



- LEGEND:**
- DATA HIGHWAY
 - CAT-6 CABLE
 - 12C SINGLE MODE FIBER OPTIC CABLE
 - RS485 CABLE
 - - - FIBER OPTIC PATCH CABLE
 - HARDWARE CABLE
 - HDMI CABLE
 - IRIG-B CABLE
 - - - CANBUS
 - - - JELLY FILLED CABLE FOR EPABX

- ABB REVIATIONS:**
- GPS GLOBAL POSITIONING SYSTEM
 - EWS ENGINEERING WORK STATION
 - PPC POWER PLANT CONTROLLER
 - OWS OPERATING WORK STATION
 - EMS ENERGY MANAGEMENT SYSTEM
 - UPS UNINTERRUPTED POWER SUPPLY
 - ACDB AC DISTRIBUTION BOARD
 - LIU LINE INTERFACE UNIT
 - VRFB VANADIUM REDOX FLOW BATTERY
 - MFM MULTIFUNCTION METER
 - IDT INVERTER DUTY TRANSFORMER
 - FAS FIRE ALARM SYSTEM
 - DI DIGITAL INPUT
 - DO DIGITAL OUTPUT
 - AI ANALOG INPUT
 - SPD SURGE PROTECTIVE DEVICES
 - F/W FIREWALL
 - PQM POWER QUALITY METER
 - NIFPS NITROGEN INJECTION FIRE PROTECTION SYSTEM
 - MV MEDIUM VOLTAGE
 - PCS POWER CONVERSION SYSTEM
 - EPABX ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE

- NOTES:**
1. THIS ARCHITECTURE IS INDICATIVE AND INTENDED FOR TENDER PURPOSES ONLY. THE BIDDER SHALL DEVELOP THE DETAILED ARCHITECTURAL DRAWING.
 2. REDUNDANT POWER SUPPLY, CONTROLLERS AND COMMUNICATION ARE ENVISAGED FOR EMS SYSTEM.
 3. TENTATIVE OFC CABLE REQUIRED FROM MATERIAL GATE AND STN-I CONTROL ROOM SHALL BE 1KM.
 4. NO OF LOCAL EMS CONTROLLER SHALL BE DETERMINED DURING DETAIL ENGINEERING.

FOR TENDER PURPOSE

CLIENT:	GUJARAT INDUSTRIES POWER COMPANY LIMITED (M/s GIPCL)
PROJECT:	DEVELOPMENT OF 20MW/ 20 MWH VRFB PROJECT AT GIPCL VADODARA COMPLEX
TITLE:	TENDER DRAWING - SCADA FOR BESS
DEPT.	JOB NO.
DWG.NO.:- DWG - 08	SCALE:
	SHEET: 01 OF 01
	REV.