



- NOTE
1. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
 2. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.
 3. 400/200 KV SUBSTATION, 220/33 KV SUBSTATION, 33 KV SWITCHING STATIONS, 33/11 KV SUBSTATIONS, 33 KV AND 11 KV RMUS AND 11/ 0.433 KV PACKAGE SUBSTATIONS SHALL BE CONNECTED TO SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM.
 4. MAIN CONTROL ROOM SHALL BE CREATED AT 400/220 KV AND 220/33 KV SUBSTATIONS BY MSETCL/MITL TO CONTROL AND MONITORING THE POWER FLOW OF THE ENTIRE CLUSTER.
 5. ALL SUBSTATION SCADA SHALL BE INTERCON-NECTED IN FO CABLE IN RING FORMATION AND TO BE CONNECTED TO COMMON CONTROL ROOM BUILDING.
 6. REDUNDANT SERVER IS TO BE PROVIDED FOR EACH SUB-STATION SCADA AND SCADA AT COMMON CONTROL ROOM BUILDING.
 7. CONTRACTOR SHALL SUBMIT THE DETAILED ARCHITECTURE DRAWING BASED ON THIS TENDER DRAWING.
 8. ALL GIS/ CABLE / DATA EVENTS/ TRANSFORM DATA TO BE CONTROLLED & MONITORED THROUGH WORK STATION

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
ICCC	INTEGRATED CONTROL & COMMAND CENTER
TR	TRANSFORMER DATA

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

FOR TENDER

CLIENT		
 MAHARASHTRA INDUSTRIAL TOWNSHIP LTD (MITL)		
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		
SUBSTATION AUTOMATION SYSTEM ARCHITECTURE 220/33 KV (MRSS) SUBSTATION		
PROJECT CODE: DI1628	STATUS: ISSUED FOR TENDER	DATE: 06.01.2025
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