


LIST OF ELECTRICAL DRAWINGS

S.NO.	DRAWING TITLE	SHEET	DRAWING NO.	REVISION
01	LIST OF ELECTRICAL DRAWINGS	SHEET 1 OF 1	JP-TD-EL-10CC-1001	R0
02	LEGEND & NOTES	SHEET 1 OF 1	JP-TD-EL-10CC-1002	R0
03	MAIN SINGLE LINE DIAGRAM	SHEET 1 OF 1	JP-TD-EL-10CC-1003	R0
04	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 1 OF 7	JP-TD-EL-10CC-1004	R0
05	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 2 OF 7	JP-TD-EL-10CC-1005	R0
06	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 3 OF 7	JP-TD-EL-10CC-1006	R0
07	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 4 OF 7	JP-TD-EL-10CC-1007	R0
08	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 5 OF 7	JP-TD-EL-10CC-1008	R0
09	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 6 OF 7	JP-TD-EL-10CC-1009	R0
10	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 7 OF 7	JP-TD-EL-10CC-1010	R0
11	ELECTRICAL LAYOUT ANCIALLARY BUILDING UNDERGROUND & SERVICE CORRIDOR LEVEL	SHEET 1 OF 3	JP-TD-EL-10CC-1201	R0
12	ELECTRICAL LAYOUT ANCIALLARY BUILDING GROUND LEVEL	SHEET 2 OF 3	JP-TD-EL-10CC-1201	R0
13	ELECTRICAL LAYOUT ANCIALLARY BUILDING TERRACE LEVEL PLAN	SHEET 3 OF 3	JP-TD-EL-10CC-1203	R0
14	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 1 OF 4	JP-TD-EL-10CC-1301	R0
15	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 2 OF 4	JP-TD-EL-10CC-1302	R0
16	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 3 OF 4	JP-TD-EL-10CC-1303	R0
17	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 4 OF 4	JP-TD-EL-10CC-1304	R0
18	ELECTRICAL LAYOUT PLATFORM LEVEL	SHEET 1 OF 3	JP-TD-EL-10CC-1401	R0
19	ELECTRICAL LAYOUT PLATFORM LEVEL	SHEET 2 OF 3	JP-TD-EL-10CC-1402	R0
20	ELECTRICAL LAYOUT PLATFORM LEVEL	SHEET 3 OF 3	JP-TD-EL-10CC-1403	R0
21	ELECTRICAL LAYOUT UNDERCROFT LEVEL	SHEET 1 OF 3	JP-TD-EL-10CC-1501	R0
22	ELECTRICAL LAYOUT UNDERCROFT LEVEL	SHEET 2 OF 3	JP-TD-EL-10CC-1502	R0
23	ELECTRICAL LAYOUT UNDERCROFT LEVEL	SHEET 3 OF 3	JP-TD-EL-10CC-1503	R0
24	SCHEMATIC DIAGRAM FOR PROTECTIVE EARTHING SYSTEM-ASS-1 & 2	SHEET 1 OF 2	JP-TD-EL-10CC-1601	R0
25	SCHEMATIC DIAGRAM FOR CLEAN EARTHING SYSTEM	SHEET 2 OF 2	JP-TD-EL-10CC-1602	R0

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Abbreviations

ACB – Air circuit breaker
ATS – Automatic transfer switch
MCCB – Moulded Case Circuit Breaker
MCB – Miniature Circuit Breaker
TM – Thermo magnetic
MPCB – Motor Protection Circuit Breaker
RCCB – RESIDUAL CURRENT CIRCUIT BREAKER

Legend (AS APPLICABLE) :-

	Motorised Draw out type air Circuit Breaker
	Moulded case Circuit Breaker (MCCB)
	Miniature Circuit Breaker
	Motor Protection Circuit Breaker(MPCB)
	Control Fuse (CF)
	Current transformer
	Thermal O/L relay
	Indicating lamp
	Ammeter
	Ammeter selector switch
	Voltmeter
	Voltmeter selector switch
	Multi Function Meter
	Working / Stand by Selector Switch
	Auto / Local / Remote Selector Switch
	Local / Remote Selector Switch
	Star Delta Starter
	Soft Starter
	Direct On Line Starter
	Push Button
	TNC Switch (Trip/Neutral/Close)
	Auto Manual Selector Switch
	Timer
	Single Phase prevention relay
	Emergency Stop Push Button
	AC-3 Contactor
	Hooter
	Trip Circuit Healthy Indication
	Spring Charge Indication
	Double volt meter
	Double Frequency Meter
	Synchroscope
	Hour Meter
	Window Annunciator
	On Line Selection Switch
	Restricted Earth Fault Relay
	Reset Push Button
	Test Push Button
	ACCEPT Push Button

LEGEND:-

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 T5 OR KESELEC CATALOG NO.RAILUX 2X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO RAILUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDILUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURFACE MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO.RAILUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINARIES (SIMILAR TO PHILIPS CATALOGUE.NO FBH 145 / 218 OR KESELEC CATALOG NO.NOVA 2X18 (G))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE.NO TBS 255 TCS 228 OR KESELEC CATALOG NO.PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE.NO TBS 669 / 228 D6 OR KESELEC CATALOG NO.CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE.NO TBS 669 / 128 D6 OR KESELEC CATALOG NO.CT LUX DL 1X28 HF)
10	PL		PL-STREET LIGHT LUMINAIRE WITH AESTHETICALLY DESIGNED DIE CAST ALUMINIUM HOUSING POT OPTIC REFLECTOR AND TOUGHENED FLAT GLASS IP 65 (SIMILAR TO PHILIPS CATALOGUE NO.CRP330/2x150W SON-T/ CDM-TT INCLUDING LAMP AS REQUIRED ON 9 M POLE DOUBLE ARM POLE
11	SL		SL-STREET LIGHT LUMINAIRE WITH AESTHETICALLY DESIGNED DIE CAST ALUMINIUM HOUSING POT OPTIC REFLECTOR AND TOUGHENED FLAT GLASS IP 65 (SIMILAR TO PHILIPS CATALOGUE NO.CRP330/1x150W SON-T/ CDM-TT INCLUDING LAMP AS REQUIRED ON 9 M POLE SINGLE ARM POLE
12	P		BULK HEAD LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
13	Q		2X28W FTL LAMP (T5 LAMP) PREWIRED UPTO A TERMINAL BOX WITH LAMP. HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 \ 2X28W D6 HF OR KESELEC ZUMTOBEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
14	FL		COMPACT, STURDY, GENERAL PURPOSE FLOODLIGHT LUMINARIES (SIMILAR TO PHILIPS CATALOGUE. NO TEMPO3 SWF 330 SK TYPE) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF SYMMETRICAL TYPE.
15	-		DISTRIBUTION BOARD

AS PER IEC

CROSS SECTIONAL AREA OF PHASE CONDUCTORS (Sq.mm)	CROSS SECTIONAL AREA OF EARTHING OR CIRCUIT PROTECTIVE CONDUCTOR (Sq.mm)
2.5	2.5
4	4
6	6
10	10
16	16
25	16
35	16
50	25
70	35
95	50
120	70
150	70
185	95
240	120
300	150

AS PER BOQ & SPECIFICATIONS

CROSS SECTIONAL AREA OF PHASE CONDUCTORS (Sq.mm)	CROSS SECTIONAL AREA OF EARTHING OR CIRCUIT PROTECTIVE CONDUCTOR (Sq.mm)
2.5	2.5
4	4
6	6
10	10
16	16
25	25
35	35
50	50
70	70
95	95
120	120
150	150
185	185
240	240
300	300

GENERAL NOTES :

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE RELEVANT STANDARDS : CODE OF PRACTICES AND THE AUTHORITIES REQUIREMENTS.
- UNLESS OTHERWISE INDICATED, THE MOUNTING HEIGHTS FROM FINISHED FLOOR LEVEL, FOR THE VARIOUS ITEMS OF ELECTRICAL WIRING ACCESSORIES / EQUIPMENT SHALL BE AS FOLLOWS :

LIGHTING SWITCHES - 1400mm AFFL (TO BOTTOM OF BOX)
P4 TYPE SWITCH SOCKET OUTLETS - 300mm AFFL (TO BOTTOM OF BOX) IN ALL AREAS
P1,P2 TYPE SWITCH SOCKET OUTLETS 1200mm AFFL IN ALL AREAS

PUBLIC TELEPHONE OUTLETS - REFER TO RELEVANT DRAWINGS.

DISTRIBUTION BOARDS - TO SUIT ROOM LAYOUTS.
THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND CO-ORDINATE AT SITE FOR EXACT SETTING OUT THE ACCESSORIES / EQUIPMENTS.
3. ALL FLUORESCENT LIGHT FITTINGS SHALL BE COMPLETE WITH LOW LOSS BALLAST, COLOUR RENDERING INDEX IN EXCESS OF 80 AND COLOUR TEMPERATURE OF 4000°K FOR TUNNEL LIGHTS AND 4000°K FOR STATION LIGHTING UNLESS OTHERWISE SPECIFIED.
4. LOCATION OF ALL LUMINAIRES, LIGHTING SWITCHES, SWITCH SOCKET OUTLETS ETC., SHOWN ON DRAWINGS ARE FOR GENERAL GUIDANCE ONLY. EXACT POSITIONS SHALL BE DETERMINED & APPROVED BY THE ARCHITECT / ENGINEER BEFORE CHANGE OF WORK.
5. FS/IS/WA/FIRE SURVIVAL (STEEL WIRE ARMoured) LSZH (LOW SMOKE ZERO HALOGEN) CABLES WILL BE PROVIDED FOR CIRCUITS INDICATED BELOW FOR ALL TUNNELS :
a) TUNNEL LIGHTING , BLUE LIGHTS, BUFFER LIGHTS AND TUNNEL SOCKETS.
b) CROSS PASSAGE.
FS/IS/WA/LSZH CABLES WILL BE PROVIDED FOR TUNNEL SUMP PUMPS.
6. ALL UNDERGROUND CABLES SHALL BE OF ARMoured TYPE CABLE IN PIPE AS SPECIFIED AND ENCASED IN CONCRETE FOR HARD GROUND/ PAVEMENT.
7. ALL FINAL CIRCUIT WIRINGS TO BE IN CONCEALED/SURFACE GJ CONDUITS. NO PVC CONDUIT SHALL BE ALLOWED FOR THE WHOLE ELECTRICAL INSTALLATION. GI CONDUIT / CONTAINMENT SHALL BE PROVIDED AT PSD 1.8M EARTH FREE ZONE AND OTHER WET AREA SUCH AS SPRINKLER TANK.
8. SPACE FACTOR OF CONDUIT, TRUNKING AND CABLE TRAY SHALL COMPLY WITH CURRENT EDITION OF RELEVANT SPECIFICATIONS & STANDARDS
9. PROVISION OF CABLES WITH ADDITIONAL LENGTH OF 5m FOR ALL EXTERNAL / LANDSCAPE LIGHTING POINTS SHALL BE INCLUDED
10. SEPARATE CABLE CONTAINMENT SHALL BE PROVIDED FOR DUAL - FEED CABLES.
11. ALL CABLE OPENINGS ON FLOOR SLABS AND WALLS TO BE SEALED WITH FIRE-STOPPING MATERIAL OF THE SAME FIRE-RATING TO RELEVANT AUTHORITY'S APPROVAL.
12. PROVISION OF LOCKING DEVICES / ACCESSORIES FOR ALL MCCB/MCB, ISOLATOR, ETC. SHALL BE PROVIDED.
13. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LIGHT FITTINGS AS SHOWN IN THE DRAWINGS, LIGHT FITTING S SHALL HAVE THEIR OWN INDEPENDENT SUPPORT REGARDLESS OF SURFACE , RECESS OR SUSPENDED MOUNTING METHOD.
14. THE ELECTRICAL CONTRACTOR SHALL BALANCE THE LOADS AND LABEL ALL EQUIPMENT AND SWITCHGEAR THROUGHOUT THE INSTALLATION.
15. FOR DISTRIBUTION BOARDS IP 54 PROTECTION SHALL BE PROVIDED COMPLETE WITH LOCKS AND VENTILATION OPENING . ALL THE CABLES SHALL BE BOTTOM ENTRY WITH APPROVED WATER TIGHT CABLE GLAND AND SEALING.
16. THE ELECTRICAL CONTRACTOR MUST CO-ORDINATE WITH THE OTHER SERVICES FOR THE ACTUAL ELECTRICAL LOAD AND EXACT LOCATION OF THE SUPPLY BEFORE INSTALLATION.
17. INFORMATION ON CONNECTED LOAD (CL), MAXIMUM DEMAND (MD), FAULT CURRENT RATING, CABLE SIZES, SIZES OF ALL CABLE SUPPORT SYSTEM, CABLE ROUTES ETC. SHOWN ON DRAWINGS SHALL BE FOR REFERENCE AND INDICATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT ALL DETAILS, CALCULATIONS AND DRAWINGS FOR NOTICE OF NO OBJECTION PRIOR TO COMMENCEMENT OF WORK ON SITE.
18. ALL FR AND FS CABLES FOR FINAL SUB-CIRCUIT WIRINGS WITHIN TRUNKING AND CONDUITS SHALL BE MULTI-STRAND COPPER CONDUCTORS & INSULATION COLOR OF THE CABLES SHALL COMPLY WITH THE REQUIREMENT STIPULATED IN THE LATEST SS CP5 AND AS ACCEPTED BY AUTHORITY.
19. ALPHA-NUMERIC CABLE TAGS SHALL BE PROVIDED AT 10M INTERVAL ON THE CABLE AND TERMINAL ENDS.
20. ALL UNDERGROUND CABLE SHALL BE LAID AT LEAST 1000mm BELOW GROUND AND PROTECTED WITH CABLE SLAB CABLE MARKER SHALL BE PROVIDED WHERE CABLE CHANGES DIRECTIONS AND ON STRAIGHT RUNS AT INTERVALS OF NO MORE THAN 50MTR. PIPE (150 sq.mm) CAST IN CONCRETE SHALL BE USED FOR CABLES CROSSING ROAD OR HARDSTANDING AREA.
21. THE RESISTANCE FOR THE EARTHING SYSTEM (ELECTRICAL) PER EACH EARTHING MAT SHALL BE LESS THAN 1 ohm AND IN ANY CASE SHALL COMPLY WITH IEEE-80 AND ELECTRIC SUPPLY AUTHORITY'S LATEST REQUIREMENT.
22. EACH FINAL CIRCUIT SHALL BE TESTED FOR INSULATION RESISTANCE BETWEEN LINE CONDUCTORS, LINE CONDUCTORS TO EARTH BY MEANS OF AN INSULATION RESISTANCE TESTING INSTRUMENT WHICH REQUIRES VOLTAGE OF NOT LESS THAN 500V D.C, UPON CIRCUIT UNDER TEST, TEST VOLTAGE FOR SUBMAIN CABLE SHALL NOT BE LESS THAN 1000V D.C.
23. ALL ELECTRICAL CONDUITS INSTALLED FOR PUBLIC AREA SHALL BE CONCEALED FOR THOSE AREAS WITH TILE OR OTHER ARCHITECTURAL FINISHES.
24. ALL HANDICAP TOILETS SHALL BE PROVIDED WITH LIGHT FITTINGS, SWITCH BOARDS AND SOCKET OUTLETS.
25. NOT WITHSTANDING WHATEVER SHOWING ON DRAWINGS, ALL SOCKET OUTLETS TO BE INSTALLED IN NON-PUBLIC AREAS SHALL BE METAL-CLAD. SOCKET OUTLETS AT TILE AREAS AND ROOMS WITH ARCHITECTURAL FINISHES TO BE MATT-CHROME TYPE.
26. NOT WITHSTANDING WHATEVER SHOWING ON DRAWINGS, ALL SOCKET OUTLETS TO BE INSTALLED IN PUBLIC AREAS SHALL BE MATCHED WITH ARCHITECTURAL FINISHES.
27. ALL EQUIPMENT AND INSTALLATION SHALL BE IN COMPLIANCE WITH BOQ, SPECIFICATIONS AND CONTRACT CONDITION.

