the center of the shelf max per oven -220-240 V and with steep and to the center of the shelf max per oven -220-240 V and with steep and to the center of the shelf max per oven -220-240 V and with size of the follow a. Sieve Frame- meleither 50 ± 6 mm (2 mounted in the fram when an electroform sieve from the top of 6 mm (3.0 ± 0.25 ir in.) in total height, sufficient to allow an electroformed sheet b. Sieve Cloth or Elewither a 45-µm wire sieve cloth, core electroformed reinformed for the with either a 45-µm wire sieve cloth, core electroformed reinformed reinformed sheet b. Ci. Woven-Wire Clotype cloth shall be reinformed sheet b. Sieve Cloth or Sheet Mc.i. Woven-Wire Clotype cloth shall be reinformed form catchiff the frame. Two-piec prevent the cement from catchiff the frame. Two-piec prevent the cement cloth and the frame c.ii. Electroformed Steinforced nickel sie without distortion, lie without distortion,	with mechanical means of rotating the vertical shaft and attached otating Shelf at the rate of $5.5 \pm 1.0$ r/min pon reaching $163^{\circ}\text{C}$ and 2 sample pans are introduced, the oven capable of returning to $162^{\circ}\text{C}$ within 15 minutes with provision for supporting the thermometer from the shaft of e circular shelf in a vertical position at a point equidistant from e center and outer edge of the shelf and the bottom of the ermometer bulb is approximately $6.4$ mm ( $1/4$ in) above the top shelf ncludes certificate(s) from the manufacturer showing enformance to AASHTO T 179 with the certificate containing the	Quantity	Unit/s	Unit Cost	Total Cost
- 45-µm (No. 325); consists of the follor a. Sieve Frame- mei either 50 ± 6 mm (2 mounted in the fran when an electroforn sieve from the top of 6 mm (3.0 ± 0.25 ir in.) in total height, sufficient to allow ai electroformed sheet b. Sieve Cloth or Ele with either a 45-µm wire sieve cloth, cor electroformed reinformed sie einforced nickel sie without distortion, lei	recific brand, model and serial number of oven. With rotating shelf- conforms to AASHTO T179 or has the llowing specs: circular metal shelf for sample container, min. dia. $80\mathrm{mm}$ , rotating rate= $5.5\pm1.0$ r/min, vertically located as close the center of the oven, 2-6 marked sample continer positions, 1 relf max per oven 20-240 V and with 220/240/220-240 V AVR/UPS				
impervious to water	45-µm (No. 325); Conforms to ASTM C 430 shists of the following: Sieve Frame- metal not subject to corrosion by water & circular, ther 50 ± 6 mm (2.0 ± 0.25 in.) when woven-wire cloth is ounted in the frame or 76 ± 6 mm (3.0 ± 0.25 in.) in diameter then an electroformed sheet is mounted the frame; depth of the eve from the top of the frame to the cloth or sheet shall be 76 ± mm (3.0 ± 0.25 in.); either side walls of 89 ± 6 mm (3.5 ± 0.25 .) in total height, or legs at least 12 mm (0.5 in.) in length, efficient to allow air ciculation beneath the sieve cloth or extroformed sheet.  Sieve Cloth or Electroformed Sheet- sieve frame shall be fitted the either a 45-µm (No. 325) stainless steel AISI Type 304 wovening sieve cloth, conforming to ASTM E11 or a 45-µm extroformed reinforced nickel sieve sheet conforming to ASTM E 151 with the exception that the number of openings shall be 71 ± per liner centimetre (180 ± 5 per linear inch).  Cloth or Sheet Mounting:  i. Woven-Wire Cloth Mounting- Type 304 stainless steel wovenpe cloth shall be mounted in the frame without distortion, oseness, or wrinkling. For a sieve fabricated by soldering the oth to the frame, the joint shall be made smooth to prevent the ment from catching in the joints between the sieve cloth and the frame.  ii. Electroformed Sieve Sheet Mounting - electroformed inforced nickel sieve sheet shall be mounted in the frame thout distortion, looseness, or wrinkling. The joint between the eve cloth and the frame shall be mounted in the frame thout distortion, looseness, or wrinkling. The joint between the even the even the sieve cloth and the frame shall be mounted in the frame thout distortion, looseness, or wrinkling. The joint between the even cloth and the frame shall be mounted in the frame thout distortion, looseness, or wrinkling. The joint between the even cloth and the frame shall be mounted in the frame thout distortion, looseness, or wrinkling. The joint between the even cloth and the frame shall be mounted in the frame thout distortion, looseness	3	Unit/s		

