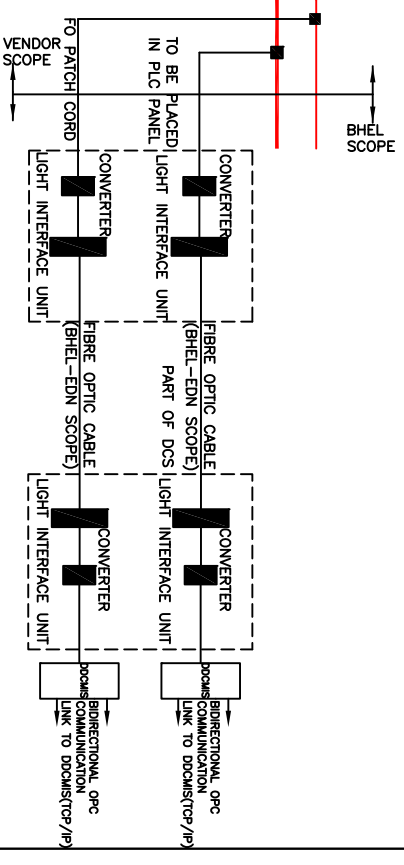
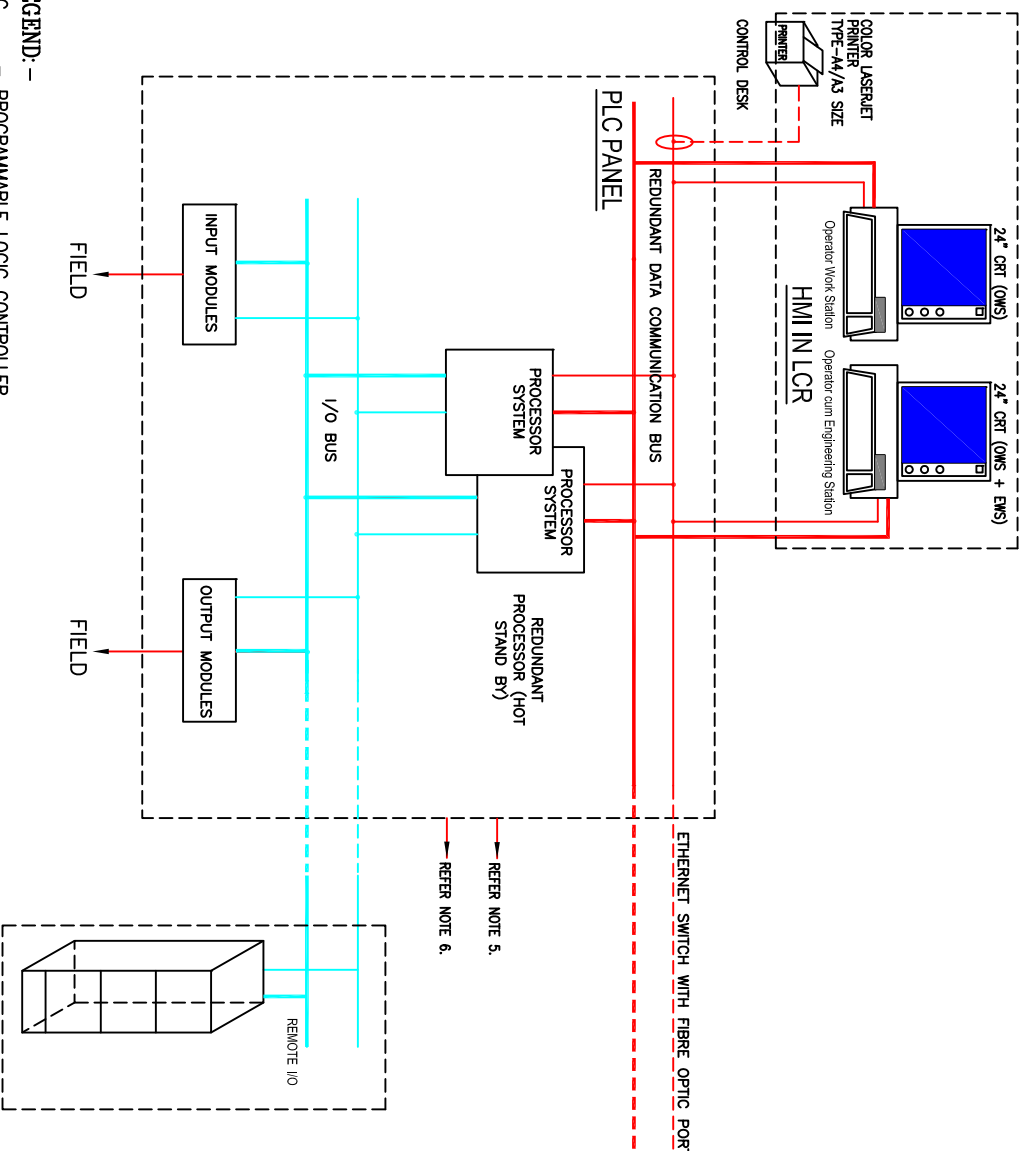


- NOTES:**
- 1) TABLE TOP OWS/EMS SHALL BE 24" OR AVAILABLE INDUSTRY STANDARD.
 - 2) PLC SYSTEM SHALL HAVE REDUNDANCY IN PROCESSOR, POWER SUPPLY AND COMMUNICATION SYSTEM.
 - 3) UPS POWER SUPPLY SHALL BE USED FOR PLC PANEL(S), OWS/EMS AND NETWORK COMPONENTS.
 - 4) POWER SUPPLY ARRANGEMENT FOR PLC SYSTEM SHALL BE AS SHOWN ON SHEET 11 OF 11.
 - 5) PLC PANEL SHALL HAVE PROVISION TO ACCEPT TIME SYNC. SIGNAL (NTP/IRIG-B) FROM MASTER CLOCK SYSTEM (BHEL SUPPLY).
 - 6) PLC PANEL SHALL HAVE PROVISION FOR DATA EXCHANGE (OPC) WITH PLANT DCS.
 - 7) NECESSARY PATCH CORD/CONVERTERS, LIU AT BOTH PLC AND DCS END SHALL BE IN BHEL-EDN SCOPE.



LEGEND:-

- PLC - PROGRAMMABLE LOGIC CONTROLLER
- DCS - DISTRIBUTED CONTROL SYSTEM
- UPS - UNINTERRUPTED POWER SUPPLY
- OWS/EMS - OPERATOR WORK STATION/ ENGINEERING WORK STATION
- HMI - HUMAN MACHINE INTERFACE
- NTP - NETWORK TIME PROTOCOL
- OPC - OLE PROCESS CONTROL
- MCCB - MOULDED CASE CIRCUIT BREAKER
- LCR - LOCAL CONTROL ROOM
- CCR - COMMON CONTROL ROOM



PROJECT:		4X270 MW BHADRADRI TPS	
TITLE:		PLC CONFIGURATION SEWAGE TREATMENT	
DRG.NO.	PE-DM-411-145-1900	DATE	01.07.2015
REV.NO.	02	SHT	7 OF 11