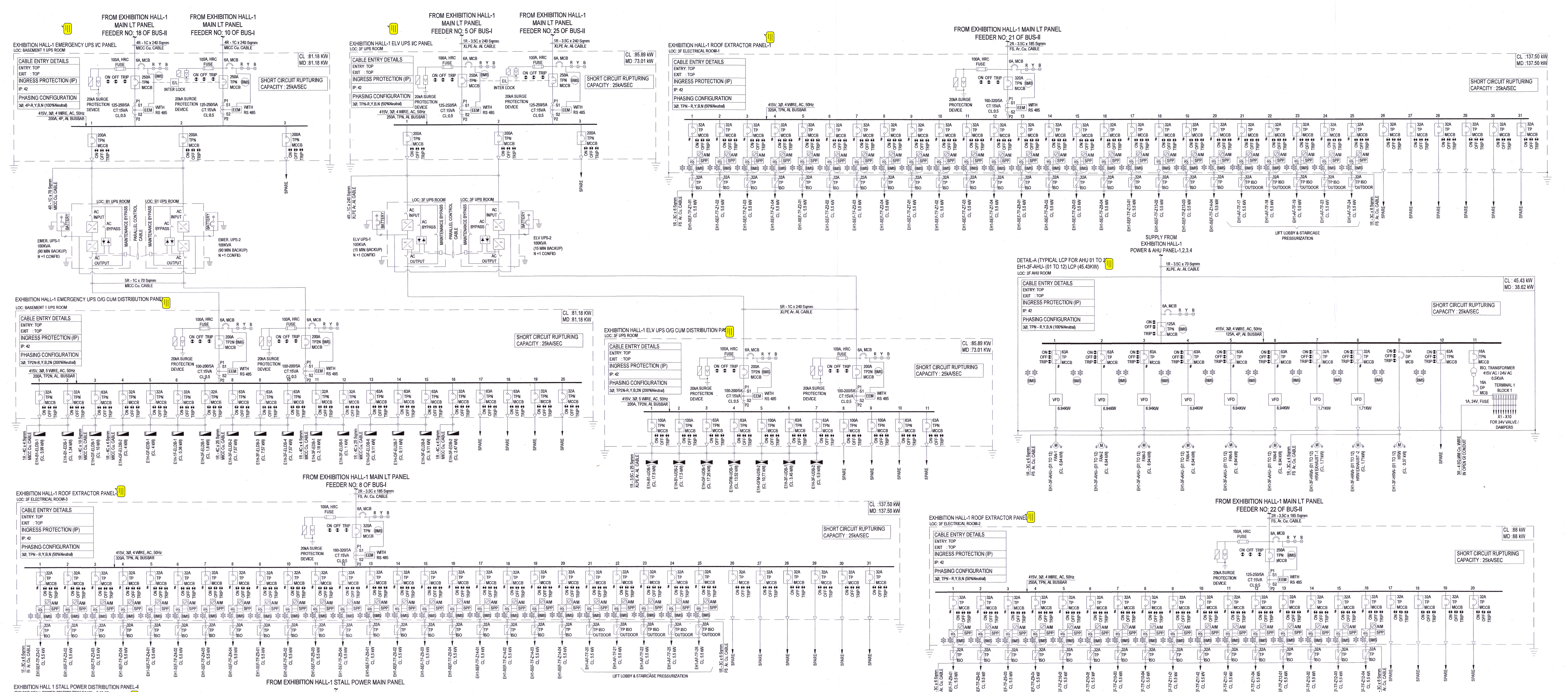

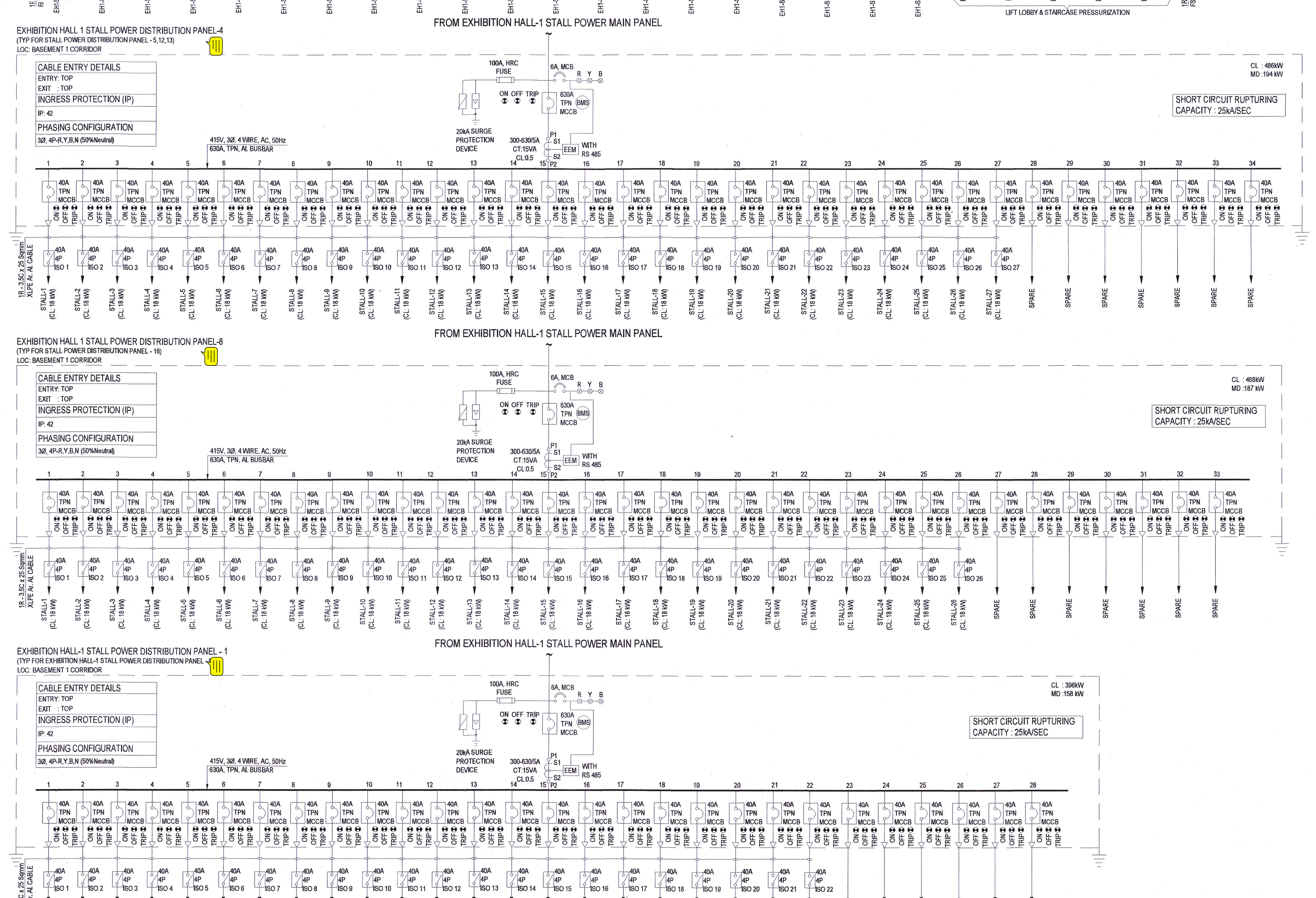

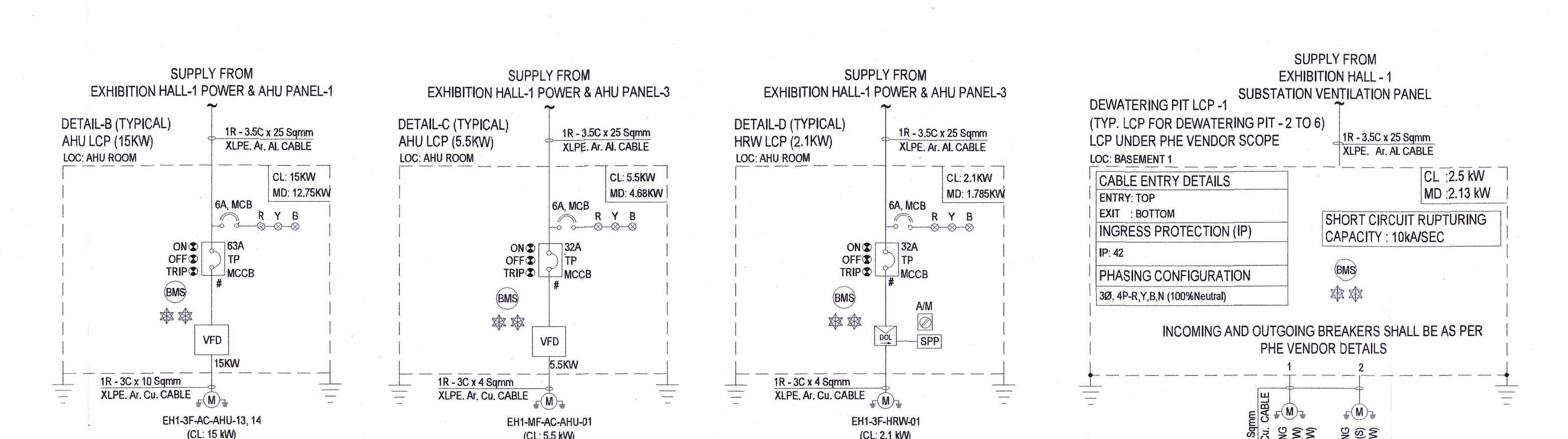

NOTES

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18. 2 NOS 25 X 3 MM COPPER STRIP FOR LT PANEL UP TO 400 AMP AND 25 X 5 MM COPPER STRIP FOR LT PANEL OF HIGHER CAPACITY SHALL BE PROVIDED INSIDE THE PANELS.
19. ALL INCOMING AIR CIRCUIT BREAKERS (ACBS) SHALL BE OF ELECTRICALLY OPERATED DRAW -OUT TYPE (EDO) ENCASED IN METAL CLAD HOUSINGS AND OUTGOING SHALL BE MDO TYPE.
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25. REFER EQUIPMENT & CABLE TRAY LAYOUT FOR LCP LOCATIONS.
26. REFER CABLE SCHEDULE FOR LCP INCOMING & OUTGOING FEEDERS.

