



Marine Electricals

Case Study

Tata Communications

Data Centre

Brief intro:

TATA Communications have a DATA Center at Greater Kailash , New Delhi. It is spread over 1 lakh sq.ft containing 7 blocks. The maximum height of building is 26 meters. The total electrical connected load for the building is 8780 KW. The source of power for the building is from 5 D.G. sets of 2000 KVA.

Assignment Details:

- Marine Electricals supplied 33 KV Switch Boards, Main LT Panels, Capacitor Panels with APFC & LT Bus Ducts to Tata's Main Switching Sub Station. Panels were connected with SCADA System and further extended to BMS for monitoring.
- Right from supply to commissioning of panels with PLC and Communications facilities to BMS and SCADA system, the entire work was assigned to Marine Electricals.

Assignment Details:

- HT panel was equipped with auto PT C/O system and SMS alert facility.
- LT PCCs of 5000A were of 80 KA SC capacity with communication and SMS/Email facility.
- 675 KVAR APFC Panels with copper busbar were installed for power factor correction of entire substation.
- SCADA system included end-to-end supply and establishing communication network with associated equipment.



Scope of Assignment

- Supplied 33 KV panel, 31.5 KA for 3 Sec Short Time withstand Current with HT- SF6 Breaker Panel having Auto PT C/O Scheme between I/Cs and B/Cs (2I/C, 2 B/C and 11 O/G feeders) with Copper Bus bar and Communication Module with SMS facility.
- LT PCCs of 80 KA SC capacity and 675 KVAR Capacitor Panels where all ACBs having communication facility along with M340 PLC through Modbus to connect BMS for data logging and monitoring.

Highlights:

- Supply and commissioning of all HT panels, 5000A LT panels , capacitor panels with communication facility along with PLC to hook up with BMS and SCADA.
- SMS & Email alert also provided for alarm and fault notifications to facility in charge members.
- Provided training to critical management services contractors & 24x7 maintenance of system for next 10 years.
- Total order value for LT and HT panels , SCADA system bus duct and temperature monitoring system was approx. INR 6.0 Cr.
- Order executed, including establishment of communication, within 4 months as per P.O. terms.
- Satisfied with the performance of our equipment, Tata Communications assigned us more orders for their data centers located at Mumbai, Chennai , Pune and Bangalore.



Panel Snapshot





Thank you

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