

Quotation Inquiry for VCB Panel

Project Details

- **Project:** Implementation of 500 KWp Captive Solar Power Plant

We request a detailed quotation for the VCB Panel with the following specifications:

Circuit Breakers Specifications

a) Circuit breaker shall be C2/M1 class under all duty conditions and shall be capable of performing their duties without opening resistor. The circuit breaker shall meet the duty requirement of any type of fault or fault location and shall be suitable for line charging and dropping when used on 6kV effectively grounded or ungrounded systems and perform make and break operations as per the stipulated duty cycles satisfactorily.

b) The circuit breaker shall be capable for breaking the steady & transient magnetizing current corresponding to transformers. It shall also be capable of breaking line charging currents as per IEC- 62271-100 with a voltage factor of 1.4.

c) The rated transient recovery voltage for terminal fault and short line faults shall be as per IEC: 62271-100.

d) General parameters: - Vacuum type Circuit Breaker

Particulars	Details
Type of circuit breaker	Vacuum type
Highest System Voltage	As per system design
Rated operating voltage	As per system design
Rated frequency	50 Hz (+3% to -5%)
Number of poles	Three (3)
Rated/Minimum Power Frequency Withstand Voltage	As per system design
Rated Lightning Impulse Withstand Voltage	As per system design
Rated operating duty cycle	0 - 0.3 sec. - CO - 3 min. - CO
Rated line charging breaking	As per IEC
Reclosing	Single and three phase high speed auto reclosing
Maximum fault level	As per system design
Auxiliary contacts	As required plus 6NO and 6NC contacts as spare
Noise level	Maximum 140dB at 50m distance from base of circuit breaker
Seismic acceleration	0.4 g horizontal

HEAD OFFICE

C/o. Nobal Electrade Pvt. Ltd. "Noble Plaza", 2nd Floor,
 2/15, Bhaktinagar Station Road, Rajkot - 360001. Gujarat, INDIA

BRANCH OFFICE

Shop No. 5, Ashapura Road, Opp. R.M.C. Gate No.2,
 Rajkot - 360001. Gujarat, INDIA

e) Co-ordination of rated voltages, short circuit breaking current and rated normal current for guidance as per IS 13118 for rated voltage 33 kV and above.

f) Appropriate & adequate Capacity 415V AC indoor air Circuit Breaker as per the IEC 60898 / IEC 62271 – 100 or equivalent Indian Standards along with control circuit and protection relay circuit, fuses, annunciations and remote operating and controlling facility from the Main Control Room.

g) Circuit Breaker Protection against

- Over Current
- Earth fault
- Under voltage & over voltage protection
- Under frequency & over frequency
- DC supply failure

Quantity

- 1 unit (main panel) with provisions for outgoing feeders

Pricing

- Inclusive of GST (18%) and transportation to Omkareshwar Power Station

Additional Requirements

- Detailed cost breakdown (unit price, taxes, etc.)
- Compliance certificate with Make in India policy
- Delivery timeline and installation support

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