

1.3.27 Battery and Battery Charger

- A. The batteries and chargers shall be used as back-up power source for uninterruptible and bump less operation of controls, instrumentation, alarm and monitoring equipment, but not for switchgear tripping/closing or other special function batteries.
- B. Where alternate a.c. supplies are available, provide for taking the supply to the battery charger from either source (e.g. from either side of the bus-section switch) with facilities for automatic changeover from one source to the other in the event of failure of the supply system.
- C. The battery & charger unit shall be housed in the common control section of the MCC. Charger shall be housed in control section and battery in ventilated compartment below common control compartment, alternatively batteries can be installed in stand alone cubical IP class for battery compartment in MCC or housed in stand alone cubicle shall be 41.
- D. A separate sheet steel floor standing cubicle having adequate ventilation and separate compartments for the batteries (lower compartment) and chargers (upper compartment) with associated control and protection devices and accessories may be used as stand-alone for large capacities where it is difficult to accommodate within a dedicated section of the Motor Control Centre and in case of all other applications wherever specified.
- E. When used as stand-alone, the access to the batteries shall be via lockable, hinged doors, and to the chargers via removable covers.
- F. Batteries and charger units shall be suitable for the intended service under the prevailing climate and environments conditions and Tropical use as specified in this specification.
- G. Stand alone battery bank shall be IP 54 for charger compartment and IP 41 for battery compartment with ventilation.

1.3.27.1 Batteries

- A. Nickel Cadmium sealed batteries shall be used confirming to BS EN 60623.
- B. The batteries shall be maintenance free long life Nickel Cadmium sealed type with a nominal output of 24 volts, and shall be of adequate capacity to maintain full operation of the relevant load equipment's' plus an additional 20 per cent, for a