



TECHNICAL SPECIFICATIONS

CCTV FOR PUMPING STATIONS WITH COMPLETE ACCESSORIES

THE SCOPE OF WORK FOR THIS PROJECT SHALL SUPPLY, DELIVERY, INSTALLATION, TESTING, TERMINATION, CABLING AND CONFIGURATION OF CLOSED CIRCUIT TELEVISION (CCTV) WITH COMPLETE ACCESSORIES AND WIRELESS INFRASTRUCTURE TO GENERAL SANTOS CITY WATER DISTRICT.

The bidder is required to complete its Statement of Compliance demonstrating how its terms complied with the specification. Non-compliance of Statement of Compliance for the item in its bid shall be considered non-responsive for that item.

ITEM	QNTY.	GSCWD SPECIFICATION	BIDDER'S OFFER	STATEMENT OF COMPLIANCE
DEVICES				
Video Camera	76 units	55 - Outdoor IP Fixed Bullet Camera 21 - Indoor IP Fixed Dome Camera Minimum of 5 (Five) Megapixel or Higher Infrared camera with 2.8 - 12mm manual varifocal lens. High quality imaging Up to 50m IR Range. With Video Analytics Stream Profiles : 2592x1944 @30fps (H.265/H.264) Video Compression: H.265, H.264 MJPEG ONVIF Profiles: S and G		
Network Video Recorder (NVR)	4 units	1 X 64 Channels and 1 x 32 channels for Central Office. 1 x 64 Channels and 1 x 32 channels for On Site (Back-up DVR) Enterprise NVR Resolution supports up to 12MP		



		<p>Supports H.265/H.264/MJPEG</p> <p>ONVIF Profile Supports: S and G</p> <p>Supports 4k Decoding</p> <p>Rack Mount Type</p> <p>Scalable up to 4 SATA port per DVR</p>		
Decoder	3	<p>Support 36 (Thirty Six) Channel Display.</p> <p>12 Channel per Decoder</p> <p>High Quality Video Output.</p> <p>Up to 3840x2160@30Hz via HDMI output interfaces</p> <p>Up to 3840x2160@30Hz via HDMI input interfaces</p> <p>Decode video stream in H.265/H.264/MPEG4</p> <p>Up to decoding at 12MP resolution</p>		
Display	36 units	<p>24 inches Monitor Display</p> <p>Frameless and IPS Display</p> <p>Mountable /Vesa Mount</p> <p>Resolution : Supports up to 2560x1440</p>		
STORAGE				
Video Storage Capacity	80 TB	<p>Shall have at least Eighty (80) Terabyte (TB) storage.</p> <p>20 TB per NVR</p> <p>HDD must be dedicated for Smooth Video Recording type and can handle higher work load, stable, reliable, solid and durable.</p>		
NETWORKING				
Network Switch	20 units	<p>Must be IEEE802.3af standard or IEEE802.3at standard.</p> <p>Gigabit Network Switch</p>		



		POE Switches to provide power on CCTV Cameras.		
Network Cables	1 Lot	Branded CAT6 STP Cable for outdoor Branded CAT6 STP Cable for Indoor		
Data Cabinet	20 units	6U Data Cabinet		
POWER BACK-UP				
Un-interrupted power supply (UPS)	20 units	At least 650VA UPS		
WIRELESS DEVICES				
Wireless Radio and Antenna	20 units	MIMO Wireless Outdoor Radio 4 - Wireless Access Point (Base Station) 16 - Subscriber Station 5Ghz Wireless Radio IP66 Enclosure or Die-Cast Aluminum with White Powder Coating 1Gb Ethernet Port 19 dbi or Higher With Surge Protection		
TOWERS				
Steel Towers	20	All towers shall be fabricated from high tensile steel manufactured by an approved process. <i>(Note: It depends the availability of the area base on the line of site.)</i>		



