

## TECHNICAL SPECIFICATIONS

### SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF AUTOMATIC TRANSFER SWITCH FOR GENERATOR - DBP TAGUM BRANCH

**I. Approved Budget for the Contract:**

EIGHT HUNDRED FIFTY THOUSAND PESOS ONLY (Php 850,000.00) INCLUSIVE OF ALL APPLICABLE TAXES

DESCRIPTION	QUANTITY	TOTAL CONTRACT PRICE
Automatic Transfer Switch, 200Amps - 230 - 240 volts, Single(1) Phase, 60Hz – contactor type	1 Lot	PHP 850,000.00

**II. Technical Specifications:**

AC VOLTAGE INPUT RANGE	:	160 TO 230 Vac
FREQUENCY	:	50/60Hz
GENERATOR START RELAY	:	7A @ 250 Vac Max.
TRANSFER TO NORMAL RELAY	:	5A @ 250 Vac Max
TRANSFER TO STANDBY RELAY	:	5A @ 250 Vac Max
ALARM OUTPUT AUXILIARY RELAY	:	7A @ 250 Vac Max

**ADJUSTABLE TIMERS**

TIME DELAY NORMAL TO EMERGENCY (TDNE)	:	0 TO 250 SECONDS
TIME DELAY ENGINE START (TDES)	:	0 TO 30 SECONDS
TIME DELAY EMERGENCY TO NORMAL (TDEN)	:	0 TO 999 SECONDS
TIME DELAY ENGINE COOL DOWN (TDEC)	:	0 TO 250 SECONDS
TIME DELAY – OFF (TDOFF)	:	0 TO 99 SECONDS
ENGINE EXERCISER TEST PERIOD (EETP)	:	0 TO 99 SECONDS
EXERCISER TEST CYCLE (ETC)	:	1 TO 4 WEEKS

**FULL PHASE VOLTAGE & FREQUENCY MONITORING**

OVER VOLTAGE ADJUSTABLE RANGE	:	210 TO 290 Vac
UNDER VOLTAGE ADJUSTABLE RANGE	:	160 TO 240 Vac
OVER FREQUENCY ADJUSTABLE RANGE	:	51 TO 75 Hz
UNDER FREQUENCY ADJUSTABLE RANGE	:	40 TO 59 Hz

**FEATURES:**

- Micro-processor based
- Full phase voltage/frequency monitor & protection for Normal & Standby source
- Current time display on OFF mode
- TDEN/TDNE/TDEC/TDES/TDOFF countdown display
- Internal program settings & status display
- Display Auto / OFF / Test status
- Over / Under voltage & frequency alarm
- Display real time power loop

**III. Conditions of the Contract:**

1. The Supplier shall ensure that the products delivered are in accordance with the specifications required by DBP. DBP has the right to reject items not according to the required specifications / model.
2. DBP may terminate / cancel the Purchase Order (PO)/ Notice to Proceed (NTP) when the Supplier/ Contractor fails to deliver, perform and comply with its obligation as required for in the contract.
3. **Delivery Period:** The Supplier shall deliver the items within thirty (30) calendar days after receipt of the NTP/PO.
4. **Point of Delivery:** DBP Tagum Branch, Apokon St., Tagum City, Davao del Norte
5. **Warranty:** One (1) year warranty upon acceptance of items by DBP.

**IV. Payment:**

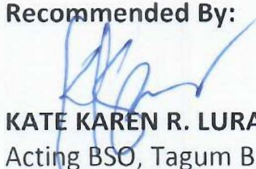
1. Payment shall be processed after completion of delivery subject to complete documents for payment (e.g. Billing Statement / Statement of Account, Certification of Completion / Acceptance). Issuance of manager's check will be the mode of payment and processing of it will be a maximum of 30 days.
2. When the Supplier fails to satisfactorily deliver goods under the contract within the specified delivery schedule, inclusive of duly granted time extensions, if any, the Supplier shall be liable for damages for the delay and shall pay DBP liquidated damages , not by way of penalty, an amount equal to one-tenth (1/10) of one percent (1%) of the price of undelivered quantity shall be deducted from the payment, in case the Supplier fails to deliver the items on time.

**V. Other Requirements:**

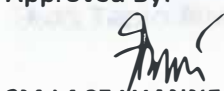
Interested Suppliers/Contractors must submit the following:

1. Proposal or Quotation
2. Philgeps Certificate with Registration number
3. Valid/ current Mayor's / Business Permit
4. Certificate of Registration
5. Income /Business Tax Return
6. Notarized Omnibus Sworn Statement

**Recommended By:**

  
**KATE KAREN R. LURA**  
Acting BSO, Tagum Branch

**Approved By:**

  
**SM LACE LUANNE H. MORTA**  
Head, Tagum Branch

CONFORME:

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SUPPLIER