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ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

	Testing of Quality Assuran	ce Secti	on	ļ	
Stock/ Property No.	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
8	THREE GANG STEEL CUBE MORTAR MOLD -conforms to ASTM C 109 - 2"x 2" tight fitting molds; ≤3 cube compartments; shall be separable into ≤ 2 parts; positively held together when assembled - made of hard metal not attaked by the cement mortar; Rockwell hardness number ≥ 55 HRB; - mold sides shall be sufficiently rigid to prevent spreading or warping; mold interior faces shall be plane surfaces; Planeness of sides <0.001 in (<0.025mm), -Distance between opposite sides = 2 in. ± 0.005 (50mm ± 0.13mm), Height of each compartment = 2 in. + 0.01 in. to -0.005 in. (50mm + 0.25mm to -0.13 mm), -Angle between adjacent faces (Measured at points slightly removed from the intersection. Measured separately for each compartment between all the interior faces and the adjacent face and between interior faces and top & bottom planes of the mold) = 90 ±0.5°	55	pcs		
9	LENGTH COMPARATOR  - conforms to ASTM C 490  - designed to accommodate the size specimen employed and to provide or permit a positive means of contact with the gauge studs and the convenient and rapid obtaining of comparator readings; a horizontal comparator should be used with prisms with a cross section greater than 9 in.² or 58cm.²; design shall provide a means for checking the measuring device again a reference bar at regular intervals: shall provide  - The comparator shall provide a a dial micrometer or other measuring device graduated to read in 0.002-mm units or less, accurate within 0.002 mm in any 0.020-mm range, and within 0.004 mm in any 0.200-mm range, and sufficient range (at least 8.0 mm) in the measuring device to allow for small variations in the actual length of various specimens. The terminals of the comparator shall be plane, polished and heat-treated. They shall be fitted with collars held in place with set screws. The collars shall extend 1.5 6 0.1 mm beyond the plane face of the terminal. The collars shall allow free rotation of the gauge stud tips that fit inside the collars and have an inside diameter no more than 0.5	2	Unit/s		
10	MULTI FUNCTION COLOUR PRINTER & COPIER  Machine Type: A3 Colour Laser Multifactional Control Panel: 10.1" TFT Colour Touch Panel Memory: RAM: Main CPU 2GB	4	unit/s		
	Supported Media size: SRA3, A3, A4, A4R, A5, A5R, A6R, B4, B5, B5R, Foolscap, Idian Legal, F4A Custom size: 98.4 x 139.7 mm to 320.0 x 457.2mm Free size: 100.0 x 148.0 mm to 304.8 x 457.2 mm				

