Republic of the Philippines

### Metro Roxas Water District

MRWD Blg., Km. 1, Roxas City 5800, Philippines Tel. # (036) 6210-737/ 6210-044/ 6215-474 Telefax # (036) 6217-492

### BIDS AND AWARDS COMMITTEE **INVITATION TO BID**

No. 004-2019

The METRO ROXAS WATER DISTRICT (MRWD), through its Bids and Awards Committee (BAC), invites Manufacturers/Suppliers/Distributors to apply for eligibility and to bid for the hereunder project:

Name of Project: CONTRACT FOR THE SUPPLY AND DELIVERY OF SIX THOUSAND (6,000) PIECES OF

1/2" Ø MULTI-JET WATER METER, FIFTY (50) PIECES OF 1" WATER METER, TWELVE (12)

PIECES OF 2" FLOW METER AND SIX (6) PIECES OF 4" FLOW METER.

Location: MRWD BLDG., KM.1, ROXAS CITY

Brief Description: SUPPLY AND DELIVERY OF SIX THOUSAND (6,000) PIECES OF 1/2" Ø MULTI-JET

WATER METER, FIFTY (50) PIECES OF 1" WATER METER, TWELVE (12) PIECES OF 2" FLOW METER AND SIX (6) PIECES OF 4" FLOW METER.

Approved Budget for The Contract (ABC): Php 12,450,200.00

ABC For Lot 1:Php 11,825,000.00 (6,000 pieces 1/2" Multi Jet Water Meter and 50 Pieces 1" Ø Multi Jet Water Meter)

ABC For Lot 2: Php 625,200.00 (12 Pieces 2"Flow Meter and 6 Pieces 4" Flow Meter)

Source of Funds: MRWD CORPORATE BUDGET FOR FISCAL YEAR 2019

Mode of Procurement: PUBLIC BIDDING

Contract Duration: NINETY (90) CALENDAR DAYS FROM RECEIPT OF CONTRACT AND NOTICE

TO PROCEED

Delivery of Goods: WITHIN NINETY (90) CALENDAR DAYS FROM RECEIPT OF CONTRACT,

PURCHASE ORDER AND NOTICE TO PROCEED

The Eligibility Check/ Screening as well as the Preliminary Examination of Bids shall use non-discretionary "pass/ fail" criteria. Bid Evaluation and Post-qualification will also be conducted to determine the responsiveness of the Lowest Calculated Bidder (LCB).

All particulars relative to Eligibility Statement and Screening, Bid Security, Performance Security, Evaluation of Bids, Post-Qualification and Award of Contract shall be governed by the pertinent provisions of R.A. 9184 and its Revised Implementing Rules and Regulations (IRR).

The schedule of activities is listed, as follows:

Activities	Schedule
1. Advertisement	November 27, 2018 to December 4, 2018
2. Issuance of the Bidding Documents	November 27, 2018 until 8:45 AM of December 19, 2018
3. Pre-bid Conference	December 5, 2018 at 9:00 AM
4. Calibration Testing of Water Meter Samples	December 5-18, 2018
5. Deadline for the Submission and Opening of Bids	December 19, 2018 at 9:00 AM
6. Evaluation of Bids	December 20, 2018
7. Post-qualification of Bids	December 21-26, 2018

The Bid Documents will be available to prospective Bidders from the address stated below. The Bidding Documents shall be received personally by the prospective Bidder or his duly authorized representative. Annual accreditation fee of One Thousand Pesos (P1,000.00) is required from interested bidders, which amount is nonrefundable

Any prospective bidders may submit separate bids for lots 1 & 2 or all lots (lots 1 & 2). A bidder who intends to participate in all of the lots will pay the amount of Twenty-Five Thousand Pesos (P25,000.00). While, a bidder who intends to participate in Lot 1 shall pay the amount of Twenty-Five Thousand Pesos (P25,000.00) and for Lot 2-One Thousand Pesos (P1,000.00). Amount paid for the bid documents are non-refundable. The submitted bid by prospective bidders shall not exceed the ABC for each lot.

A bidder must have at least one (1) single largest contract equivalent to or at least fifty percent (50%) of the ABC for the last five (5) years which is similar in nature to the goods being offered.

