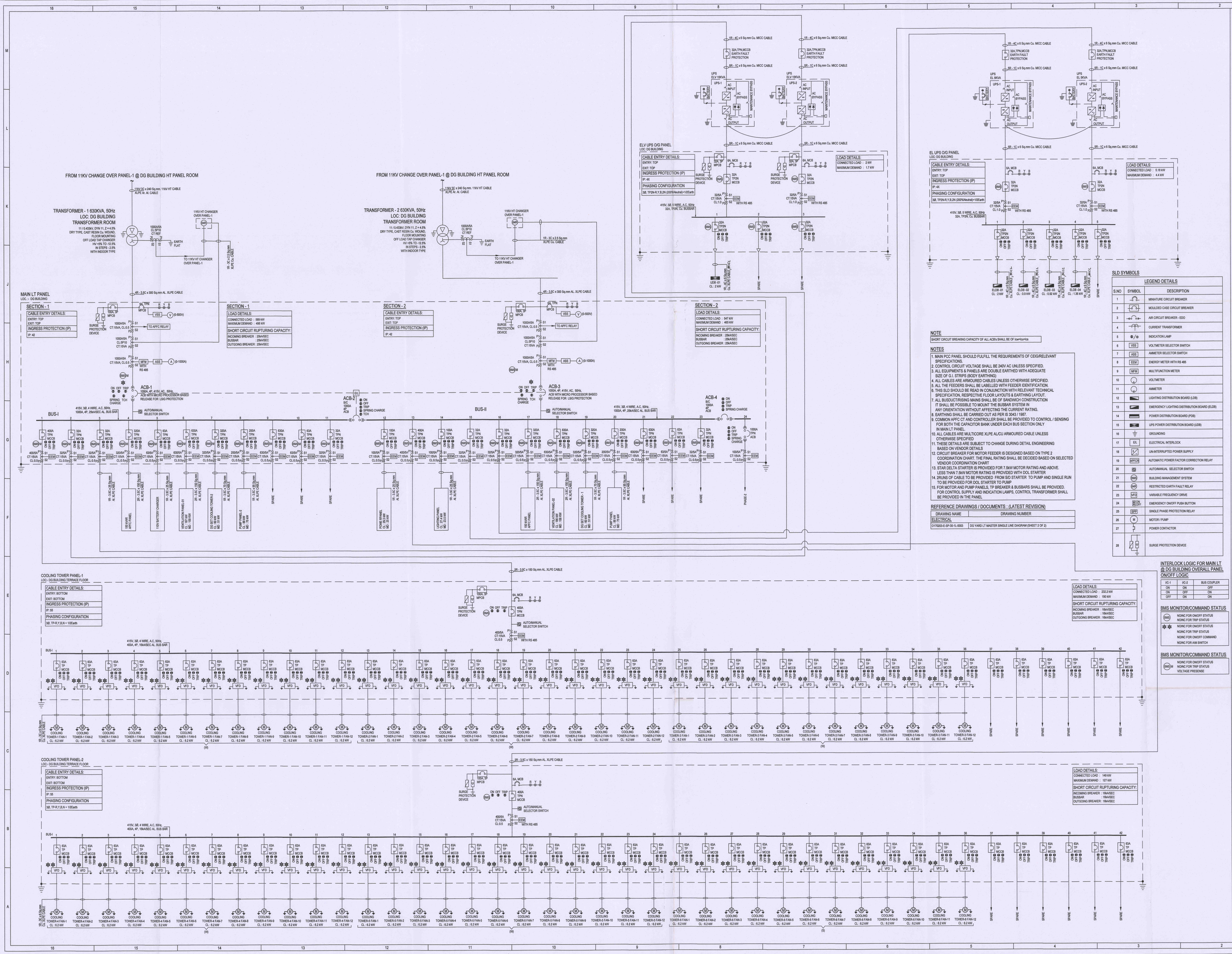

India International Convention & Exhibition Centre Limited
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Department of Industrial Policy and Promotion Ministry of Commerce & Industry Government of India