NAME OF SUPPLIER	
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AMOUNT IN FIGURES	
SIGNATURE OF SUPPLIER	



ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

Testing of Quality Assurance Section						
Stock/ Property No.	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost	
roperty rior	Envelope Custome size: 98.0 x 98.0 mm to 320.0x457.2mm					
	Printing Specifications					
	up to 22ppm (A4/A5/A5R/A6R) & up to 15ppm (A3) up to					
	20ppm (A4R)					
	Print Resolution (dpi)					
	1200 x 600, 1200x1200 (half speed)					
	Copy Specifications					
	** *					
	up to 22ppm (A4/A5/A5R/A6R) & up to 15ppm (A3) up to					
	20ppm (A4R)					
	Copy Resolution dpi : 600x600					
	Multi Copies: up to 999 copies					
	Magnification: Variable Zoom					
	: 25% to 400% (1% increment)					
	: Present reduction/enlargement: 25%, 50%, 61%, 70%,					
	81%, 86%, 100% (1:1), 115%, 122%, 141%, 200%, 400%					
	Scan Specifications					
	Standard : Colour Flatbed Scan Unit					
	Document Feeder Paper Capacity (80gsm)					
	Single Pass DADF-C1: up to 200 sheets					
	Scan Speed (ipm, BW/CL,A4)					
	Single Pass DADF-C1:					
	1-sided scanning: 135/135 (300x300 dpi, send), 80/80					
	(600x600 dpi, copy)					
	2-sided scanning: 270/270 (300x300 dpi, send), 160/90					
	(600x600 dpi, copy)					
	Scan Resolution (dpi)					
	Scan for Copy: 600x600					
	Scan for Send: Push 600x600 (SMB/FTP/WebDAV/IFAX),					
	Pull 600x600					
	Scan for Fax: 600x600					
	Send Specification					
	Standard: Email/Internet FAX (SMTP), SMB3.0, FTP, WebDAV,					
	Mailbox					
	Send Resolution					
	Push: up tp 600x600					
	Pull: up to 600x600					
	Fax Specifications					
	Maximum Number of Connection Lines 2					
	Modem Speed: Super G3: 33.6 kbps					
	G3: 14.4kbps					
	Compression Method: MH, MR, MMR, JBIG					
	Resolution (dpi) 400x400 (Ultra Fine)					
	200x400 (Super Fine)					
	200x200 (Fine)					
	200x100 (Normal)					
	Fax Memory: up to 30,000 pages (2000 jobs)					
	Speed Dial: Max 200					
	Group Dial/Destinations Max 199 dials					
	Memory Back up: Yes					
	Paper Supply Options					
	, ,,,,				1	
	Paper Capacity: 550 sheets x 2 (1,100 sheets 80 gsm)					
	Paper type: Thin, Plain, Recycled, Colour, Heavy, Bond				1	
	Transparency, Pre-punched, Letter head					
	Paper Size: A3, A4,A4R,A5,A5R,A6R,B4,B5,B5R,Foolscap,					
	Indian Legal, F4A	1			<u> </u>	
	See continuation next page	<u> </u>			,	
		TOTAL				

NAME OF SUPPLIER	
AMOUNT IN WORDS	
AMOUNT IN FIGURES	
SIGNATURE OF SUPPLIER	

ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

# 24GFB0001 - Procurement of Various Laboratory Testing Apparatus/Equipment for Use in Material Testing of Quality Assurance Section

Stock/	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
Property No.	TIEN, DESCRIPTION	Quarterly	095	orne cose	rotar dosc
	Custom Size: 105.0x148.0 mm to 304.8x457.2mm				
	Paper Weight: 52 to 256 gsm				
	Power Source: From the Main Unit				
	Dimention: 565x635x248 mm (WxDxH)				
	Weight: Approx 16 KG				
	Environment Specifications				
	Operating Environment				
	Temperature: 10 to 30 °C				
	Humidity: 20 to 80 % RH				
	Power Requirements				
	220-240V, 50/60Hz, 5A				
	Power Consumption				
	Maximum: 1,500 W				
	Standby: Approx 40.7W				
		TOTAL	•		

NAME OF SUPPLIER		
AMOUNT IN WORDS		
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SIGNATURE OF SUPPLIEF	₹	

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ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

## **BILL OF QUANTITIES**

24GFB0001 - Procurement of Various Laboratory Testing Apparatus/Equipment for Use in Material