HYBRID POWER FACTOR CONTROLLER PANELS AND ITS SCHEME SHALL BE SUBMITTED ALONG WITH THE VENDOR TECHNICAL SUBMITTALS AS IT WILL VARY BASED ON VENDORS. WE HEREBY CONFIRM THAT WE HAVE SELECTED AND INDICATED THE MAXIMUM HPFC RATING THAT WOULD BE REQUIRED FOR 2500 KVA TRANSFORMER, BREAKERS AND CABLES INDICATED IN THE SLD ARE SUFFICENT FOR THE HPFC PANEL.

BMS MONITOR/COMMAND STATUS

BMS	NO/NC POTENTIAL FREE CONTACTS TO BE PROVIDED IN THE PANEL FOR ON/OFF STATUS, TRIP STATUS
BMS M	NO/NC POTENTIAL FREE CONTACTS TO BE PROVIDED IN THE PANEL FOR ON/OFF STATUS, TRIP STATUS, VOLTAGE PRESENSE
BMS	NO/NC POTENTIAL FREE CONTACTS TO BE PROVIDED IN THE PANEL FOR ON/OFF STATUS, TRIP STATUS, ON/OFF COMMAND, A/M SWITCH

#	ONE SET POTENTIAL FREE CONTACTS TO BE PROVIDED FOR EACH FIRE MODE VENTILATION FAN IN LCP/PANEL

INDICATION LAMP DETAILS

INDICATION LAMP	COLOUR
ON	GREEN
OFF	RED
TRIP	AMBER

ELECTRONIC ENERGY METER (RS485)	
1	CURRENT
2	VOLTAGE
3	REAL POWER
4	REACTIVE POWER
5	APPARENT POWER
6	POWER FACTOR
7	FREQUENCY

MULTIFUNCTION METER (RS485)	
1	CURRENT
2	VOLTAGE
3	REAL POWER
4	REACTIVE POWER
5	APPARENT POWER
6	POWER FACTOR
7	FREQUENCY
8	CUMULATIVE MD

ABBREVIATIONS
4P - FOUR POLE
TPN - TRIPLE POLE & NEUTRAL
TP - TRIPLE POLE
DP - DOUBLE POLE
TCH - TRIP CIRCUIT HEALTHY

SHORT CIRCUIT BREAKING CAPACITY OF ALL ACB's SHALL BE OF Icw=Icu=Ics

ALL MCCB'S WITH RATINGS UPTO AND INCLUDING 200A SHALL BE EQUIPPED WITH THERMAL MAGNETIC RELEASE.

