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

- NOTES:
1. MAIN LT PANEL SHOULD FULFIL THE REQUIREMENTS OF COORDINATE SPECIFICATIONS.
  2. CONTROL GROUP VOLTAGE SHALL BE 20V AC UNLESS SPECIFIED.
  3. NEUTRAL EARTHING SHALL BE OF ADEQUATE SIZE OF GIL PLAT STRIP AND BODY EARTHING SHALL BE OF ADEQUATE SIZE OF GIL PLAT STRIP.
  4. ALL EQUIPMENTS & PANELS ARE DOUBLE EARTHED WITH ADEQUATE SIZE OF GIL STRIP BODY EARTHING.
  5. ALL MCCB SHALL BE WITH MICROPROCESSOR BASED INVERSE TRIP.
  6. ALL POWER CABLES ARE ARMORED CABLES UNLESS OTHERWISE SPECIFIED.
  7. ALL THE FEEDERS SHALL BE LABELED WITH FEEDER IDENTIFICATION.
  8. THIS SLD SHOULD BE READ IN CONJUNCTION WITH RELEVANT TECHNICAL SPECIFICATION, BOQ & OTHER SLD.
  9. EARTHING SHALL BE CARRIED OUT BY THE E&S.
  10. FOR EARTHING PLEASE REFER THE RESPECTIVE EARTHING SCHEMATIC DRAWING.
  11. ALL PANELS ARE WITH ALUMINIUM BUSBAR.
  12. MCCB 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 20kW AND ABOVE SHALL BE STAR DELTA STARTER. THESE SHALL BE AS PER TYPE COORDINATION BASED ON MCCB MCCB AND CONTACTOR. THE FINAL RATING IS DESIGNED BASED ON SELECTED VENDOR COORDINATION CHART & FINAL EQUIPMENT RATING.

REFERENCE DRAWINGS (LATEST REVISION)

ELECTRICAL  
O19035-E-HP-06-1L-0002 - TEPZUR MASTER SINGLE LINE DIAGRAM (SHEET 2 OF 2)

# - INDICATES VFD

SEQUENCE OF INTERLOCKING SCHEME FOR MAIN LT PANEL

SL NO.	CONDITION OF POWER SUPPLY	SECTION-1 (ACB-1)	SECTION-2 (ACB-2)	SECTION-3 (ACB-3)	SECTION-4 (ACB-4)	REMARKS
1	IF BOTH TRANSFORMER ARE HEALTHY (E-SUPPLY ON)	ON	ON	ON	ON	
2	IF TR-1 IS UNHEALTHY & TR-2 IS HEALTHY	OFF	ON	ON	ON	
3	IF TR-2 IS UNHEALTHY & TR-1 IS HEALTHY	ON	OFF	ON	ON	
4	IF BOTH TRANSFORMER ARE UNHEALTHY (E-SUPPLY NOT AVAILABLE)	OFF	OFF	OFF	OFF	
5	IF TR-1 IS UNHEALTHY & DOL FAILS TO START, TR-2 IS HEALTHY	OFF	OFF	ON	ON	
6	IF TR-2 IS UNHEALTHY & DOL FAILS TO START, TR-1 IS HEALTHY	ON	OFF	OFF	ON	

0	RELEASED AS GOOD FOR CONSTRUCTION	HK	30.12.2019	SVM	30.12.2019	RS	30.12.2019	RGA	30.12.2019
B	REVISED AS PER CLIENT'S COMMENTED DATED: 30.10.19	HK	14.11.2019	SVM	14.11.2019	RS	15.11.2019	RGA	15.11.2019
		HK	14.11.2019	SVM	14.11.2019	RS	15.11.2019	RGA	15.11.2019
		HK	17.10.2019	SVM	17.10.2019	RS	18.10.2019	RGA	18.10.2019
A	RELEASED FOR APPROVAL	HK	17.10.2019	SVM	17.10.2019	RS	18.10.2019	RGA	18.10.2019
REV.NO.	DESCRIPTION	DESIGNED		DRAWN		CHECKED		APPROVED	

CLIENT :

ASSAM CANCER CARE FOUNDATION

PROJECT : Proposed Cancer Centre At 16 Lokapada in Assam For Assam Cancer Care Foundation & Tata Trusts

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

REVISIONS

NO.	REVISION	DATE
01	ISSUED FOR APPROVAL	16.12.2019

PROJECT CONSULTANT : Engineering Design and Research Center (EDRC), Assam Cancer Care Foundation & Tata Trusts

CONCEPT ARCHITECT : Engineering Design and Research Center (EDRC), Assam Cancer Care Foundation & Tata Trusts

JOB NO : O19035

DATE : 17.12.2019

SCALE : NTS

PROJECTION : FIRST ANGLE

SIZE : A0

REV : 0

DRAWING No. O19035-E-HP-06-1L-0001

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

