

Republic of the Philippines

GENERAL SANTOS CITY WATER DISTRICT (GSCWD)

GSCWD Bldg., E. Fernandez Street (Emergency Road), Lagao, General Santos City Telephone No.: 552-3824/554-7231; Telefax No.: 553-4960 E-mail Address: gscwaterdistrict@yahoo.com

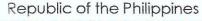
TECHNICAL SPECIFICATION

TITLE: PURCHASE OF ASSORTED SIZES OF ELECTROMAGNETIC FLOWMETER

1.0 SCOPE OF CONTRACT

The scope shall be supply, testing, delivery and commissioning of Three (3) sets assorted brand new Electromagnetic Flowmeter to General Santos City Water District (GSCWD).

Particulars	Requirements		
	Set 1	Set 2	
SIZE mm	250	200	
(inches) Number of Units	(10) 1	(8)	
ТҮРЕ	Electromagnetic Flow meter	Electromagnetic Flow meter	
BORE	Full Bore	Full Bore	
POWER SUPPLY	115 - 230 VAC	115 - 230 VAC	
MEASUREMENTS	Direct / Inverse Flow	Direct / Inverse Flow	
Qmax m³/hr	600	400	
Q nominal m³/hr	450	280	
Q Transitional m³/hr	13	8	
Qmin m³/hr	8	5	
CABLE	20 meters w/ complete accessories	20 meters w/ complete accessories	
CONNECTION	Flanged Type, PN16	Flanged Type, PN 16	





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LINING	Hard Rubber for Potable Water	Hard Rubber for Potable Water
RATING	IP 67/NEMA 6	IP 67/NEMA 6

TERMS AND CONDITIONS

- 1. The scope of work shall be supply, testing, delivery and commissioning of Three (3) sets assorted brand new electromagnetic flowmeter to General Santos City Water District (GSCWD).
- 2. The **electromagnetic flowmeter** shall be tested in a laboratory determined by GSCWD before delivery to ensure conformance with the design parameters. The cost of the laboratory testing shall be borne entirely by the winning bidder.
- 3. The winning bidder is required to submit actual documents (manuals, data sheets, manufacturer's test results, name plate specifications, Manufacturers Authorization Certificate and etc.) of the unit that is to be tested prior to the scheduling of laboratory testing.
- 4. The flowmeter shall be tested for accuracy in a laboratory for maximum, minimum, nominal, and transitional flow rates. The result shall be the basis for the flowmeter to PASS or FAIL in the accuracy test.
 Max permitted error:

From Qmin to $Qt = \pm 5\%$ From Qt to $Qmax = \pm 2\%$

- 5. Laboratory testing shall be witnessed by four (4) GSCWD representatives together with the winning bidder's representatives for three (3) days. All relevant and incidental cost (Testing fee, transportation, accommodation, allowances and etc.) in the testing of the equipment shall be shouldered by the winning bidder.
- 6. In case the unit to be tested is different from the submitted documents and/or do not comply with the specifications set by GSCWD, laboratory testing shall not be conducted.

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- 7. In case the unit failed to pass the testing requirements during laboratory testing, the winning bidder shall replace the unit subject to another laboratory testing without cost to GSCWD.
- 8. That during the installation and commissioning of the unit, the winning bidder shall be required to send a technician responsible of commissioning. All relevant and incidental cost (transportation, accommodation, allowances and etc.) in the commissioning of the equipment shall be shouldered by the winning bidder.
- 9. Field testing shall be made once the unit is ready for operation and when both the GSCWD and winning bidder have finished their scopes of work on the installed unit. GSCWD engineers shall conduct field testing with the presence of winning bidder's representative. Flowmeter must meet the testing requirements in terms of efficiency. In case the unit failed to pass the field testing, the winning bidder shall make necessary corrections / changes to replace the unit without cost to GSCWD.
- 10. The winning bidder shall deliver the three (3) sets **brand new electromagnetic flowmeter**, within **Ninety (90)** calendar days upon receipt of Purchase Order (PO). Laboratory testing is included in the 90- calendar day's delivery period.
- **11.** The winning bidder shall be subjected to Liquidated Damages (LD) for each day of delay as provided by the IRR of RA 9184.
- 12. That the winning bidder shall issue a warranty certificate of not less than one (1) year and the warranty shall commence from the date of commissioning of the pumping equipment. That the bidder must have an available qualified and trained technicians 24/7 in case of equipment failure.

Prepared by:

EDMUND L. BADAL, REE

TWG - Member

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General Manager A