



TECHNICAL SPECIFICATION

TITLE: PURCHASE OF AUTOMATIC TRANSFER SWITCH

1.0 General Scope

The scope of work shall be supply, delivery and commissioning of Four (4) sets Automatic Transfer Switch to General Santos City Water District.

2.0 Application

An Automatic Transfer Switch (ATS) in a pumping station ensures continuous power supply by automatically switching between commercial power and a backup generator. When a commercial power outage occurs, the ATS detects the loss of power and signals the generator to start. Once the generator is running and stable, the ATS transfers the load to the generator, providing uninterrupted power to the pumping station. When commercial power is restored, the ATS switches the load back to the commercial power source and shuts down the generator. This seamless operation ensures the pumping station remains operational without any manual intervention.

3.0 General Specification

Item	Technical Specification	Statement of Compliance
1	Pre-wired Automatic Transfer Switch Panel complete with powder coated wall mounted enclosure, dead-front breaker compartment and swing type front door, door mounted accessories and with following major components below.	
2	Electrically operated Molded Case Circuit breaker rated 2x300A, 3P, 60Hz, 50kAIC, 460V.	
3	ATS Digital Controller, door mounted, LED display with manual and remote functions.	
4	Digital multi-function power meter with dual source for utility & generator.	
5	Ring type current transformers.	
6	Copper busbar @100% rated capacity including ground bus	



7	Complete controller accessories with interlink to generator controller for remote start.	
8	Electrically and mechanically interlocked to prevent simultaneous connection of both power sources. Automatic transfer from utility to generator power and vice versa without manual intervention.	

3.0 Technical Parameters of ATS Controller

Item No.	Technical Specification	Statement of Compliance
1	Display LCD(240*128)	
2	DC Supply DC(8~35)V	
3	Operating Temp. (-25~+70)°C	
4	Working Humidity (20~93)%RH	
5	AC Voltage Input: 3P3W (L-L) (80~625)V	
6	Programmable Input 8	
7	Programmable Output 12	
8	Alternator Frequency 50/60Hz	
9	Programmable Interface USB/RS485-1/RS485-2	
10	Voltage, Current and Power Display	
11	Over/under voltage, over/under frequency, over current, loss of phase, phase sequence wrong protection;	
12	All parameters can be set on site	
13	Automatic/Manual mode. In manual mode, can force the switch to close or open	

3.1 Electrical Parameters of ATS

Item No.	Technical Specification	Statement of Compliance
1	Supply Voltage: 460Volts	
2	Frequency: 60Hz	
3	Control Voltage: 220Vac/12Vdc/24Vdc	
4	No. of Phase: 3phase	
5	Rated Current: 300Amps	
6	Short Circuit Current Rating: 50kAIC	



4.0 TERMS AND CONDITIONS

1. The scope of work shall be supply, delivery and commissioning of Automatic Transfer Switch with complete accessories to General Santos City Water District (GSCWD).
2. The winning bidder is required to submit the following but not limited to data sheets, operating manual, troubleshooting manual, programming manual, software for programming the unit and single line diagram.
3. The winning bidder shall deliver the Automatic Transfer Switch within **Sixty (60)** calendar days upon receipt of Purchase Order (PO).
4. The winning bidder shall be responsible for the integration of the Automatic Transfer Switch (ATS) and generator set into the existing SCADA system. Both the ATS and the generator set shall be monitored and controlled from the command center.
5. The winning bidder shall conduct Onsite personnel training and orientation for Parameter and protection settings.
6. **Certificate of completion shall be release only if** the Generator will remotely start and properly interlock with the Automatic Transfer Switch supplied.
7. That the winning bidder shall have an available qualified and trained technicians 24/7 in case of equipment failure.
8. The winning bidder shall be subjected to Liquidated Damages (LD) for each day of delay as provided by the IRR of RA 9184.
9. That 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.

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