Testing of Quality Assurance Section						
Stock/	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost	
1	RCPC TESTING MACHINE  -Conforms to ASTM C497  - Rate of Loading: Maximum of 10168 Newton meter/ linear meter of pipe per minute.  -The upper bearing shall be rigid wood.  -The lower bearing shall consist of wood or hard rubber strips.  -Concrete Pipe Testing Machines consist of a. Load Frame  The frames are rigid 2 column constructions with superior axial and lateral stiffness and are precision aligned. The load-controlled double acting piston is integrated to upper beam. The actuator has anti-rotation system to prevent the natural tendency of the actuator to rotate. The stroke of the double acting actuator is 300 mm. Load cell is used for precise load measurement and closed loop control.  b. Automatic Hydraulic Power Pack, dual stage, controlled by digital readout unit is designed to supply the required oil to the load frames for loading. Controller unit has a simple and compact configuration.  Very silent power pack can load the specimen between 1 kN/sec. to 20 kN/sec, with an accuracy of ±5%. A Rapid approach pump is supplied as standard. Safety valve (maximum pressure valve) is used to avoid machine overloading.  Maximum working pressure of the system is 410 bar.  c. Digital data acquisition & control system  The unit is designed to control the machine and processing of data from load-cells and pressure transducers which are fitted to the machine. The unit has easy to use menu options. Digital graphic display unit loading rate of the time of Testing and load values can be monitored.  -The Concrete Pipe Testing Software is supplied free of charge with the Concrete Pipe Testing Machine. Sample, company, laboratory and test values can be entered in the programme. Load-time graphic, test reports and sample reports can be taken.  Software provides test data, results, and the load-time graphs can be seen at LCD screen. The Concrete Pipe Testing Machine. Sample, company, laboratory and test values can be entered in the programme. Load-time graphic, test reports and sample reports can be taken.  Software provides t	1	Unit/s			
2	COMPRESSION MACHINE FOR HYDRAULIC CEMENT MORTARS (USING 2-IN. OR [50MM] CUBE SPECIMENS -Conforms to ASTM C109 -Hydraulic or Screw Type, with sufficient opening between the upper bearing surface & the lower bearing surface of the machine to permit the use of verifying apparatusNumerical display large enough to be easily readNumerical increment equal to or less than 0.10% of the full scale load	1	Unit/s			
	See continuation next page					
_		TOTAL		1	1	

NAME OF SUPPLIER		
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### DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

## **BILL OF QUANTITIES**

	Testing of Quality Assurance Section						
Stock/ Property No.	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost		
	The Mortar Compression Machine consist of: a. Very rigid two column single or double chamber Load Frames, b. Automatic Hydraulic Power Pack c. Digital Data acquisition & control system, d. Upper Platen (with ball seating assembly), e. Lower Platen, f. Loading Cylinder Assembly & Limit switch for safety -Load accuracy within 1.0% within the verified loading range -220/240/220-240 V and with 220/240/220-240 V AVR/UPS -The supplier shall provide a certificate of compliance demonstrating that the product being supplied satisfies the specifications outlined in "ASTM C109"						
3	DUCTILOMETER/ DUCTILITY MACHINE  -conforms to AASHTO T 51 / ASTM D 113  - For pulling the briquet of asphalt material apart, specimen continuously immersed in water while being pulled apart at a uniform speed without undue vibration, test speed vibration within ±5%, water in the tank of testing machine shall cover the specimen both above and below it by ≥ 2.5 cm and shall be maintained at 25 ± 0.5°C,  -with water refrigeration to maintain temperature of water -shall have a means by which the elongation at the time of rupture can be measured in cm, capable of 5 cm/min test speed, -220/240/220-240 V and with 220/240/220-240 V AVR/UPS.	1	Unit/s				
4	econforms to ASTM D113 or AASHTO T5 -brass, 10±0.1 mm thick,	3	pc/s				
5	BRIQUETTE BASE PLATE -conforms to ASTM D113 or AASHTO T5 -a brass base plate that is larger than the assembled mold	3	pc/s				
6	<b>ROLLING THIN-FILM OVEN</b> -Forced ventilation or forced air type (with fan to move the air inside the oven) -Electrically heated -Double-walled -a height of 381 mm (15 in.), a width of 483 mm (19 in.), and a depth (with door closed) of $445 \pm 13$ mm $(171/2 \pm 1/2$ in.) - door shall contain a symmetrically located window with dimensions of 305- to 330-mm (12- to 13-in.) wide by 203- to 229-mm (8- to 9-in.) high containing 2 sheets of heat-resistant glass separated by an air space and permitting unobstructed view of interior -heating element shall be located below the oven floor and shall be adequate to maintain the required temperature -vented at the top [symmetrically arranged in the upper part of the oven and have an open area of $9.3 \pm 0.45$ cm² $(1.45 \pm 0.07$ in.²)]and bottom [located symmetrically to supply incoming air around the heating elements and have an open area of $15.0 \pm 0.7$ cm² $(2.31 \pm 0.11$ in.²) -have an air plenum covering the side walls and ceiling, the air space being $38.1 \pm 4.8$ mm $(11/2 \pm 3/16$ in.) deep from the walls and ceiling.	1	unit				
	See continuation next page		I				
		TOTAL	<u> </u>				

