- Correct operation of sequencing and control circuits at normal operating voltage by operation of local control switches, and simulation of operation from remote control positions

1.3.12 Motor Control Centre (MCC)

The Contractor shall design, supply, install, test and commission a complete Motor Control Centre (MCC) according to the General Specification for Electrical Works, and to all other applicable sections. The MCC shall be located inside an air-conditioned control room adjacent to the wet well as shown on the Tender Drawings. The installation shall comply with all current ADDC requirements, the latest version of the IEE Wiring Regulations and the Electricity Wiring Regulation issued by The Regulation and Supervision Bureau for the Water, Wastewater and the Electricity Sector in the Emirate of Abu Dhabi.

The MCC cubicles shall be constructed to Form-2B, Type 2, for aboveground installation and to Form-4B, Type 6 for underground installation. For MCC installed underground, a cut-off breaker shall be above ground.

The MCC shall be arranged for front access comprising of the following compartments:- ADDC kWh meter (As per ADDC requirements).

- ADDC incomer
- Generator supply incomer
- Metering cubicle
- Pump Starters
- Instrumentation and Control Section feeder
- Station D.B Feeder
- Socket section
- Crane feeder
- RTU (with power feeder installed)
- Spare compartment (minimum 2 Nos.) feeder only
- PFCC feeder

A. The Motor Control Centre and the Main Distribution Boards shall be considered as the key elements of an electrical installation in pumping stations in lieu of