MRWD Bids and Awards Committee

The MRWD assumes no responsibility whatsoever to compensate or indemnify bidders for any expenses incurred in the preparation of the bid. The MRWD also reserves the right to accept or reject any bid, to declare the bidding a failure, not to award the contract, without thereby incurring any liability to the affected bidders. Furthermore, the MRWD reserves the right to waive any minor defects or informality and to accept the proposal most advantageous to the District.

All bidders are requested to download in the Philippine Government Electronic Procurement System (PhilGEPS) the invitation to bid and the bidding documents, in compliance with Specific 37.1.6 of the Revised Implementing Rules and Regulations (IRR) of R.A. No. 9184 for the posting of Notice of Award.

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ATTY. DANTE A. ARC.
Chairperson

NGELES

Address: Metro Roxas Water District

MRWD Bldg., Km. 1, Roxas City, Capiz

Contact Person: Marjorie A. Dela Cruz

Head, BAC Secretariat
Tel. No. (036) 6210-737 or 6210-044 Local No. 125
TeleFax No. (036) 6217-492; 6217-382
Email Address: marjorie delacruz@metroroxaswd.gov.ph

Place(s) of Publication: PhilGEPS and MRWD Website (http://metroroxaswd.gov.ph) and BAC Bulletin Board

Republic of the Philippines METRO ROXAS WATER DISTRICT MRWD Bldg., Km. 1, Roxas City 5800, Philippines

## **BIDS & AWARDS COMMITTEE**

**Checklist of Requirements for Bidders** 

ELIGIBILITY & TECHNICAL REQUIREMENTS (TECHNICAL ENVELOPE), AND FINANCIAL REQUIREMENTS (FINANCIAL ENVELOPE) FOR THE PROCUREMENT OF GOODS IN ACCORDANCE TO THE REVISED IMPLEMENTING RULES AND REGULATIONS (IRR) OF R. A. 9184

Name of Project: Contract for the Supply and Delivery of Six Thousand (6,000)
Pieces of 1/2" Ø Multi-Jet Water Meter, Fifty (50) Pieces of 1"Ø
Water Meter, Twelve (12) Pieces of 2" Flowmeter, and Six (6)
Pieces of 4" Flowmeter

Approved Budget for the Contract: Php12,450,200.00

ABC for Lot 1 - P11,825,000.00 (6,000 Pieces of 1/2"Ø Multi-Jet Water Meter and 50 Pieces of 1"Ø Multi-Jet Water Meter)

ABC for Lot 2 - P625,200.00 (12 Pieces of 2" Flow Meter and 6 Pieces of 4" Flowmeter)

Pre-bid Conference: December 5, 2018 at 9:00 A.M.

Deadline for the Submission and Opening of Bids: December 19, 2018 at

9:00 A.M. (MRWD Bundy Clock)

Delivery Period: Within 90 Calendar Days from receipt of Contract, Purchase

Order and Notice to Proceed

Payment Period: Within 30 Calendar Days after Inspection and Final Acceptance

## First Envelope (Technical Proposal)

#### Note:

All Goods are grouped in lots. Bidders shall have the option of submitting a proposal on any or all lots. The evaluation and contract award shall be undertaken on a per lot basis. The determination of the Lowest Calculated Bidder (LCB) shall be on the total bid price per lot. Lots shall not be divided further into sub-lots for the purpose of bidding, evaluation, and contract award

### **ELIGIBILITY REQUIREMENTS:**

- Valid Registration Certificate from Security and Exchange Commission (SEC) for corporation and partnership; Department of Trade and Industry (DTI) for sole proprietorship; Cooperative Development Authority (CDA) for cooperatives; or any proof of registration with Articles of Incorporation, Partnership, whichever is applicable and appropriate including amendments thereto, under existing laws of the Philippines;
- 2. Valid Mayor's Permit/Municipal License issued by the city or municipality where the principal place of business of prospective bidder is located;
- **3.** Valid BIR Registration Certification which contains the Taxpayer's Identification Number;

**4.** Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid: and

Statement of the Bidder's single largest completed contract (SLCC) similar to the contract to be bid, in accordance with ITB Clause 5.4, within the relevant period as provided in the **BDS**. A bidder must have at least one (1) single largest contract equivalent to or at least fifty percent (50%) of the ABC for the last five (5) years which is similar in nature to the goods being offered:

The statement shall include, for each contract, the following:

- (1) name of the contract;
- (2) date of the contract;
- (3) contract duration;
- (4) owner's name and address;
- (5) kinds of Goods;
- (6) For Statement of Ongoing Contract amount of contract and value of outstanding contracts;
- (7) For Statement of SLCC amount of completed contracts, adjusted by the Bidder to current prices using PSA's consumer price index, if necessary for the purpose of meeting the SLCC requirement;
- (8) date of delivery; and
- (9) end user's acceptance or official receipt(s) or sales invoice issued for the contract, if completed, which shall be attached to the statements.

