



- NOTES:-
- ALL THE CT RATINGS WITH BURDEN SHALL BE CONSIDERED AS PER THE SYSTEM REQUIREMENT.
 - FINAL SWITCHGEARS RATING SHALL BE CONSIDERED BASED ON THE ACTUAL LOAD REQUIREMENT & AS PER THE ELECTRICAL DISTRIBUTION SCHEME.
 - SHORT CIRCUIT CURRENT RATING OF THE SWITCHGEARS & BUS SHALL BE AS PER SYSTEM DESIGN REQUIREMENTS.
 - FRLS COPPER CONTROL WIRING WITH SPACE HEATER, THERMOSTAT AND CONTROL MCB'S ETC. SHALL BE PROVIDED IN ALL THE ELECTRICAL PANELS AS REQUIRED.
 - FINAL CABLE SIZES SHALL BE CONSIDERED BASED ON THE ACTUAL LOAD REQUIREMENT & AS PER THE ELECTRICAL DISTRIBUTION SCHEME.

- NOTES:
- THIS DRAWING IS THE PROPERTY OF EGIS INDIA CONSULTING ENGINEERS PVT. LTD. AND MUST NOT BE PASSED TO ANY PERSON OR BODY NOT AUTHORIZED BY US TO RECEIVE IT NOT BE COPIED OR OTHERWISE MADE USE EITHER IN FULL OR IN PART BY SUCH PERSON OR BODY WITHOUT OUR PRIOR PERMISSION IN WRITING.
 - TO ACHIEVE A RELIABLE POWER SUPPLY TO COMPLETE DPIA, IT IS PROPOSED THAT, THERE WILL BE ONE NUMBER OF MRSS UNDER MSETCL SCOPE I.E. 400/220 kV SUBSTATION TO CATER TO THE OVERALL DEMAND OF PARCEL A AND PARCEL B. IN DOWNSTREAM OF THE 400/220 kV SUBSTATION, THERE WILL BE TWO NUMBERS OF ZSS (UNDER MSETCL SCOPE). I.E. OF 220/33 kV SUBSTATIONS PROPOSED WITH GAS INSULATED GAS-INSULATED SWITCHGEAR (GIS) SETS (UNDER MSETCL SCOPE).
 - EACH 220 kV SUBSTATION SHALL RECEIVE DOUBLE CIRCUIT 220KV OVERHEAD TRANSMISSION LINES FROM 400/220 kV SUBSTATION TO KEEP 100% REDUNDANCY. TWO NUMBER OF 220/33 kV SUBSTATIONS (ZSS-1 AND 2) OF AGGREGATE CAPACITY 220/33 kV. 8 X 100 MVA. EACH ONE OF 220/33 kV. 4 X 100 MVA CAPACITY SHALL BE CONSIDERED TO CATER THE OVERALL DEMAND OF PHASE 1, 2 AND 3
 - IN PHASE-1, AS A PART OF THIS CONTRACT, ONLY ONE NUMBER OF 220/33 kV. 4 X 100 MVA ZONAL SUBSTATION (ZSS-1) SHALL BE PROVIDED (UNDER MSETCL SCOPE). BY THE CONTRACTOR TO CATER TO THE LOAD OF PHASE-1, DPIA PARCEL B
 - POWER SUPPLY TO 400/220 kV SUBSTATION SHALL BE SUPPLIED THROUGH LULO (N+1 CONFIGURATION) ON 400 kV DABHOL- NAGOTHANE DOUBLE CIRCUIT TRANSMISSION LINE. CONFIRMATION OF THE SAME HAS BEEN RECEIVED BY MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD (MSETCL) THROUGH LETTER NUMBER MSETCL/CMD/DIGHU/07610 DATED 28/10/2022
 - ALL OUTGOING FEEDERS SHALL BE PLC/SCADA COMPLIANCE
 - ALL HT/LT POWER AND CONTROL CABLES, OFC CABLES INCLUDING CABLE CONTAINMENTS UP TO / FROM THE 220/33 kV SUBSTATION EQUIPMENT E.G., LAYING AND TERMINATION OF 33 kV CABLES UP TO/FROM THE 33 kV SWITCHGEAR OF 220/33 kV SUBSTATION, WITHIN ANY (INTER/INTRA) SUB STATIONS, INSTRUMENTATION/ OFC CABLES UP TO THE SCADA/ANY CONTROLLERS/RELAYS/INSTRUMENTS SYSTEM OF 220/33 kV SUBSTATION INCLUDING ASSOCIATED CIVIL WORKS SHALL BE IN THE SCOPE OF THE EPC CONTRACTOR.
 - SUPPLY AND INSTALLATION OF 400/220 kV SUBSTATIONS. 220/33 kV SUBSTATIONS ALONG WITH EHV (400 kV AND 220 kV) OVERHEAD TRANSMISSION NETWORK SHALL BE ESTABLISHED BY MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD (MSETCL).
 - THE DETAILED ROUTE SURVEY FOR THE PROPOSED 400 kV AND 220 kV DOUBLE CIRCUIT TRANSMISSION LINES, ALONG WITH THE SELECTION OF THE MOST OPTIMUM ROUTE TO CIRCUMVENT ENVIRONMENTALLY SENSITIVE AREAS, WILL BE CONDUCTED BY THE STATE TRANSMISSION UTILITY. I.e. MSETCL
 - THE INTERFACING OF THE EPC SCOPE SUBSTATIONS SCADA'S WITH MSETCL/MTL SUBSTATIONS SCADA'S SHALL BE IN THE SCOPE OF EPC BIDDER.
 - LOCATION OF MRSS IS IN PARCEL -A & ZSS SHALL BE PARCEL-B
 - DETAIL ENGINEERING SHALL BE SUBMITTED BY CONTRACTOR BASED ON TENDER DRAWINGS & THE SURVEY CONDUCTED BY CONTRACTOR.

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

400/220/33/11 kV SUBSTATION
POWER DISTRIBUTION BLOCK DIAGRAM

PROJECT CODE: DI1628 STATUS: ISSUED FOR TENDER DATE: 18.12.2024

SHEET NO: 01 OF 01 SCALE: NTS DWG SIZE: A1 REV NO: R0

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