



PROJECT NO.

**2023-04**

PROJECT TITLE

**PURCHASE OF RTK GPS EQUIPMENT**

OWNER

**GENERAL SANTOS CITY WATER DISTRICT**

**TECHNICAL SPECIFICATIONS**

*The scope of work for this project shall be supply, delivery, installation, configuration and testing of compact, GNSS/RTK Geographical Positioning System and software with complete accessories to General Santos City Water District*

Item No.	Specifications	Statement of Compliance
<b>1</b>	<b>COMPACT GNSS/RTK ONE (1) ROVER WITH GIS APPLICATION (Interchangeable)</b>	
	Robust, light and portable GNSS receiver	
	Quad-constellation, multi-frequency all-in-view RTK Positioning	
	AIM+ anti-jamming and monitoring system.	
	The RF Spectrum can be view on the Web UI in real-time in both time and frequency domains.	
	Easy setup and one0touch logging	
	Robust RTK position accuracy and L-band (PPP) support	
	All-in-one base and rover operation	
	L-band for SECORX worldwide corrections	
	448 hardware channels for simultaneous tracking of all visible satellite signals:	
	GPS: L1, L2, L5	
	GLONASS: L1, L2, L3	
	Galileo1: E1, E5a, E5b, AltBoc	
	BeiDou: B1, B2	
	SBAS: EGNOS, WAAS, GAGAN MSAS,SDCM (L1, L5)	
	IRNSS1: L5	
	QZSS: L1, L2, L5	
	AIM+ unique anti-jamming and monitoring system against narrow and wideband interference IONO+ advanced scintillation mitigation APME+ a posteriori multipath estimator for code and phase multipath mitigation RAIM (Receiver Autonomous Integrity Monitoring) LOCK+ superior tracking robustness under heavy mechanical shocks or vibrations	



	16 GB Internal memory	
	Shock/Drop 2m(6.6ft)	
	Embedded Web UI with full control and monitoring functionality, On board data collection using either PinPoint-GIS CSV point data collection or Esri's	
	Lightweight and ergonomic design IP67 waterproof and dustproof	
	Shockproof: multiple drops from 4' (1.2-1.5 m) onto concrete	
<b>2</b>	<b>RUGGED HANDHELD TABLET CONTROLLER</b>	
	Microsoft® Windows 10 runs all Windows 64bit programs	
	8 GB RAM (LPDDR3) 128 GB storage Intel® HD Graphics	
	Durable, chemical- and shock-resistant design	
	Lightweight and ergonomic design IP68 waterproof and dustproof Shockproof: multipath drops GPS/GNSS (GEOMODELS) 2 to 5 meter typical accuracy 72 GNSS tracking channels	
<b>3</b>	<b>LIFETIME LICENSE CONTROLLER SOFTWARE</b>	
	<b>OTHER REQUIREMENTS</b>	
	Unit/equipment must have a two (2) years warranty against factory defects	
	Actual demo connection is a must. With an after Sales Support. Conduct of hands-on training on Hardware and Software (office & field) including assemble/disassemble	
	Must include Three (3) years Free calibration, upgrades and updates	
	Controller software must be lifetime licensed with no subscription	
	Supplier shall have a Certificate Of Good Performance for GNSS/RTK Fixed based installation in the Philippines at least 5 Station.	
	Supplier shall have a certificate of completion for Continuously Operating Reference Stations that Installed in Philippines	
	Supplier shall have an Exclusive Distributor Certificate from the manufacturer (Apostille Certificate attached).	
	For compatibility, maintenance and after-sales support, the supplier shall have a local service center certified by the Manufacturer for new and existing GNSS/RTK unit of GSCWD.	
	Project Duration is only forty-five (45) calendar days including supply, delivery, installation, configuration and testing	





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