



MOTOR CONTROL CENTRE PANEL

Standard Features:

- **Pump alteration** - Pump alteration for equal run hour including standby pump
- **Operation** - Auto /Manual operation using selector switch
- **Manual operation** - Manual operation using selector switch
- **Pressure switch** - Provision to connect pressure switch/s
- **Individual isolation** – MCCB/MCB for individual pump isolation
- **Takeover** - Auto take over in case of failure of working pump
- **BMS connectivity** - Potential free contacts for status of pumps
- **Dry run** - Dry run protection using float switch
- **Electrical Protection** - Protection against single phase, phase reversal
- **Incoming Control & Total Protection** with MCCB/MPCB/MCB/SFU/HRC Fuses
- Switchgear from L&T / Schneider Electric / Siemens
- Separate Chambers for Power Bus / Cable Alleys & Total Isolation from Control / Starter Feeders



Sequence of Operation in Auto mode:

Motor Control Centre Panel is a control centre for multiple motors. Here all the motors are connected to their individual Feeders & all the individual feeders are combined into single motor control centre.

MCC panel control specific motors in different conditions viz. Float switches, Pressure Switches, Level Sensors, PLC controller etc. Each motor is protected by Dry Run Conditions, Low voltage, Overload by individual control centres & main incomer for MCC panel will protect & regulates the incoming supply for individual feeders.

Motor will start whenever there is requirement and automatically shuts off when desired output is acquired. when a selected pump fails, standby pump will start automatically & fault indicator lights up. Hence, it ensures automatic working & control of motors.

MCC panels are customised panels which can be use for multiple pump/motors for Automatic Tank filling, Pressure Boosting, Level Controlling, Dewatering applications.

The system is designed to maintain water levels close to set point with the help of dedicated controller & avoid

- Instability (Hunting)
- Dry running of pumps
- Electrical Protection



Control panel specification:

- **Panel Mounting** - Floor/ Wall as per panel size
- **Panel Material** - MS CRCA sheet steel
- **Painting** - Epoxy powder coated structured paint
- **Colour Shade** - Siemens Grey RAL 7032 equivalent
- **Protection class** - IP42/IP54/IP55/IP52/IP65/IP64
- **Door Access** - Front Door Access
- **Cable Entry** - Bottom Cable Entry
- **Incomer** - Main common incomer ON/OFF type switch
- **Drive Isolation** - Individual isolator MPCB/MCCB/MCB
- **Electrical Protection-** Single phase, Reverse Phase, Under/Over Voltage
- **Selector switches** - Auto/ Manual mode
- **Control Supply** - Single phase control transformer
- **MCC** - Motors from 0.25HP upto 400 HP
- **Starter** - Star-Delta / DOL