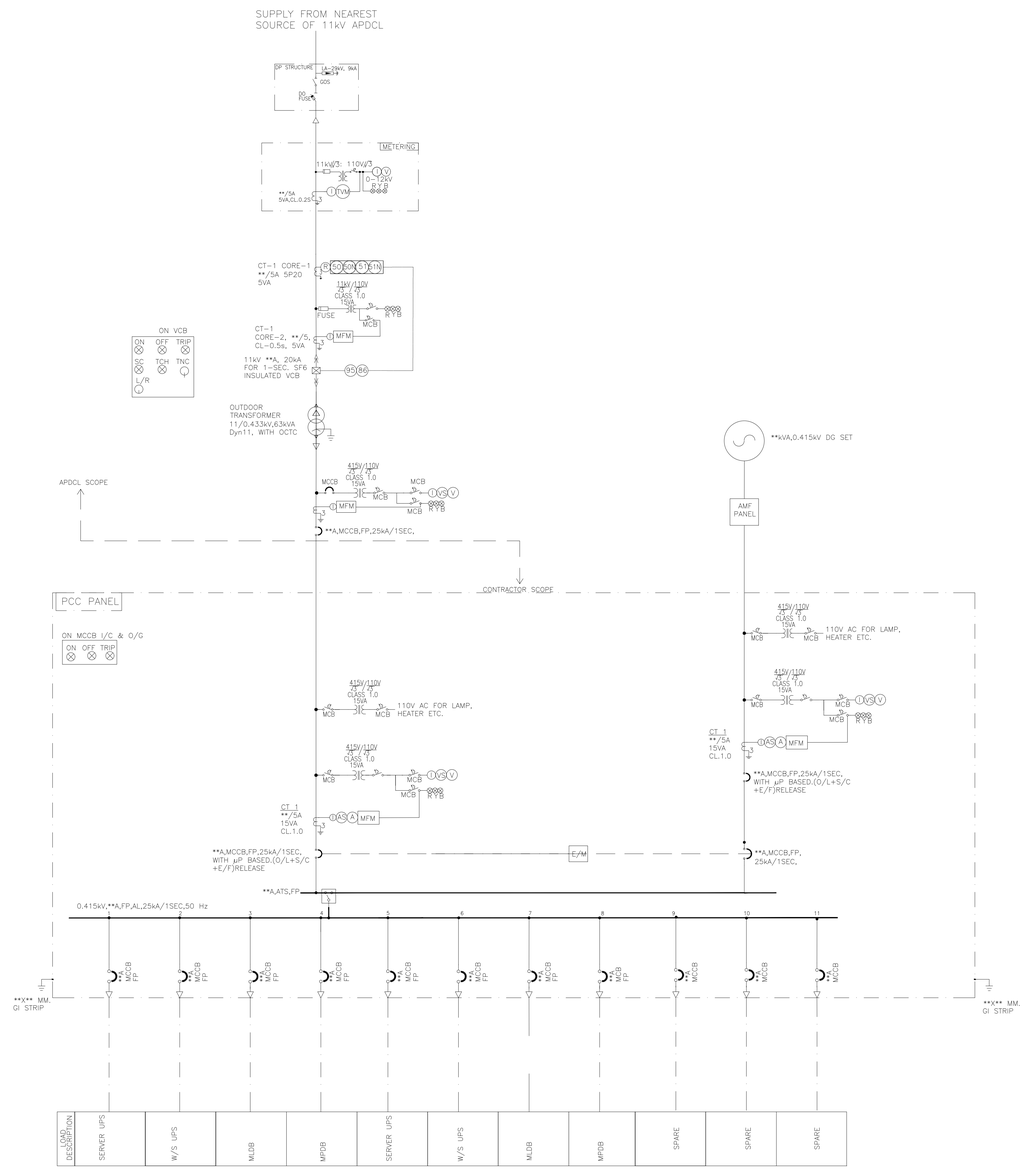
TITLE: SINGLE LINE DIAGRAM FOR MSI PROJECT (SHEET 1 OF 2)

DWG NO: TCE.10477A-EL-4001-AU-40002

GENERAL NOTES

1. THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE MSI BUILDING.
2. ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
3. ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
4. CONTACTOR SHALL BE OF AC3 DUTY.
5. THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED.OPERATING HANDLE FOR OPERATING MCCBs WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED.MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
6. MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
7. ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
8. ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.



LEGEND:

	VACCUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCB(MINIATURE CIRCUIT BREAKER)
	MCCB(MOULDED CASE CIRCUIT BREAKER)
⊗	INDICATING LAMP
3	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER(PT)
AS	AMMETER SELECTOR SWITCH
A	ANALOG AMMETER
MFM	MULTIFUNCTION METER
	DIESEL GENERATOR
27	U/V RELAY
59	O/V RELAY
95	MASTER TRIP RELAY
I	INSTRUMENTATION
	LOAD BREAK SWITCH
50	INST. O/C PROTECTION
50N	INST. E/F PROTECTION
51	IDMT. O/C PROTECTION
VS	VOLTMETER SELECTOR SWITCH
V	ANALOG VOLTMETER
51	OVER CURRENT RELAY
86	LOOK OUT RELAY
E/M	ELECTRO-MECHANICAL INTERLOCK

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Purpose : FOR TENDER PURPOSE ONLY

DO NOT SCALE

'P' (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.

CONSTRUCTION / FABRICATION WORK IS PERMITTED ON 'R' (RELEASED) ISSUES ONLY.

INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLDS' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLDS'.

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FILE NAME : 10477A-EL-40002-REV-P0

GUWAHATI SMART CITY LIMITED

SINGLE LINE DIAGRAM FOR MSI PROJECT (SHEET 1 OF 2)

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:500

DC & DSC : DC-KOL

DWG. NO. TCE.10477A-EL-4001-AU-40002

ISSUE R0

TCE FORM NO. 090 R0

FILE NAME: F-090-Rev-R0.dwg