- 28.FS/IS/WA/FIRE SURVIVAL)
CABLES SHALL BE PROVIDED FOR ALL MAIN, SUBMAIN AND FINAL CIRCUITS INDICATED BELOW;
a) BMS
b) UPS
c) Scada
d) Fire Alarm
e) TVS
f) Fire Fighting
29. NO PVC TYPE MATERIAL SHALL BE ALLOWED UNLESS OTHERWISE SPECIFIED.
30. CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN, SUPPLY AND INSTALL THE COMPLETE FLOOR STANDING STEEL FRAME WITH PROPER ANCHOR AT BOTH FLOOR AND CEILING TO PROPER SUPPORT AND FIX ALL THE WALL MOUNTED DISTRIBUTION BOARDS, CABLE CONTAINMENT, CONTROL PANELS, ETC. AT THE LOCATION , WHERE DRY WALL SYSTEM HAS BEEN USED, FOR EXAMPLE CAVITY WALL BY THE D-WALL.
31. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL THE NECESSARY CABLE CONTAINMENT, CONDUITS, TRUNKING AND ASSOCIATED ACCESSORIES, WHICH IS NOT SHOWN IN THE DRAWING BUT DEEMED NECESSARY FOR THE CONSTRUCTION AND COMPLETION OF THE INSTALLATION.

LIGHTNING PROTECTION SYSTEM


- THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF IS 2309
- THE WHOLE OF THE LIGHTNING PROTECTION SYSTEM SHOULD HAVE A COMBINED RESISTANCE TO EARTH NOT EXCEEDING 10 OHMS BEFORE ANY BONDING HAS BEEN EFFECTED TO METAL IN OR ON A STRUCTURE OR TO SERVICES BELOW GROUND.
- ALL EXPOSED METALWORK UNDER CONTRACT EXCEPT ELECTRICAL EQUIPMENT SHALL BE ELECTRICALLY BONDED TO THE LIGHTNING PROTECTION SYSTEM.
- THE POSITIONS OF THE EARTH ELECTRODE PITS AS SHOWN ON DRAWINGS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED & APPROVED BY THE ARCHITECT / ENGINEER BEFORE COMMENCEMENT OF WORK. ELECTRICAL CONTRACTOR SHALL LIASE WITH CIVIL CONTRACTOR FOR INSTALLATION OF THE ENTIRE LIGHTNING PROTECTION SYSTEM.
- ALL PENETRATIONS THROUGH ROOF TO BE MADE WATERTIGHT AFTER INSTALLATION OF DOWN CONDUCTORS, CABLE, ETC AND MUST BE VETTED / APPROVED BY THE ARCHITECT / ENGINEER
- ALL EXPOSED METALLIC STRUCTURES, VENT PIPES, COOLING TOWER, RAILINGS, WATER TANKS & ETC ON OR ABOVE THE ROOF SHALL BE BONDED TO AND FORM PART OF THE LIGHTNING PROTECTION SYSTEM.
- ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH THE CIVIL CONTRACTOR ON THE BONDING REQUIREMENT AND ENSURE THAT IT MEETS IS. REQUIREMENTS.

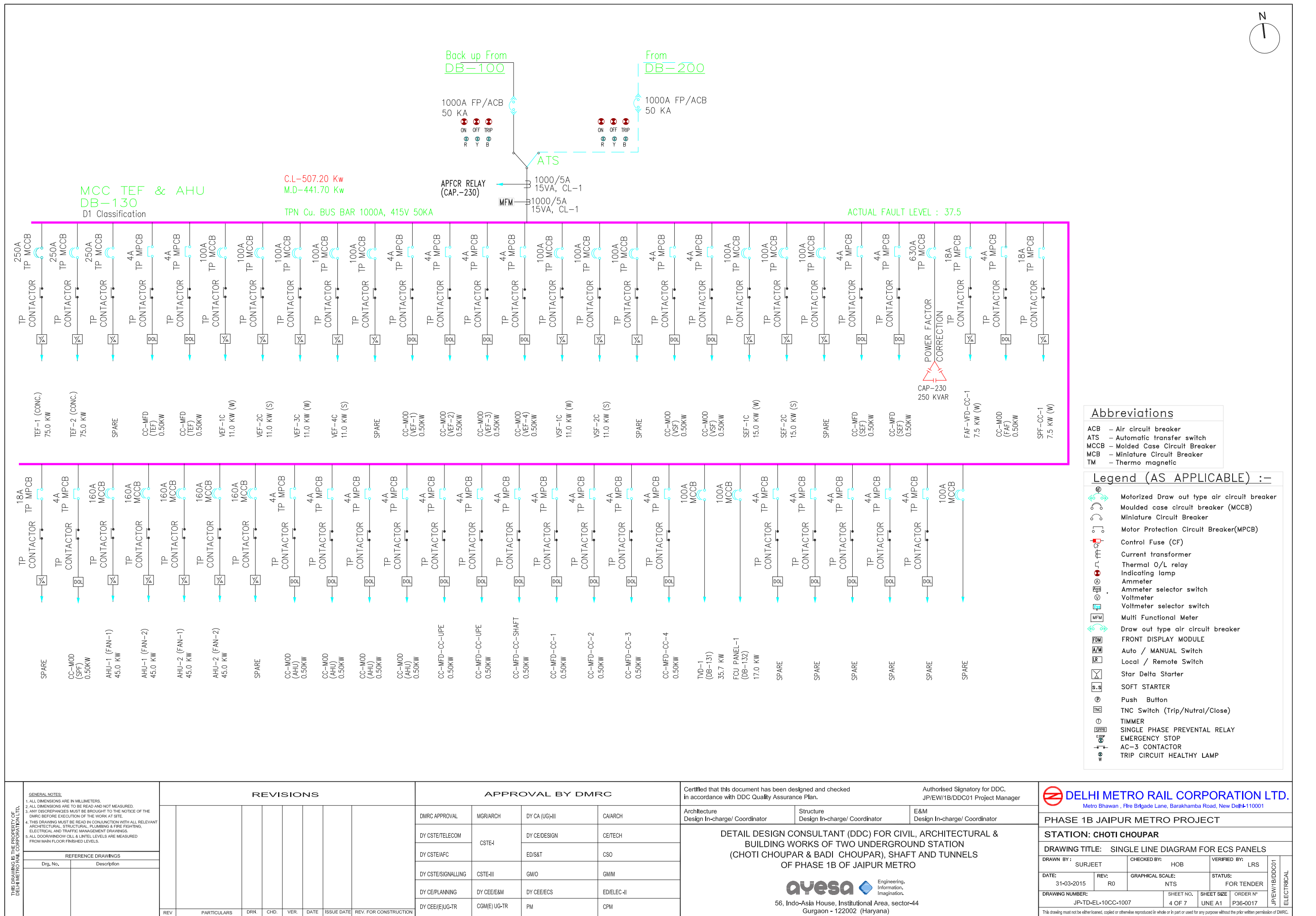
ELECTRICAL BOARDS & COMPONENTS

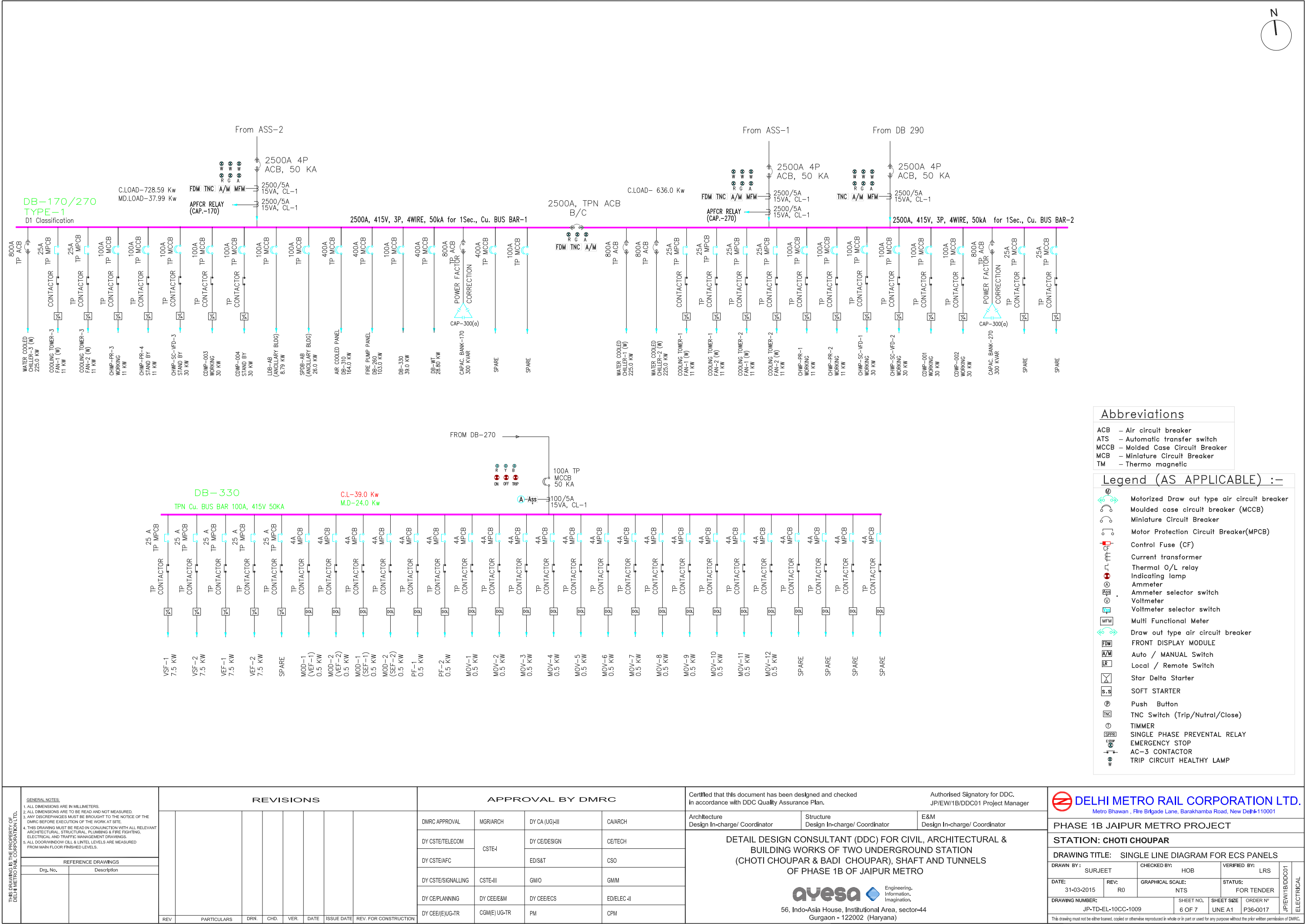
- ALL MCCBs INSTALLED SHALL BE COMPLETED WITH ELECTRONICS TYPE ADJUSTABLE THERMAL OVERLOAD & INSTANTANEOUS TRIP UNIT AS PER SPECIFICATIONS.
- ALL MCBs USED FOR PROTECTION OF INDUCTION LOADS SHALL BE OF TYPE C CHARACTERISTIC AND MOTOR LOAD SHALL BE OF TYPE D CHARACTERISTIC.
- ALL BUSBAR TRUNKINGS SHALL BE OF FULL SIZE NEUTRAL WITH CONTINUOUS INTEGRAL EARTHING BAR.
- THERE SHALL BE A COMMON EARTH BAR IN EACH DISTRIBUTION BOARD.
- ALL NEUTRAL LINKS AND EARTH BARS IN THE DISTRIBUTION BOARDS SHALL BE LOCATED AT AN EASILY ACCESSIBLE POSITION AND SHALL BE KEPT CLEAR OF ANY OBSTRUCTIONS.
- NEUTRAL AND EARTH BARS SHALL HAVE SUFFICIENT NUMBER OF WAYS TO MATCH THE NUMBER OF SUB-CIRCUITS WITH SPACES.
- ALL ELECTRICAL EQUIPMENT AND ACCESSORIES THAT ARE EXPOSED TO WEATHER SHALL BE OF WEATHERPROOF TYPE TO IP65, UNLESS OTHERWISE STATED.
- IDMT OVERCURRENT AND EARTH FAULT RELAYS SPECIFIED SHALL BE COMPLETE WITH HIGH SET ELEMENT.
- MOUNTING LEVEL OF DISTRIBUTION BOARDS SHALL BE MEASURED FROM THE FINISHED FLOOR LEVEL TO THE BOTTOM OF THE BOARDS.
- UNLESS OTHERWISE STATED, ALL CIRCUITS SERVING FIRE SAFETY EQUIPMENT AND EMERGENCY LIGHTING SHALL BE OF FS CABLES.
- 25% SPARE BREAKER SHALL BE PROVIDED FOR ALL THE ELECTRICAL DISTRIBUTION BOARDS AND SUB-BOARDS, AS PER SPECIFICATIONS.
- EQUIPMENT MOUNTING OF SDB/DB ARE INDICATIVE. ALL MOUNTING LOCATION AND METHOD SHALL BE COORDINATED AND DETERMINED AT SITE. ALL COST INCURRED ON THE ALTERNATIVE MOUNTING SHALL BE INCLUDED IN THE CONTRACT.