ALL MCCB'S WITH RATINGS 250A AND ABOVE SHALL HAVE MICROPROCESSOR BASED RELEASE WITH ADJUSTABLE LONG TIME AND ADJUSTABLE SHORT TIME PROTECTION

REFERENCE DRAWINGS

1. EARTHING SCHEMATIC DRAWING, REFER DWG. NO. O17203-E-SP-01-SC-0081
2. EH-1, LOAD ESTIMATION REFER DOCUMENT NO. O17203-E-SP-01-DC-0161
3. EH-1, HPFC CALCULATION REFER DOCUMENT NO. O17203-E-SP-01-DC-0162
4. EH-1, UPS CALCULATION REFER DOCUMENT NO. O17203-E-SP-01-DC-0163
5. EH-1, CABLE SCHEDULE REFER DOCUMENT NO. O17203-E-SP-01-DC-0165
6. EH-1, SC CALCULATION REFER DOCUMENT NO. O17203-E-SP-01-DC-0164

ALL THE LCP'S SHALL BE PROVIDED WITH THE BELOW CONFIGURATION

CABLE ENTRY DETAILS ENTRY: TOP EXIT : TOP
INGRESS PROTECTION (IP) IP: 42
PHASING CONFIGURATION 3Ø, TP - R,Y,B
SHORT CIRCUIT RUPTURING CAPACITY 10kA/SEC

SLD SYMBOLS

S.NO	SYMBOL	DESCRIPTION
1		MINIATURE CIRCUIT BREAKER
2		MOULDED CASE CIRCUIT BREAKER
3	E	AIR CIRCUIT BREAKER - ELECTRICAL DRAW OUT TYPE
4	M	AIR CIRCUIT BREAKER - MECHANICAL DRAW OUT TYPE
5	P1 S1 S2 P2	CURRENT TRANSFORMER (DUAL RATIO)
6		LED INDICATION LAMP
7	VSS	VOLTMETER SELECTOR SWITCH
8	ASS	AMMETER SELECTOR SWITCH
9	EEM	ELECTRONIC ENERGY METER WITH RS485 COMMUNICATION PORT
10	LCP	LOCAL CONTROL PANEL
11	V	DIGITAL TYPE VOLTMETER
12	A	DIGITAL TYPE AMMETER
13		CAPACITOR PANEL
14		GROUNDING
15	E/L	ELECTRICAL INTERLOCK
16	HPFCR	HYBRID POWER FACTOR CORRECTION RELAY
17	BMS	BUILDING MANAGEMENT SYSTEM
18	M	MOTOR / PUMP
19		POWER CONTACTOR
20		LIGHTING DISTRIBUTION BOARD (LDB)
21		EMERGENCY LIGHTING DISTRIBUTION BOARD (ELDB)
22		POWER DISTRIBUTION BOARD (PDB)
23		UPS DISTRIBUTION BOARD (UDB)
24		UNINTERRUPTIBLE POWER SUPPLY
25	95	TRIP CIRCUIT SUPERVISION RELAY
26	64R	RESTRICTED EARTH FAULT REALY
27	50G	SENSITIVE EARTH FAULT RELAY
28	MFM	MULTIFUNCTION METER WITH RS485 COMMUNICATION PORT
29		STAR DELTA STARTER
30	DOL	DIRECT ON LINE STARTER
31		AUTO/MANUAL SELECTOR SWITCH
32	SPP	SINGLE PHASE PROTECTION RELAY
33	●	CABLE SIZES SHALL BE AS PER CABLE SCHEDULE
34	VFD	VARIABLE FREQUENCY DRIVE
35		ISOLATION TRANSFORMER

Title block

Owner / Employer
India International Convention & Exhibition Centre Limited
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Employer's Engineer
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AECOM

Preliminary Engineering Architecture Consultants (PEAC)
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CP KUKREJA ARCHITECTS — No.D-1, Ashirwad Building, Green Park, New Delhi, Delhi 110016, India

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Plot No. 66, Sector 32, Institutional Area, Opp: Zenatix Solutions, Gurugram, Haryana 122001

