

Republic of the Philippines GENERAL SANTOS CITY WATER DISTRICT

E. Fernandez St., Brgy. Lagao, General Santos City

PURCHASE OF 4,000 PIECES 15 MM DN MULTI-JET BRASS WATER METER

Project Title:

Purchase of Four Thousand (4,000) pieces 15 mm DN multi-jet brass water meter.

ABC:

Php 10,000,000.00

Owner:

General Santos City Water District

Scope of Work:

The scope of work shall be the supply, delivery and testing of water meters to

General Santos City Water District.

A.	NOMINAL DIAMETER	15 MM	STATEMENT OF COMPLIANCE
B.	METER TYPE	Multi-Jet, Velocity Type	
c.	METROLOGICAL CLASS	"B" or equivalent to its latest edition	
D.	METER BODY	Copper alloy containing not less than 57% copper.	
	METER DESIGN	Flow is bi-directional (no non-return valve at outlet portion)	
		Meter registry is irreversible	
		Hermetically sealed register and it must be encapsulated to prevent moisture from entering. It must be anti-magnetic container made of Copper Tin Can with not less than 99.0% Copper.	
		Anti-magnetic type	
		Glass assembly cover thickness is ≥5mm.	
E		Only impeller is in contact with the water to prevent wear and tear of the inner mechanism.	
		Meter capacity should be placed preceded by the letter "N" or Qn or as defined by ISO 4064 equivalent edition	
		Meter Register in Cubic Meters, minimum of four (4) digit registration.	
		It has an anti-theft and tampering mechanism in order to prevent	
		and easily identify any meter fraud attempt. It shall have a	
		component or feature aside from the meter seal which cannot be	
		disassembled without breaking it.	
		Length without tailpieces = 165mm with ± 5mm tolerance	
		Tailpiece length = 75 mm with ±5mm tolerance, 2 pcs	
F.	DIMENSION	Width of 75mm to 90mm	
		Height of 100mm to 120mm (meter cap in closed position)	
-		Weight without tailpiece = 0.87 kg to 1.1 kg	
	WORKING CONDITION	Maximum Working Pressure: ≤16 bars	
G.		Water Temperature: The meter can work without deterioration on	
		temperature at local climate	
		Minimum Flowrate (Qmin) = 0.03 m ³ /h; ±5 %	
	METROLOGICAL CHARACTERISTICS (MINIMUM PERFORMANCE)	Transitional Flowrate (Qt) = 0.12 m³/h; ±2 %	
Н.		Maximum Flowrate (Qmax) = 3.0 m ³ /h; ±2 %	
п,		Nominal Flowrate (Qn) = 1.5 m ³ /h; ±2 %	
		Note: Application of flowrates during testing will be based on its Metrological Class	
	-	a.) The bidders are required to submit ten (10) water meters all	
		with tailpiece per model/brand. Eight (8) water meters will be	
1.	EFFICIENCY TEST	tested for Efficiency Test using GSCWD Test Bench at Transitional and Minimum Flow. The ninth water meter shall be a cut-out model	

		b.) The ten (10) water meter is part of the pass/fail criterion. All water meters presented must have tailpieces. If ever the bidder is not able to present the water meters on the Deadline for Submission of bids, they shall be declared failed in the said criteria and the other requisite requirements.	
,		c.) At least six (6) out of eight (8) water meters submitted for Efficiency Test using GSCWD Test Bench shall pass all testing at Transitional and Minimum flows.	
		d.) The GSCWD test bench shall be the official measuring equipment to be used for Efficiency Test at Transitional and Minimum Flow. The said testing shall undergo once only, thus	
		results are final.	
J.	STRAINER SCREEN	Meter fitted with strainer on inlet to protect against dirt.	
K.	METER SEAL	Steel cable or stainless-steel wire (plastic coated) with GSCWD marking or any kind of tamper proof meter seal design by the manufacturer. Lead meter seal is not acceptable.	
L.	BIDDERS QUALIFICATION	Bidder shall be an authorized dealer / reseller of the offered product for after sales and support.	