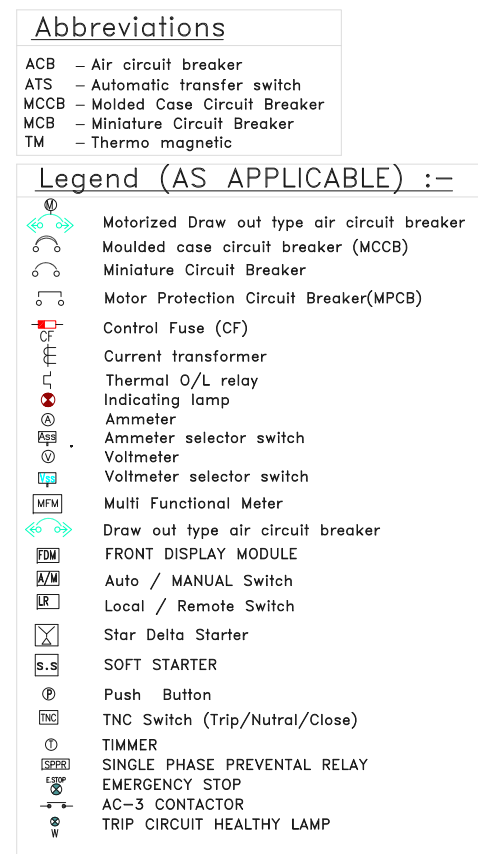
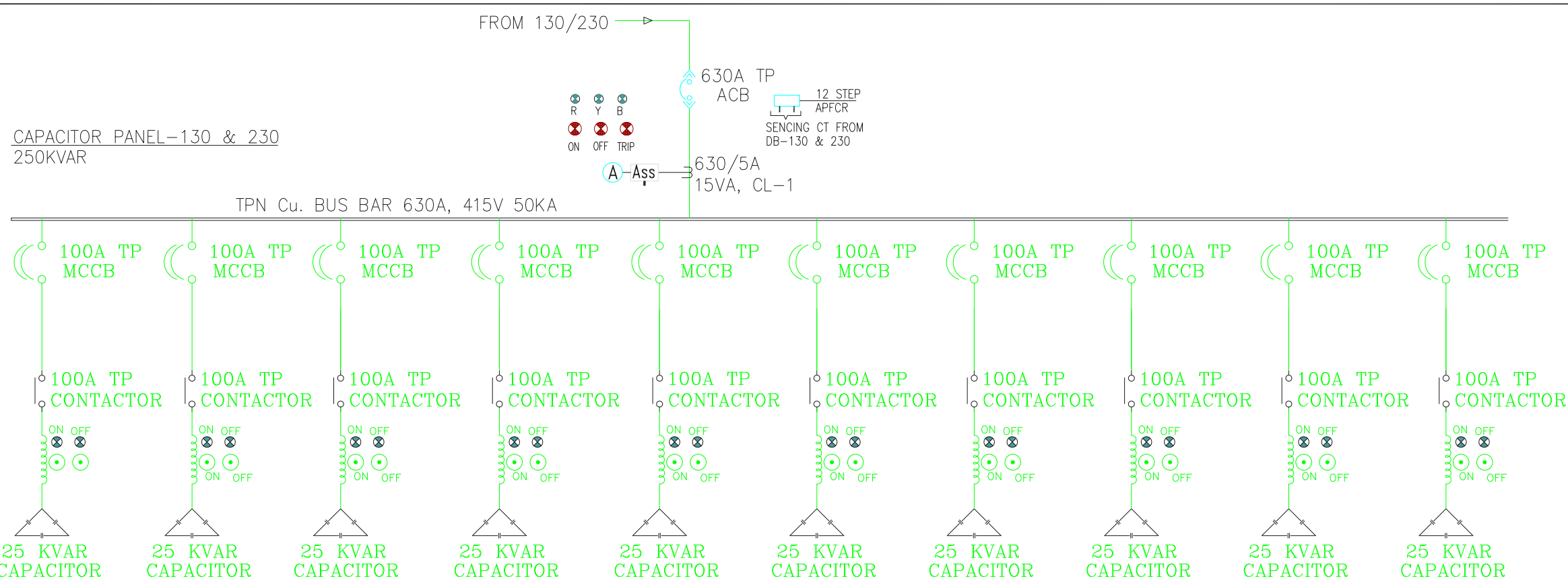
LEGEND FOR ELECTRICAL

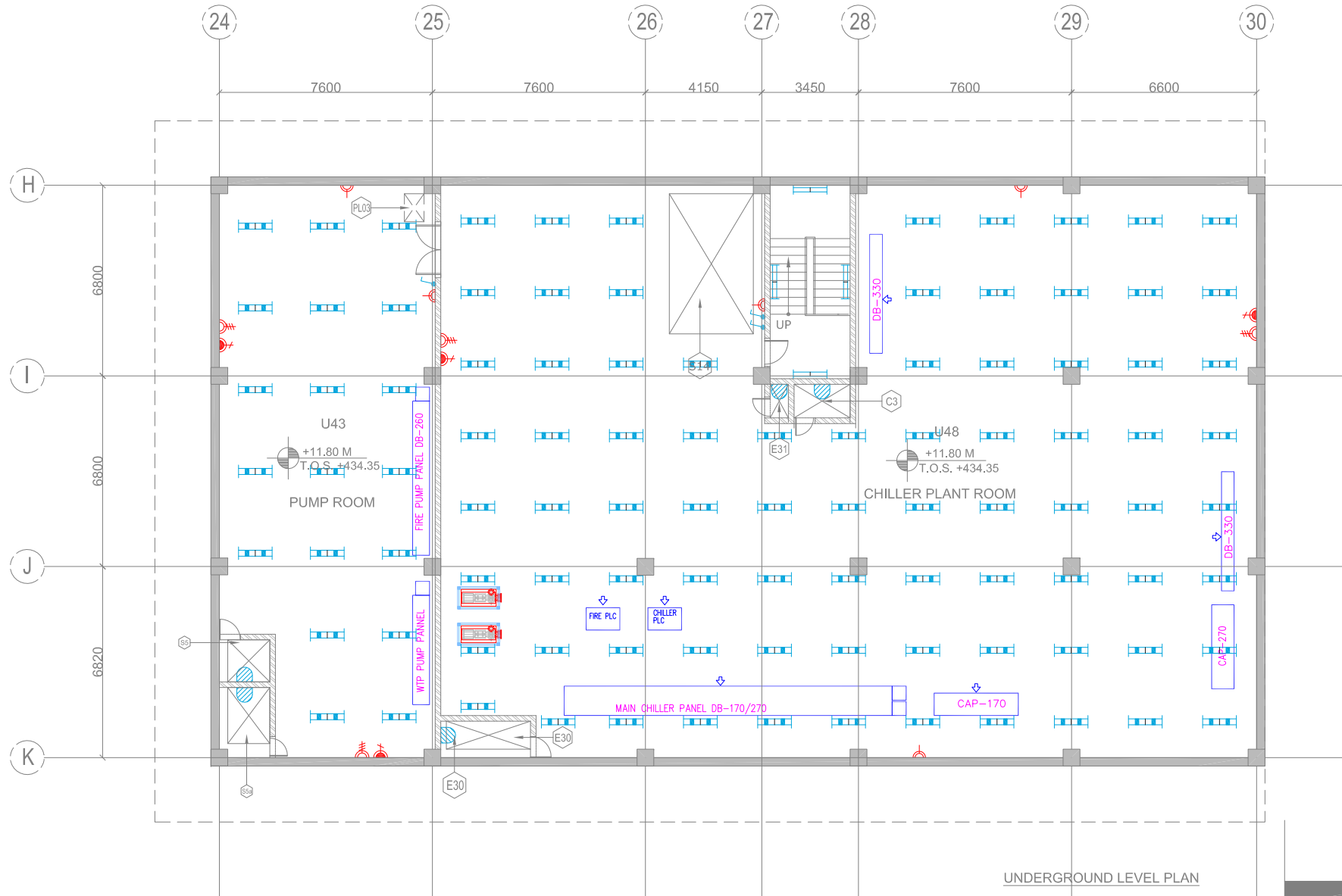
SYMBOL	
	POWER CABLE TRAY
	TELECOM DATA CABLE TRAY
	TELECOM POWER CABLE TRAY
	VAC & TVS CABLE TRAY
	SCADA CABLE TRAY
	P1 32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(IP65)
	P2 16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(IP54)
	P4 6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
	P5 ADVT. POINT

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									DMRC APPROVAL	MGR/ARCH	DY CA (UG)-II	CA/ARCH	Architecture Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator	<div>PHASE 1B JAIPUR METRO PROJECT</div> <div>STATION: CHOTI CHOUPAR</div> <div>DRAWING TITLE: LEGENDS, NOTES AND ABBREVIATION</div> <div><div>DRAWN BY: SURJEET</div><div>CHECKED BY: H.O.B</div><div>VERIFIED BY: L.R.S</div></div> <div><div>DATE: 31-03-2015</div><div>REV: R0</div><div>GRAPHICAL SCALE: N.T.S.</div><div>STATUS: FOR TENDER</div></div> <div><div>DRAWING NUMBER: JP-TD-EL-10CC-1002</div><div>SHEET NO. 1 OF 1</div><div>SHEET SIZE UNE A1</div><div>ORDER N° P36-0017</div></div> <div>This drawing must not be either loaned, copied or otherwise reproduced in whole or in part or used for any purpose without the prior written permission of DMRC.</div>						
		DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH																	
		DY CSTE/AFC		ED/S&T	CSO																	
		DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM																	
		DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II																	
		DY CEE/EJUG-TR	CGM(E) UG-TR	PM	CPM																	
		REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION													
		REFERENCE DRAWINGS																				
		Dwg. No.	Description																			





[illegible]



UNDERGROUND LEVEL PLAN

UNDERGROUND LEVEL				
SR. NO	ROOM SCHEDULE	ROOM NAME	DIMENSION (M) L X B	AREA (SQ.M.)
1	U 48	CHILLER PLANT ROOM	22.80 X 20.42	429.55*