NAME OF SUPPLIER		
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### DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

### **BILL OF QUANTITIES**

ock/	Testing of Quality Assuran				
ock/ operty No.	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
perty No.	-At a midpoint in the width of the oven and 152 mm (6 in.) from the face of the circular metal carriage to its axis, a squirrel cage-type fan 133.4 mm (5 1/4 in.) outside diameter by 73 mm (2 7/8 in.) wide shall be turned at 1725 r/min by an externally mounted motor.  -The squirrel cage fan shall be set so that the fan turns in an opposite direction to its vanes.  -The air flow characteristics of the fan-plenum system shall be suctioned from the floor of the oven through the wall plenums with the air exiting through the fan  -Equipped with a proportional temperature controller capable of maintaining a temperature of 163 ± 1.0°C  -The temperature controller shall be capable of bringing the fully loaded oven back to the test temperature within a 10-min period after insertion of the samples in a preheated oven  -Provided with a 305-mm (12-in.) diameter vertical circular carriage provided with suitable openings and clips for firmly holding eight glass containers in a horizontal position and mechanically driven through a 19-mm (3/4-in.) diameter shaft at a speed of 15 ± 0.2 r/min  -Equipped with an air jet  -have an outlet orifice 1.02 mm (0.04 in.) in diameter (No. 60 drill) connected to a 7.6-m (25-ft) length of 7.9-mm (5/16-in.)  O.D. refrigeration copper tubing. This tubing shall be coiled to lie flat on the bottom of the oven and lead to a source of fresh-dried, dust-free, regulated air.  -With flowmeter capable of measuring the airflow at a rate of 4000 ± 100 mL/min; located downstream of all regulating devices, upstream of the copper coil and positioned so it is maintained at approximately room temperature.  -With container and hoses of sifficient size to hold the Activated Silica Gel and allow removal of moisture from the air going into the Rolling Thin-Film Oven  -220-240 V  -With local calibration shwing temperature uniformity of ±1°C or better throughout testing chamber at 110°C and 163°C  -Includes certificate (s) fromt the manufacturer showing conformance to AASHTO T 240 with the certificate containing	Quantitaty 9			
7	AIR PRESSURE PUMP -Accessory for the Rolling Thin-Film Oven -25lt capacity 220V, 50-60Hz, 1hp	1	unit		
8	SIEVE 325 - 45-μm (No. 325); Conforms to ASTM C 430 consists of the following: a. Sieve Frame- metal not subject to corrosion by water & circular, either 50 $\pm$ 6 mm (2.0 $\pm$ 0.25 in.) when woven-wire cloth is mounted in the frame or 76 $\pm$ 6 mm (3.0 $\pm$ 0.25 in.) in diameter when an electroformed sheet is mounted the frame; depth of the sieve from the top of the frame to the cloth or sheet shall be 76 $\pm$ 6 mm (3.0 $\pm$ 0.25 in.); either side walls of 89 $\pm$ 6 mm (3.5 $\pm$ 0.25 in.) in total height, or legs at least 12 mm (0.5 in.) in length, sufficient to allow air ciculation beneath the sieve cloth or electroformed sheet.	3	unit		
	See continuation next page				
		TOTAL			

NAME OF SUPPLIER	
AMOUNT IN WORDS	
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ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

