



## TECHNICAL SPECIFICATION

**TITLE: PURCHASE OF FULL BORE ELECTROMAGNETIC FLOWMETER**

### 1.0 SCOPE OF CONTRACT

The scope shall be supply, testing, delivery and commissioning of Two (2) sets brand new Full Bore Electromagnetic Flowmeter to General Santos City Water District (GSCWD).

Particulars	Requirements	Statement of Compliance
SIZE mm (inches)	200 (8)	
Number Of Unit	2	
Type	Electromagnetic Flow meter	
Power Supply	85 - 265 Vac, 24Vac / 24Vdc	
Measurements	Direct / Inverse Flow	
Qmax (m <sup>3</sup> /hr)	400 to 1250	
Qnominal (m <sup>3</sup> /hr)	280 to 1000	
QTransitional (m <sup>3</sup> /hr)	6 to 8.5	
Qmin (m <sup>3</sup> /hr)	4 to 5.5	
Cable	20 meters w/ complete accessories	
Connection	Flanged Type, PN 16	
Lining	Hard Rubber for Potable Water	
Rating	IP 67/NEMA 6	
Security	Read-only switch and ultra-secure service password	
Current Output	4 to 20 Ma	
Digital Outputs	Three (3) configurable pulse/ frequency and alarm outputs	



## TERMS AND CONDITIONS

Item No.	Requirements	Statement of Compliance
1	The scope of work shall be supply, testing, delivery and commissioning of brand new <b>Full Bore Electromagnetic Flowmeter</b> to General Santos City Water District (GSCWD).	
2	The new <b>Full Bore Electromagnetic Flowmeter</b> shall be compatible with the existing loggers used by GSCWD. No additional software and hardware needed for easy and friendly integration with the logger.	
3	All bidder is required to submit and include documents but not limited to <b>manuals, data sheets, name plate specifications, and Manufacturers Authorization Certificate specific to this project</b> in there bidding documents.	
4	The brand new <b>Full Bore Electromagnetic Flowmeter</b> shall be tested in a laboratory before delivery to ensure conformance with the design parameters. The cost of the laboratory testing shall be borne entirely by the winning bidder.	
5	The flowmeter shall be tested for accuracy in a laboratory for <b>maximum, minimum, nominal, and transitional flow rates</b> . The result shall be the basis for the flowmeter to <b>PASS</b> or <b>FAIL</b> in the accuracy test. Max permitted error: From $Q_{min}$ to $Q_t$ = $\pm 0.2\%$ to $\pm 0.4\%$ From $Q_t$ to $Q_{max}$ = $\pm 2\%$	
6	Laboratory testing shall be witnessed by three (3) 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.	
7	In case the unit/units failed to pass the testing requirements during laboratory testing, the winning bidder shall make necessary adjustment to correct and comply with the specifications set by GSCWD without additional cost to GSCWD.	
8	That during the installation and commissioning of the units, the winning bidder shall be required to send a technician responsible of commissioning the three units. All relevant and incidental cost (transportation, accommodation, allowances	





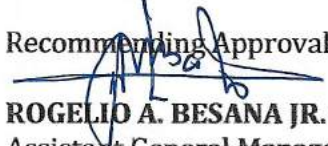
	and etc.) in the commissioning of the equipment shall be shouldered by the winning bidder.	
9	Field testing shall be made once the unit is ready for operation and when both the GSCWD and winning bidder have finished their scopes of work on the installed unit. GSCWD engineers shall conduct field testing with the presence of winning bidder's representative. Flowmeters must meet the testing requirements in terms of efficiency. In case the unit/units failed to pass the field testing, the winning bidder shall make necessary corrections / changes or replace the unit without cost to GSCWD.	
10	The winning bidder shall deliver the two (2) set brand new electromagnetic flowmeter, within Ninety (90) calendar days upon receipt of Purchase Order (PO). Laboratory testing is included in the 60- 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 unit. That the bidder must have an available qualified and trained technicians 24/7 in case of equipment failure.	

Prepared by:

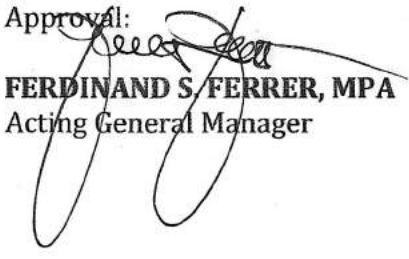
  
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