*AREA AS PER PUNE

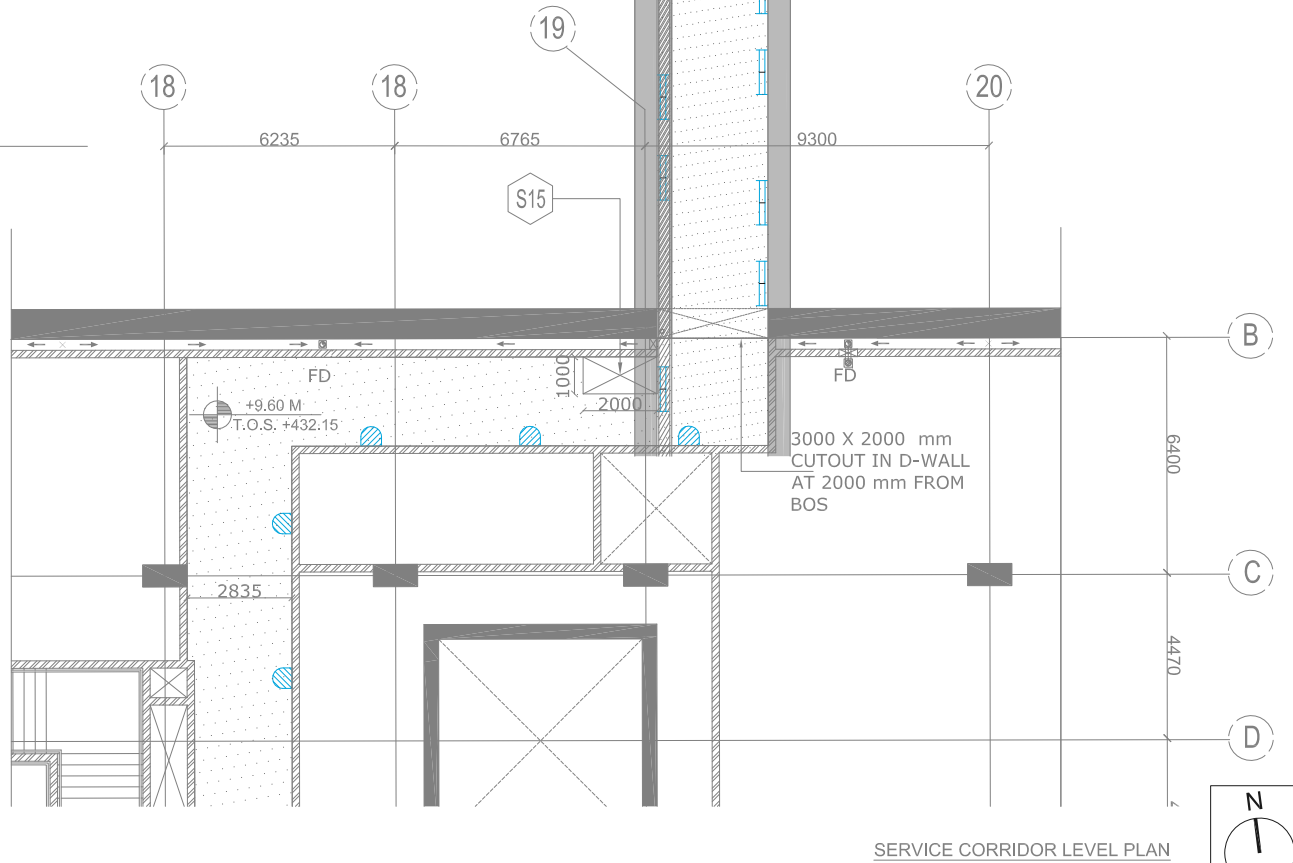
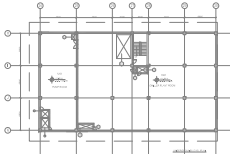
ELECTRICAL SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUT OUT POSITION
E30	ELECTRICAL	SHAFT 3.20X1.30	4.16	-
E31	ELECTRICAL	CUTOUT 3.00X1.00	3.00	FLOOR
E31	ELECTRICAL	SHAFT 0.65X1.60	1.04	-

LEGEND:-



S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 HF) OR KESELEC CATALOG NO. RAILUX 2X28 HF) FOR TLD FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 HF) OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR TLD FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDILUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR TLD FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELCE MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE
5	H		BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TOW 450 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR TLD FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. NOVA 2X18 (G))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)

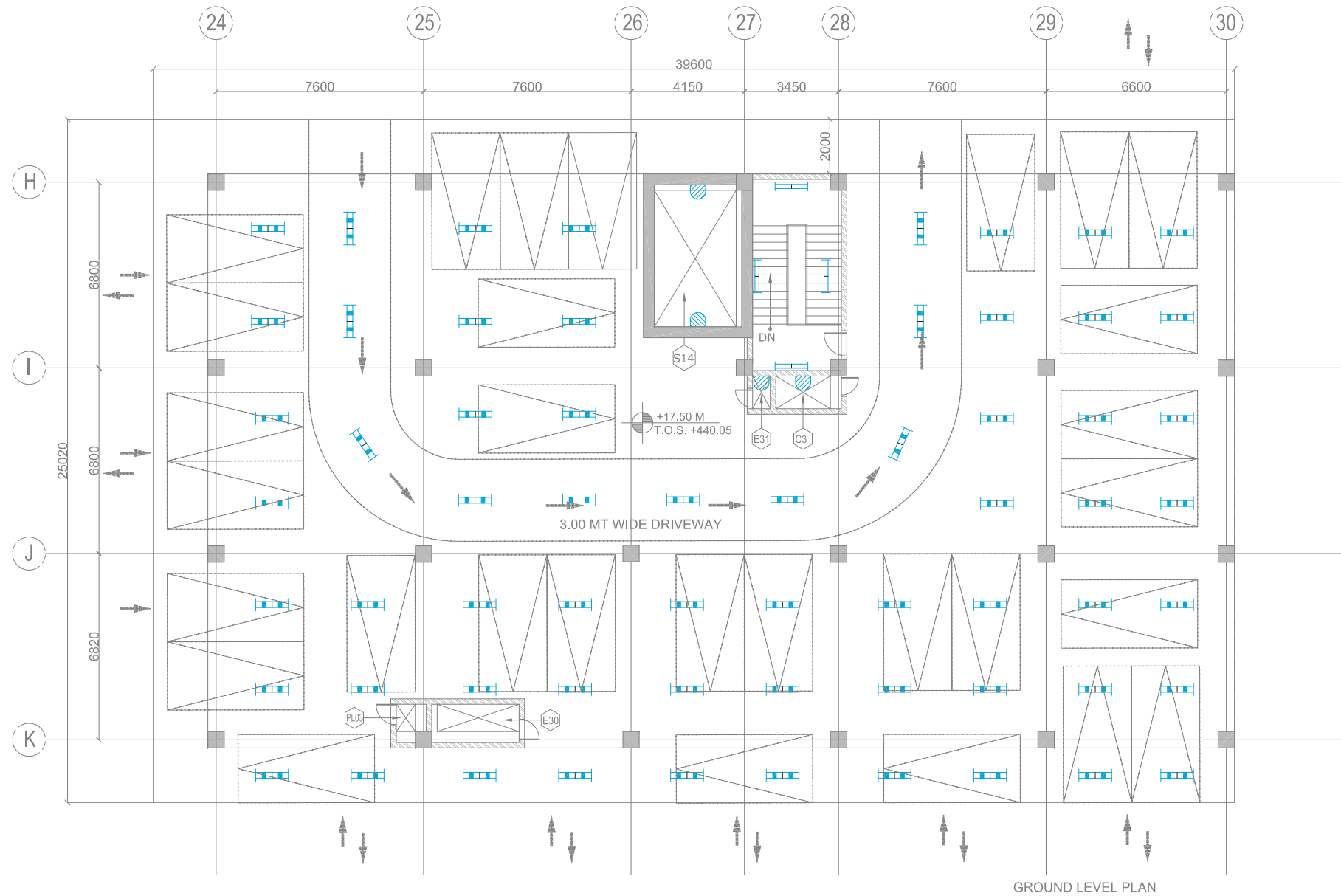
8	K		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FFL LAMP (T5 LAMP) PREWIRED UPTO A TERMINAL BOX WITH LAMP, HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TOW 697 / 2X28W D6 HF OR KESELEC ZUMITUBEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
11	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(IP65)
12	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(IP54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD		ADVT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

KEY PLAN



SERVICE CORRIDOR LEVEL PLAN

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	REFERENCE DRAWINGS															Architecture Design In-charge/ Coordinator			Structure Design In-charge/ Coordinator					E&M Design In-charge/ Coordinator			
																DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO  Engineering, Information, Imagination. 56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)											
																DMRC APPROVAL			MGR/ARCH			DY CA (UG)-III			CA/ARCH		
																DY CSTE/TELECOM			CSTE-I			DY CE/DESIGN			CE/TECH		
																DY CSTE/AFC						ED/S&T			CSO		
																DY CSTE/SIGNALLING			CSTE-III			GMO			GMM		
															DY CE/PLANNING			DY CEE/E&M			DY CEE/ECS			ED/ELEC-II			
															DY CEE/EJUG-TR			CGM(E) UG-TR			PM			CPM			
REV							PARTICULARS			DRN.		CHD.		VER.		DATE		ISSUE DATE		REV. FOR CONSTRUCTION							



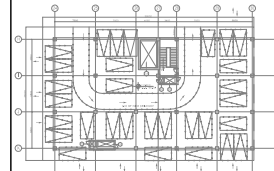
GROUND LEVEL PLAN

LEGEND:-



S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 TS OR KESELEC CATALOG NO. RAILUX 2X28 HF) FOR 'TL'D' FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TL'D' FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDULUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TL'D' FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELCE MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TL'D' FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. NOVA 2X18 (C))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FTL LAMP (T5 LAMP) PREWIRED UPTO A TERMINAL BOX WITH LAMP, HAVING P 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 \ 2X28W D6 HF OR KESELEC ZUMTOBEL MAKE F2 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
11	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(IP65)
12	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(IP54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD		ADVT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

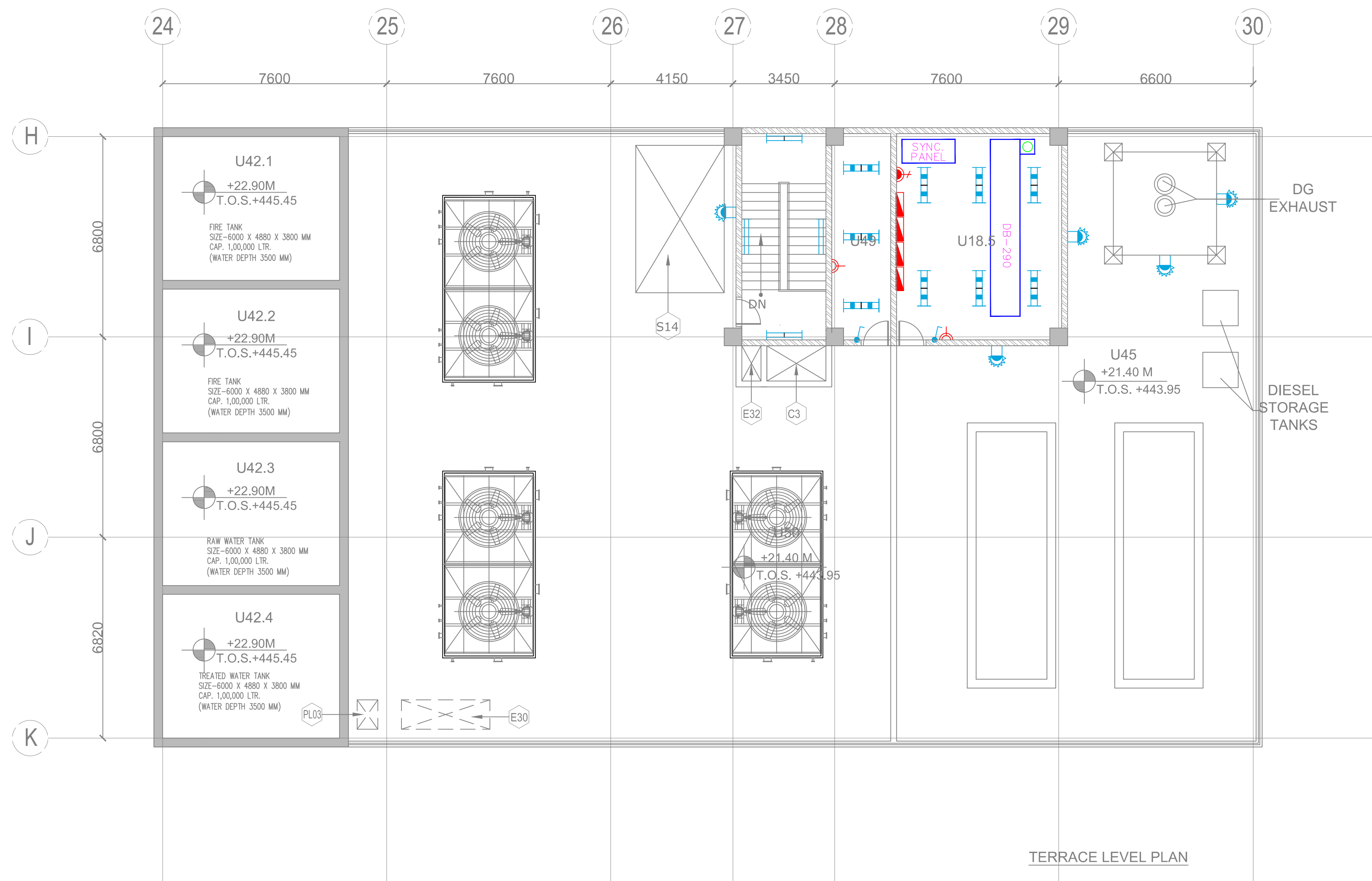


KEY PLAN



ELECTRICAL SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUT OUT POSITION
E30	ELECTRICAL	SHAFT 3.20X1.30	4.16	-
E31	ELECTRICAL	OUTOUT 3.00X1.00	3.00	FLOOR
		SHAFT 0.65X1.60	1.04	-

