



This drawing is the property of LAT Construction BAP-EDRC and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of in full or in part by such person or body without our prior permission in writing.

LEGEND		
S.NO	SYMBOL	DESCRIPTION
1		DS SET
2		VACUUM CIRCUIT BREAKER (DRAW OUT TYPE)
3		AIR CIRCUIT BREAKER (MCO)
4		AIR CIRCUIT BREAKER (EDO)
5		DISTRIBUTION TRANSFORMER
6		3PH-4W INSULATED DRAW OUT TYPE PT
7		MINIATURE CIRCUIT BREAKER
8		MOULDED CASE CIRCUIT BREAKER (MCCB)
9		CONTROL FUSE (HRC)
10		ELECTRONIC ELECTRIC METERING
11		VOLTMETER SELECTOR SWITCH
12		LOCAL CONTROL PANEL
13		ELECTRONIC TRIVECTOR METER
14		POWER CONTACTOR
15		INDICATION LAMP
16		HIGH FREQUENCY FILTER
17		VARIABLE FREQUENCY DRIVE
18		LOAD BREAK SWITCH
19		AUTOMANUAL SELECTOR SWITCH
20		GROUNDING
21		SINGLE PHASE PREVENTOR
22		START DELTA STARTER
23		CAPACITOR BANK
24		AUTOMATIC POWER FACTOR CORRECTION RELAY
25		INSTANTANEOUS OVER CURRENT RELAY
26		INSTANTANEOUS EARTH FAULT RELAY
27		UNDER VOLTAGE RELAY
28		IMT EARTH FAULT RELAY
29		MASTER TRIP RELAY
30		AUXILIARY RELAY
31		OVERVOLTAGE RELAY
32		UNDER VOLTAGE RELAY
33		TRIP CIRCUIT SUPERVISION RELAY
34		RESTRICTED EARTH FAULT RELAY
35		DIGITAL VOLTMETER
36		PHASE SEQUENCE VOLTAGE RELAY
37		DIRECTIONAL POWER RELAY
38		EARTH LEAKAGE
39		AMMETER SELECTOR SWITCH
40		DIRECT ONLINE STARTER
41		BUILDING MANAGEMENT SYSTEM
42		TRIP TRIVECTOR METER
43		MOTOR
44		MULTI FUNCTION METER
45		ISOLATOR
46		CURRENT TRANSFORMER
47		BUSDUCT
48		LIGHTING DISTRIBUTION BOARD
49		EMERGENCY LIGHTING DISTRIBUTION BOARD
50		POWER DISTRIBUTION BOARD
51		LPS DISTRIBUTION BOARD

SEQUENCE OF INTERLOCKING SCHEME FOR MAIN LT PANEL						
SL NO	CONDITION OF POWER SUPPLY	SECTION-A	SECTION-B	SECTION-C	SECTION-D	REMARKS
1	IF BOTH TRANSFORMER ARE HEALTHY (EB SUPPLY ON)	ON	OFF	OFF	ON	OFF
2	IF TR1 IS UNHEALTHY	OFF	ON	OFF	ON	OFF
3	IF TR2 IS UNHEALTHY	OFF	ON	OFF	ON	OFF
4	IF BOTH TRANSFORMER ARE UNHEALTHY (EB SUPPLY NOT AVAILABLE)	OFF	ON	ON	OFF	OFF
5	IF TR1 ON HEALTHY & TR2 IS UNHEALTHY	ON	OFF	OFF	ON	ON
6	IF TR2 ON HEALTHY & TR1 IS UNHEALTHY	ON	OFF	OFF	ON	ON

NOTES:						
1	MAIN LT PANEL SHOULD FOLLOW THE REQUIREMENTS OF DISCONNECT SPECIFICATIONS.					
2	CONTROL CIRCUIT VOLTAGE SHALL BE 230V AC UNLESS SPECIFIED.					
3	NEUTRAL EARTHINGS SHALL BE OF ADEQUATE SIZE OF G.P. PLATINUM AND BODY EARTHING SHALL BE OF ADEQUATE SIZE OF G.P. PLATINUM.					
4	ALL EQUIPMENTS & PANELS ARE DOUBLE EARTHED WITH ADEQUATE SIZE OF G.P. PLATINUM (EARTHING).					
5	ALL ACB SHALL BE WITH MICROPROCESSOR BASED TRIP RELEASE.					
6	ALL POWER CABLES SHALL BE ARMORED CABLES UNLESS OTHERWISE SPECIFIED.					
7	ALL THE FEEDERS SHALL BE LABELED WITH FEEDER IDENTIFICATION.					
8	TRIP RELEASE SHALL BE READ AS CONFORMAL SPECIFICATION, BOD & OTHER S.D.					
9	EARTHING SHALL BE CARRIED OUT AS PER IS 3043.					
10	FOR EARTHING RELEASE REFER THE RESPECTIVE EARTHING SCHEMATIC DRAWING.					
11	ALL PANELS ARE WITH ALUMINIUM BUSBAR.					
12	MCCB RATED TO 100A AND 125A SHALL BE THERMAL MAGNETIC RELEASE AND ABOVE 250A UP TO 800A SHALL BE MICROPROCESSOR RELEASE.					
13	DO NOT STARTERS SHALL BE USED FOR MOTORS HAVING RATING UP TO 7.5kW AND ABOVE SHALL BE START DELTA STARTER. THESE SHALL BE AS PER VENDOR'S CO-ORDINATION BASED ON MCCB MCC AND CONTRACTOR. THE FINAL RATING IS DESIGNED BASED ON SELECTED VENDOR CO-ORDINATION CHART & PANEL EQUIPMENT DATA.					

1	RELEASED AS PER FINAL MEP LOADS						
		HK	20.08.2019	SVN	21.08.2019	RS	23.08.2019
0	RELEASED AS GOOD FOR CONSTRUCTION	HK	26.12.2019	SVN	26.12.2019	RS	26.12.2019
B	REVISED AS PER CLIENTS COMMENTED DATED : 24.10.2019	HK	13.11.2019	SVN	14.11.2019	RS	15.11.2019
A	RELEASED FOR APPROVAL	HK	15.12.2019	SVN	15.12.2019	RS	15.12.2019
REVNO.	DESCRIPTION	DESIGNED		DRAWN		CHECKED	

CLIENT:

ASSAM CANCER CARE FOUNDATION

PROJECT:

Proposed Cancer Center At 18 Locations In Assam For Assam Cancer Care Foundation & Mts. Tata Trusts

SUPPLIER CONTRACTOR:

Larsen & Toubro Limited, Construction, Buildings & Facilities

JOB No:

O19035-E-HP-08-1L-0001

TITLE:

DIBURGAH HOSPITAL BLOCK & LINAC BLOCK MASTER SINGLE LINE DIAGRAM

REVISIONS:

NO	DATE	DESCRIPTION
1	20.08.2019	RELEASED AS PER PANEL MFL LOGS
2	26.12.2019	RELEASED AS GOOD FOR CONSTRUCTION
3	26.12.2019	RELEASED AS PER CLIENT'S COMMENTED DATED: 24.12.2019
4	13.11.2019	RELEASED FOR APPROVAL
5	15.12.2019	RELEASED FOR APPROVAL

CONSULTANT:

Engineering Design and Research Center (EDRC), LAT Construction - Buildings & Facilities

ARCHITECT:

Engineering Design and Research Center (EDRC), LAT Construction - Buildings & Facilities

SCALE:

NTS

DRAWING No:

O19035-E-HP-08-1L-0001

RELEASED FOR:

☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☒ CONSTRUCTION