For the procurement of goods, a contract shall be considered "similar" to the contract to be bid if it involves Goods of the same nature and complexity as those, which are the subject of the public bidding concerned.

- 5. Audited financial statements, stamped "received" by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions, showing, among others, the prospective bidder's total and current assets and liabilities for the preceding calendar year, which should not be earlier than two (2) years from bid submission;
- 6. Net Financial Contracting Capacity (NFCC) computation which must be at least equal to the Approved Budget for the Contract (ABC) in accordance with ITB Clause 5.5 or a committed Line of Credit from a universal or commercial bank which must be at least equal to ten percent (10%) of the ABC;
  - 7. Valid Tax clearance per E.O. 398, s.2005, as finally reviewed and approved by the BIR (GPPB Res.21-203, 30 July 2013);
  - **8.** Valid PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with Section 37.1.4 of the IRR;
  - 9. If applicable, the JVA, in case the joint venture is already in existence, or duly notarized statements from all the potential joint venture partners in accordance with Section 23.1 (b) of the IRR;

### **Technical Requirements:**

10. Bid Security in accordance with ITB Clause 18. Bidders may submit the **Bid**Securing Declaration (BSD) or any bid security acceptable forms in the Bidding
Documents the amount of which shall be not less than the percentage of the ABC

in accordance with the following schedule:

Form of Bid Security	Amount of Bid Security (Equal to Percentage of the ABC)
Cash or cashier's/manager's check issued by a Universal or Commercial Bank;	Two percent (204) - Php240 004 00
Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank;	1-1 0 000 000
Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security;	Five percent (5%) = Php622,510.00 Lot 1 = Php591,250.00 Lot 2 = Php31,260.00

- Conformity with the technical specification as enumerated and Specified in Section VI (Schedule of Requirements) and Section VII (Technical Specifications) of the bidding documents;
- 12. Duly Notarized Omnibus Sworn Statement in accordance with Section 25.3 of the Revised IRR of RA 9184 and using the form prescribed in Section VIII. Bidding Forms;
- 13. Duly Notarized Authority of the Signatory:
  - a.) For Sole Proprietorship- "Special Power of Attorney" issued by the proprietor granting full power and authority to do, execute and perform any and all acts necessary for the bidding at hand;
  - b.) For Corporation, Cooperative, or Joint Venture-"Secretary's Certificate" issued by the Corporate Secretary indicating the Board Resolution No., if any, granting full power and authority to do, execute and perform any and all acts necessary for the bidding at hand; or
  - c.) For Partnership a "Joint Special Power of Attorney (SPA)" issued by concerned Partners granting full power and authority to do, execute and perform any and all acts necessary for the bidding at hand.
- **14.** Duly signed Production/ Delivery schedule indicating its commitment to deliver the Goods within 90 calendar days from receipt of Contract, Purchase Order and Notice to Proceed;
- 15. Duly signed Technical Offer with the following complete data: item number, unit, item description, quantity, remarks (Complying or noncomplying), reference/brand/manufacturer's name of the offered goods, printed name and signature of the authorized signatory and its designation;
- **16.** Brochure and Shop Drawings of the offered 1/2"Ø & 1"Ø Multi-jet Water Meter; 2" & 4" Flow Meter.
- 17. Duly signed warranty certificate that the water meter is built with a life expectancy of not less than five (5) years written in English;
- **18.** Certificate of after-sales service and availability of spare parts within five (5) years from receipt of the Notice to Proceed;