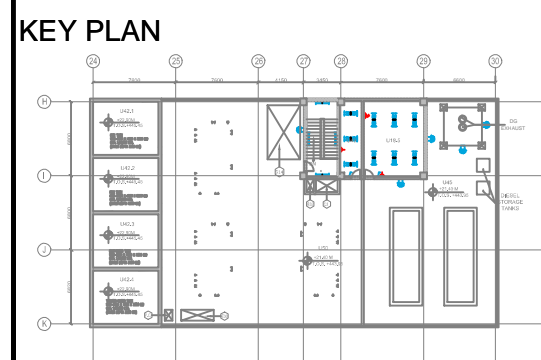
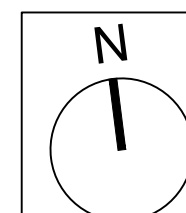
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											DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH	Architecture Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator	PHASE 1B JAIPUR METRO PROJECT								
											DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH	DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO					STATION: CHOTI CHOUPAR						
										DY CSTE/AFC	ED/S&T		CSO	DRAWING TITLE: ELECTRIC LAYOUT ANCILLARY BUILDING GROUND LEVEL PLAN												
											DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM	<div> Engineering, Information, Imagination.</div> <div>56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)</div>					DRAWN BY: SURJEET		CHECKED BY: H.O.B	VERIFIED BY: L.R.S	JP/EW/1B/DDC01 ELECTRICAL		
											DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II						DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:100	STATUS: FOR TENDER			
											DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM	DRAWING NUMBER: JP-TD-10CC-1202		SHEET NO. 2 OF 3	SHEET SIZE UNE A1	ORDER N° P36-0017							
											REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION								



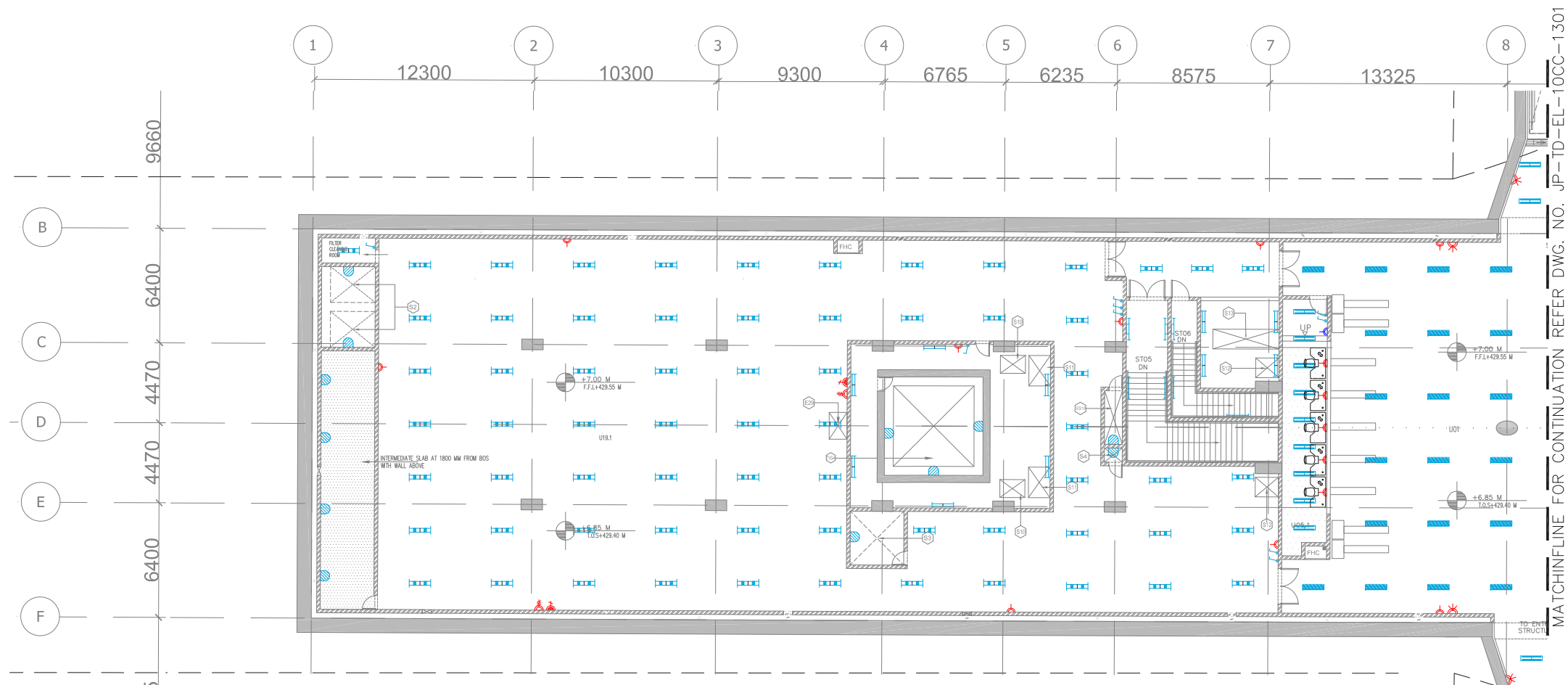
ROOM SCHEDULE GROUND LEVEL				
SR. NO	ROOM SCHEDULE	ROOM NAME	DIMENSION (MT) L X B	AREA (SQ.M)
1	U 18.5	DB AND CHILLER PANEL ROOM	5.60 X 7.00	38.88*
2	U 42.1	TREATED WATER TANK	6.00 X 4.88	29.28
3	U 42.2	RAIN WATER TANK	6.00 X 4.88	29.28
4	U 42.3	FIRE TANKS	6.00 X 4.88	29.28
5	U 42.4	FIRE TANKS	6.00 X 4.88	29.28
6	U 45	DG SET	12.20 X 20.62	209.80*
7	U 49	CHEMICAL DOSING PLANT ROOM	2.00 X 7.00	13.68*
8	U 50	COOLING TOWERS	18.00 X 20.62	317.19*

*AREA AS PER PLINE

LEGEND: -			
S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 T5 OR KESELEC CATALOGUE NO. RAULUX 2X28 HF) FOR "TLD FLOURESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOGUE NO. RAULUX 1X28 HF) FOR "TLD FLOURESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOGUE NO. INDILUX V 228 HF) WITH VITREOUS ENAMELLED REFLECTOR) FOR "TLD FLOURESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELOC MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 x 70W) WITH INTEGRAL GRATE, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H	WG	BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOGUE NO. RAULUX 1X28 HF) FOR "TLD FLOURESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FBI 145 / 218 OR KESELEC CATALOGUE NO. NOVA 2X18 (C))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOGUE NO. PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOGUE NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOGUE NO. CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOGUE NO. KBI 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X25W FIT LAMP (T5 LAMP) PREPARED UP TO A TERMINAL BOX WITH LAMP. HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 / 2X28W D6 HF OR KESELEC ZUMTOBEL MAKE FZ 2X25W HF) AND SUPPLIED WITH 2 NOS- 28W TUBULAR FLOURESCENT LAMP (T5 LAMP).
12	P1		32A 3 PHASE SPIN INDUSTRIAL SOCKET OUTLET(IP65)
13	P2		16A 1 PHASE SPIN INDUSTRIAL SOCKET OUTLET(IP54)
14	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
15	AD		ADVT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD



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	REV.	PARTIAL CHANGES	DRN.	CHKD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION																																																																																																																																															
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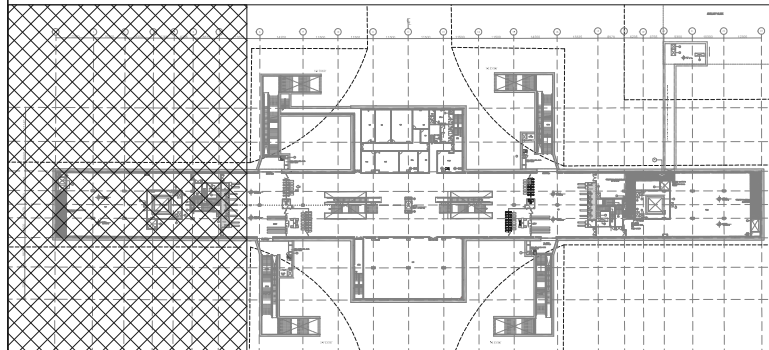


LEGEND:-			
S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 X2X8 15 OR KESELEC CATALOG NO. RALUX 1X28 HF FOR "TLD FLOURESCENT LAMP (TS LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RALUX 1X28 HF) FOR "TLD FLOURESCENT LAMP (TS LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDILUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR "TLD FLOURESCENT LAMP (TS LAMP)
4	E		EFFICIENT, LOW GLARE, SURELOCK MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70 W) WITH INTEGRAL GLASS, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINUM REFLECTOR OF ASYMMETRIC TYPE.
5	H	WG	BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TOW 450 / 1X28 OR KESELEC CATALOG NO. RALUX 1X28 HF) FOR "TLD FLOURESCENT LAMP (TS LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE-NO FBH 145 / 218 OR KESELEC CATALOG NO.NOVA 2X18 (G))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE-NO TBS 255 TS 228 OR KESELEC CATALOG NO.PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE-NO TBS 669 / 228 D6 OR KESELEC CATALOG NO.CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE-NO TBS 669 / 128 D6 OR KESELEC CATALOG NO.CT LUX BL 1X28 HF)
10	P		BULK HEAD LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FVC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FTL LAMP (TS LAMP) .PREPARED UP TO A TERMINAL BOX WITH LAMP, HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TOW 037 / 2X28W HF OR KESELEC ZUMTOBEL MAKE. FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLOURESCENT LAMP (TS LAMP).
11	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(P65)
12	P2		16A 3 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(P54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD		ADVT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (LxW)	AREA (Sq.m)
1	U01	UNPAID AREA		1035.90*
2	U02	PAID AREA		1497.75
3	U03	STATION CONTROL ROOM (SCR)	7.700 x 7.050	54.29
4	U04	STATION MANAGER ROOM (SMR)	4.300 x 7.035	29.37*
5	U05.1	TICKET OFFICE (TOM)	2.500 x 14.34	34.80*
6	U05.2	TICKET OFFICE (TOW)	2.500 x 14.34	34.80*
7	U07.1	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
8	U07.2	EXCESS FARE OFFICE (EFD)	2.500 x 3.000	7.50
9	U09	SECURITY ROOM 1	1.700x2.000	3.40
10	U10	STATION STORE ROOM	7.100 x 5.260	37.35
11	U12	CLEANER'S ROOM	1.700 x 2.000	3.40
12	U14	STAFF TOILET	1.700 x 2.475	4.21
13	U15.1	PUBLIC TOILET (Male)	5.850 x 4.675	27.35
14	U15.2	PUBLIC TOILET (Female)	4.100 x 5.550	23.50*
15	U16	MESS ROOM	5.280 x 6.100	32.21
16	U18.1	DB ROOM	8.100 x 7.085	53.74*
17	U18.2	DB ROOM	6.000 x 7.065	41.24*
18	U19.1	ECS PLANT ROOM (ECS)	50.350 x 20.740	803.65*
19	U19.2	ECS PLANT ROOM (ECS)	53.300 x 20.740	804.05*
20	U22	SIGNALING EQUIPMENT ROOM (SER)	6.620 x 10.715	72.60*
21	U23	TELECOM EQUIPMENT ROOM (TER)	5.000 x 10.715	53.58
22	U24	UPS ROOM for S&T	4.400 x 10.715	46.72*
23	U46	HANDICAP TOILET	1.750 x 2.250	3.94
24	U47	PO AREA	32.25 x 20.00	637.26*

ELECTRICAL & S&T SCHEDULE				
OUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	OUT/OUT POSITION
ES10	ELECTRICAL SHAFT & C/OUT/OUT - 2NOS	1.00X3.00	3.00	FLOOR
E24	BATTERY RACK - 4NOS.	0.20X0.20	0.04	FLOOR
E25	2NOS. C/OUT/OUT FOR BUS/ECs	0.30X0.30	0.09	FLOOR
E26	ELECTRICAL C/OUT/OUT	1.00X0.50	0.50	FLOOR
E27	1NOS ELECTRICAL C/OUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & C/OUT OUT	1.90X0.63	1.20	FLOOR

KEY PLAN



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE DMRB BEFORE EXECUTION OF THE WORK AT SITE.
4. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL AND TRAFFIC MANAGEMENT DRAWINGS.
5. ALL DOOR/WINDOW CHILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS	
Dwg. No.	Description

[illegible]

APPROVAL BY DMRC			
DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GM/M
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE/(E)UG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.	Authorised Signatory for DDC. JP/EW/1B/DDC01 Project Manager
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Architecture Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator
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DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL &
BUILDING WORKS OF TWO UNDERGROUND STATION
(CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS
OF PHASE 1B OF JAIPUR METRO

ayesa  Engineering
Information.
Imagination.