## **BILL OF QUANTITIES**

b. Sieve Cloth or Electric with either a 45-µm (Nowoven-wire sieve cloth, electroformed reinforce 161 with the exception 2 per liner centimetre (c. Cloth or Sheet Mount c.i. Woven-Wire Cloth N type cloth shall be mou looseness, or wrinkling. cloth to the frame, the cement from catching if the frame. Two-piece sprevent the cement from cloth and the frame.  c.ii. Electroformed Sieve eniforced nickel sieve without distortion, looss sieve cloth and the fram impervious to water.  THREE GANG STELL -conforms to ASTM C 1 - 2"x 2" tight fitting mo separable into ≤ 2 part - made of hard metal n hardness number ≥ 55 - mold sides shall be su warping; mold interior in sides <0.001 in (<0.025 - Distance between oppi 0.13mm), Height of ead in. (50mm + 0.25mm thank - 4.05mm t	Testing of Quality Assuran	ce Secti	on		T
b. Sieve Cloth or Electrowith either a 45-µm (Nowoven-wire sieve cloth, electroformed reinforce 161 with the exception 2 per liner centimetre (c. Cloth or Sheet Mount c.i. Woven-Wire Cloth N type cloth shall be mou looseness, or wrinkling. cloth to the frame, the cement from catching in the frame. Two-piece is prevent the cement from catching in the frame. C.ii. Electroformed Sieve reinforced nickel sieve is without distortion, loose sieve cloth and the frame impervious to water.  THREE GANG STEEL -conforms to ASTM C 1 - 2"x 2" tight fitting moseparable into ≤ 2 part - made of hard metal in hardness number ≥ 55 - mold sides shall be su warping; mold interior if sides <0.001 in (<0.025 -Distance between oppo 0.13mm), Height of ead in. (50mm + 0.25mm thangle between adjacer removed from the intercompartment between and between interior fall in the sum of the sides of the conforms to ASTM C 4 - designed to accommo provide or permit a pos studs and the convenience readings; a horizontal calcumpto a cross section greater a means for checking that regular intervals: shall provide - The comparator shall measuring device gradulaccurate within 0.002 nouly mm in any 0.200 nouly mm in any 0.200 nouly mm in the measur the actual length of var comparator shall be placed be fitted with collars he shall extend 1.5 6 0.1 nouly mit in the measur the actual length of var comparator shall be placed be fitted with collars he shall extend 1.5 6 0.1 nouly mit in the measur the actual length of var comparator shall be placed be fitted with collars he shall extend 1.5 6 0.1 nouly mit in the measur the actual length of var comparator shall be placed be fitted with collars he shall extend 1.5 6 0.1 nouly mit in the measur the actual length of var comparator shall be placed be fitted with collars he shall extend 1.5 6 0.1 nouly mit in the measur the actual length of var comparator shall be placed to accommon the shall extend 1.5 6 0.1 nouly mit in the measur the actual length of var comparator shall be placed to accommon the shall exten	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
-conforms to ASTM C 1 - 2"x 2" tight fitting mo separable into ≤ 2 part - made of hard metal n hardness number ≥ 55 - mold sides shall be su warping; mold interior is sides <0.001 in (<0.025 - Distance between opp 0.13mm), Height of each in. (50mm + 0.25mm than - Angle between adjacet removed from the intercompartment between and between interior fall = 90 ±0.5°  LENGTH COMPARATION - conforms to ASTM Conforms	en-Wire Cloth Mounting- Type 304 stainless steel woven- h shall be mounted in the frame without distortion, s, or wrinkling. For a sieve fabricated by soldering the the frame, the joint shall be made smooth to prevent the from catching in the joints between the sieve cloth and e. Two-piece sieves shall clamp tightly on the cloth to the cement from catching in the joints between the sieve If the frame. Troformed Sieve Sheet Mounting - electroformed d nickel sieve sheet shall be mounted in the frame distortion, looseness, or wrinkling. The joint between the th and the frame shall be made smooth with the material				
LENGTH COMPARATO  - conforms to ASTM C 4  - designed to accommo provide or permit a pos studs and the convenie readings; a horizontal of a cross section greater a means for checking the at regular intervals: shall provide  - The comparator shall measuring device gradu accurate within 0.002 n 0.004 mm in any 0.200 8.0 mm) in the measur the actual length of var comparator shall be pla be fitted with collars he shall extend 1.5 6 0.1 n The	tight fitting molds; $\leq 3$ cube compartments; shall be e into $\leq 2$ parts; positively held together when assembled if hard metal not attaked by the cement mortar; Rockwell in number $\geq 55$ HRB; des shall be sufficiently rigid to prevent spreading or mold interior faces shall be plane surfaces; Planeness of 001 in ( $<0.025$ mm), be between opposite sides = 2 in. $\pm 0.005$ (50mm $\pm$ ), Height of each compartment = 2 in. $\pm 0.01$ in. to $-0.005$ m $\pm 0.25$ mm to $-0.13$ mm), etween adjacent faces (Measured at points slightly from the intersection. Measured separately for each ment between all the interior faces and the adjacent face ween interior faces and top & bottom planes of the mold)	55	pc/s		
inside the collars and h	Is to ASTM C 490  Institute of the color of the measuring device and in the measuring device graduated to read in the measuring device graduated to read in the measuring device again a reference bar in the measuring device again a reference bar of the measuring device graduated to read in 0.002-mm units or less, within 0.002 mm in any 0.020-mm range, and within on in any 0.200-mm range, and sufficient range (at least in the measuring device to allow for small variations in all length of various specimens. The terminals of the tor shall be plane, polished and heat-treated. They shall with collars held in place with set screws. The collars and 1.5 6 0.1 mm beyond the plane face of the terminal.	2	Unit/s		
See continuation next pag		TOTAL			