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		Self-Supporting Steel Tower.		
		Paint finished coated		
TERMS AND CONDITION FOR EQUIPMENT AND PROJECT IMPLEMENTATION				
		The duration of this project is one hundred twenty (120) calendar days which includes delivery, installation, configuration, testing and commissioning of all the devices and accessories.		
		Project shall commence upon receipt of NOA.		
		The winning bidder shall perform project management activities during the implementation of the project.		
		Provide detailed integration of work plan specifying installation design, detail and schedule of activities, and network diagram showing connectivity to existing GSCWD data center local area network and the existing GSCWD Infrastructure. The integration plan shall indicate the respective responsibility of all concerned parties including GSCWD personnel.		
		The Camera's, NVR, Wireless Radio Antenna's and other Devices/ Accessories must be a BRAND NEW unit and Genuine High quality.		
		The Camera's, NVR's, Wireless Radio Antenna's and other Devices/ Accessories must be manufactured by a known and reputable company with either of the following: Certificate of Good Manufacturing Practice (GMP), TUV or ISO or its equivalent for equipment only.		
		All Network Switches must have power back-up (UPS).		
		The winning bidder shall allocate or reserved one (1) LAN Port for SCADA.		
		All I.T Equipment such as network switches, UPS and etc. must be placed inside of the Data Cabinet.		
		All Steel Tower must have lightning protection.		
		Fiber Optic Solution is acceptable if erection of Tower is not feasible on the area but all needed materials, permits and other recurring monthly/yearly charges such as pole rental and etc. must be on the bidder's responsibility.		
		All necessary permit application and fees for NTC, Building Permits and others shall be shouldered by the winning bidder.		



Installing of Towers must have all needed materials and accessories, and also must follow the standard safety procedures to have stable and strong tower.		
Installing of CCTV must have all needed materials and accessories including but not limited to molding, switch box, flexible hose, pvc pipe, and etc.		
Decoder and display must have all needed materials and accessories including but not limited to display cables, power cables, mounting brackets and power distribution units (PDU).		
Bidders shall submit proposed topology of network design (Radio) with complete signal analysis per Stations.		
Winning Bidder shall supply spare of at least 2 units of major components such as but not limited to the following : Radio Antenna with power supply and Camera (dome and bullet),		
WARRANTY SERVICES AND MAINTENANCE		
Winning bidder shall provide a technical support staff that must be a Certified Installer with training certificate, based within Mindanao and a substitute trained technical personnel / specialist in cases when the service engineer is out of town or is not available.		
In case of downtime, the winning bidder is given 2 days to do remedial action (repair). On the 3rd day, if the unit is not operational, a back-up unit will be provided (within the warranty period only).		
Winning bidder provide company response within 24 - 48 hours should the existing equipment/components breaks down.		
All Equipment and other Devices/Accessories shall be under warranty for at least one (1) year commencing after commissioning.		
Winning bidder shall be fully responsible for the manufacturer warranty in respect of proper design, quality and workmanship of hardware, accessories, etc. covered by the offer.		
Winning bidder must warrant all hardware, accessories, spare parts, etc., against any manufacturing defects during the warranty period.		
During the warranty period the winning bidder shall maintain the hardware/software and repair/replace all		



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the defective components at the installed site but in the case of IP Camera's, which are found to be defective no repair shall be done and brand new replacement is a must, at no additional charge to GSCWD.		
The winning bidder has to ensure on-site support (without any extra cost) for resolving all hardware, software and firmware/OS related issues, including re-installation of software / firmware/OS and other software mentioned above, due to any reason whatsoever during warranty. During the warranty period the winning bidder should undertake free maintenance service semi-annually (twice within the warranty period which will include repair and maintenance of all systems, kits or parts, spare parts, etc. as and/or when required) from the date of commissioning of the systems.		
QUALIFICATION OF BIDDERS		
Bidder must have a Regional Presence or a Regional Service/Support Partner/Center within Mindanao.		
Bidders must be an Authorized Distributor, Reseller, Partner or Dealer of the Equipment Manufacturer.		
Bidders must have been in the business for at least Five (5) Years of providing and integrating ICT Solution and Services in government or private sectors.		
Bidder must be the exclusive or authorized distributor of the principal company of the equipment and the necessary consumables in the Philippines.		
TRAININGS		
The winning bidder shall provide knowledge transfer of the set-up and configuration of all equipment.		
DOCUMENTATIONS		
The winning bidder shall provide complete and detailed documentations of the project.		
The winning bidder shall submit certificate of warranty for all Equipment.		




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