ICT Proof Consultant
CKR IT Consulting
Bld. No.47/1, 3rd Floor, Narayana Arcade, Subbaramachetty Road, Netkalappa Circle, Basavanagudi, Bengaluru - 560004

Certification
EPC Contractor
Design Consultant
Architectural Consultant
Proof Consultant
Structural
MEP | ICT
Reviewed GFC drawing Prepared by contractor and ensured that all necessary aspects and parameters have been adhered to.
PEAC
Signed on behalf of PEAC
Date: 10/10/2020
Issued by:
Employer / Employer's Engineer

R0	ISSUED AS GOOD FOR CONSTRUCTION	14.04.20	XVH	TSS	MK	RAA
REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD

Revisions

ARCHITECTURE		FPS	
STRUCTURAL		PIPING	
ELECTRICAL		PHE	
ELV SYSTEM		GIS	
HVAC		GEOTECH.	
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

EPC Contractor
L&T Construction, Buildings & Factories
JOB No : O17203
Project Name
DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE
SECTOR 25, DWARKA, NEW DELHI, INDIA
Drawing Status
GOOD FOR CONSTRUCTION (GFC)
Drawing No: E | 01 | 0181 — Rev. No: R0
Title : EXHIBITION HALL-1
MASTER SINGLE LINE DIAGRAM - 2/2
EDRC DWG No : O17203-E-SP-01-1L-0181
Scale : NTS
Sheet Size : A0

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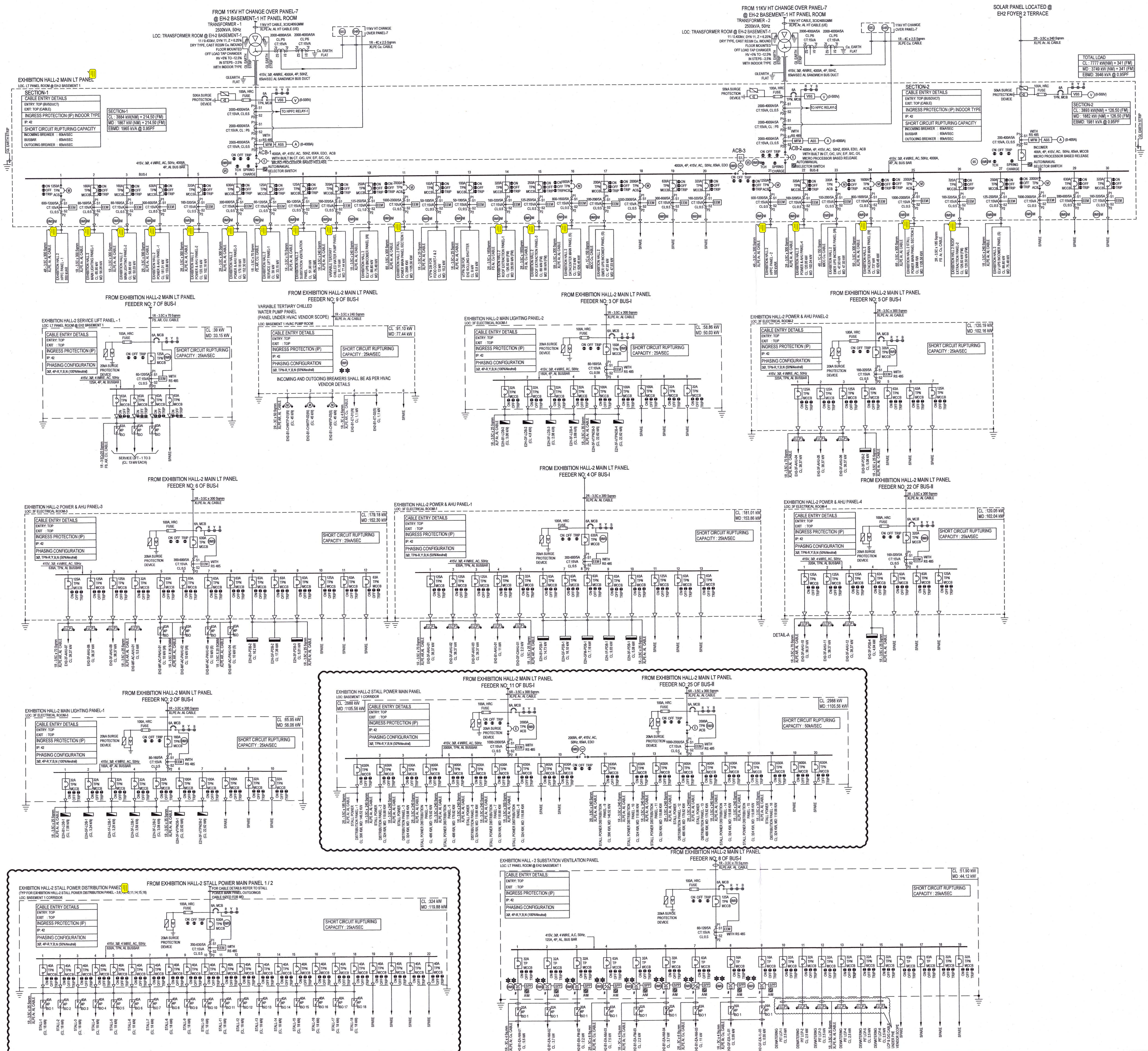

