



## TECHNICAL SPECIFICATION

### TITLE: PURCHASE OF LIGHTNING ARRESTER

#### 1.0 SCOPE OF CONTRACT

The scope shall be supply, delivery, installation and commissioning of Two (2) sets brand new Lightning Arrester to General Santos City Water District (GSCWD).

Requirements	Statement of Compliance
<b>Lightning Arrester:</b>	
Protection Performance 60 micro second Triggering Advance Time	
Double Action Early Streamer Emission	
ESE Lightning Conductor Radius of Protection: 107 Meters	
Streamer Lightning Stroke Counter	
Starting Threshold from 1 to 100 kA in 8/20 wave	
3 Digits Analog Display	
<b>Grounding System:</b>	
Copper Clad Ground Rod ¾" x 10' ( 3 pcs. ) per system	
PERMAWELD Exothermic Welding Connection	
<b>Down Conductor:</b>	
60 mm. Square, bare copper wire ( as required number of Meters in length)	
A 60 mm square bare copper wire must be enclosed within the required electrical conduit to ensure adequate insulation.	



<b>Pole:</b>	
6 – 8 Meters Pole Mast, 2” G. I. Pipe, Schedule 40	
Adapter, Clamp, Can Stand Up to 200 km/h Wind	
Welding Support, Paint Job	
Earth Resistance Test and Certification	

### TERMS AND CONDITIONS

Item No.	Requirements	Statement of Compliance
1	The scope of work shall be supply, delivery, installation and commissioning of Two (2) sets brand new Lightning Arrester to General Santos City Water District (GSCWD).	
2	All bidder is required to submit and include documents but not limited to <b>manuals, data sheets and name plate specifications</b> , in there bidding documents.	
3	The installation of lightning arresters is required at two separate locations, and all installation expenses will be the sole responsibility of the successful bidder.	
4	That during the installation and commissioning of the units, the winning bidder shall be required to send a technician/s responsible of installation and commissioning of the two units. All relevant and incidental cost (transportation, accommodation, allowances and etc.) in the commissioning of the equipment shall be shouldered by the winning bidder.	
5	The lightning arresters and installation must comply with all relevant local, national, and Philippine Electrical Code. The supplier is responsible for obtaining any necessary permits or approvals for the installation.	




6	The winning bidder shall deliver the Two (2) sets brand new Lightning Arrester within <b>Sixty (60)</b> calendar days upon receipt of Purchase Order (PO).	
7	The winning bidder shall be subjected to Liquidated Damages (LD) for each day of delay as provided by the IRR of RA 9184.	
8	Any deficiencies or issues identified during the inspection shall be rectified by the winning bidder at no additional cost to GSCWD.	
9	The winning bidder shall issue a warranty certificate of not less than one (1) year and the warranty shall commence from the date of commissioning of the unit. That the bidder must have an available qualified and trained technicians 24/7 in case of equipment failure.	

Prepared by:

  
**EDMUND L. BADAL, REE**  
TWG - Member

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

Recommending Approval:

  
**ROGELIO A. BESANA JR. C.E./RMP**  
AGM- Operations and Technical Services

Approval:

  
**FERDINAND S. FERER, MPA**  
Acting-General Manager