- 19. Blown-away/exploded drawing of the multi-jet water meter  $(1/2" \emptyset)$  with corresponding part number and price list for each part;
- 20. Permit to operate as Manufacturer of the Goods being offered or in case of Dealer/Distributor, Dealership/Distributorship Certificate issued by the Manufacturer of the Goods being offered with contact number and contact person written in English;
- 21. Valid ISO Certificates;
  - a.) ISO 9001 Quality Management System;
  - b.) ISO 4064 Product License Certificate;
- 22. Metrological Approval Test Certificates OIML R49/2006 International Organization of Legal Metrology.
- 23. (For Lot 1 1/2"Ø only) Calibration Certificate issued by any of the following: Local Water Utilities Administration (LWUA), MAYNILAD or Manila Water;
- 24. (For Lot 1 1/2"Ø only) Five (5) units of ½" multi-jet water meter sample with the same water meter serial numbers in the submitted calibration certificate in item no. 23;
- 25. Certification from the bidder stating the fact that it has no delinquent delivery to Metro Roxas Water District until the bid opening;
- 26. For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos, a certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item or product.

# Second Envelope (Financial Proposal)

- 1. Duly signed Financial Proposal Form with the following data:
  - Supplier's/ Company's name;
  - 2. Address of the company or office address;
  - 3. Date;
  - 4. Unit Price for each item;
  - 5. Total Price per item;
  - 6. Total Bid Proposal in figure;
  - 7. Amount in words of the Total Bid Financial Proposal;
  - 8. Supplier's name
  - 9. Supplier's signature over printed name
  - 10. Designation in the company of the signatory;
  - 11. Tax Identification Number (TIN)
  - 12. Date signed; and Telephone or Fax No.
- 2. Duly signed Bid Form.

#### Note:

1. The Checklist of Requirements for Bidders shall form part of the bidding documents. Any discrepancy among the list of requirements indicated in Section II

- of the bidding documents and the Checklist of Requirements for Bidder's, the latter shall prevail.
- 2. Participating bidders are required to use/follow the prescribed forms issued upon purchase of the bidding documents.
- 3. Bidders must submit one (1) original copy and three (3) certified copies by the bidder or its duly authorized representative/s for each of the required documents.
- 4. The submitted bid financial proposal shall be on a per lot basis. Each lot is required to have separate financial bid proposal.

For the information and guidance of all concerned.

Approved by:

ATTY. DANTE A ARCANGELES

Charperson

Bids and Awards Committee

Department: Section:		Engineering						PR No:	18-	11	-34
Sect ion	:	Const. & Maint. Div	vision					Date:	NOT.	0.	2010
Stock Number	Unit		Item	Desc	rip	tion		QNTY	EST.	E	ST. TOT
1	pcs.	Multi-Jet Water M	eter ½"Ø			· · · · · · · · · · · · · · · · · · ·				1	
		1.)SPECIFICATION:	S:		••••••••••••••	1		6,000	1,900.00	1	1,400,000.
		a.)Type :						<u></u>			
		b.)Transmission:				Multi-Jet/Velocity, CI	ass B.				
		c.)Accuracy:				Magnetic-Direct.					
		d.)Installation Set-up	 D:			Horizontal (98% to 102	***************				
		e.)Body:				Horizontically Up-righ	*************	<u>.</u>			
						made of brass includ		over assemb	ly with		
		f.)Filter/Strainer:	***************************************			threaded connection		<u> </u>			
		g.)Magnetic Protec	tion			Made of high density					
			11011			(measuring chamber,				1	
		h.lMeter must be pr	ovide de la la			and register/pressure	chambe	r must be mo	ade of engi	neeri	na plasti
	**********	militari in	ovided with A	nti-Tampe	ring ac	cessories such as: wate	er mete	r seal/			ig piasii
		i) Two (2) tailpings				protector, plastic le	ns and	the like.	••••••		
***************		ii) 140 (2) Tailpieces	with gasket sl	hall be pro	vided p	per water meter ( tail p	ieces				
	***********					should be of the san	ne mat	erial with th	e body to	whe	re
	2	?.)FEATURES:				it is connected.					
							THE	07919	CEBTH	- a	
		a. Only one movin	ng part-the in	peller in co	ontact		ITEM	SISTO STATED	ADDIVE A	75.1	THAT T
		b. Wide selection	of dial config	uration			INTHE	APP 2019	ADUNCAL PILO	KE.II	ICLUDI
		c. Parts of water m	neter insert m	ust be repo	airable				AL THIS	Dun	LE.
		a. spare parts stipu	ulated in the	exploded v	iew m	ust be available.	***************************************		1	ROA	ND NE
		e. Water meter rec	ding can be	re-set mar	nually.		***********	( , ), , , ,	1. 11	100	130/18
	3.	)WORKING COND						SPALMATIR	A VITO		100/18
		a. Max. working pr		/150 500				ISING PROCL			R
		b. Max working to	essure : 10 Do	r (150 PSI)							
		b. Max. working ter	inperature : 5	0 degrees	centigr	ate (°C)		7		••••••	***************************************
	4	IDILATION OF THE	dude of brass	including if	s cove	r assembly.			1		***************************************
	4.	DIMENSIONS:	***************************************								
		a. Length with two	(2) tail piece:	265mm- 38	30mm	1					
					TOTAL>	>>>>>>>					
pose:			Installati	on of now						11,40	00.000.00
				on or new s		connection and chan		er.			
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ature:		ENGR. RIANN B. BRILLO	Recommending	ofor Approv		Noted By:	1	pproved by:			
e:	3	Supervising Engineer - A		Manager - B	N	OIC - Dept. Mingr Ling's ar	R	ENGR. GONZ	ALO GLEN B.	DELGA	DO
gnation:				1		Tring of the state		Gen	neral Manager		

