



Republic of the Philippines
GENERAL SANTOS CITY WATER DISTRICT
E. Fernandez St., Brgy. Lagao, General Santos City
Telephone No. (083) 552-3824/ Telefax No. (083) 553-4960
E-mail Address: gscwaterdistrict@yahoo.com
www.gensanwater.gov.ph

PROJECT TITLE:

PURCHASE OF PRESSURE REDUCING VALVE CONTROLLER

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 **2 units** Pressure Reducing Valve Controller
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 Four Hundred Thousand Pesos (1,400,000.00)**.

TECHNICAL SPECIFICATIONS

ITEM		SPECIFICATION	STATEMENT OF COMPLIANCE
LTE-M & NBloT - enabled Pressure Control System			
Sensor Input			
2x Analog Inputs	:	Internal Pressure Transducer, External Pressure 4-20mA (Optional), 0-20 bar / 0-200meters head / 0-300psig, 0.1% repeatability	
2X Digital	:	2x Uni or Bi-rectional Pulse, Count or Event Logging modes	
Hydraulic			

Paala Matatag, Duma, Tugma, Duma, Pansin, Duma, Pansin



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3x Solenoid Output	:	1x Latching Solenoid, to vent or close the top PRV chamber	
	:	2x Pulsed Solenoid outputs, up/down control battery depletion	
	:	Safe level and alerts set to protect	
Controlling Features			
Timed Based	:	Up to 96 table entries for 7 individual days per week or setting based on Week Days or Weekends. Calendar special event table also available	
Flow Based	:	Flow based control or Flow override option	
Fail Safe	:	Default Fail Safe can be configured to "Set" or "Release" the latching solenoid upon error (e.g. faulty sensor/flow) or revert to time profiles if flow fails or revert to fixed pressure (operator selected)	
Clock	:	Clock is programmable for seasonal time changes	
Closed Loop	:	Optional closed loop control automatically modulating pressure from remote critical point data	
Combination	:	Combination of both Time and Flow based with different settings per day	
Latching Solenoid	:	A function to fully open or close the PRV top chamber in tight headloss or network fault conditions	
Communications			
Mobile	:	Cellular modem supporting 2G/3G/4G/NB-IoT/LTE-M(CAT-1)	
Serial	:	RS232 or USB Interface for programming and integration with PC/Laptop or Windows Tablet using Software, programmable up to 19,200 b.p.s	
Logger Features			
Frequency	:	Variable logger rate from 1s to 24 hours	
Logger/Site ID	:	7 alphanumeric characters, readable factory set serial number in firmware	

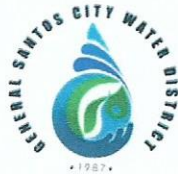
Paala Matatag, Duma, Tumpat, Duma, Cawina, Duma, Pambituan



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Ingress Protection	:	IP68 fully submersible	
Constructions	:	Aluminum alloy casing	
Operating Temperature	:	-20 to 60 deg Celsius	
Power	:	Lithium-thionyl chloride cell operational for 5 years under typical operating conditions	
Alarm	:	Multiple alarm options including Rate of Change, Profile, Minimum Night Flow and Threshold. 16 alarms per logger. Can be programmed to auto dial up to 8 telephone number on alarms	
Memory	:	Primary Recording 179,760 readings (Cyclic or Block)	
Transient Logging	:	High speed logging to 25Hz to identify network transient events	
Accessories (Compliance upon Delivery)			
1. Hydraulic Actuator			
2. Installation kit including hose and quick connect fittings.			
3. Digital Flow Cable (open-ended)			
4. External Battery Pack for PRV Controller with 10-pin Military Connector.			
5. Critical Point Logger			
6. Pressure Hose and Quick Connect Coupling for Critical Point Logger			
7. External Battery for Critical Point Logger with 4-pin Military Connector.			
Additional Requirements for the Winning Bidder			
1. Must submit Application Programming Interface (API) (<i>Compliance upon delivery</i>)			
2. The supplier must be the authorized distributor of the prv controller.			
3. The supplier must have an authority to bid from the manufacturer.			
4. Minimum manufacturer's warranty of 1 year (<i>Compliance upon delivery</i>)			
5. In the presence of the owner, the necessary field testing are conducted by a qualified technician of the supplier such as installation and operation of the flow meter before acceptance of goods. (<i>Compliance upon delivery</i>)			

Saka Wataw. Nuw. Tawaw. Nuw. Pawanin. Nuw. Pawanitawaw



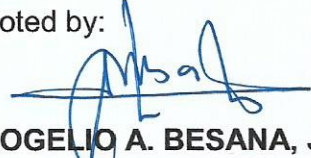
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Saka Malaya, Nuu, Tannat, Nuu, Sannia, Nuu, Pannitnaut