NAME OF SUPPLIER	
AMOUNT IN WORDS	
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### DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

## **BILL OF QUANTITIES**

Testing of Quality Assurance Section					
Stock/	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
Property No.	, , , , , , , , , , , , , , , , , , ,		·		
	MULTI FUNCTION COLOUR PRINTER & COPIER				
	Machine Type: A3 Colour Laser Multifactional				
	Control Panel: 10.1" TFT Colour Touch Panel				
	Memory: RAM: Main CPU 2GB				
	Image Processing CPU: 1GB+0.5GB				
	Storage: SSD 256GB				
	Interface Connection				
	NETWORK Standard: 1000Base-T/100Base-TX/10Base-T,				
	Wireless LAN (IEEE 802.11 b/g/n)				
	Paper Supply Capacity (A4, 80gsm)				
	Standard: 1,200 Sheets (2x550 sheet cassettes, 1x100-				
	sheet multipurpose tray)				
	Paper Output Capacity (A4, 80gsm)				
	Standard: 250 sheets				
	Multi Purpose Tray:				
	Supported Media size: SRA3, A3, A4, A4R, A5, A5R, A6R, B4,				
	B5, B5R, Foolscap, Idian Legal, F4A				
	Custom size: 98.4 x 139.7 mm to 320.0 x 457.2mm				
	Free size: 100.0 x 148.0 mm to 304.8 x 457.2 mm				
	Envelope Custome size: 98.0 x 98.0 mm to 320.0x457.2mm				
	Printing Specifications				
	up to 22ppm (A4/A5/A5R/A6R) & up to 15ppm (A3) up to				
	20ppm (A4R)				
	Print Resolution (dpi)				
	1200 x 600, 1200x1200 (half speed)				
	Copy Specifications				
	up to 22ppm (A4/A5/A5R/A6R) & up to 15ppm (A3) up to				
11	20ppm (A4R)	4	unit/s		
	Copy Resolution dpi: 600x600				
	Multi Copies: up to 999 copies				
	Magnification: Variable Zoom				
	: 25% to 400% (1% increment)				
	: Present reduction/enlargement: 25%, 50%, 61%, 70%,				
	81%, 86%, 100% (1:1), 115%, 122%, 141%, 200%, 400%				
	Scan Specifications				
	Standard : Colour Flatbed Scan Unit				
	Document Feeder Paper Capacity (80gsm)				
	Single Pass DADF-C1: up to 200 sheets				
	Scan Speed (ipm, BW/CL,A4)				
	Single Pass DADF-C1:				
	1-sided scanning: 135/135 (300x300 dpi, send), 80/80				
	(600x600 dpi, copy)				
	2-sided scanning: 270/270 (300x300 dpi, send), 160/90				
	(600x600 dpi, copy)				
	Scan Resolution (dpi)				
	Scan for Copy: 600x600				
	Scan for Send: Push 600x600 (SMB/FTP/WebDAV/IFAX),				
	Pull 600x600				
	Scan for Fax: 600x600				
	Send Specification  Standard: Fracil/Internat FAV (SMTD), SMR2 0, FTD				
	Standard: Email/Internet FAX (SMTP), SMB3.0, FTP,				
	WebDAV, Mailbox				
	Send Resolution				
	Push: up tp 600x600				
	Pull: up to 600x600  See continuation next page				<u> </u>
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NAME OF SUPPLIER	
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### DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

