

- NOTE
1. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
  2. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.
  3. EACH ZONAL SUBSTATION AND MRSS SHALL BE PROVIDED WITH DEDICATED SCADA SYSTEM.
  4. ALL ELECTRICAL EQUIPMENTS FED FROM RESPECTIVE SUB-STATION SHOULD BE INTERFACED WITH RESPECTIVE SUB-STATION SCADA.
  5. ALL METERS & RELAYS OF 11KV, 33KV & 220KV SWITCHGEARS, LIGHTING FEEDERS, FEEDER PILLARS, POWER FEEDER PILLARS, HM FEEDER PILLAR, 415 VOLTS AUXILIARY SWITCHBOARDS AND DG AMF PANEL ETC. SHOULD HAVE SCADA COMPATIBILITY WITH RS 485 COMMUNICATION PORT AND ALL MFM & RELAYS OF THOSE SWITCHGEARS SHOULD BE INTERFACED WITH RESPECTIVE SUBSTATION SCADA THROUGH OFC RING NETWORK.
  6. TRANSFORMER OIL TEMP LOW & HIGH, WINDING TEMP LOW & HIGH, BUCH-HOLZ RELAY, MOG, OLCV VOLTAGE SETTINGS, TAP POSITIONS AND PRV STATUS ETC SHOULD BE INTERFACED WITH SCADA.
  7. ALL SUBSTATION SCADA SHALL BE INTERCONNECTED IN FOCABLE IN RING FORMATION AND TO BE CONNECTED TO COMMON CONTROL ROOM BUILDING.
  8. ALL RMUS, CSS, LIGHTING FEEDER PILLARS, HM FEEDER PILLAR AND POWER FEEDER PILLAR ETC WHICH ARE FED FROM SUBSTATION SHALL BE INTERFACED WITH RESPECTIVE SUBSTATION SCADA THROUGH FOCABLE IN RING NETWORK.
  9. REDUNDANT SERVER IS TO BE PROVIDED FOR EACH SUBSTATION SCADA AND SCADA AT COMMON CONTROL ROOM BUILDING.
  10. STREET LIGHTING SHALL BE INTERFACED THROUGH LIGHTING SYSTEM CONSOLE OR THIRD PARTY CONNECTIVITY TO NEAREST S/STN/CSS.
  11. CONTRACTOR SHALL SUBMIT THE DETAILED ARCHITECTURE DRAWING BASED ON THIS TENDER DRAWING.

LEGEND

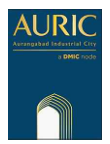
SYMBOL	DESCRIPTION
	ELECTRICAL LAN CONNECTION (TCP/IP)
	FIBRE OPTIC LAN CONNECTION (IEC61850)

ABBREVIATIONS

NR	NUMERICAL RELAY
HMI	HUMAN MACHINE INTERFACE
GPS	GLOBAL POSITIONING SYSTEM
SLD	SINGLE LINE DIAGRAM
TCP/IP	TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
NTP	NETWORK TIME PROTOCOL
LSC	LIGHTING SYSTEM CONSOLE
LDB	LIGHTING DISTRIBUTION BOARD
ICC	INTEGRATED CONTROL & COMMAND CENTER
TR	TRANSFORMER DATA

\* IN CONFERENCE ROOM OF ADMIN BUILDING OR AT A LOCATION SUGGESTED BY ENGINEER

FOR TENDER

CLIENT		
 <b>MAHARASHTRA INDUSTRIAL TOWNSHIP LTD (MITL)</b>		
PROJECT		
DESIGN, CONSTRUCTION, TESTING, COMMISSIONING AND OPERATION & MAINTENANCE OF INFRASTRUCTURE WORKS AT DIGHI PORT INDUSTRIAL AREA (DPIA)- PHASE 1 UNDER DELHI MUMBAI INDUSTRIAL CORRIDOR (DMIC) ON EPC BASIS		
TITLE		
<b>SUBSTATION AUTOMATION SYSTEM ARCHITECTURE- MV SYSTEM</b>		
PROJECT CODE: DI1628	STATUS: ISSUED FOR TENDER	DATE: 06.01.2025
SHEET NO: 01	SCALE: NTS	DWG SIZE: A1
DRAWING NO:		
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