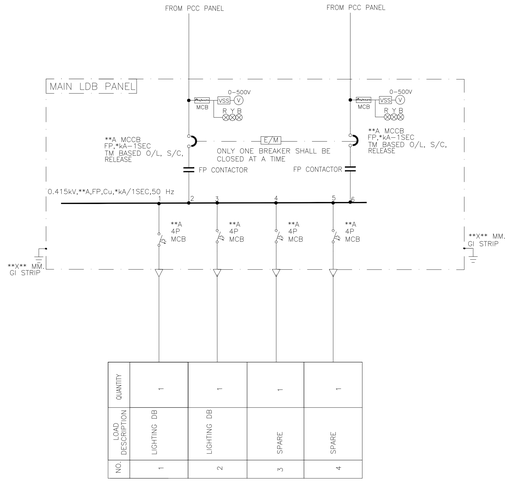
TITLE: SINGLE LINE DIAGRAM FOR MSI PROJECT (SHEET 2 OF 2)

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



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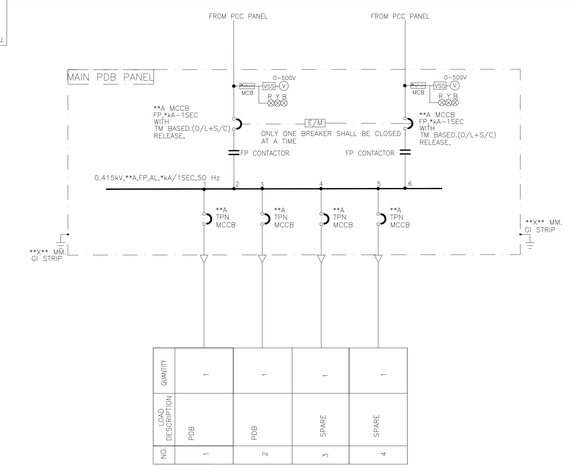

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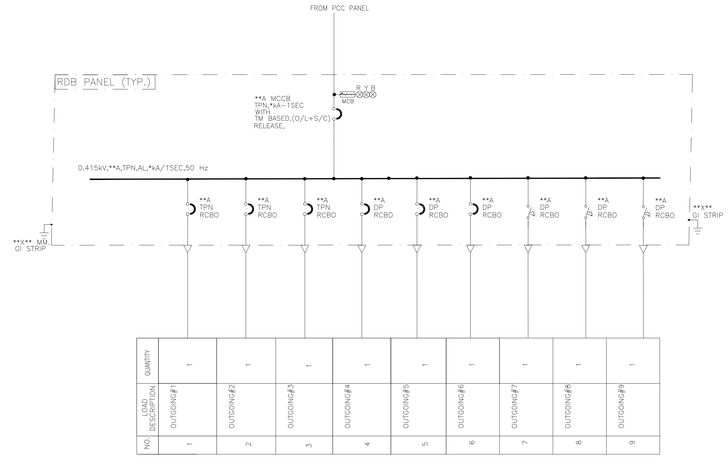


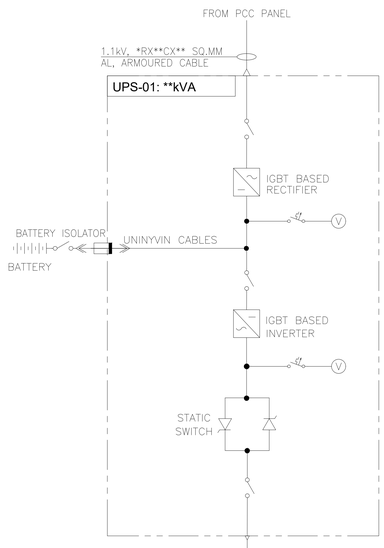
NO.	LOAD DESCRIPTION	QUANTITY
1	OUTGOING#1	1
2	OUTGOING#2	1
3	OUTGOING#3	1
4	OUTGOING#4	1
5	OUTGOING#5	1
6	OUTGOING#6	1
7	OUTGOING#7	1
8	OUTGOING#8	1
9	OUTGOING#9	1

