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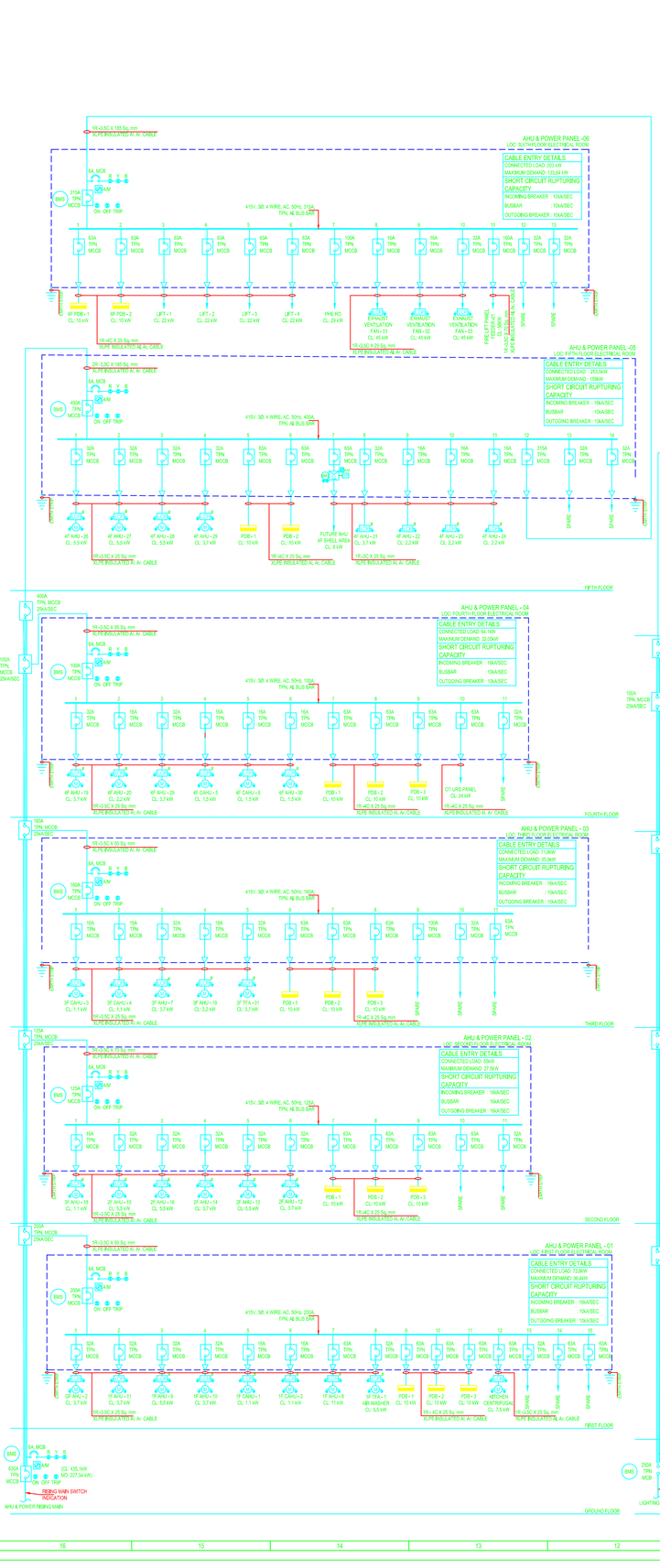

LEGEND

SL.NO	SYMBOL	DESCRIPTION
1		DG SET
2		VACUUM CIRCUIT BREAKER (DRAW OUT TYPE)
3		AIR CIRCUIT BREAKER (MDO)
4		AIR CIRCUIT BREAKER (EDO)
5		DISTRIBUTION TRANSFORMER
6		30%-AIR INSULATED DRAW OUT TYPE PT
7		MINIATURE CIRCUIT BREAKER
8		MOULDED CASE CIRCUIT BREAKER (MCCB)
9		CONTROL FUSE (HRC)
10	EEM	ELECTRONIC ENERGY METERING
11	VSS	VOLTMETER SELECTOR SWITCH
12	LCP	LOCAL CONTROL PANEL
13	ETVM	ELECTRONIC TRIVECTOR METER
14		POWER CONTACTOR
15		INDICATION LAMP
16		DETUNED HARMONIC FILTER
17	VFD	VARIABLE FREQUENCY DRIVE
18		LOAD BREAK SWITCH
19		AUTOMANUAL SELECTOR SWITCH
20		GROUNDING
21	SPP	SINGLE PHASE PREVENTOR
22		START DELTA STARTER
23		CAPACITOR BANK
24	APFCR	AUTOMATIC POWER FACTOR CORRECTION RELAY
25	50	INSTANTANEOUS OVER CURRENT RELAY
26	50N	INSTANTANEOUS EARTH FAULT RELAY
27	51	IDMT OVERCURRENT RELAY
28	51N	IDMT EARTH FAULT RELAY
29	86	MASTER TRIP RELAY
30	X1	AUXILIARY RELAY
31	59	OVER/VOLTAGE RELAY
32	27	UNDER VOLTAGE RELAY
33	95	TRIP CIRCUIT SUPERVISION RELAY
34	64R	RESTRICTED EARTH FAULT RELAY
35	DV	DIGITAL VOLTMETER
36	47	PHASE-SEQUENCE VOLTAGE RELAY
37	32	DIRECTIONAL POWER RELAY
38	E/L	EARTH LEAKAGE
39	ASS	AMMETER SELECTOR SWITCH
40		DIRECT ONLINE STARTER
41	BMS	BUILDING MANAGEMENT SYSTEM
42	TVM	TRI VECTOR METER
43		MOTOR
44	MFM	MULTI FUNCTION METER
45		ISOLATOR
46		CURRENT TRANSFORMER
47		BUSDUCT
48		LIGHTING DISTRIBUTION BOARD
49		EMERGENCY LIGHTING DISTRIBUTION BOARD
50		POWER DISTRIBUTION BOARD
51		UPS DISTRIBUTION BOARD