BMS MONITOR/COMMAND STATUS

(BMS)	NO/NC POTENTIAL FREE CONTACTS TO BE PROVIDED IN THE PANEL FOR ON/OFF STATUS TRIP STATUS
(BMS) M	NO/NC POTENTIAL FREE CONTACTS TO BE PROVIDED IN THE PANEL FOR ON/OFF STATUS TRIP STATUS VOLTAGE PRESENSE
(BMS) ✱✱	NO/NC POTENTIAL FREE CONTACTS TO BE PROVIDED IN THE PANEL FOR ON/OFF STATUS TRIP STATUS ON/OFF COMMAND A/M SWITCH

INTERLOCK LOGIC FOR EH-2 MAIN LT PANEL

	ACB-1	ACB-2	ACB-3
CASE-I	ON	ON	OFF
CASE-II	OFF	ON	ON
CASE-III	ON	OFF	ON

ONE SET POTENTIAL FREE CONTACTS TO BE PROVIDED FOR EACH FIRE MODE VENTILATION FAN IN LCP/PANEL

INDICATION LAMP DETAILS

INDICATION LAMP	COLOUR
ON	GREEN
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Architectural Consultant	
Proof Consultant	
Structural / MEP / ICT	
PEAC	

Reviewed CFC drawing by the contractor and ensured that all the subjects and parameters have been adhered to.

Issued by: Employer / Employer's Engineer — Date : 29/6/2020

NOTES

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6. EH-2, SC CALCULATION REFER DOCUMENT NO. O17203-E-SP-02-DC-0164

ALL THE LCP'S SHALL BE PROVIDED WITH THE BELOW CONFIGURATION

CABLE ENTRY DETAILS ENTRY: TOP EXIT : TOP
INGRESS PROTECTION (IP) IP: 42
PHASING CONFIGURATION 3Ø, TP - R,Y,B
SHORT CIRCUIT RUPTURING CAPACITY 10kA/SEC

	ELECTRONIC ENERGY METER (RS485)
1	CURRENT
2	VOLTAGE
3	REAL POWER
4	REACTIVE POWER
5	APPARENT POWER
6	POWER FACTOR
7	FREQUENCY

	MULTIFUNCTION METER (RS485)
1	CURRENT
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REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	ISSUED AS GOOD FOR CONSTRUCTION	14.05.20	XVH	TSS	BSD	RAA

Revisions

ARCHITECTURE			FPS		
STRUCTURAL			PIPING		
ELECTRICAL			PHE		
ELV SYSTEM			GIS		
HVAC			GEOTECH.		
CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE

EPC Contractor
L&T Construction Buildings & Factories

JOB No : O17203

Project Name
DESIGN AND CONSTRUCTION OF INDIA INTERNATIONAL CONVENTION & EXPO CENTRE
SECTOR 25, DWARKA, NEW DELHI, INDIA

Drawing Status
GOOD FOR CONSTRUCTION (GFC)

Drawing No			Rev. No
E	02	0079	R0

Title : EXHIBITION HALL-2
MASTER SINGLE LINE DIAGRAM - 1/2

EDRC DWG No :	Scale :	Sheet Size
O17203-E-SP-02-1L-0079	NTS	A0

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