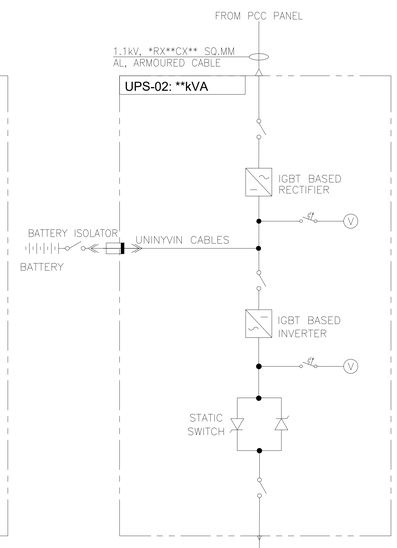
GENERAL NOTES

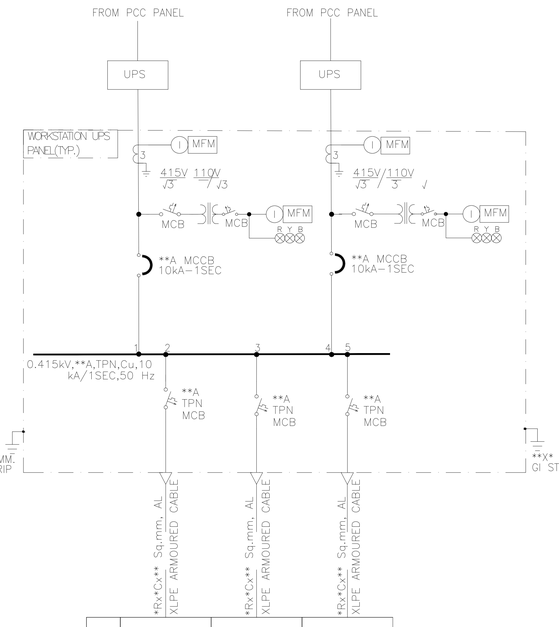
1. THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE MSI BUILDING.
2. ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
3. ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
4. CONTACTOR 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 CONTANTS.
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
S	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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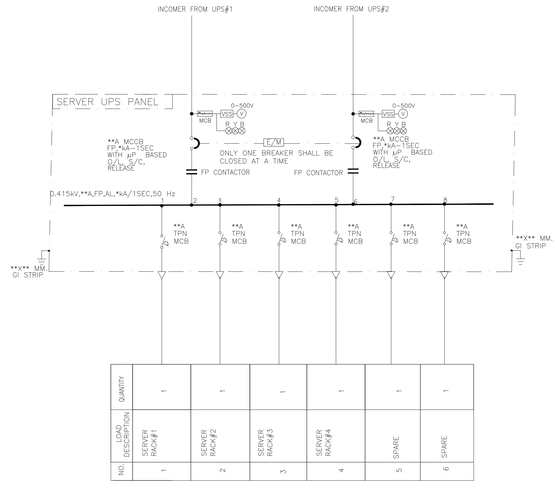

NO.	LOAD DESCRIPTION	QUANTITY
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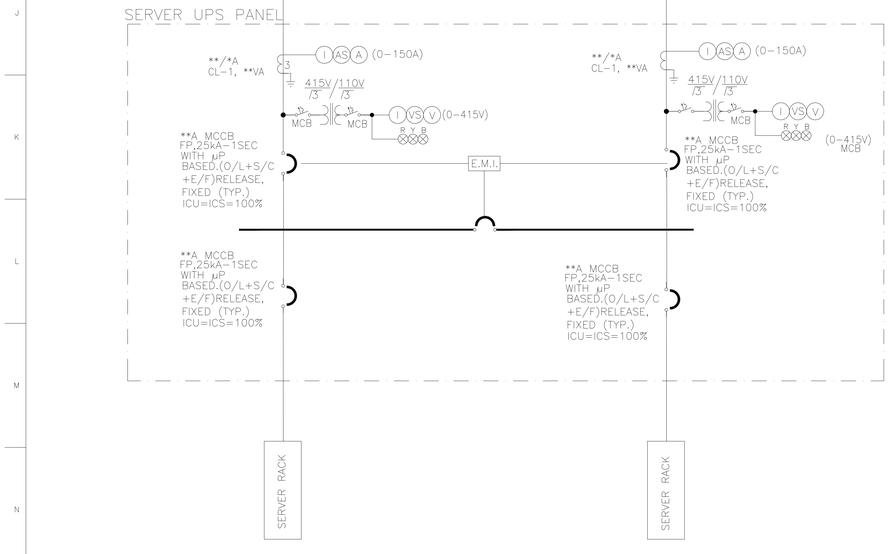

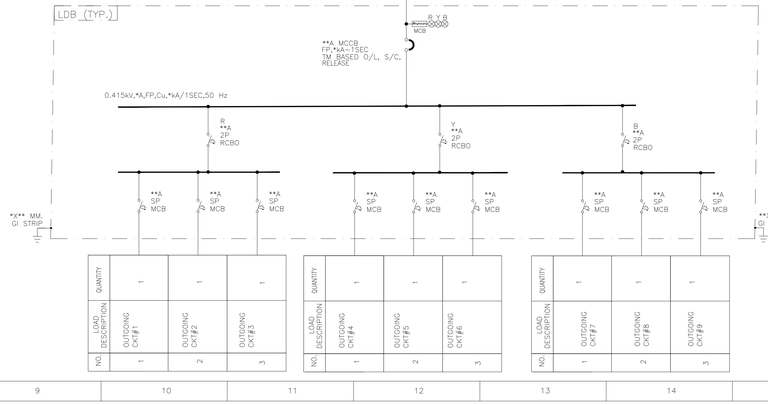

NO.	LOAD DESCRIPTION	QUANTITY
1	OUTGOING CKT.#1	1
2	OUTGOING CKT.#2	1
3	OUTGOING CKT.#3	1

NO.	LOAD DESCRIPTION	QUANTITY
1	OUTGOING CKT.#4	1
2	OUTGOING CKT.#5	1
3	OUTGOING CKT.#6	1

NO.	LOAD DESCRIPTION	QUANTITY
1	OUTGOING CKT.#7	1
2	OUTGOING CKT.#8	1
3	OUTGOING CKT.#9	1

	SIGN.										
	INITIALS										
	REVISIONS										
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R0	SIGN.										
	INITIALS	DK		PKS	PKS					AD	VVB
ISSUE		DRN		DSN	CHD	CV	EL	IC	ME	PE/PM	APPD
						CLEARED					

Purpose : FOR TENDER PURPOSE ONLY

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FILE NAME : 10477A-EL-40002-REV-R0

GUWAHATI SMART CITY LIMITED

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

TATA CONSULTING ENGINEERS LIMITED

SCALE	: 1:500	DWG NO.	TCE.10477A-EL-4001-AU-40002
DC & DISC: DC-PUN		ISSUE	R0

TCE FORM NO. 090 R0

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