

REPUBLIC OF THE PHILIPPINES
 NATIONAL POWER CORPORATION
 DILIMAN, QUEZON CITY

Rec'd by: SEP 14 2009
 MODE: PE LSB SH SC RO
 BUYER: GPE
 SECTION CHIEF: 9/15

PP091015-CC 6379
PURCHASE REQUISITION

PR NO.
S1-MTS09-104
 Use this Number
 in all communication

*Uploaded 9/4/09
 028 B. 5*

Requisitioning Office : LUZON - WORKSHOP, MAINT. & TECH. Date : 08/12/09
 Cost Center Number : 5889010 Local : 105 Date Needed : 11/11/09
 GL No. : _____ OE No.: _____ Deliver to : MINUYAN, SJDM BULACAN
 WO No. : 161 JO No. : _____ Date PR Rcvd. by Proc Office: _____

ITEM NO.	NSN	COMPLETE DESCRIPTION/SPECIFICATION	QUANTITY	U/M	ESTIMATED COST	ASSIGNED PO/IO NO.
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1	N00000805	OVERCURRENT & RECLOSING RELAY The microprocessor-based relay shall provide combination of functions including protection, monitoring, control & automation. Relay self-checking functions shall be included	20	SET	3,300,000.00	
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PHP 3,300,000.00

Specific requirements:

- Numerous Phase, Ground and Negative-sequence overcurrent elements.
- Four shot reclosing with sequence coordination.
- Enhanced logic control equation to create traditional or advance schemes.
- Local/remote control logic to enable/disable schemes. Operate circuit breakers, etc.
- Sequential events recorder (SER) Report and Event reports stored in non-volatile memory
- Supports ASCII, LMD and Modbus RTU protocol
- EIA-232 or EIA-485 serial communications-either port includes a demodulated IRIG-B Time code input
- Status and trip target LEDs
- Demand and current threshold alarms for overload and unbalance.

Standard Event Reports:

- Standard 15 cycle event report
- Sequential Events Recorder log

Technical Specifications:

- AC current inputs (IA, IB, IC)
- 1A nominal, 3A continuous, 100A for 1 second, linear to 20A symmetrical; 20A for 1-cycle

Frequency and Phase Rotation:

- System Frequency: 50/60 Hz (user settable)
- Phase rotation: ABC or ACB rotation

Power Supply

- 24V (range: 16-36 VDC) polarity sensitive

High Current Interrupting Contacts

- Make: 30A, Carry: 6A, MOV: 320VDC for differential surge protection, pick-up time: <5ms, drop-out: <8ms

Communication Port:

- Rear port (Ground isolated): EIA-232
- Baud Rate: 300-38400 bps

Approved as to GPE:

M. S. Chiu
 M. S. CHIU
 VP-SPUG, WMD, DRFF

**CY 2009*

Certification of Funds Availability

S.F. Aragon
 S. F. ARAGON
 FINANCIAL SPECIALIST

Certification of Stock Non-Availability

A.R.D. Presillas
 A. R. D. PRESILLAS
 PROP OFFICER B

Included in the PPMP

E.J.E. Manay
 E. J. E. MANAY
 MTLG MGMT SPLST

PURPOSE/REMARKS For installation to various SPUG-LUZON Operations Diesel Power Plants

Attachments :

Distribution list & Complete specification

Requisitioned by:

R. T. Diswe
 R. T. DISWE
 Print Name & Position Date
 PRIN. ENGINEER A, WMTSD

Approved for Purchase :

R. Castillo
 R. CASTILLO
 Print Name & Position Date
 MANAGER, WMTSD-LUZON

