


Data Logger Specifications

<u>SPECIFICATIONS</u>		
Communications	Programming and Downloading	Via USB/RS232/RS485
	Internal cellular modem	GPRS to manufacturer or user specified FTP site or modem, capable of multiple messages per day, capable of Roaming service
	Antenna	Penta band internal optimised for very low signal sites
Sensor Input	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
Logging Features	Recording Interval	At least capable of recording in 1 minute and 15 minutes interval
	Memory	4GB, Recording can store approximate 1 billion readings or better
	Clock	Auto GSM clock correction
	Alarms	Minimum or maximum threshold alarm per channel. alarms can be sent through SMS
Physical	Operating temperature	0°C to 50°C or better
	Protection Classification	IP68 submersible or better
	Power Supply	Internally powered by a battery, minimum of 10 years under normal operating conditions with high capacity double battery
Special features	Included software must be capable but not limited to the following:	Graphical presentation of data
		Logged data values from previous days of recording
	The logger is capable but not limited to the following:	Signal strenght test
		Logger can be configure in database and 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	
Additional Features	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.

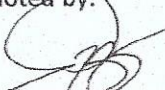
	Application Programming Interface (API) must be given to GSCWD for system integration.
Standard accessories and Additional Requirements (Compliance upon delivery)	<ol style="list-style-type: none"> 1. Must include necessary fittings and Digital Flow Cable 2. 1pc Programming Cable 3. 1 year free data service
Additional Requirements (To be submitted during the opening of bids)	1. Must submit original or computer-generated catalog/brochure.
	2. The manufacturer should have ISO 14001:2004 and 9001:2008 certificates or its updated versions
	3. Supplier should have ISO 9001:2015 Certificates
	4. Supplier should have a Type Approval Certificate from NTC.
	5. Must provide Data Logger Manual.
	6. Minimum one (1) year manufacturer's warranty.
	7. Supplier must have Manufacturer's Authorization Certificate specific to this project.
Testing and Software Compatibility (Compliance upon delivery)	In the presence of owner, the necessary field testing should be 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:

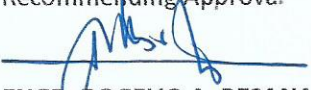

JOHN REY M. CAWIT
 TWG- Member


JUDY LIM- PASMÁN
 TWG- Member


Noted by:


MICHAEL G. GABALES, REE
 TWG- Head

Recommending Approval


ENGR. ROGELIO A. BESANA, JR.
 Department Manager A – Engr. & Const'n

Recommending Approval


ENGR. ARN B. GELLANGARIN
 General Manager