6, Indo-Asia House, Institutional Area, sector
Gurgaon - 122002 (Haryana)

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

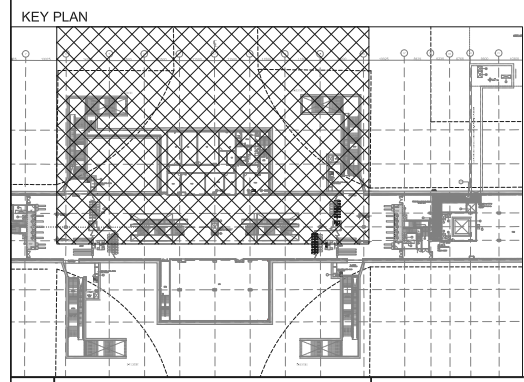
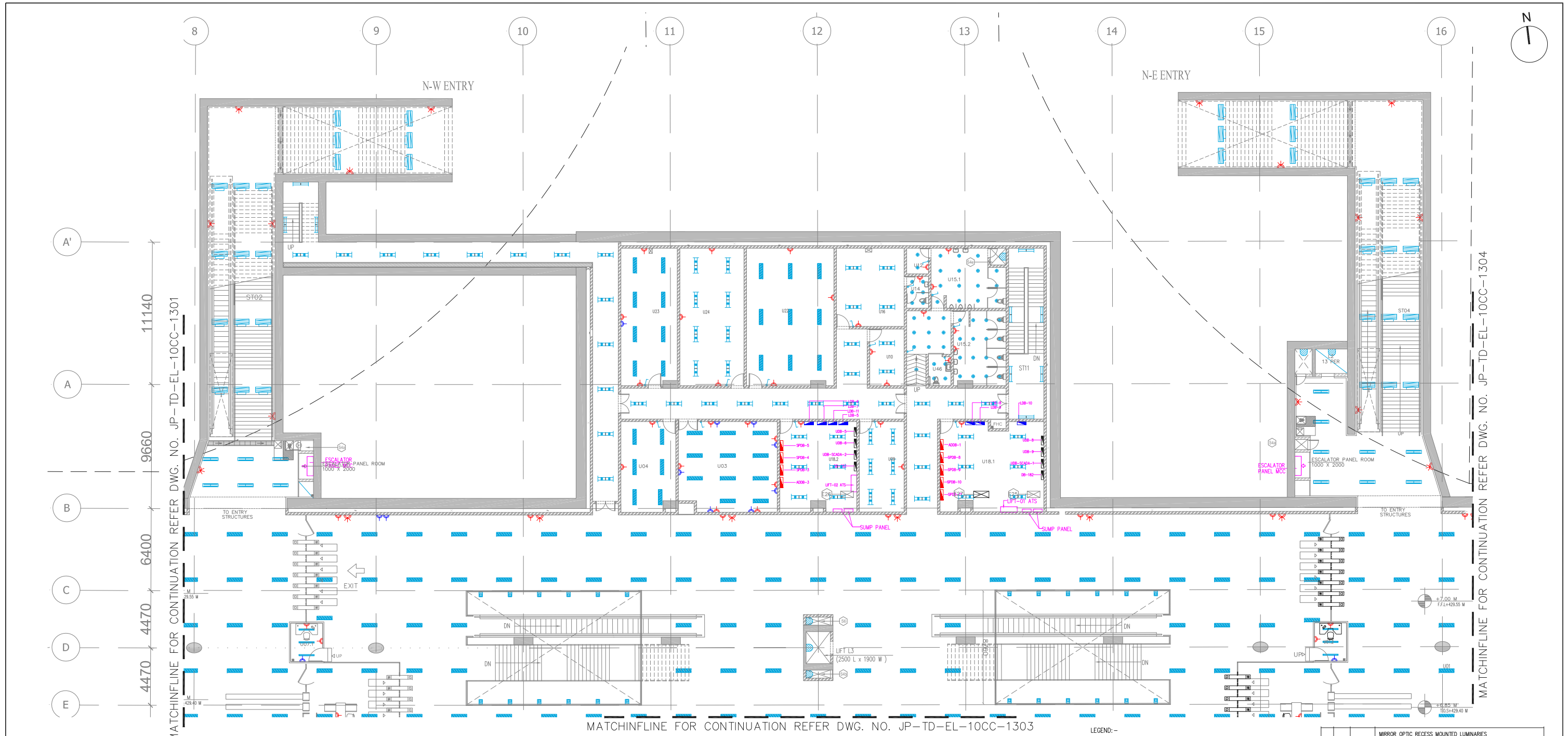
E&M
Design In-charge/ Coordinator

 **DELHI METRO RAIL CORPORATION LTD.**
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: CHOTI CHOUPAR

DRAWING TITLE: ELECTRICAL LAYOUT CONCOURSE LEVEL						JP/EWT/BDCC01 ELECTRICAL
DRAWN BY : SURJEET		CHECKED BY: H.O.B		VERIFIED BY: LRS		
DATE: 31-03-2015		REV: R0		GRAPHICAL SCALE: 1:150		
				STATUS: FOR TENDER		
DRAWING NUMBER: JP-TD-EL-10CC-1301		SHEET NO. 1 OF 4		SHEET SIZE UNE A1		
				ORDER N° P36-0017		
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S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M) (LxW)	AREA (Sq.m)
1	U01	UNPAID AREA		1035.90*
2	U02	PAID AREA		1497.75*
3	U03	STATION CONTROL ROOM (SCR)	7.700 x 7.050	54.29
4	U04	STATION MANAGER ROOM (SMR)	4.300 x 7.035	29.37*
5	U05.1	TICKET OFFICE (TOM)	2.500 x 14.34	34.80*
6	U05.2	TICKET OFFICE (TOM)	2.500 x 14.34	34.80*
7	U07.1	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
8	U07.2	EXCESS FARE OFFICE (EFO)	2.500 x 3.000	7.50
9	U09	SECURITY ROOM 1	1.700x2.000	3.40
10	U10	STATION STORE ROOM	7.100 x 5.260	37.35
11	U12	CLEANER'S ROOM	1.700 x 2.000	3.40
12	U14	STAFF TOILET	1.700 x 2.475	4.21
13	U15.1	PUBLIC TOILETS (Male)	5.850 x 4.675	27.32
14	U15.2	PUBLIC TOILETS (Female)	4.100 x 5.550	22.50*
15	U16	MESS ROOM	5.280 x 6.100	32.21
16	U18.1	DB ROOM	8.100 x 7.085	53.74*
17	U18.2	DB ROOM	6.000 x 7.065	41.24*
18	U19.1	ECS PLANT ROOM (ECS)	50.350 x 20.740	803.05*
19	U19.2	ECS PLANT ROOM (ECS)	53.300 x 20.740	804.05*
20	U22	SIGNALLING EQUIPMENT ROOM (SER)	6.820 x 10.715	72.60*

S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M) (LxW)	AREA (Sq.m)
21	U23	TELECOM EQUIPMENT ROOM (TER)	5.000 x 10.715	53.58
22	U24	UPS ROOM for S&T	4.400 x 10.715	46.72*
23	U46	HANDICAP TOILET	1.750 x 2.250	3.94
24	U47	PD AREA	32.25 x 20.00	637.26*

OUT NUMBER	PURPOSE	SIZE (M)	AREA(SqM)	CUTOUT POSITION
E20	ELECTRICAL SHAFT & CUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E24	BATTERY RACK - 4NOS.	0.20X0.20	0.04	FLOOR
E25	2NOS. CUTOUT FOR BMS/ECS	0.30X0.30	0.09	FLOOR
E26	ELECTRICAL CUTOUT	1.00X0.50	0.50	FLOOR
E29	TVS ELECTRICAL CUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & CUT OUT	1.90X0.63	1.20	FLOOR

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 T5 OR KESELEC CATALOG NO. RAULUX 1X28 HF) FOR "TLD FLUORESCENT LAMP (T5 LAMP)"
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RAULUX 1X28 HF) FOR "TLD FLUORESCENT LAMP (T5 LAMP)"
3	C		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDILUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR "TLD FLUORESCENT LAMP (T5 LAMP)"
4	E		EFFICIENT, LOW GLARE, SURELOC MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. MPH 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RAULUX 1X28 HF) FOR "TLD FLUORESCENT LAMP (T5 LAMP)"
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. NOVA 2X18 (C))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)

8	K		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FIL LAMP (T5 LAMP) - PREWIRED UP TO A TERMINAL BOX WITH LAMP. HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 / 2X28W D6 HF OR KESELEC ZUMTOBEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
11	P1		32A 3 PHASE SPIN INDUSTRIAL SOCKET OUTLET (IP65)
12	P2		16A 1 PHASE SPIN INDUSTRIAL SOCKET OUTLET (IP54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD		ADVT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

GENERAL NOTES:	
1.	ALL DIMENSIONS ARE IN MILLIMETERS.
2.	ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3.	ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE DMRC BEFORE EXECUTION OF THE WORK AT SITE.
4.	THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL AND TRAFFIC MANAGEMENT DRAWINGS.
5.	ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.
REFERENCE DRAWINGS	
Dwg. No.	Description

REVISIONS						
REV	PARTICULARS	DRN.	CHD.	VER.	DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC			
DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC	CSTE-I	ED/S&T	CSO
DY CSTE/SIGNALLING	CSTE-III	GM/O	GMM
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE/EJUG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture
Design In-charge/ Coordinator

Structure
Design In-charge/ Coordinator

E&M
Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

Engineering, Information, Imagination.

56, Indo-Asia House, Institutional Area, sector-44
Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: CHOTI CHOUPAR

DRAWING TITLE: ELECTRICAL LAYOUT CONCOURSE LEVEL

DRAWN BY: SURJEET

CHECKED BY: H.O.B

VERIFIED BY: LRS

DATE: 31-03-2015

REV: R0

GRAPHICAL SCALE: 1:150

STATUS: FOR TENDER

DRAWING NUMBER: JP-TD-EL-10CC-1302

SHEET NO. 2 OF 4

SHEET SIZE UNE A1

ORDER N° P36-0017

JP/EW/1B/DDC01 ELECTRICAL

ELECTRICAL & S&T SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOUT POSITION
ES10	ELECTRICAL SHAFT & CUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E24	BATTERY RACK - 4NOS.	0.20X2.00	0.04	FLOOR
E25	2NOS. CUTOUT FOR SMS/ECS	0.30X3.30	0.99	FLOOR
E26	ELECTRICAL CUTOUT	1.00X1.50	0.50	FLOOR
E28	TVS ELECTRICAL CUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & CUT OUT	1.90X0.63	1.20	FLOOR

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TSW 122 / 2X28W OR KESELEC CATALOG NO. RALUX 12X28 HF) FOR "TLD" FLOURESCANT LAMP (TS LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TSW 122 / 2X28W OR KESELEC CATALOG NO. RALUX 12X28 HF) FOR "TLD" FLOURESCANT LAMP (TS LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TSW 122 / 2X28W OR KESELEC CATALOG NO. RALUX 12X28 HF) FOR "TLD" FLOURESCANT LAMP (TS LAMP)
4	E		EFFICIENT, LOW GLARE, SURELUME MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TOW 450 /1X28 OR KESELEC CATALOG NO. RALUX 12X28 HF) FOR "TLD" FLOURESCANT LAMP (TS LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. MOVA 2X18 (G))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX 1X28 HF)
10	P		BULK HEAD LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FIT LAMP (TS LAMP) PREWIRED UP TO A TERMINAL BOX WITH LAMP. HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TOW 007 / 2X28W D6 OR KESELEC ZUMTSEBEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLOURESCANT LAMP (TS LAMP).
12	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(IP65)
13	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(IP54)
14	P3		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
15	AD		ADVNT. POINT
16	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
17	-		DISTRIBUTION BOARD

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Structure
Design In-charge/ Coordinator

E&M
Design In-charge/ Coordinator

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Imagination.
Indo-Asia House, Institutional Area, sector
Gurgaon - 122002 (Haryana)

DRAWING NUMBER:		SHEET NO.	SHEET SIZE	ORDER N°
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JP-TD-EL-10CC-1304	4 OF 4	UNE A1	P36-0017	1
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* AS PER POLY LINE

Designed and checked by Sudhakar P. N. Project Manager.		Authorised Signatory for DDC. JP/EW/1B/DDC01 Project Manager	
Structure Design In-charge/ Coordinator		E&M Design In-charge/ Coordinator	



DELHI METRO RAIL CORPORATION LTD.

Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

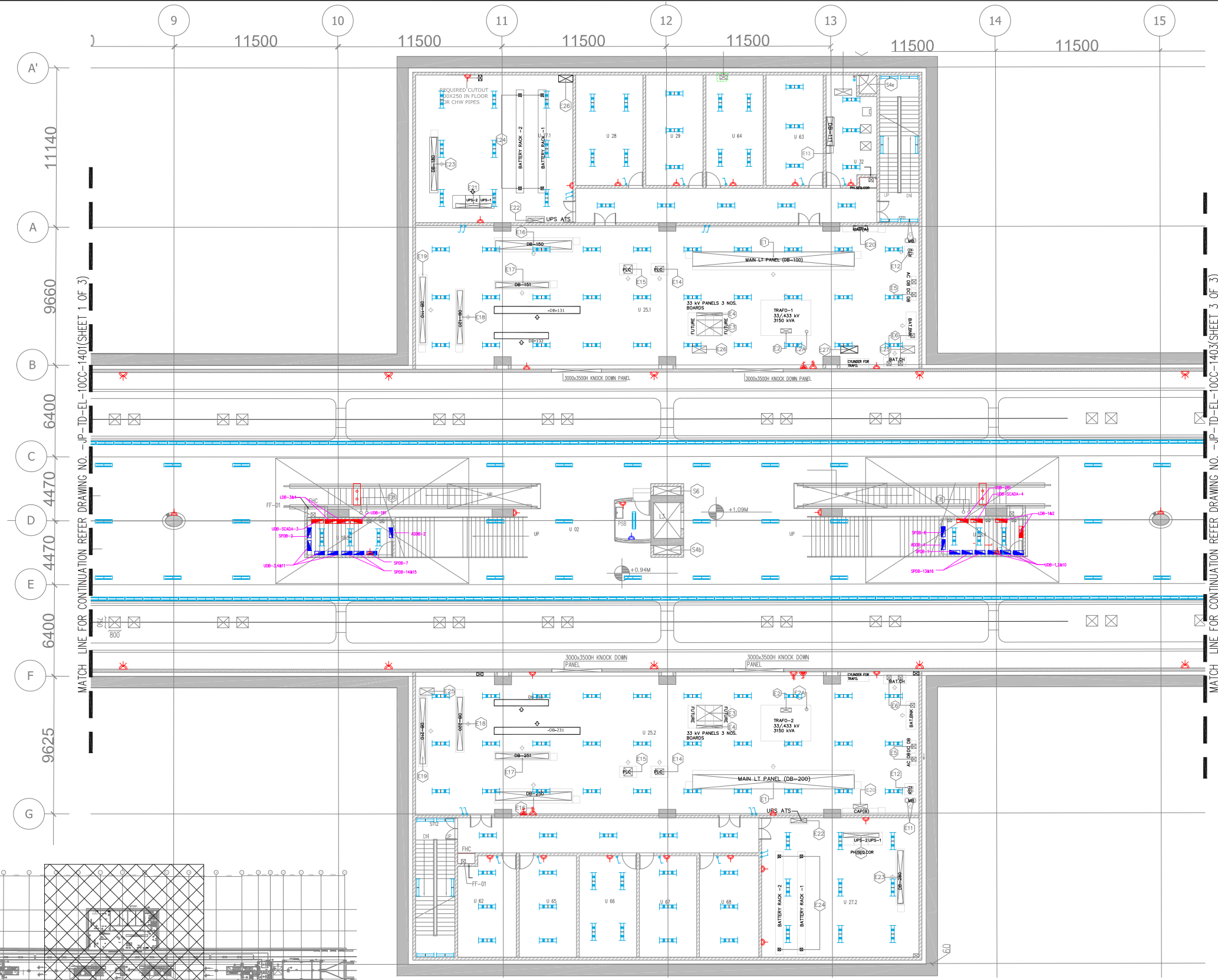
PHASE 1B JAIPUR METRO PROJECT

STATION: CHOTI CHOUPAR

DRAWING TITLE: ELECTRICAL LAYOUT PLATFORM LEVEL

DRAWN BY : SURJEET		CHECKED BY: H.O.B		VERIFIED BY: L.R.S.	
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150		STATUS: FOR TENDER	
DRAWING NUMBER: JP-TD-EL-10CC-1401		SHEET NO. 1 OF 3		SHEET SIZE A1	ORDER N° P36-0017

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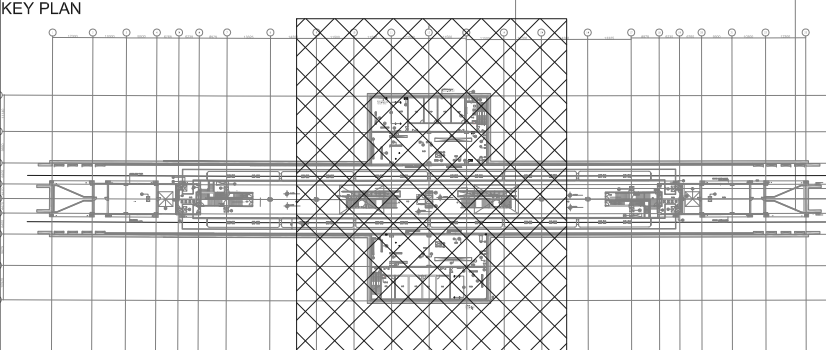


ROOM SCHEDULE			
S.NO	ROOM SCHEDULE	ROOM NAME	DIMENSION (ML) (LxW)
1	U02	Paid Area	1362.059
2	U08	FIRST AID SPACE	3.960 x 3.960
3	U12	CLEANER'S ROOM 1	4.000 x 7.715
4	U13	REFUSE STORE 1	3.960 x 3.960
5	U18.3	DB ROOM	5.955 x 2.450
6	U18.4	DB ROOM	5.955 x 2.450
7	U25.1	AUXILIARY SUB STATION(ASS)1	35.200 x 10.000
8	U25.2	AUXILIARY SUB STATION(ASS)2	35.200 x 10.000
9	U27.1	ELECTRICAL UPS ROOM 1	11.000 x 10.300
10	U27.2	ELECTRICAL UPS ROOM 2	11.000 x 9.750
11	U28	GSM ROOM	4.700 x 7.715
12	U29	CDMA ROOM	4.000 x 7.715
13	U31.1	SLEEPAGE ROOM 1	5.900 x 4.470
14	U31.2	SLEEPAGE ROOM 2	5.900 x 4.470
15	U32	SEEWAGE ROOM	3.550 x 7.715
16	U32.1	TUNNEL VENTILATION ROOM(TVS)1	14.800 x 9.140
17	U32.2	TUNNEL VENTILATION ROOM(TVS)2	14.800 x 9.140
18	PSB	PLATFORM SUPERVISOR BOOTH	2.550 x 2.650
19	U62	SPARE ROOM	4.000 x 7.100
20	U63	E & M STAFF ROOM	4.000 x 7.715
21	U64	E & M STORE ROOM	4.000 x 7.715
22	U65	L & E STAFF ROOM	4.000 x 7.100
23	U66	L & E STORE	4.000 x 7.100
24	U67	TRACTION STAFF	4.000 x 7.100
25	U68	TRACTION STORE	4.150 x 7.100

* AS PER POLY LINE

ELECTRICAL OUT OUT SCHEDULE			
OUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (Sq.M)
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225
E2A	TRAF-01 FOR CONTROL CABLE	0.20M Ø SLEEVE	
E3	HT PANEL INCOMING	1.80 X 1.10	1.98
E4	HT PANEL C&M	1.80 X 0.20	0.36
E5	AC DC-DB	0.30 X 0.30	0.09
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09
E7	DB-155/DB-255	2.50X 0.50	1.25
E8	ESCALATOR CONTROL PANEL	0.20M Ø SLEEVE (8 Nos)	
E9	DISTRIBUTION BOARD	0.30 X 0.20	0.06
ES10	ELECTRICAL CUTOFF- 2NOS	3.00 X 1.00	3.00
E11	RTU	0.30 M Ø SLEEVE (2 Nos)	
E12	MARSHALING BOX	0.15M Ø SLEEVE (4 Nos)	
E13	DB-111/DB-211	1.90 X 0.30	0.88
E14	PLC PANEL	0.60 X 0.40	0.24
E15	PLC PANEL	0.60 X 0.60	0.36
E16	DB-150/DB-250	5.30 X 0.60	3.18
E17	DB-151/DB-251	3.70 X 0.40	1.48
E18	DB-120/DB-220	3.70 X 0.40	1.48
E19	DB-110/DB-210	4.60 X 0.40	1.84
E20	CAPACITOR PANEL	1.00 X 0.30	0.30
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75
E22	UPS ATS	1.10 X 0.30	0.33
E23	DB-180/DB-280	3.70 X 0.40	1.48
E24	BATTERY RACK - 4NOS	0.20 X 0.20	0.04
E25	2NOS. CUTOFF FOR BMS/ECS	0.30 X 0.30	0.09
E26	ELECTRICAL CUTOFF	1.00 X 0.50	0.5
E27	ELECTRICAL CUTOFF	1.20 X 0.50	0.6
E28	BMS CONTROL PANEL	1.20 X 0.44	0.528

LEGEND: -		
S.N.	LIGHT NAME	DESCRIPTION
1	A	BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 TS OR KESELEC CATALOG NO. RAULUX 2X28 HF) FOR 'TL'D FLUORESCENT LAMP (TS LAMP)
2	B	BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RAULUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (TS LAMP)
3	C	BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDULUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TL'D FLUORESCENT LAMP (TS LAMP)
4	E	EFFICIENT, LOW GLARE, SURELCE MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H	BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RAULUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (TS LAMP)
6	I	RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. NOVA 2X18 (G))
7	J	MIRROR OPTIC, RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
8	K	MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L	MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX DL 1X28 HF)
10	P	BULK HEAD LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q	2X28W FT. LAMP (TS LAMP) PREWIRED UP TO A TERMINAL BOX WITH LAMP, HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TOW 097 / 2X28W D6 HF OR KESELEC ZUMTABEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (TS LAMP)
11	P1	32A 3 PHASE SPIN INDUSTRIAL SOCKET OUTLET(P65)
12	P2	16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(P54)
13	P4	6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD	ADVT. POINT
15	EM	6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-	DISTRIBUTION BOARD



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- ALL DOOR/WINDOW GILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS

Dwg. No.	Description

REVISIONS

REV	PARTICULARS	DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION

APPROVAL BY DMRC

DMRC APPROVAL	MGR/ARCH	DY CA (UG)-II	CA/ARCH
DY CSTE/TELECOM	CSTE-I	DY CE/DESIGN	CE/TECH
DY CSTE/AFC		ED/IS&T	CSO
DY CSTE/SIGNALLING	CSTE-II	GMO	GMM
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC-II
DY CEE(E)UG-TR	CGM(E) UG-TR	PM	CPM

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Authorised Signatory for DDC.
JP/EW/1B/DDC01 Project Manager

Architecture	Structure	E&M
Design In-charge/ Coordinator	Design In-charge/ Coordinator	Design In-charge/ Coordinator

DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO

ayesa Engineering, Information, Imagination.

56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)

DELHI METRO RAIL CORPORATION LTD.
Metro Bhawan , Fire Brigade Lane, Barakhamba Road, New Delhi-110001

