

PROJECT TITLE:

**PURCHASE OF SOLAR POWERED DATA LOGGER WITH POLE AND PANEL**

LOCATION:

**1. GENERAL SANTOS CITY**

OWNER:

**GENERAL SANTOS CITY WATER DISTRICT**

**TECHNICAL SPECIFICATIONS**

Item Description

1. The scope of work for this project of **supply, delivery and commissioning** of **10 unit** Solar Powered Data Logger with Pole and Panel
2. The project duration is **Ninety (90) Calendar Days** and shall commence after the receipt of Notice to Proceed.
3. The Approved Budget for this Contract is **One Million Three Hundred Thousand Pesos (1,300,000.00)**.

<u>SPECIFICATIONS</u>		<u>STATEMENT OF COMPLIANCE</u>
<b>Communications</b>	Programming and Downloading	Via USB
	Internal cellular modem	GPRS to manufacturer or user specified FTP site or modem, capable of multiple messages per day, capable of Roaming service
	Antenna	Internal Penta band optimised for very low signal sites
<b>Sensor Input</b>	Analogue	Internal Pressure Transducer with auto Zero facility
	Digital	One Bi-directional pulse input or two single Uni-directional pulse input. Up to 1000 Hz

*Paano Malatay, Paano Tugunat, Paano Pansin, Paano Panunat*



Republic of the Philippines  
**GENERAL SANTOS CITY WATER DISTRICT**  
 E. Fernandez St., Brgy. Lagao, General Santos City  
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 E-mail Address: gscwaterdistrict@yahoo.com  
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<b>Logging Features</b>	Recording Interval	At least capable of recording in 1 minute and 15 minutes interval	
	Memory	4GB, Recording can store approximate 1billion readings or better	
	Clock	Auto GSM clock correction	
	Alarms	Minimum or maximum threshold alarm per channel. alarms can be sent through SMS	
<b>Physical</b>	Operating temperature	0°C to 50°C or better	
	Protection Classification	IP68 submersible or better	
	Power Supply	Internally powered by a battery, minimum of 5 years under normal operating conditions with high capacity battery or better	
<b>Special features</b>	Included software must be capable but not limited to the following:	Must have Application Programming Interface (API)	
		Graphical presentation of data	
		Logged data values from previous days of recording	
	The logger is capable but not limited to the following:	Signal strength test	
		Logger can be configure in database/software	
		Export data to Excel	
	Remote requesting of data on define periods of time		
	Secondary logging to allow analysis for shorter logging interval and to be reported remotely		
<b>Additional Features</b>	Number of Channels	2 Channels (1x Internal Pressure , 1x Digital Flow)	
		SIM card can be installed without opening the main electronic to protect the IP68 integrity.	

*Safe Water. New Threat. New Solution. New Commitment.*






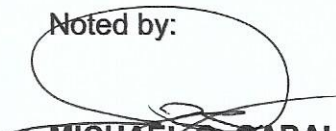
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<b>Standard accessories and Additional Requirements</b> (Compliance upon delivery)	<ol style="list-style-type: none"> <li>1. Must include necessary fittings</li> <li>2. Flow Bare wire Cable</li> <li>3. Communication cable</li> <li>4. 1 year free data service</li> <li>5. Solar Set (Battery, Panel, Converter, and other accessories)</li> <li>6. Power Cable Connector</li> <li>7. Panel Box</li> </ol>	
<b>Additional Requirements</b> (To be submitted during the opening of bids)	<ol style="list-style-type: none"> <li>1. Must submit original or computer-generated catalog/brochure.</li> <li>2. The manufacturer should have 9001:2008 certificates or its updated versions</li> <li>3. Manufacturer should have ISO 27001 certificate for Information Security Management System</li> <li>4. Supplier should have a Type Approval Certificate from NTC.</li> <li>5. Must provide Data Logger Manual.</li> <li>6. Minimum one (1) year manufacturer's warranty.</li> </ol>	
<b>Testing and Software Compatibility</b> (Compliance upon delivery)	In the presence of owner, the necessary field testing are conducted by a qualified technician of the supplier such as installation, commissioning and operation of data logger before acceptance of goods. The data logger must also be compatible with the existing flow meters.	

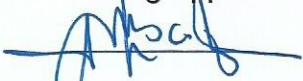
Prepared by:

  
**JOHN REY M. CAWIT, MPA**  
 TWG- Member

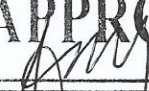
Noted by:

  
**MICHAEL G. GABALES, REE**  
 TWG- Head

Recommending Approval:

  
**ROGELIO A. BESANA, JR., CE, RMP**  
 OTS- Asst. General Manager A

**APPROVED**

  
**FRANCISCO R. ALOLOD, JR., CPA, CESE**  
 Acting General Manager

*Pala Malatay. Nuu. Tbuuat. Nuu. Pannua. Nuu. Pannituaat*



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Approved by:

  
**FRANCISCO R. ALOLOD, JR., CPA, CESE**  
Acting General Manager

*Roba Matalay. Duv. Tkanat. Duv. Cawisa. Duv. Cammitment*