Knowledge Partner
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Room No.341 & 342 Floor Hotel Ashok, Diplomatic Enclave, 50B Chanakyapuri, New Delhi - 110021

Employer's Engineer
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AECOM

Preliminary Engineering Architecture Consultants (PEAC)
idom — Av. Del Manzanito de El Escorial, 4, 28048 Madrid, Spain
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Design Consultant
Engineering Design and Research Center (EDRC)
L&T Construction - Buildings & Factories

Architectural Consultant
ARCOP — Arcop Associates Pvt. Ltd. A-1/5, Panchsila Enclave , G.K.-I New Delhi, Delhi I 110048, India

Structural Proof Consultant
Indian Institute of Technology (IIT) Madras
Sardar Patel Road, Opposite to C. L.R.I. Adyar, Chennai, Tamil Nadu 600036

MEP Proof Consultant
egis — Egis India Consulting Engineers Pvt. Ltd. Plot No. 66, Sector 32, Institutional Area, Opp: Zenotis Solutions, Gurugram, Haryana 122001

ICT Proof Consultant
CXR IT Consulting
Bd. No.471, 3rd Floor, Narayana Arcade, Subbaramachetty Road, Nehtaajapa Circle, Ibrahimpatnam, Bengaluru - 560004

Certification
EPC Contractor
Design Consultant
Architectural Consultant
Proof Consultant
Structural — MEP — ICT
PEAC
Reviewed GFC drawing prepared by Contractor and ensured that all preliminary aspects and parameters have been adhered to :
Issued by: Signed on Behalf of PEAC — Date:
Employer / Employer's Engineer

NOTE

SHORT CIRCUIT BREAKING CAPACITY OF ALL ACB's SHALL BE OF Icw=Icu=40ca

NOTES

1. MAIN PCC PANEL SHOULD FULFILL THE REQUIREMENTS OF CEIG/RELEVANT SPECIFICATIONS.
2. CONTROL CIRCUIT VOLTAGE SHALL BE 240V AC UNLESS SPECIFIED.
3. ALL EQUIPMENTS & PANELS ARE DOUBLE EARTHED WITH ADEQUATE SIZE OF G.I. STRIPS (BODY EARTHING)
4. ALL CABLES ARE ARMOURED CABLES UNLESS OTHERWISE SPECIFIED.
5. ALL THE FEEDERS SHALL BE LABELLED WITH FEEDER IDENTIFICATION.
6. THIS SLD SHOULD BE READ IN CONJUNCTION WITH RELEVANT TECHNICAL SPECIFICATION, RESPECTIVE FLOOR LAYOUTS & EARTHING LAYOUT.
7. ALL BUSDUCT/RISING MAINS SHALL BE OF SANDWICH CONSTRUCTION IT SHALL BE POSSIBLE TO MOUNT THE BUSBAR SYSTEM IN ANY ORIENTATION WITHOUT AFFECTING THE CURRENT RATING.
8. EARTHING SHALL BE CARRIED OUT AS PER IS 3043 / 1987.
9. COMMON APFC CT AND CONTROLLER SHALL BE PROVIDED TO CONTROL / SENSING FOR BOTH THE CAPACITOR BANK UNDER EACH BUS SECTION ONLY IN MAIN LT PANEL.
10. ALL CABLES ARE MULTICORE XLPE AL/CU ARMOURED CABLE UNLESS OTHERWISE SPECIFIED
11. THESE DETAILS ARE SUBJECT TO CHANGE DURING DETAIL ENGINEERING BASED ON VENDOR DETAILS
12. CIRCUIT BREAKER FOR MOTOR FEEDER IS DESIGNED BASED ON TYPE 2 COORDINATION CHART. THE FINAL RATING SHALL BE DECIDED BASED ON SELECTED VENDOR COORDINATION CHART
13. STAR DELTA STARTER IS PROVIDED FOR 7.5kW MOTOR RATING AND ABOVE. LESS THAN 7.5kW MOTOR RATING IS PROVIDED WITH DOL STARTER
14. 2RUNS OF CABLE TO BE PROVIDED FROM S/D STARTER TO PUMP AND SINGLE RUN TO BE PROVIDED FOR DOL STARTER TO PUMP
15. FOR MOTOR AND PUMP PANELS, TP BREAKER & BUSBARS SHALL BE PROVIDED. FOR CONTROL SUPPLY AND INDICATION LAMPS, CONTROL TRANSFORMER SHALL BE PROVIDED IN THE PANEL