Annex A = 4

Department:		Engineering	PR No:	18-11-370		
Section:		Const. & Maint. Division	Date:	NOV. 8,7018		
Stock Number	Unit	Item Description	QNTY	EST. UNIT COST	EST. TOTAL COST	
		5.)PERFORMANCE DATA:				
		a.)Qmax (max. flow rate) : 3 cubic meter/hr.				
		b.)Qn (normal flow rate) : 1.5 cubic meter/hr.				
		c.)Qt (transitional flow rate) :120 li/hr.				
		d.)Qmin. (minimum flow rate) : 30 li/hr.				
		e.)Accuracy bet. Qmax and Qt : ±2%				
		f.)Accuracy bet. Qt and Qmin. : ±5%				
	g.)Head loss @ Qmax. : 1 Bar/15psi					
		h.)Minimum register capacity : 0.1 liter				
		i.) Register capacity: at least 10, 000 cubic meter				
		6.)MARKING ON WATER METER:				
		a.)Meter Maker/Brand				
		b.)MRWD Name and serial number shall be deeply engraved;				
		c.)Flow direction and maximum flowrate shall be permanently embossed on body	casing.			
		7.)FLOW RATE ACCURACY:				
		a.)Nominal Flow, 1500li./hr = 98% - 102% efficiency				
		b.)Transitional Flow, 120li./hr. = 98% - 102% efficiency				
		c.)Minimum Flow, 30li./hr. = 95% - 105% efficiency				
	*	TOTAL>>>>>>>			11,400,000.00	
Purpose	a :	Installation of new service connection and change	meter.		\	

	TOT	AL>>>>>>		A property of the state of the	11,400,000.00		
Purpose:	Installation of new service connection and change meter.  254.IV.F   1 06 08 110 L						
Signature: Name: Designation:	Requested by:  11/7/18  ENGR. RIANN B. BRILLO Supervising Engineer - A	Recommending for Approval:  ENGR. LIZALYN B BAYLON  Division Manager - B	Noted By:  ENGR. MANUEL B. SALAZAR  OIC- Dept. Mage- Engig and  Operation		GLEN B. DELGADO Manager		

