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AUG 14 2009

REPUBLIC OF THE PHILIPPINES  
NATIONAL POWER CORPORATION  
BIR Road Corner Quezon Ave.  
Diliman, Quezon City

PR NO.  
**S1-TDP09-0214**  
Use this Number  
in all communication

*PP090725 - AP LSOU (GP) (P02)*  
**PURCHASE REQUISITION**

*029A-3 upload 8/13*  
*024 D.1*  
*main*

Requisitioning Office: TICAO DIESEL PLANT  
Cost Center Number: 5884103 Local: \_\_\_\_\_  
GL No.: 16f OE No.: \_\_\_\_\_  
WO No.: \_\_\_\_\_ JO No.: \_\_\_\_\_

Date: 05/06/09  
Date Needed: 1/1  
Deliver to: Ticao Diesel Power Plant  
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	N00001336	RECLOSER SF6 GAS CIRCUIT BRAKER, THREE PHASE 15.5KV, 110KV BIL, 800AMPS, CONTINUOUS CURRENT RATING.	1		900,000.00	
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PHP 900,000.00

*Approved AS GIE:*

*[Signature]*  
*M.S. Clinton*

Certification of Funds Availability  
*[Signature]*  
SALVACION F. ARAGON  
Financial Specialist

~~Certification of Stock Non-Availability~~  
DELFIN C. DELINEA  
Property Custodian

Included in the PPMP  
*[Signature]*  
HERALDO B. PRESADO  
Designated Canvasser

PURPOSE/REMARKS: For replacement of damaged recloser of Ticao Diesel Power Plant

Attachments :

Requisitioned by :

*[Signature]*  
S. D. MARCAIDA, JR.

Print Name & Position  
Manager, CMAOD

Date

Approved for Purchase :

*[Signature]*  
G. S. ALPAJOKA

Print Name & Position  
Manager, SPUG-Luzon

Date

## RECLOSER

Recloser, three phase, with solid dielectric vacuum fault interrupter, 15.5KV, 110KV BIL, 800 amps continuous current rating, 12.5KA interrupting rating sym., multi-ratio current transformer, with operations counter and with the following specifications:

CT ratio - multi-ratio, temperature operating range - -40 C to + 65 C, mechanical operations - 10,000, enclosure material - stainless steel, weight (including control) - 314 lbs ; Control panel, no. of recloser shots - five (5) including lockout, over current curves; US curves - 5, IEC curves - 5, User programmable curves - 4, features easy settings for basic recloser functions; Protection elements, phase & neg. seq. overcurrent elements, residual ground & neutral ground overcurrent elements, under & overvoltage elements, pos.- neg.- & zero sequence voltage elements, 4 levels of under/overfrequency elements, 2 elements synchronism check elements, 15 or 30 cycles with settable pre-fault duration and user defined triggering automatic recording of disturbance events, events shall be stored in nonvolatile memory, displays fault type on the recloser control front panel, stores the latest 512 entries and shall include sequence of events records, with sixteen (16) LED status and trip target, user-settable demand current thresholds for phase, neg.-seq. neutral and residual demand measurements, with recloser wear monitor, Measure & report battery level, sixteen (16) local control elements, remote control logic points, latching logic points, and display messages in conjunction with a local display panel, with capability to display custom messages, programmable logic functions, 3 independent EIA-232 serial ports, DNP3 level 2 protocol with bit-mapping, SCADA ready, interface port for a demodulated IRIG-B time synchronization input signal, free PC software program for use in programming control settings and logic functions and retrieving event data, settings can be done offline, the software converts event reports to oscillograms with time coordinated element assertion & phasor/sequence element diagrams, the software interface supports MS Windows OS, view real time phasors via the software, mirrored bits relay to relay communication, 6 programmable inputs, 7 programmable outputs, 6 group settings with spread spectrum radios compatible, Metering accuracy;  $\pm 0.2\%$  (67-300V wye connected) voltages, VA, VB, VC, VS, 3VO, V1, V2,  $\pm 0.1\%$  (0.1-20A) IA, IB, IC: 1A nominal currents, control operating range - -40°C to +85°C, Three (3) years warranty on the recloser and Ten (10) years warranty on the control, ISO 9001:2000 and 14001 certified.

Budgetary Price - 900,000.00/unit

### Note:

1. After sales service/support.
2. Original product brochure/catalogues/technical data.
3. Authenticated certificate of exclusive distributorship from OEM.
4. Authorization to bid from OEM