## **BILL OF QUANTITIES**

	Testing of Quality Assuran	ce Secti	on		
tock/ roperty No.	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
operty No.	Fax Specifications				
	Maximum Number of Connection Lines 2				
	Modem Speed: Super G3: 33.6 kbps				
	G3: 14.4kbps				
	·				
	Compression Method: MH, MR, MMR, JBIG				
	Resolution (dpi) 400x400 (Ultra Fine)				
	200x400 (Super Fine)				
	200x200 (Fine)				
	200x100 (Normal)				
	Fax Memory: up to 30,000 pages (2000 jobs)				
	Speed Dial: Max 200				
	Group Dial/Destinations Max 199 dials				
	Memory Back up: Yes				
	Paper Supply Options				
	Paper Capacity: 550 sheets x 2 (1,100 sheets 80 gsm)				
	Paper type: Thin, Plain, Recycled, Colour, Heavy, Bond				
	Transparency, Pre-punched, Letter head				
	Paper Size: A3, A4,A4R,A5,A5R,A6R,B4,B5,B5R,Foolscap,				
	Indian Legal, F4A				
	Custom Size: 105.0x148.0 mm to 304.8x457.2mm				
	Paper Weight: 52 to 256 gsm				
	Power Source: From the Main Unit				
	Dimention: 565x635x248 mm (WxDxH)				
	, ,				
	Weight: Approx 16 KG				
	Environment Specifications				
	Operating Environment				
	Temperature: 10 to 30°C				
	Humidity: 20 to 80 % RH				
	Power Requirements				
	220-240V, 50/60Hz, 5A				
	Power Consumption				
	Maximum: 1,500 W				
	Standby: Approx 40.7W				
12	Cold Test Bending Machine		unit/s		
	-Capacity (KN): 150 KN				
	-Cold Test Bending Machine is used for bending and re-bending				
	tests of reinforcing bars, wire rod and wire for concrete				
	The test piece is bent ever a mandral. The angle of bend and the				
	-The test piece is bent over a mandrel. The angle of bend and the diameter of the mandrel (D) is selected in accordance with the				
	relevant product standard				
	-F310The Bending test is performed with a minimum angle of				
	bend of 180° over a mandrel				
	-For Re-Bending test, first the test piece is bend with a minimum	1			
	angle of bend of 90° over a mandrel, in a second step, the aging				
	treatment is applied and then the test pieces bent back up to a				
	minimum of 20°				
	-Bending & Re-Bending Apparatus is used for Bending & Re-				
	Bending Tests on 8-40 mm diameter rebars.				
	Power Requirements				
	220V, 50/60Hz, 1hp				
	Weight: Approx 520 KG				
	Dimensions: Approx 1500x850x1200mm				
	See continuation next page				
		TOTAL			

NAME OF SUPPLIER		
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ALBAY 2ND DISTRICT ENGINEERING OFFICE Airport Site, Legazpi City

## **BILL OF QUANTITIES**

Stock/	ITEM/ DESCRIPTION	Quantity	Unit/s	Unit Cost	Total Cost
Property No.	TIEN, DESCRIPTION	Quartity	Offices	Offic Cosc	Total Cost
	BENDING APPARATUS MANDREL				
	Mandrel for 10-11 mm diameter samples	1	рс		
	Mandrel for 12-14 mm diameter samples	1	рс		
	Mandrel for 16 mm diameter samples	1	рс		
	Mandrel for 18-20 mm diameter samples	1	рс		
	Mandrel for 25-26 mm diameter samples	1	рс		
	Mandrel for 28-30 mm diameter samples	1	рс		
	Mandrel for 32 mm diameter samples	1	рс		
	Mandrel for 40 mm diameter samples	1	рс		
	RE-BENDING APPARATUS MANDREL				
	Mandrel for 16 mm diameter samples	1	рс		
	Mandrel for 18-20 mm diameter samples	1	рс		
	Mandrel for 25 mm diameter samples	1	рс		
	Mandrel for 30-32 mm diameter samples	1	рс		
	Mandrel for 40 mm diameter samples	1	pc		
	***nothing follows***				
		TOTAL			

NAME OF SUPPLIER	
AMOUNT IN WORDS	
AMOUNT IN FIGURES	
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