REFERENCE DRAWINGS / DOCUMENTS : (LATEST REVISION)

DRAWING NAME	DRAWING NUMBER
ELECTRICAL	
O170023-E-SP-30-1L-0003	DG YARD LT MASTER SINGLE LINE DIAGRAM (SHEET 2 OF 2)

SLD SYMBOLS

LEGEND DETAILS

S.NO	SYMBOL	DESCRIPTION
1		MINIATURE CIRCUIT BREAKER
2		MOULDED CASE CIRCUIT BREAKER
3		AIR CIRCUIT BREAKER - EDO
4		CURRENT TRANSFORMER
5		INDICATION LAMP
6	VSS	VOLTMETER SELECTOR SWITCH
7	ASS	AMMETER SELECTOR SWITCH
8	EEM	ENERGY METER WITH RS 485
9	MFM	MULTIFUNCTION METER
10		VOLTMETER
11		AMMETER
12		LIGHTING DISTRIBUTION BOARD (LDB)
13		EMERGENCY LIGHTING DISTRIBUTION BOARD (ELDB)
14		POWER DISTRIBUTION BOARD (PDB)
15		UPS POWER DISTRIBUTION BOARD (UDB)
16		GROUNDING
17	EIL	ELECTRICAL INTERLOCK
18		UN-INTERRUPTED POWER SUPPLY
19	APFCR	AUTOMATIC POWER FACTOR CORRECTION RELAY
20		AUTOMANUAL SELECTOR SWITCH
21	BMS	BUILDING MANAGEMENT SYSTEM
22	SPR	RESTRICTED EARTH FAULT RELAY
23	VFD	VARIABLE FREQUENCY DRIVE
24	ON OFF	EMERGENCY ON/OFF PUSH BUTTON
25	SPP	SINGLE PHASE PROTECTION RELAY
26	M	MOTOR / PUMP
27		POWER CONTACTOR
28		SURGE PROTECTION DEVICE

INTERLOCK LOGIC FOR MAIN LT @ DG BUILDING OVERALL PANEL ON/OFF LOGIC

IC-1	IC-2	BUS COUPLER
ON	ON	OFF
ON	OFF	ON
OFF	ON	ON

BMS MONITOR/COMMAND STATUS

NONC FOR ON/OFF STATUS
NONC FOR TRIP STATUS

NONC FOR ON/OFF STATUS
NONC FOR TRIP STATUS
NONC FOR ON/OFF COMMAND
NONC FOR A/M SWITCH

BMS MONITOR/COMMAND STATUS

NONC FOR ON/OFF STATUS
NONC FOR TRIP STATUS
VOLTAGE PRESENSE

REV	DESCRIPTION	DATE	DSGN	DRWN	CHKD	APPD
R0	REISSED AS GOOD FOR CONSTRUCTION	21.02.19	THK	GANSA	MIE	BKA

Revisions

ARCHITECTURE		FPS	
STRUCTURAL		FIPING	
ELECTRICAL		FHE	
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	30	0064	R0

Title :
DG YARD LT
MASTER SINGLE LINE DIAGRAM
(SHEET 1 OF 2)

EDRC DWG No : O17203-E-SP-30-1L-0064
Scale : NTS
Sheet Size : A0

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