Departm Section		Engineering  Const. & Maint. Div	rision				PR No: Date:	18-1	1-37
Stock Number	Unit			Descri	ption		QNTY	EST. UNIT COST	EST. TOT
1	pcs.	Multi-Jet Water Me	eter 1"Ø				- 50		
		1.)SPECIFICATIONS	S:				50	8,500.00	425,000.0
		a.)Type :			A4.11: 1.10.				
		b.)Transmission:	••••		Multi-Jet/Velocity				
		c.) Accuracy:			Magnetic-Direct.  Horizontal (98% to				
		d.)Installation Set-up	o:	······································	Horizontically Up-				
		e.)Body:				***********************	<u> </u>		
				***************************************	made of brass inc	ation	ver assembly	/ with	
		f.)Filter/Strainer:			Made of high den				
		g.)Magnetic Protect	tion		(measuring cham				
					and register/press				
		h.)Meter must be pro	ovided with An	i-Tampering o	and register/press accessories such as: w	vater meter	must be mo	de of engine	ering plasti
					protector plastic	- lane			
		i.) Two (2) tailpieces v	with gasket sha	Il be provided	d per water meter ( to	ail pieces	irie iike.		
					should be of the		erial with the	a body to	
					it is connected.		7101 1111111111111111111111111111111111	s Dody 10 w	nere
	2	2.)FEATURES:							
		a. Only one movin b. Wide selection of c. Parts of water m	of dial configur neter insert mus	ation t be repairabl	e and replaceable	IN THE AL	TATED ABO	RTIEV I VEAKEIN LHIS DEFI	IHAI THE ICLUDED ICE. BUQUET 7
		d. Spare parts stipu	Jated in the ex	ploded view	must be available.		Sulul	· · · · · · · · · · · · · · · · · · ·	BUATO I
		e. Water meter rec	ading can be re	-set manually	/.		SHAL MAH	B VITO	#
	3	MANORKING COMP			***************************************				-
		JANOKKING COND	ITIONS:			SUPER	wsing proc	UREMENT DE	FIEER 10
		.)WORKING COND a. Max. working pre		150 PSI)		SUPER	WSING PROC	UKEMENT DE	FIEEK 10
		a. Max. working pro b. Max. working ter	essure : 10 bar   mperature : 50	degrees cent	iarate (°C)	SUPER	asina proc	UREMENT DE	FIEER 10
		a. Max. working pro b. Max. working ter	essure : 10 bar   mperature : 50	degrees cent	iarate (°C)	SUPER	asing proc	UREMENT DE	FIEELS 10
		a. Max. working pre	essure : 10 bar   mperature : 50	degrees cent	iarate (°C)	SUPE)	ASING PROC	UKEMENT DE	FIEER 10
		a. Max. working prob. Max. working ter c. Body: must be m DIMENSIONS:	essure : 10 bar   mperature : 50 nade of brass in	degrees cent cluding its cov	igrate (°C) ver assembly.	SUPE\$₹	asing proc	UKEMENT DE	FIEER 10
		a. Max. working pre b. Max. working ter c. Body: must be m	essure : 10 bar   mperature : 50 nade of brass in	degrees cent cluding its cov 65mm- 420mn	igrate (°C) ver assembly.	SUPE\$	Asing proc	UKEMENT DE	FIGEN 10
		a. Max. working prob. Max. working ter c. Body: must be m DIMENSIONS:	essure : 10 bar   mperature : 50 nade of brass in	degrees cent cluding its cov 65mm- 420mn	igrate (°C) ver assembly.	SUPE \$	ASING PROC	UKEMENT DE	FIEER 10
Dose:		a. Max. working prob. Max. working ter c. Body: must be m DIMENSIONS:	essure : 10 bar   mperature : 50 nade of brass in (2) tail piece: 20	degrees cent cluding its con 65mm- 420mr TOTA	igrate (°C) ver assembly. m		ASING PROC	UKEMENT DE	
Pose:		a. Max. working prob. Max. working ter c. Body: must be m DIMENSIONS:	essure : 10 bar   mperature : 50 nade of brass in (2) tail piece: 20	degrees cent cluding its con 65mm- 420mr TOTA	igrate (°C) ver assembly. m (L>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	hange met	ASING PROC	UKEMENT DE	
pose;	4.	a. Max. working problem. Max. working termore. Body: must be maximus be maximus. DIMENSIONS:  a. Length with two leads to be a control of the	essure : 10 bar   mperature : 50 nade of brass in (2) tail piece: 20 Installation	degrees cent cluding its co 65mm- 420mn TOTA	igrate (°C) ver assembly. m NL>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	hange met	WSING PROC	UKEMENT DE	
	4.	a. Max. working problem. Max. working termore. Body: must be modern and problem. DIMENSIONS:  a. Length with two problems. Length with two problems.	essure: 10 bar mperature: 50 nade of brass in (2) tail piece: 20 Installation	degrees centiculating its consistency of the service of Approval:	igrate (°C) ver assembly. m (L>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	hange met	ASING PROC	UKEMENT DE	
oose:	4.	a. Max. working problem. Max. working termore. Body: must be maximus be maximus. DIMENSIONS:  a. Length with two leads to be a control of the	essure: 10 bar mperature: 50 made of brass in (2) tail piece: 20 material meteors and material meteors are material meteors.	degrees centiculating its con 65mm- 420mm TOTA n of new service or Approval:	igrate (°C) ver assembly.  n (L>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	hange met	WSING PROC	UKEMENT DE	
	4.	a. Max. working problem. Max. working terms. Body: must be more marked by the marked b	essure: 10 bar mperature: 50 nade of brass in (2) tail piece: 20 Installation	degrees centiculating its con 65mm- 420mm TOTA Tof new service or Approval:	igrate (°C) ver assembly. m NL>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	hange met	er.  ENGR. GONZ	ALO GLEN B. De	425,000.00