	ADDITIONAL REQU		
	METER BODY MARKINGS	Flow Direction Arrow	
		Meter Size: 15mm	
		Marked with laser print "GSCWD" inside the register dial printed in	
A.		Bold and all written in Capital Letters.	
		Also, serial numbers shall be engraved or embossed on the side of	
		the body and on the top of the upper body casing.	
	SERIAL NUMBERING	Shall be provided by GSCWD which shall be unique or no duplication	
		in every meter. Minimum of six (6) digits and shall be engraved or	
B.		embossed in block type by the supplier. Shall be permanent and	
		only one serial number will appear on the external top surface of	
		the register box ring.	
C.	PAINTING	Automotive finished; Blue	
		All water meters shall be guaranteed against defects in	
		workmanship and material contents. The winning bidder shall	
D.	WARRANTY	guarantee to replace defective water meters within three (3) year	
U.		from the date of delivery. For verification purposes, GSCWD	
		technician shall also be allowed to open a reported malfunctioning	
		water meter, without effect on the three year warranty.	
	OTHER PACKAGE	With plastic end cap installed to both meter body thread ends.	
		Each meter individually packed in a small box containing 2 threaded	
		tailpieces and 2 rubber gasket that fitted to its outlet design of the	
		manufacturer.	
E.		Also, the winning bidder shall provide additional 1,600 pcs rubber	
		gaskets and an additional 1,600 pcs tailpieces.	
		It shall be packed by 10's per batch with the meter serial numbers	
		indicated in four sides of the external portion of carton/box.	
		The tailpieces shall be of the same material composition as the	
		meter body.	
	CERTIFICATION / COMPLIANCE	A Certified True Copy, signed by the manufacturer, of the following	
		certificates duly authenticated by the Consul shall be provided and	
		presented by the winning bidder during Post-Qualification.	
F.		a.) Certificate of Compliance for ISO 4064 or OIML R49	
г.		b.) Certificate of Registration for ISO 14001 or WRAS (Water	
		Regulations Approval Scheme)	
	THE STREET, ST	c) MID (Measuring Instruments Directive) or FII Type	and the same of th

		Also, a Certified True Copy of Patent Test Certificate from an	
		independent body, authenticated by the Philippine Consulate shall	
		be provided and presented by the bidder during Post-Qualification.	
		Test Results or Certification from any Philippine government	
		authorized material testing laboratory like DOST, MIRDC or any	
		authorized government agency shall be submitted by the winning	
		bidder to GSCWD in compliance with Section D and E in the General	
		Requirement.	
		Schedule of delivery:	
G.	TERMS OF	4,000 pcs 15mm Multi-jet Brass Water Meter Complete Sets	And the second
О.	DELIVERY	90 Calendar Days upon receipt of Purchase Order.	
	DELIVERI	(One-time delivery)	
		One percent (1%) of the total quantity shall undergo random water	
		meter test in Meter Testing Laboratory. The winning bidder shall	
		pay the corresponding cost of testing.	
		If twenty percent (20%) of the total number of water meters tested	
		Failed the efficiency test, the procuring Entity (GSCWD) shall have	
		the option to rescind or cancel the contract.	
		Also, one (1) water meter shall undergo copper content testing in	
		compliance with Section D and E in the General Requirements is	
		require to the winning bidder.	
		Random water meter testing shall be witnessed by five (5) GSCWD	
		representatives. All costs such as transportation, hotel	
		accommodation, meals, allowances and other related expenses	
		shall be borne by the winning supplier. Testing shall be completed	
		in two (2) days for each testing of water meters excluding travel	
		period.	
		There shall be a representative from the winning bidder during	
		random testing.	
		The water meters shall be randomly tested for accuracy in a Water	
		Meter Laboratory for Transitional and Minimum flow rates. These	
н.	OTHER REQUIREMENTS	flow rates shall be the basis for the meter to PASS or FAIL in the	
11.		Accuracy Test.	
		After Delivery: All water meters delivered shall be subjected to	
		accuracy test at GSCWD water meter laboratory. All cost related to	
		the return of failed water meters and its replacement shall be borne	
		by the supplier.	1
		Winning bidder must provide two (2) sets of special tools in	
		dismantling the water meters.	

Prepared by:

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