S/I/T/C of cubical type Control panel board fabricated from high quality 2mm thick CRCA sheet and angle iron I/c spray painting making earth connections etc for Main Fire pumps. The panel shall be dust and vermin proof totally enclosed free standing floor mounting type extensible from both sides, suitable for 415V 50 Hz 3 phase 4 wire system complete in all respect and confirming to latest relevant of ISI specifications I/c necessary connections, inter connections with copper conductor cable of required size, cable end termination, necessary cable tray of required size, soldering etc. with following switch gears mounted there on as required (All switchfuse / fuse switch units shall be to AC 23 duty to IS : 4064) (location at Pump room).

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>SI/T/C of cubical type Control panel board fabricated from high quality 2mm thick CRCA sheet and angle iron I/c spray painting making earth connections etc for Main Fire pumps. The panel shall be dust and vermin proof totally enclosed free standing floor mounting type extensible from both sides, suitable for 415V 50 Hz 3 phase 4 wire system complete in all respect and confirming to latest relevant of ISI specifications I/c necessary connections, inter connections with copper conductor cable of required size, cable end termination, necessary cable tray of required size, soldering etc. with following switch gears mounted there on as required (All switchfuse / fuse switch units shall be to AC 23 duty to IS : 4064) (location at Pump room).</td>
</tr>
</tbody>
</table>

- 250 AMP MCCB 4 pole switch - 1 No.
- 500Volts 96x96mm Voltmeter with selector switch - 1no.
- 0-250 Amps 96x96mm Ammeter with selector switch - 1no.
- Indicating lamps, their fuses, terminal blocks, push buttons, control and selector switches etc as required - 3 Nos
- Copper bus bars suitable for 250Amps with supports for phases and neutral - 1 set.
- MCCB suitable ratings for each pump set including 1no. Spare for main fire pumps.
- Push button Starter for each pump set
- Single phase preventor device for each pump set.
- Selector switch for auot/manual operation (Each Pump).
- PVC insulated, copper conductor cables of required size between panel & motor of each pump set in duct/ surface/ recessed conduit including connections and earthing of motor complete, as required.
- MCB SPN 20 A (Spare) - 1no.
- Dry run protection with flow switch and Visual / audio alarm system as required.
  
  **Engine Section**
  
- Engine shut down and block out services due to fault or abnormalities as specified. Necessary visual / audio alarm indication and annunciator facility as required. Instruments, indicator lamps, fuses, terminal blocks, push buttons, control and selector switches as required - 1 No.
  
  **Control Section**
  
- Control components integrating the various sections so as to satisfy the functional requirements
- 180 AH 12 V battery - 2 Nos (1 set for control unit) (Lead - Acid type)
- Battery charger unit with boost/float charge facility with voltmeter, capable of charging two sets of batteries at a time (one set of diesel pump & one set of control system)
- Test facility to simulate operation of hydrants
- Water level indicator of minimum four steps with water level gaurds etc. as required.