Annex A - 4

# PURCHASE REQUEST

				40 44	0 7A
Department:	Engineering		PR No:	18-11	-3 10
Section:	Const. & Maint. Division	Date:			
Stock Unit	Item Description		QNTY	EST. UNIT	EST. TOTAL COST
	5.)PERFORMANCE DATA:				
	a.)Qmax (max. flow rate) : 7 cubic meter/hr.				
	b.)Qn (normal flow rate): Min of 3.5 cubic meter/hr.				
	c.)Qt (transitional flow rate) :280 li/hr.				
	d.)Qmin. (minimum flow rate) : 70 li/hr.				
	e.)Accuracy bet. Qmax and Qt: ±2%				
	f.)Accuracy bet. Qt and Qmin. : ±5%				
	g.)Head loss @ Qmax. : 1 Bar/15psi				
	h.)Minimum register capacity : 0.1 liter				
	i.) Register capacity: at least 10,000 cubic meter	7.			
	6.)MARKING ON WATER METER:				
	a.)Meter Maker/Brand				
	b.)MRWD Name and serial number shall be deeply engraved	d;			
	c.)Flow direction and maximum flowrate shall be permanen	tly embossed on body	casing.		
	7.)FLOW RATE ACCURACY:				
	a.)Nominal Flow, 3500li./hr = 98% - 102% efficiency				
	b.)Transitional Flow, 280li./hr. = 98% - 102% efficiency				
	c.)Minimum Flow, 70li./hr. = 95% - 105% efficiency				
	TOTAL>>>>>>>				425,000.00
Purpose:	Installation of new service con	nection and change	e meter.		
	254.1\	1.F   10G 03 110L	•		. 14
			,		
Signature:	Requested by:  Recommending for Approval:  Noted  ENGR. LIZALYN B. BAYLON  NOTED	BV:	Approved		DELCASA
Name:		- Dept. Mngr - Eng'g and	ENGR.	General Manag	,
Designation:		Operation	1		-

### PURCHASE REQUEST METRO ROXAS WATER DISTRICT

epartmen	nt:	Engineering			PR No:	18-1	1-384
ection:		Const. & Maint. Division	on		Date:		
	Unit	I	tem Descript	ion	QNTY	EST. UNIT COST	EST. TOTAL
Number			FLOW METER 100mm				
		1 ICDECIEIC ATIONS				54,000.00	324,000.00
	рс	1.)SPECIFICATIONS:			0	34,000.00	324,000.00
		a.)Type :		Woltman			
		b.)Transmission:		Magnetic-Direct.			
		c.)Accuracy:		Horizontal (98% to 102%).			
		d.)Installation Set-up:		Horizontically Up-right.			***************************************
		e.)Body:		made of Cast Iron C.I., polys	ter coated		
		f.)Connection:		Flanged connection			
		2.)FEATURES:					•••••
		<u> </u>	g part which is in contact in th	e water propeller.			••••
		\$	of dial configuration				
		***************************************	neter must be repairable and r				
			ulated in the exploded view m	•••••••••••••••••••••••••••••••••••••••			
		e. Vacuum sealed	register in stainless steel glass	encapsulated.			
		3.)WORKING COND	DITIONS:				•••••
		a. Max. working pr	······································				•••••
		***************************************	emperature : 60 degrees centig	arate (°C)			***************************************
		·····	Cast Iron C.I., polyster coated	, , , , , , , , , , , , , , , , , , , ,			
					···		
		4.)PERFORMANCE	***************************************				
		·····	w rate) : 300cubic meter/hr.				
		**************************************	v rate) : 230 cubic meter/hr.				
		***************************************	n): 1.5 cubic meter/hr.				
		5.)MARKING ON WATE	***************************************				
		a.)Flow direction	n, flowrate and size can be	seen on the body.			
	·						
		6.)DIMENSIONS:					
		Size: 100mm					
		length: min of 2	***************************************				
		Width: min of 22					
		Height: min of 2	250mm				
							······
			TOTA	L>>>>>>>			324,000.00
		ADDITION 4	SL / CHANGE	METER FOIL F	115 4	YDRANT	*
ourpose:		200000		, )			
				254.IV.F 10G 03 110 L	-		
		Requested by:	Recommending for Approval:	Noted By:	Appreve	lby:	
				_ ~		81 St. (* 17)	
ignature:		11/13/18	( Cey )			CONTAIC	LB DELCAS
lame:		Supervising Engineer - A	ENGR. LIZALYN B. BAYLON Division Manager - B	OIC - Dept. Mager - Engig and	ENGR.	General Man	
	n.	Series and a serie	GIVISION IVIGINASEL - D	V	1		-
Designatio	J(1;				1 10	K.	
		1		THIS IS TO C	. A. H.	THAT TH	<b>l</b>
			,	ITEMS STATED AB	OVEARE	INCLUDED	
				14 247 . 249 OF	THIS OF	TILE- BU	DOET 2019
					1.1/	BO	1930/18
				SHAKE	MARIBO	VITO	1930/18