PHASE 1B JAIPUR METRO PROJECT

STATION: CHOTI CHOUPAR

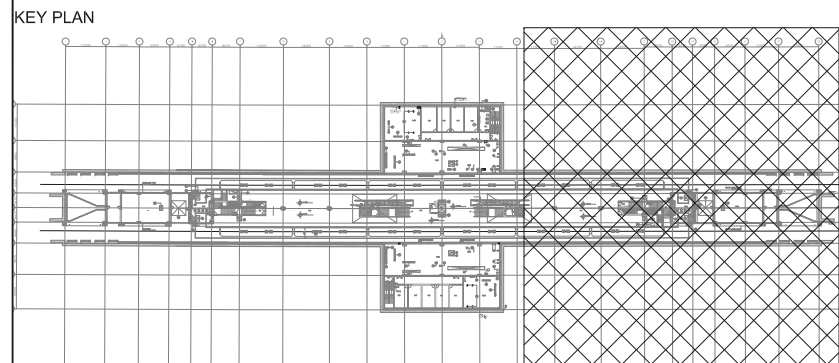
DRAWING TITLE: ELECTRICAL LAYOUT PLATFORM LEVEL

DRAWN BY:	CHECKED BY:	VERIFIED BY:
SURJEET	H.O.B	L.R.S














DATE:	REV:	GRAPHICAL SCALE:	STATUS:
31-03.2015	R0	1:150	FOR TENDER



DRAWING NUMBER:	SHEET NO.	SHEET SIZE	ORDER N°
JP-TD-EL-10CC-1402	2 OF 3	A1	P36-0017

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* AS PER POLY LINE

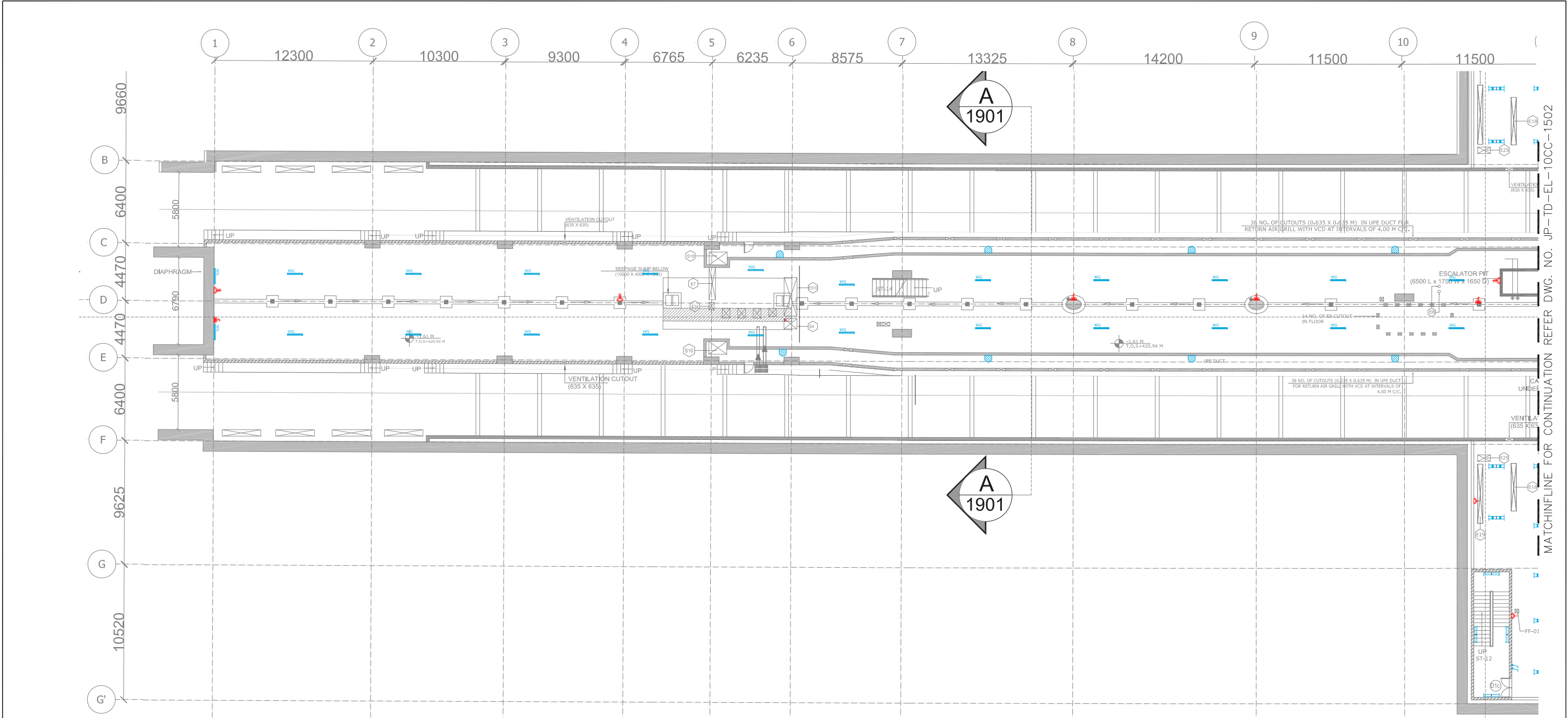
LEGEND:-			
S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 T5 OR KESELEC CATALOG NO.RAULUX 2X28 HF) FOR TLD FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. TLD FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDLUX V 228 HF WITH VITREOUS ENAMELED REFLECTOR) FOR TLD FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURCLEM MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RAULUX 1X28 HF) FOR TLD FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINARIES (SIMILAR TO PHILIPS CATALOGUENO FBH 145 / 218 OR KESELEC CATALOG NO.NOVA 2X18 (G))
7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUENO TBS 255 TS 228 OR KESELEC CATALOG NOPHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUENO TBS 669 / 228 D6 OR KESELEC CATALOG NO.CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINARIES (SIMILAR TO PHILIPS CATALOGUENO TBS 669 / 128 D6 OR KESELEC CATALOG NO.CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KBH 1X9 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FIT LAMP (T5 LAMP) PREWIRED UP TO A TERMINAL BOX WITH LAMP, HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TOW 007 / 2X28W D6 HF OR KESELEC ZUMTABEL MAWE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
11	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(P65)
12	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(P54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD		ADVNT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

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											DMRC APPROVAL		MGR/ARCH		DY CA (UG)-II		CA/ARCH		Architecture Design In-charge/ Coordinator		Structure Design In-charge/ Coordinator		E&M Design In-charge/ Coordinator							
											DY CSTE/TELECOM		CSTE-I		DY CE/DESIGN		CE/TECH		DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO  Engineering, Information, Imagination. 56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)											
											DY CSTE/AFC				ED/S&T		CSO													
											DY CSTE/SIGNALLING		CSTE-III		GMO		GMM													
											DY CE/PLANNING		DY CEE/E&M		DY CEE/ECS		ED/ELEC-II													
											DY CEE/(E)UG-TR		CGM(E) UG-TR		PM		CPM													
											REV		PARTICULARS		DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION										

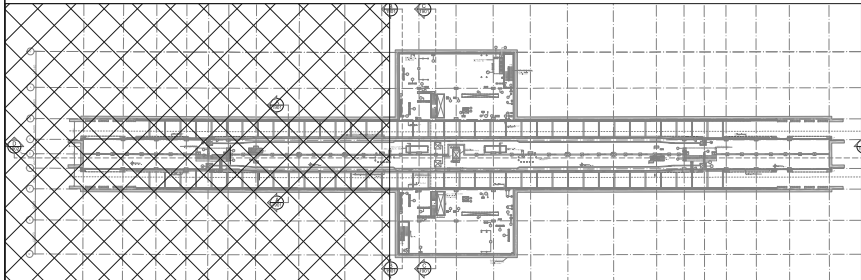
REFERENCE DRAWINGS									
Dwg. No.					Description				

DRAWN BY :		SURJEET		CHECKED BY:		H.O.B		VERIFIED BY:		L.R.S	
DATE:		31-03.2015		REV:		R0		GRAPHICAL SCALE:		1:150	
										STATUS:	
										FOR TENDER	
DRAWING NUMBER:				JP-TD-EL-10CC-1403				SHEET NO.		SHEET SIZE	
								3 OF 3		A1	
								ORDER N°		P36-0017	
								JP/EW/1B/DDC01		ELECTRICAL	

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KEY PLAN

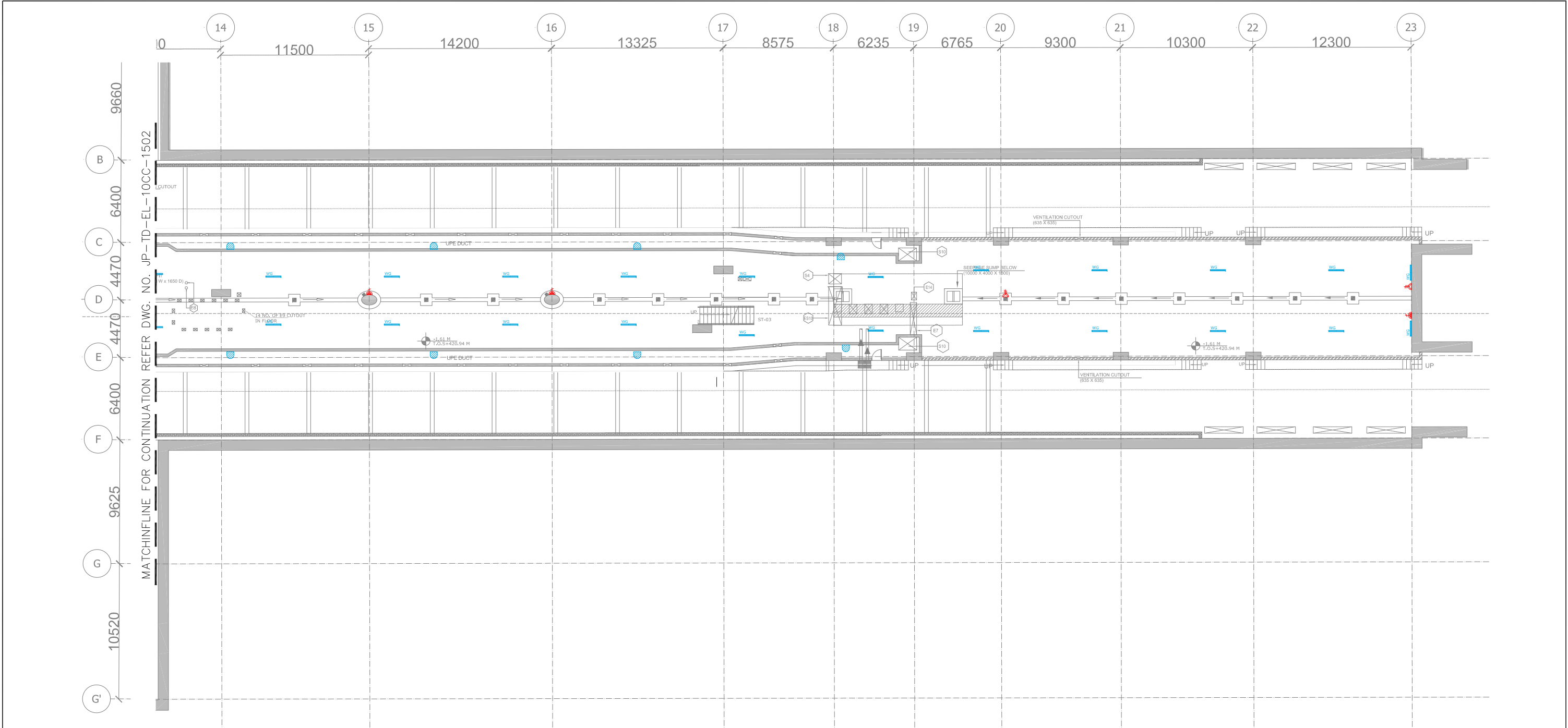


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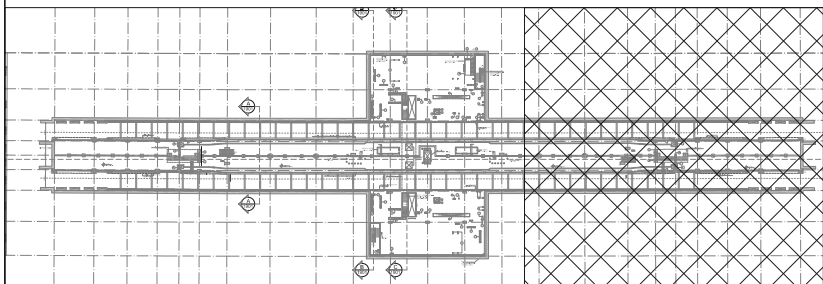
S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 TS OR KESELEC CATALOG NO. RAILUX 2X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDLUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELCE MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 /1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. NOVA 2X18 (G))

7	J		MIRROR OPTIC RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KSH 1X3 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FTL LAMP (T5 LAMP) PREWIRED UP TO A TERMINAL BOX WITH LAMP. HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 / 2X28W D6 HF OR KESELEC ZUMTOBEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP)
11	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(IP65)
12	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(IP54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
14	AD		ADVT. POINT
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

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	DRAWN BY : SURJEET		CHECKED BY: H.O.B		VERIFIED BY: LRS		JP/EW/1B/DDC01 ELECTRICAL																																		
	DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150		STATUS: FOR TENDER																																				
	DRAWING NUMBER: JP-TD-EL-10CC-1501		SHEET NO. 1 OF 3	SHEET SIZE UNE A1	ORDER N° P36-0017																																				
	REFERENCE DRAWINGS												Architecture Design In-charge/ Coordinator			Structure Design In-charge/ Coordinator			E&M Design In-charge/ Coordinator																						
													DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO <div></div> <div>56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)</div>																												





KEY PLAN



LEGEND:-

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 TS OR KESELEC CATALOG NO. RAILUX 2X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDULUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELCE MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINIUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TOW 450 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TL'D FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. NOVA 2X18 (G))

7	J		MIRROR OPTIC, RECESSED MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX DL 1X28 HF)
10	P		BULK HEAD LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FXC 101 OR KESELEC CATALOG NO. KHB 1X3 W) SUITABLE FOR MOUNTING ON WALL / CEILING
11	Q		2X28W FTL LAMP (T5 LAMP) - PREWIRED UPTO A TERMINAL BOX WITH LAMP. HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 / 2X28W D6 HF OR KESELEC 2UMT08EL MAKE 'F2 2X28W HF') AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
11	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(P65)
12	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(P54)
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
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	REFERENCE DRAWINGS															Architecture Design In-charge/ Coordinator			Structure Design In-charge/ Coordinator					E&M Design In-charge/ Coordinator				
																DETAIL DESIGN CONSULTANT (DDC) FOR CIVIL, ARCHITECTURAL & BUILDING WORKS OF TWO UNDERGROUND STATION (CHOTI CHOUPAR & BADI CHOUPAR), SHAFT AND TUNNELS OF PHASE 1B OF JAIPUR METRO  56, Indo-Asia House, Institutional Area, sector-44 Gurgaon - 122002 (Haryana)			DMRC APPROVAL				MGR/ARCH		DY CA (UG)-III		CA/ARCH	
																			DY CSTE/TELECOM		CSTE-I		DY CE/DESIGN		CE/TECH			
																			DY CSTE/AFC				ED/S&T		CSO			
																			DY CSTE/SIGNALLING				CSTE-III		GMO		GMM	
																			DY CE/PLANNING				DY CEE/E&M		DY CEE/ECS		ED/ELEC-II	
																DY CEE/(E)UG-TR				CGM(E) UG-TR		PM		CPM				
	REV							PARTICULARS		DRN.	CHD.	VER.	DATE	ISSUE DATE	REV. FOR CONSTRUCTION													
	Dwg. No.		Description																									