

ABB India successfully commissioned "Power Distribution Package Project 06501" at Ashaka Cem PLC, Nigeria a subsidiary of Lafarge Cement

ABB India commissioned the 11kV HT double bus bar Switch Boards, 11kV and 3.3kV Capacitor Banks and 415V APFC Panels, Adapter panels for existing 415V LV panels and ILMS System at Ashaka, Gombe site in Nigeria



Ashaka Cem PLC, Nigeria

Ashaka Cement is a subsidiary of Lafarge group having three cement plants in Nigeria. Ashaka Cement is currently the second largest producer of cement in Nigeria.

Requirements

ABB supplied to the customer with Double bus bar HT boards, MV Capacitors and LV APFC Panels, ILMS (SCADA System), HT and LT cables, Illumination package and LV Breaker panels

Challenges

- Data collection of existing systems and necessary modifications to meet the requirements of the customer
- Replacing existing 11KV MOCB switchboard No 1 with ABB Make 11KV double bus bar switchboards in the space provided-
- Installation and commissioning of the 11KV double bus bar switchboards was carried out in 2 phases with minimal shutdown period
- Manufacturing and dispatch of HT double bus bar boards (20 Panels) from ABB Nasik was a biggest challenge.
- Developing load shedding software and synchronization logics in the ILMS System to meet the customer requirements.

ABB Solution

- Supplying 11KV double bus bar switchboards in order to have the flexibility to keep the critical loads on grid bus or DG bus.
- Utilization of maximum DG output by installing Power factor improvement capacitor banks at HT and LT Side.
- Non critical load shedding during grid / DG supply failure by ILMS System. Developed customized software's and hardware logics to meet the load shedding and synchronization of the plant.

Benefits to customers

- Ease of operating the HT Switch Board Controls, synchronization of new DG sets and Incomers of 11KV DBB boards from remote locations.
- Power and energy monitoring of major loads connected to new 11KV DBB Board and existing old 11KV MOCB switchboard No2.
- Load Shedding of Non Critical Loads during Power Outage etc from the ILMS HMI and improved operating Power Factor due to the addition of Capacitor Banks at HV & LV Side.
- Improved plant productivity.

ABB Team

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