SHALMAHR B. VITO
SUPERVISING PROCUREMENT OFFICER

Annex A - 4

Departme Section:		Engineering			PR No: Date:	18-1	1-384
Stock	Unit	Const. & Maint. Division	tem Descrip	tion	QNTY	EST. UNIT COST	EST. TOTAL
Number			FLOW METER 50mn	n			
1		1 ISDECIEIC ATIONS:			12	25 100 00	301,200.00
	рс	1.)SPECIFICATIONS:			12	25,100.00	
		a.)Type:		Woltman			
		b.)Transmission:		Magnetic-Direct.			
		c.) Accuracy:		Horizontal (98% to 102%).			
		d.)Installation Set-up:		Horizontically Up-right.			••••••••
		e.)Body:		made of Cast Iron C.I., poly	ster coatea		
		f.)Connection: 2.)FEATURES:		Flanged connection			
		<b>*************************************</b>	part which is in contact in	the water propeller			
		b. Wide selection o		ille water properler.			
			eter must be repairable and	d replaceable			
		***************************************	ated in the exploded view				
		***************************************	register in stainless steel gla				
		e. vacoom sealed	egister itt statt ness steet gra	33 eneap301a1ea.			
		3.)WORKING CONDI	TIONS:				
		a. Max. working pre	essure : 16 bar				
		b. Max. working ter	nperature : 60 degrees cer	ntigrate (°C)			
		c. Body: Made of C	ast Iron C.I., polyster coate	d			
		4.)PERFORMANCE D	ATA:				
		4i	rate): 100cubic meter/hr.				
		b.)Qn (normal flow	rate) : 50 cubic meter/hr.				
		c.)Qmin (minimum)	: 0.45 cubic meter/hr.				
		5.)MARKING ON WATE	R METER:				
		a.)Flow direction,	flowrate and size can b	oe seen on the body.			
	*	6.)DIMENSIONS:					
		Size: 50mm					
		length: min of 20	00mm				
• · · · · · · · · · · · · · · · · · · ·		Width: min of 16	***************************************				
*************		Height: min of 21	4mm				
•••••							
			TO	TAL>>>>>			301,200.00
Purpose	e:	JANOTH UDA	- CHANGE MA	TER FOR FILE 6 254.IV.F   106.08 110		1	
		Requested by:	Recommending for Approval:	Noted By:	Approve	d by:	
Signature	e:	11/13/18	Qui				
		ENGR.RIANN B. BRILLO	ENGR. LIZALYN B. BAYLON	OIC - Dept. Mngr Eng'g and	ENGR.	General Man	
Name:		Supervising Engineer - A	Division Manager - B	Old - Dept. Wingreeting g and	1	Generalivian	agei
Designat	ion:			THIS IS TO CER ITEMS STATED ABOU IN THE APP 2011 OF TH	TIPY THE AREING	ATTHE CLUDED CE. BUDGE	T 2019
				ITEMS STATED ABOUT IN THE APP 2014 OF THE STATED ABOUT SHALMAHI SHALMAHI SUPER ILSING PROC	A B VITO	BOAM. IO FICER	30/18