NOTES:

1. MAIN LT PANEL SHOULD FULFILL THE REQUIREMENTS OF CEIG/RELEVANT SPECIFICATIONS.
2. CONTROL CIRCUIT VOLTAGE SHALL BE 230V AC UNLESS SPECIFIED.
3. NEUTRAL/EARTHING SHALL BE OF ADEQUATE SIZE OF Cu, FLAT STRIP AND BODY EARTHING SHALL BE OF ADEQUATE SIZE OF GI FLAT STRIP.
4. ALL EQUIPMENTS & PANELS ARE DOUBLE EARTHED WITH ADEQUATE SIZE OF G.I. STRIPS(BODY EARTHING)
5. ALL ACB's SHALL BE WITH MICROPROCESSOR BASED INARULT RELEASE.
6. ALL POWER CABLES ARE ARMOURED CABLES UNLESS OTHERWISE SPECIFIED.
7. ALL THE FEEDERS SHALL BE LABELLED WITH FEEDER IDENTIFICATION.
8. THIS SLD SHOULD BE READ IN CONJUNCTION WITH RELEVANT TECHNICAL SPECIFICATION, BOQ & OTHER SLD.
9. EARTHING SHALL BE CARRIED OUT AS PER IS 3043.
10.FOR EARTHING PLEASE REFER THE RESPECTIVE EARTHING SCHEMATIC DRAWING.
11.ALL PANELS ARE WITH ALUMINIUM BUSBAR.
12. MCCBs RATED UP TO AND INCLUDING 250A SHALL BE THERMAL MAGNETIC RELEASE AND ABOVE 250A UP TO 800A SHALL BE MICROPROCESSOR RELEASE.
13. DOL STARTERS SHALL BE USED FOR MOTORS HAVING RATING UP TO 7.5kW AND ABOVE SHALL BE STAR-DELTA STARTER. THESE SHALL BE AS PER TYPE-2 COORDINATION BASED ON MPCB, MCCB AND CONTACTOR, THE FINAL RATING IS DESIGNED BASED ON SELECTED VENDOR CO-ORDINATION CHART & TRIVIL EQUIPMENT RATING.

REFERENCE DRAWINGS (LATEST REVISION)

ELECTRICAL	
O19035-E-HP-04-1L-0001	BARPETA MASTER SINGLE LINE DIAGRAM (SHEET 1 OF 2)

* -INDICATES VFD

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	RELEASED AS GOOD FOR CONSTRUCTION	HK 06.12.2019	SVM 06.12.2019	RS 06.12.2019	RGA 09.12.2019
B	REVISED AS PER CLIENT COMMENTED DATE : 03.10.19	HK 04.11.2019	SVM 04.11.2019	RS 05.11.2019	RGA 10.11.2019
A	RELEASED FOR APPROVAL	HK 12.09.2019	SVM 12.09.2019	RS 13.09.2019	RGA 13.09.2019

REVISIONS

CLIENT : ASSAM CANCER CARE FOUNDATION

L&T Construction Buildings & Factories

O19035-E-HP-04-1L-0002 REV-0

PROJECT : Proposed Cancer Centre At 18 Locations In Assam For Assam Cancer Care Foundation & M/s. Tata Trusts

BARPETA CANCER CENTRE (A Government of Assam and Tata Trusts Initiative).

CONSULTANT: Engineering Design and Research Center (EDRC), L&T Construction - Buildings & Factories.

CONCEPT ARCHITECT: Engineering Design and Research Center (EDRC), L&T Construction - Buildings & Factories.

SUPPLIER/ CONTRACTOR : Larsen & Toubro Limited, Construction, Buildings & Factories

JOB No : O19035

	NAME	SIGN	DATE
DSGN	HK	HK	12.09.2019
DRWN	SVM	SVM	12.09.2019
CHKD	RS	RS	13.09.2019
APPD	RGA	RGA	13.09.2019

TITLE:

BARPETA

HOSPITAL BLOCK & LINAC BLOCK

MASTER SINGLE LINE DIAGRAM

SECTION/ ELEVATION MARKING

DRAWING NUMBER

SCALE NTS

DRAWING No. O19035-E-HP-04-1L-0002

PROJECTION

SIZE A0 REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION