

LIST OF ELECTRICAL DRAWINGS

S.NO.	DRAWING TITLE	SHEET	DRAWING NO.	REVISION
01	LIST OF ELECTRICAL DRAWINGS	SHEET 1 OF 1	JP-TD-EL-11BC-1001	R0
02	LEGENDS, NOTES AND ABBREVIATION	SHEET 1 OF 1	JP-TD-EL-11BC-1002	R0
03	MAIN SINGLE LINE DIAGRAM	SHEET 1 OF 1	JP-TD-EL-11BC-1003	R0
04	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 1 OF 7	JP-TD-EL-11BC-1004	R0
05	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 2 OF 7	JP-TD-EL-11BC-1005	R0
06	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 3 OF 7	JP-TD-EL-11BC-1006	R0
07	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 4 OF 7	JP-TD-EL-11BC-1007	R0
08	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 5 OF 7	JP-TD-EL-11BC-1008	R0
09	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 6 OF 7	JP-TD-EL-11BC-1009	R0
10	SINGLE LINE DIAGRAM FOR ECS PANELS	SHEET 7 OF 7	JP-TD-EL-11BC-1010	R0
11	ELECTRICAL LAYOUT ANCIALLARY BUILDING GROUND LEVEL	SHEET 1 OF 2	JP-TD-EL-11BC-1201	R0
12	ELECTRICAL LAYOUT ANCIALLARY BUILDING TERRACE LEVEL	SHEET 2 OF 2	JP-TD-EL-11BC-1202	R0
13	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 1 OF 4	JP-TD-EL-11BC-1301	R0
14	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 2 OF 4	JP-TD-EL-11BC-1302	R0
15	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 3 OF 4	JP-TD-EL-11BC-1303	R0
16	ELECTRICAL LAYOUT CONCOURSE LEVEL	SHEET 4 OF 4	JP-TD-EL-11BC-1304	R0
17	ELECTRICAL LAYOUT PLATFORM LEVEL	SHEET 1 OF 3	JP-TD-EL-11BC-1401	R0
18	ELECTRICAL LAYOUT PLATFORM LEVEL	SHEET 2 OF 3	JP-TD-EL-11BC-1402	R0
19	ELECTRICAL LAYOUT PLATFORM LEVEL	SHEET 3 OF 3	JP-TD-EL-11BC-1403	R0
20	ELECTRICAL LAYOUT UNDERCROFT LEVEL	SHEET 1 OF 3	JP-TD-EL-11BC-1501	R0
21	ELECTRICAL LAYOUT UNDERCROFT LEVEL	SHEET 2 OF 3	JP-TD-EL-11BC-1502	R0
22	ELECTRICAL LAYOUT UNDERCROFT LEVEL	SHEET 3 OF 3	JP-TD-EL-11BC-1503	R0

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	REFERENCE DRAWINGS																		PHASE 1B JAIPUR METRO PROJECT		
	Dwg. No.	Description																	STATION: BADI CHOUPAR		
																			DRAWING TITLE: LIST OF ELECTRICAL DRAWINGS		
																			DRAWN BY : SURJEET		
																			CHECKED BY: H.O.B		
			VERIFIED BY: L.R.S																		
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		DRAWING NUMBER: JP-TD-EL-11BC-1001																			
		SHEET NO. 1 OF 1																			
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		ELECTRICAL																			
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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-II	GM/O	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

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)

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 FTI 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 SNF 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 BOO & 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/WALSZH 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 BOO, 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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Engineering, Information, Imagination.

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

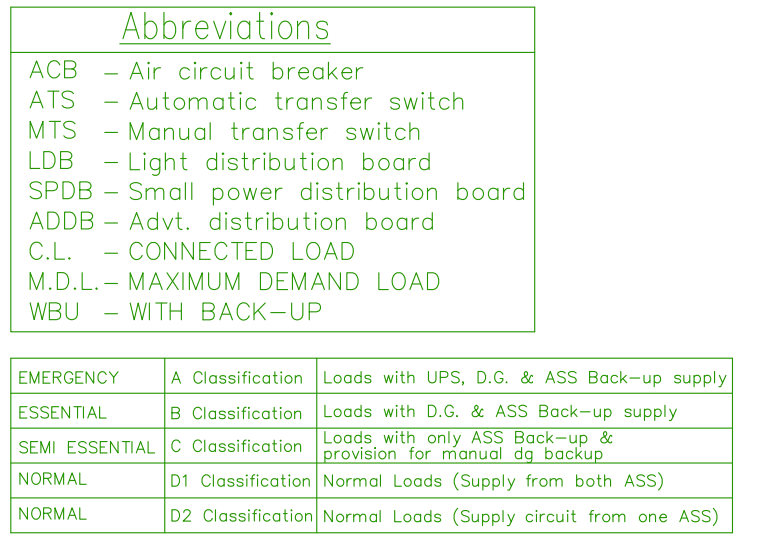


Figure 10: Example of a power distribution system. The diagram shows a power distribution system starting from a 'SMALL POWER PANEL DB-210'. The system is divided into three main levels: CONDUIT LEVEL, PLATFORM LEVEL, and CONCOURSE LEVEL. Each level has a set of breakers (DB-1 through DB-20) and associated loads. The loads are categorized into three levels: CONDUIT LEVEL (DB-1 to DB-10), PLATFORM LEVEL (DB-11 to DB-15), and CONCOURSE LEVEL (DB-16 to DB-20). Each load is represented by a box with its name and a 'Back-up from' source. The diagram also shows the connection to a 'KISS SYSTEM' and a 'KISS DB-2'.



DELHI METRO RAIL CORPORATION

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

DMRC LTD.

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

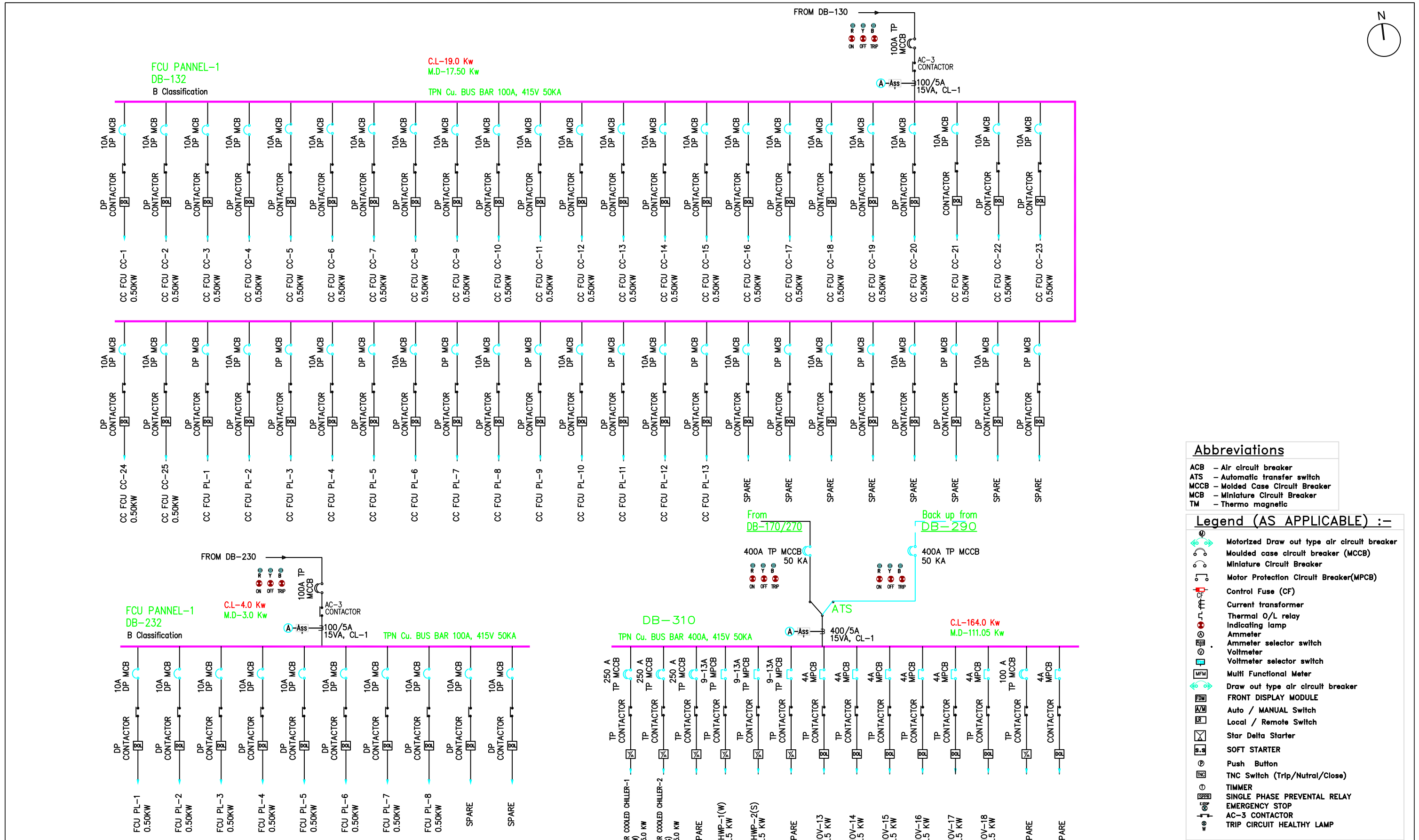
DRAWING TITLE: MAIN SINGLE LINE DIAGRAM

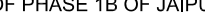
DRAWN BY : SURJEET	CHECKED BY: H.O.B	VERIFIED BY: LRS			
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: NTS			
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DRAWING NUMBER: JP-TD-EL-11BC-1003		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SHEET NO. 1 OF 1</td> <td style="width: 33%;">SHEET SIZE UNE A1</td> <td style="width: 33%;">ORDER N° P36-0017</td> </tr> </table>	SHEET NO. 1 OF 1	SHEET SIZE UNE A1	ORDER N° P36-0017
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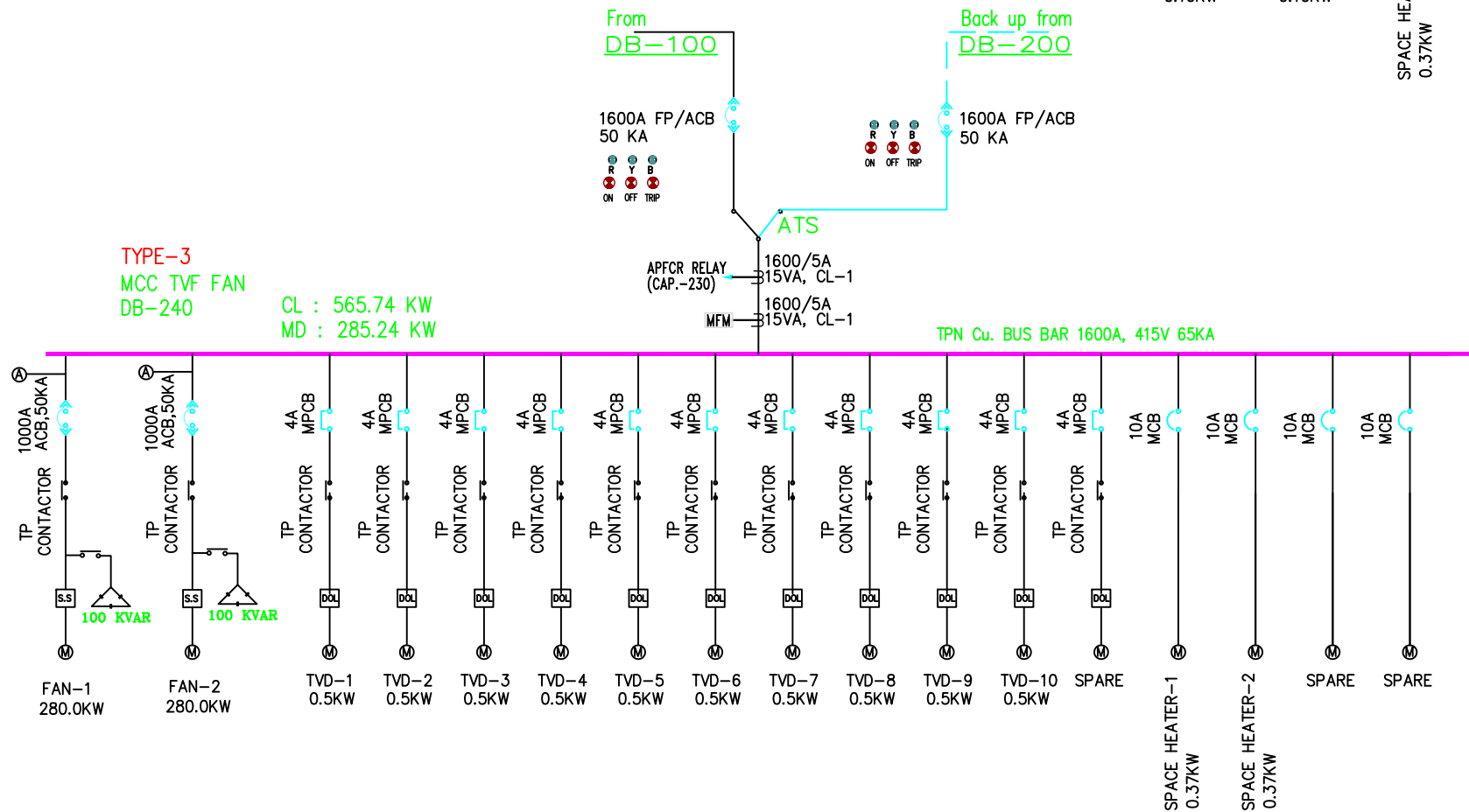
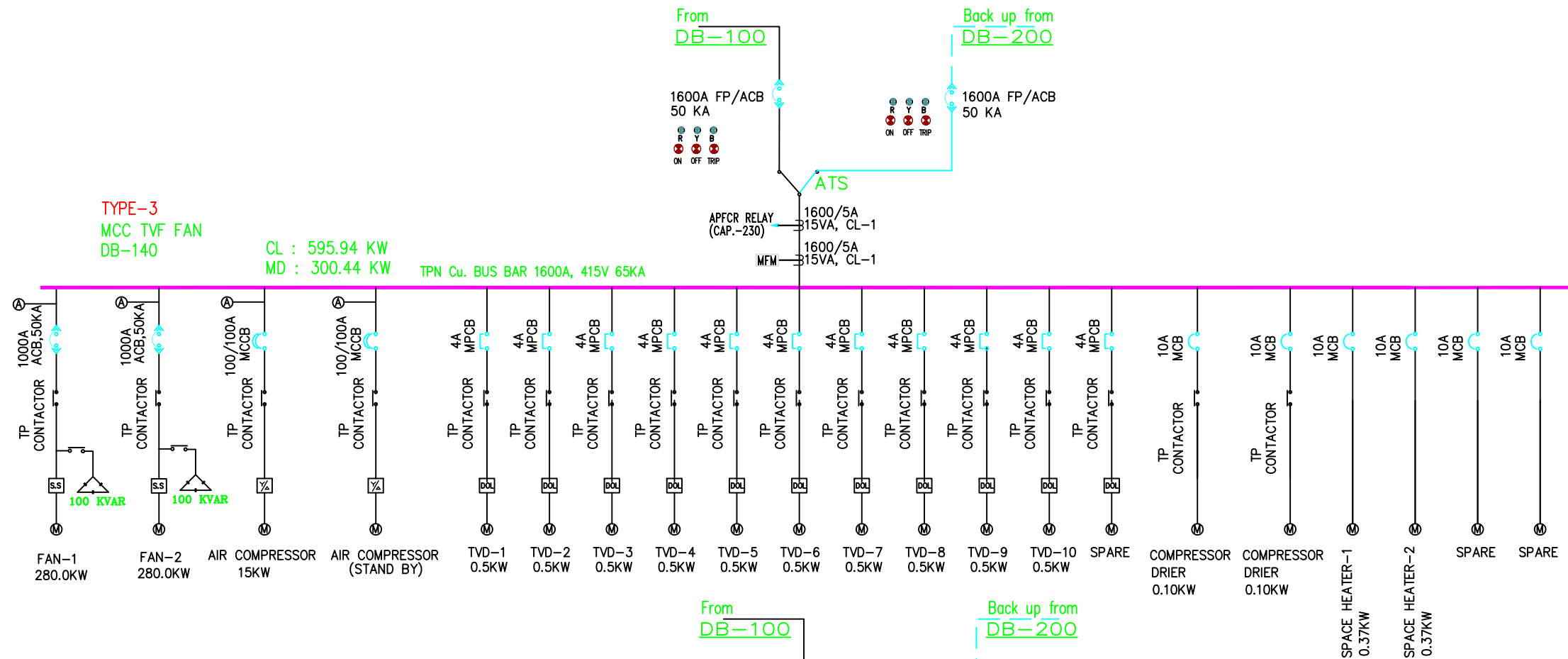
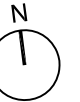
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JP/EL/1B/DDC01

ELECTRICAL



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											DMRC APPROVAL	MGR/ARCH	DY CA (UG)-III	CA/ARCH	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						
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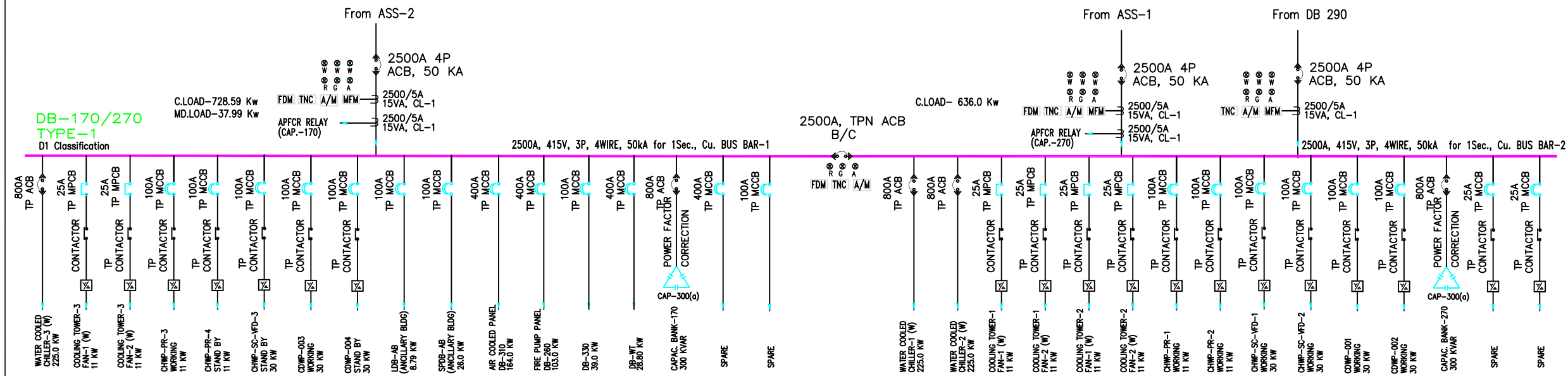
Abbreviations

ACB - Air circuit breaker
ATS - Automatic transfer switch
MCCB - Molded Case Circuit Breaker
MCB - Miniature Circuit Breaker
TM - Thermo magnetic

Legend (AS APPLICABLE) :-

	Motorized 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 Functional Meter
	Draw out type air circuit breaker
	FRONT DISPLAY MODULE
	Auto / MANUAL Switch
	Local / Remote Switch
	Star Delta Starter
	SOFT STARTER
	Push Button
	TNC Switch (Trip/Nutral/Close)
	TIMMER
	SINGLE PHASE PREVENTAL RELAY
	EMERGENCY STOP
	AC-3 CONTACTOR
	TRIP CIRCUIT HEALTHY LAMP

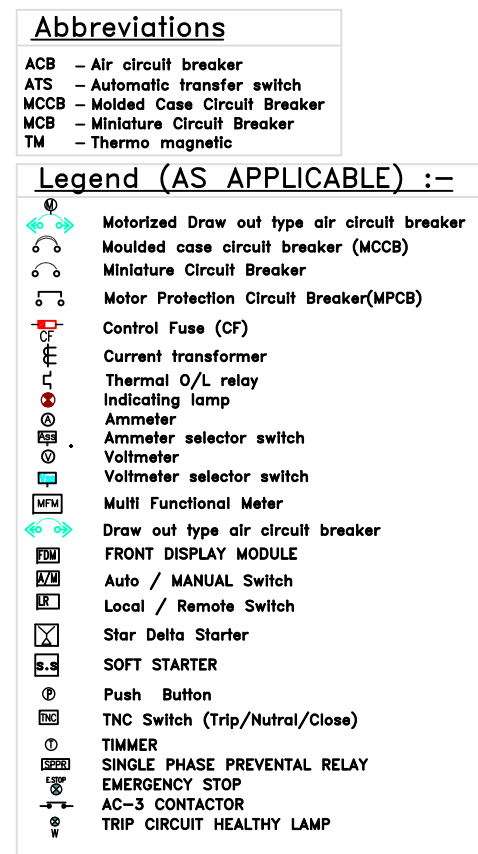
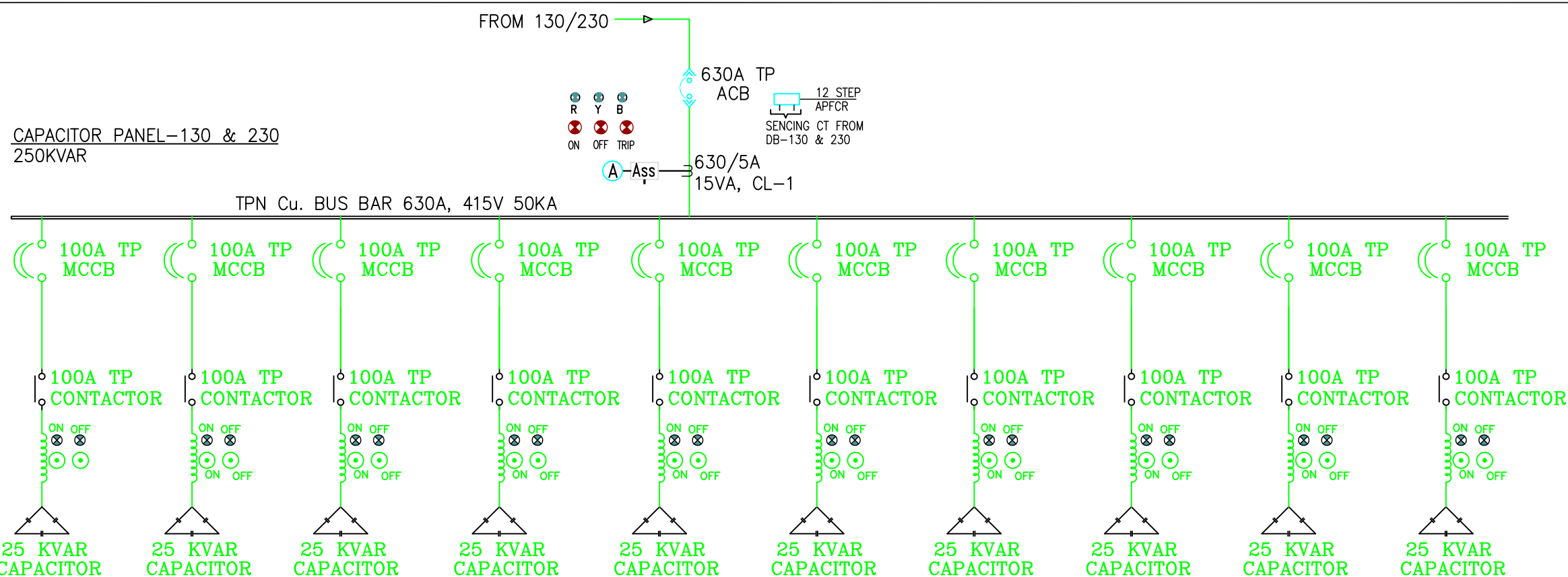
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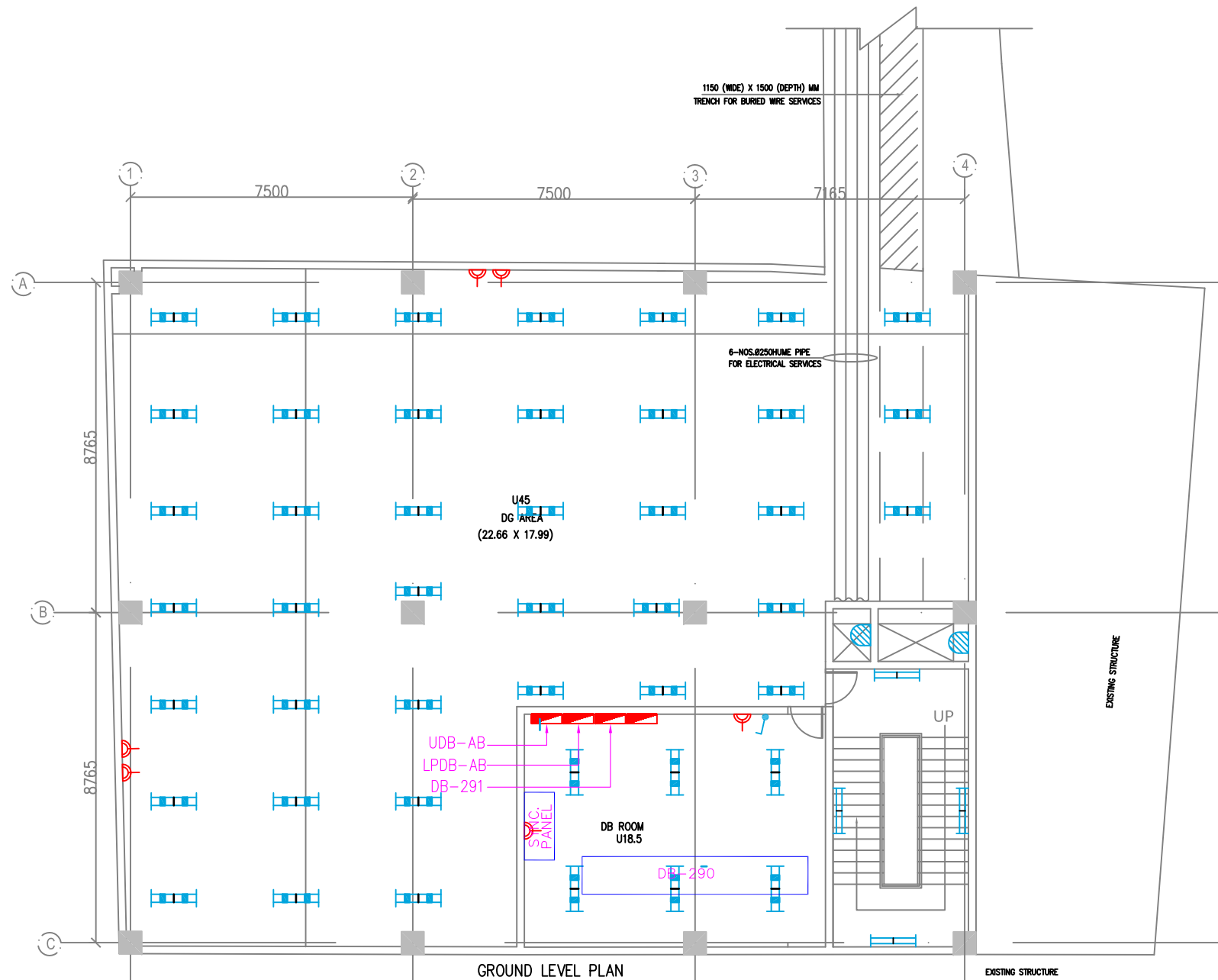
ACB – Air circuit breaker
ATS – Automatic transfer switch
MCCB – Molded Case Circuit Breaker
MCB – Miniature Circuit Breaker
TM – Thermo magnetic

	Motorized 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 Functional Meter
	Draw out type air circuit breaker
	FRONT DISPLAY MODULE
	Auto / MANUAL Switch
	Local / Remote Switch
	Star Delta Starter
	SOFT STARTER
	Push Button
	TNC Switch (Trip/Neutral/Close)
	TIMMER
	SINGLE PHASE PREVENTAL RELAY
	EMERGENCY STOP
	AC-3 CONTACTOR
	TRIP CIRCUIT HEALTHY LAMP

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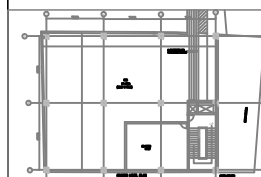
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Sr. No	Room Schedule	Room Name	Dimension (MT) L X B	Area (SQM.)
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1	U 18.5	DB ROOM	8.00 X 6.18	49.44

*AREA AS PER PLINE

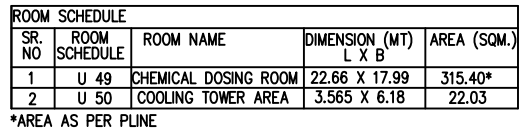
LEGEND: -

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 'TLD' 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 '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. 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 '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 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

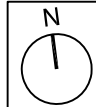
KEY PLAN



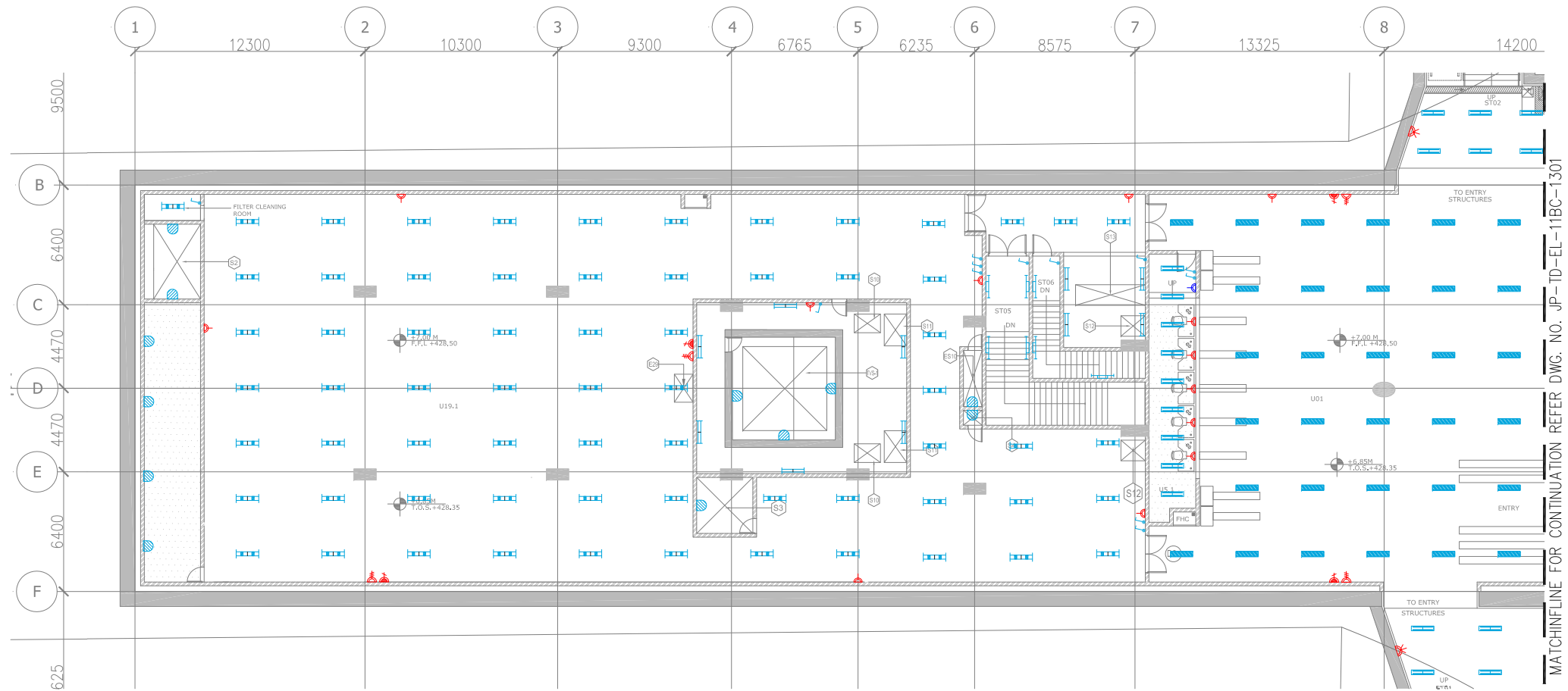
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	REFERENCE DRAWINGS										Architecture Design In-charge/ Coordinator			Structure Design In-charge/ Coordinator					STATION: BADI CHOUPAR		
	Dwg. No.																	DRAWING TITLE: ELECTRICAL LAYOUT ANCILLARY BUILDING GROUND LEVEL			
											DETAIL 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			E&M Design In-charge/ Coordinator					DRAWN BY: SURJEET		
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																		SHEET NO. 1 OF 2			
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2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 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 / 2X28 OR KESELEC CATALOG NO. INDILUX V 228 HF WITH WITREOUS ENAMELLED REFLECTOR) FOR "TLD" FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELOC 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 1/1X28 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 FTL LAMP (T5 LAMP) PREMURED 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).
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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
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MATCHLINE FOR CONTINUATION REFER DWG. NO. JP-TD-EL-11BC-1301

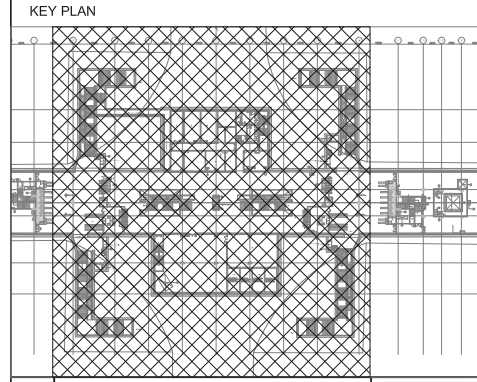
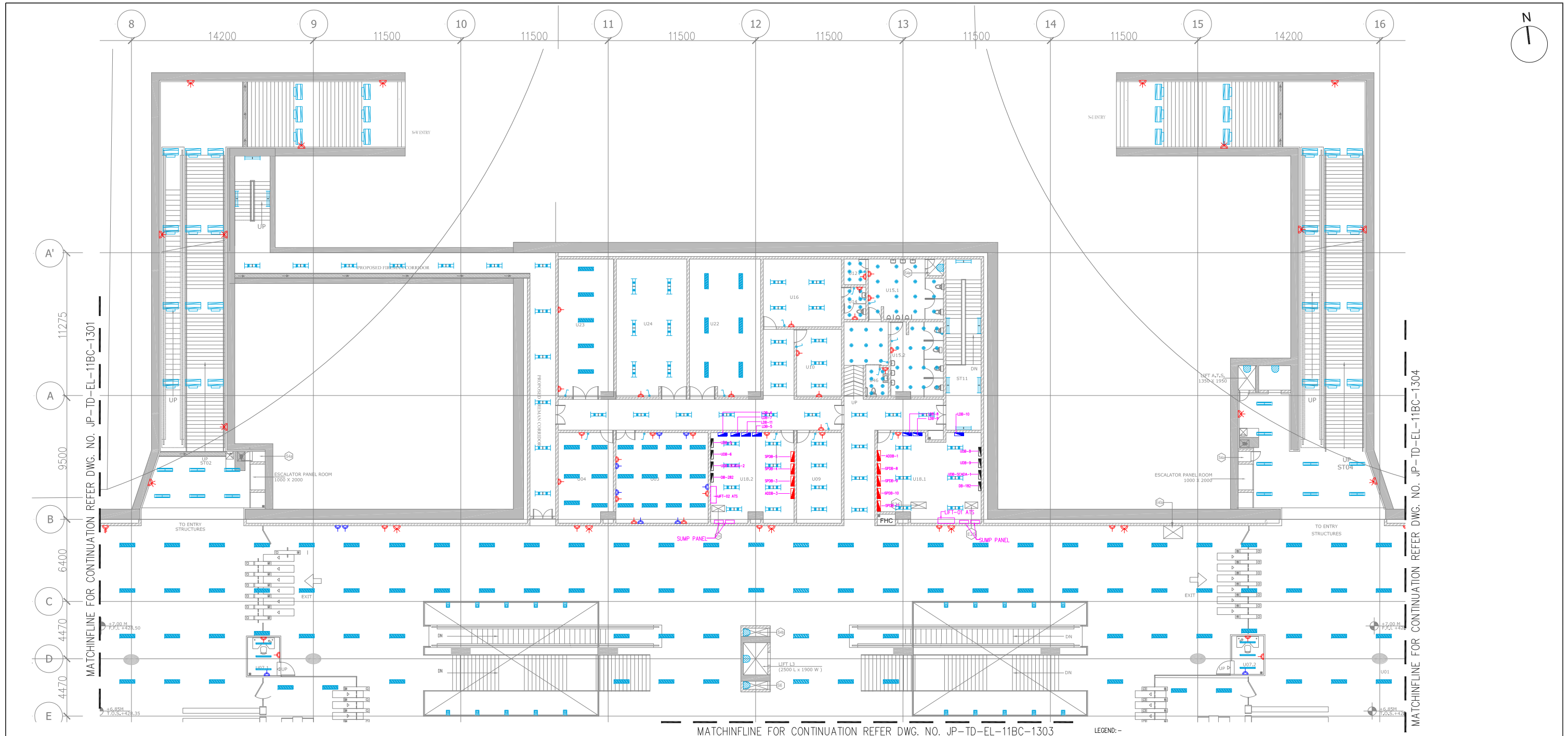
ELECTRICAL AND S&T SCHEDULE				
OUT TUM NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	COUTOUT POSITION
ES10	ELECTRICAL SHAFT & COUTOUT- 2NOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.20X0.50	0.60	FLOOR
E28	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E29	TYS ELECTRICAL COUT OUT	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & COUT OUT	1.90X0.63	1.20	FLOOR

LIGHT NAME			SYMBOL	DESCRIPTION
S.N.	LEG.	NAME		
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28 / 15 OR KESELEC CATALOG NO. RALUX 1X28 HF)	
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RALUX 1X28 HF) FOR TLD FLUORESCENT LAMP (T5 LAMP)	
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28 OR KESELEC CATALOG NO. INDLUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR TLD FLUORESCENT LAMP (T5 LAMP)	
4	E		EFFICIENT, LOW GLARE, SURELOC MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MPF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINUM REFLECTOR OF ASYMMETRIC TYPE.	
5	H		BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RALUX 1X28 HF) FOR TLD 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. KBH 1X19 W) SUITABLE FOR MOUNTING ON WALL / CEILING	
11	Q		2X28W FIT LAMP (SIMILAR) PREWIRED UP TO A TERMINAL BOX WITH LAMP, HAVING P1 65 (SIMILAR TO PHILIPS CATALOGUE NO. TCW 097 / 2X28W D6 HF OR KESELEC TUBOFLUOR MAKE F2 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).	
11	P1		32A 3 PHASE SPIN INDUSTRIAL SOCKET OUTLET(P65)	
12	P2		16A 1 PHASE SPIN INDUSTRIAL SOCKET OUTLET(P54)	
13	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET (P04)	
14	AD		ADVNT. POINT	
15	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET	
16	-		DISTRIBUTION BOARD	

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S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M.) (L x W)	AREA (Sq.m.)
1	U01	UNPAID AREA	12.35 x 8.67	107.08
2	U02	PAD AREA	12.35 x 8.67	107.08
3	U03	STATION CONTROL ROOM (SCR)	7.200 x 7.060	50.83
4	U04	STATION MANAGER ROOM (SMR)	4.300 x 7.060	30.36
5	U05.1	TICKET OFFICE (TOM)	2.500 x 14.35	35.86
6	U05.2	TICKET OFFICE (TOM)	2.500 x 14.35	35.86
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	3.550 x 7.060	25.07
10	U10	STATION STORE ROOM	3.50 x 5.26	18.40
11	U12	JANITOR ROOM	1.700 x 2.000	3.40
12	U14	STAFF TOILET	1.700 x 2.500	4.24
13	U15.1(M)	PUBLIC TOILETS (Male)	5.850 x 4.700	27.50
14	U15.2(F)	PUBLIC TOILETS (Female)	4.100 x 5.835	23.87
15	U16	MESS ROOM	6.100 x 5.280	32.20
16	U18.1	DB ROOM	8.100 x 7.060	57.19
17	U18.2	DB ROOM	6.500 x 7.060	45.89
18	U19.1	ECS PLANT ROOM (ECS)	53.525 x 20.740	1110.00
19	U19.2	ECS PLANT ROOM (ECS)	53.525 x 20.740	1110.00
20	U22	SIGNALING EQUIPMENT ROOM (SER)	5.565 x 10.740	59.76

S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M.) (L x W)	AREA (Sq.m.)
21	U23	TELECOM EQUIPMENT ROOM (TER)	4.335 x 10.740	46.54
22	U24	UPS ROOM for S&T	5.500 x 10.740	59.08
23	U 42.1	TREATED WATER TANK	5.000 x 4.500	22.50
24	U 42.2	RAIN WATER TANK	5.000 x 4.500	22.50
25	U 42.3	FIRE TANKS	5.000 x 4.500	22.50
26	U 42.4	FIRE TANKS	5.000 x 4.500	22.50
27	U46	HANDICAP TOILET	1.750 x 2.250	3.95
28	U43	PUMP ROOM	8.100 x 7.060	57.19
29	U48	CHILLER ROOM	24.45 x 19.975	488.50

OUT PUT NUMBER	PURPOSE	SIZE (M)	AREA(Sq.M)	CUTOFF POSITION
ES10	ELECTRICAL SHAFT & CUTOFF- 2NOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E28	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E29	TVS ELECTRICAL CUTOFF	1.00X1.50	1.50	FLOOR
S6	S & T SHAFT & CUTOFF	1.90X0.63	1.20	FLOOR

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 TLD FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR TLD 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 ENAMELED REFLECTOR) FOR TLD 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 ALUMINUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR TLD 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. FIC 101 OR KESELEC CATALOG NO. KHM 119 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(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

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	ISSUE DATE

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(E)UG-TR	CGME(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

ayesa Engineering, Information, Imagination.

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

PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: LIGHTING 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-11BC-1302

SHEET NO. 2 OF 4

SHEET SIZE UNE A1

ORDER N° P36-0017

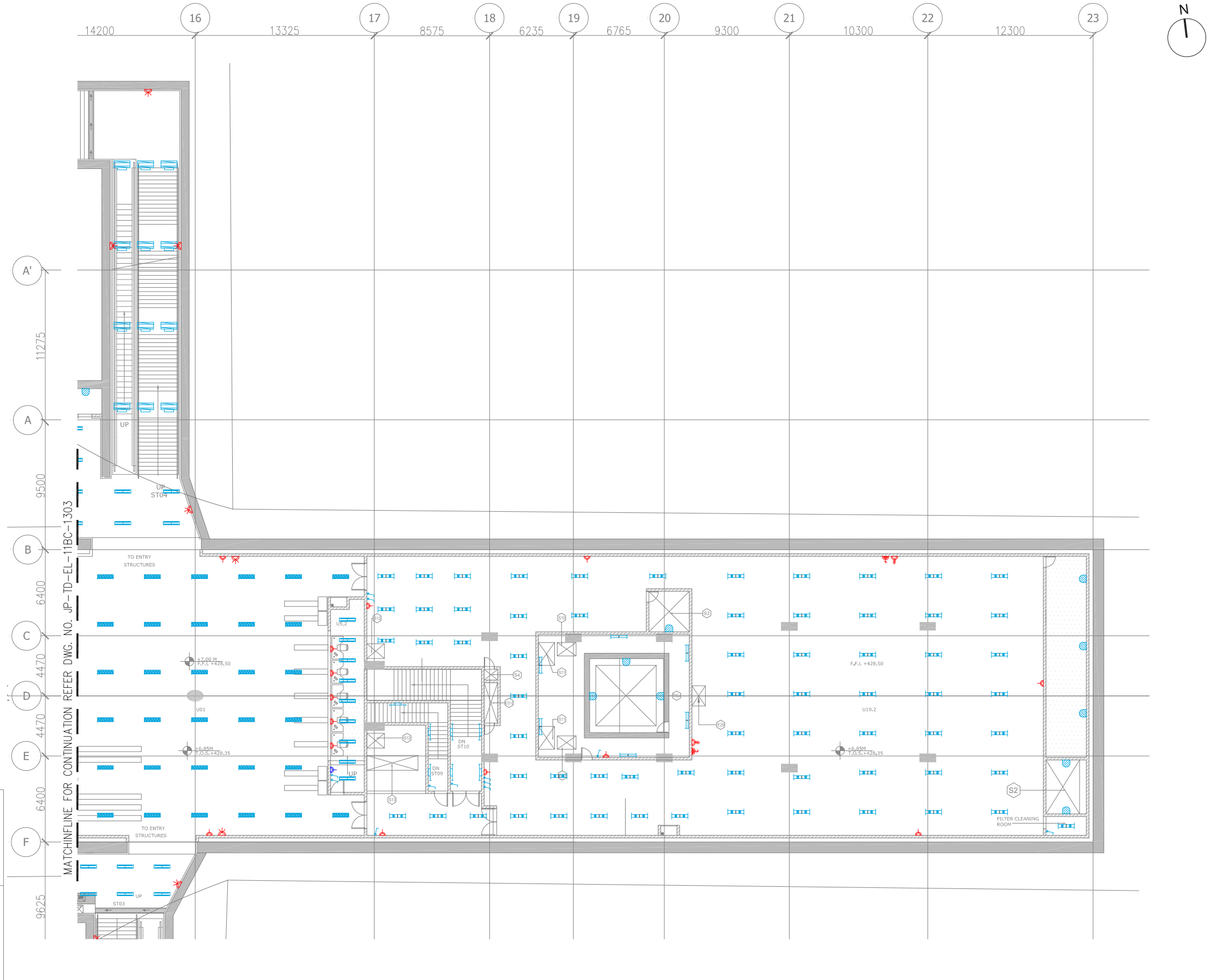
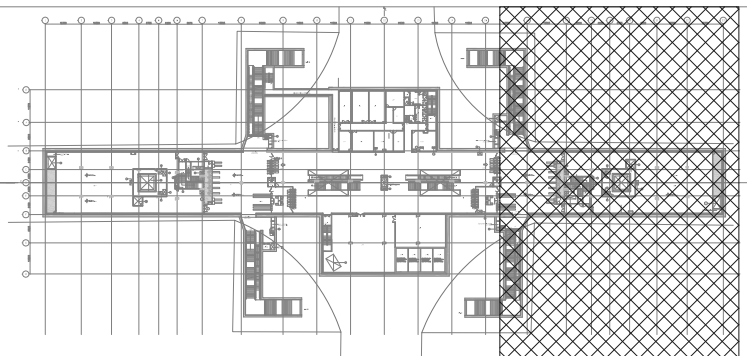
JP/EW/1B/DDC01 ELECTRICAL

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ELECTRICAL AND S&T SCHEDULE				
CUT OUT NUMBER	PURPOSE	SIZE (M)	AREA(SqM)	CUTOUT POSITION
E510	ELECTRICAL SHAFT & CUTOUT- 2TNOS	1.00X3.00	3.00	FLOOR
E25	ELECTRICAL SHAFT	1.00X0.50	0.50	FLOOR
E26	ELECTRICAL SHAFT	1.20X0.50	0.60	FLOOR
E28	ELECTRICAL SHAFT	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

LEGEND: -			
S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 122 X28 2T5 OR KESELEC CATALOG NO. 1X28 OR KESELEC CATALOG NO. T12 D FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / X28 OR KESELEC CATALOG NO. LUX 128 FT FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TWS 122 / X28 OR KESELEC CATALOG NO. INDULUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR T12 FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURCELMOUNT 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 / X28 OR KESELEC CATALOG NO. LUX 128 HF) FOR T12 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 (C))
7	J		MIRROR OPTIC RECESSED MOUNT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 255 TCS 228 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
8	K		MIRROR OPTIC RECESS MOUNT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 228 D6 OR KESELEC CATALOG NO. CT LUX 2X28 HF)
9	L		MIRROR OPTIC RECESS MOUNT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TBS 669 / 128 D6 OR KESELEC CATALOG NO. CT LUX XL 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 (T5 LAMP) PREWIRED UP TO A TERMINAL BOX WITH LAMP, HAVING IP 65 (SIMILAR TO PHILIPS CATALOGUE NO. TOW 057 / 2X28W D6 D6 OR KESELEC ZUMTOWBEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
12	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(IP65)
13	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(IP54)
14	P3		6A/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
15	AD		ADVNT. POINT
16	EM		6A/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
16	-		DISTRIBUTION BOARD

KEY PLAN



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
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5. ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS	
Dwg. No.	Description

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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		EDS&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/(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 Design In-charge/ Coordinator	Structure Design In-charge/ Coordinator	E&M Design In-charge/ Coordinator

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		

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56, Indo-Asia House, Institutional Area, sector-4
Gurgaon - 122002 (Haryana)

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

&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

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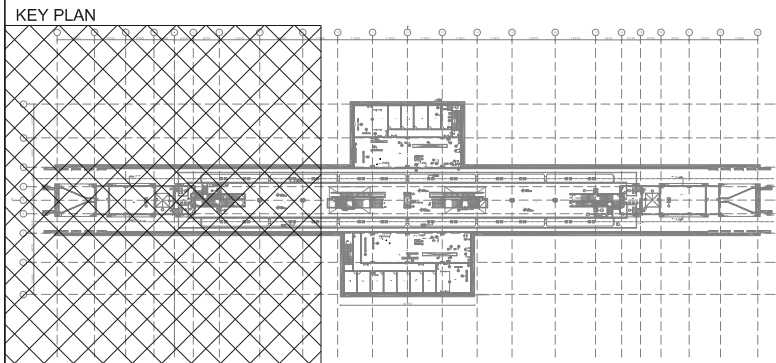
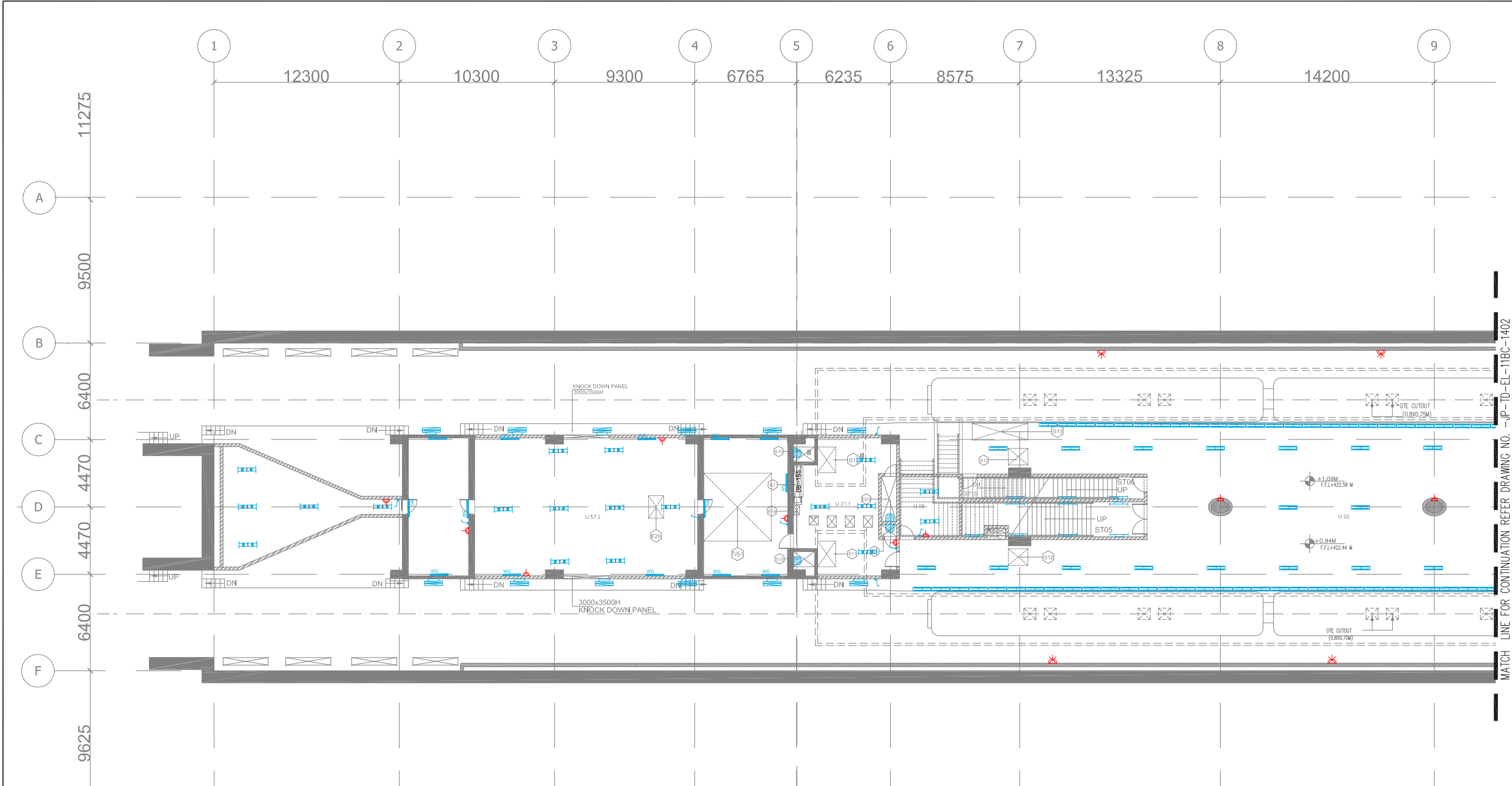
PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

DRAWING TITLE: LIGHTING LAYOUT CONCOURSE LEVEL

DRAWN BY: SURJEET		CHECKED BY: H.O.B.		VERIFIED BY: LRS		JPEW/IBDD01 ELECTRICAL	
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150		STATUS: FOR TENDER			
DRAWING NUMBER: JP-TD-EL-11BC-1304				SHEET NO. 4 OF 4	SHEET SIZE UNE A1		ORDER NO P36-0017

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ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M.) (LxW)	AREA (Sqm.)
1	U02	PAID AREA		1332*
2	U08	FIRST AID SPACE	3.960 x 3.960	15.68
3	U13	REFUSE STORE 1	3.960 x 3.960	15.68
4	U18.3	DB ROOM	5.810 x 2.450	14.23
5	U18.4	DB ROOM	5.810 x 2.450	14.23
6	U25.1	AUXILIARY SUB STATION(ASS)1	35.200 x 10.060	349.43*
7	U25.2	AUXILIARY SUB STATION(ASS)2	36.100 x 10.025	357.21*
8	U27.1	ELECTRICAL UPS ROOM 1	11.050 x 10.340	114.21
9	U27.2	ELECTRICAL UPS ROOM 2	11.250 x 9.750	109.68
10	U28	GSM ROOM	4.105 x 7.740	31.77
11	U29	COMA ROOM	4.000 x 7.740	30.96
12	U31.1	SEEPAGE ROOM 1	6.835 x 9.140	52.40*
13	U31.2	SEEPAGE ROOM 2	6.835 x 9.140	52.40*
14	U32	SEEWAGE ROOM	3.550 x 7.740	24.30*
15	U57.1	TUNNEL VENTILATION ROOM(TVS)1	14.800 x 9.140	133.70*
16	U57.2	TUNNEL VENTILATION ROOM(TVS)2	14.800 x 9.140	133.70*
17	PSB	PLATFORM SUPERVISOR BOOTH- 2 NOS	2.500 x 2.600	6.50
18	U62.1	SPARE ROOM	4.100 x 7.075	29.00
19	U62.2	SPARE ROOM	4.100 x 7.075	29.00
20	U62.3	SPARE ROOM	4.100 x 7.075	28.31*
21	U63	E & M STAFF ROOM	4.500 x 7.740	35.22
22	U64	E & M STORE ROOM	4.000 x 7.740	30.96
23	U65	L & E STAFF	4.100 x 7.075	29.00
24	U66	L & E STORE	4.100 x 7.075	29.00
25	U67	TRACTION STAFF	4.100 x 7.075	29.00
26	U68	KNOCK DOWN PANEL	4.100 x 7.075	29.00

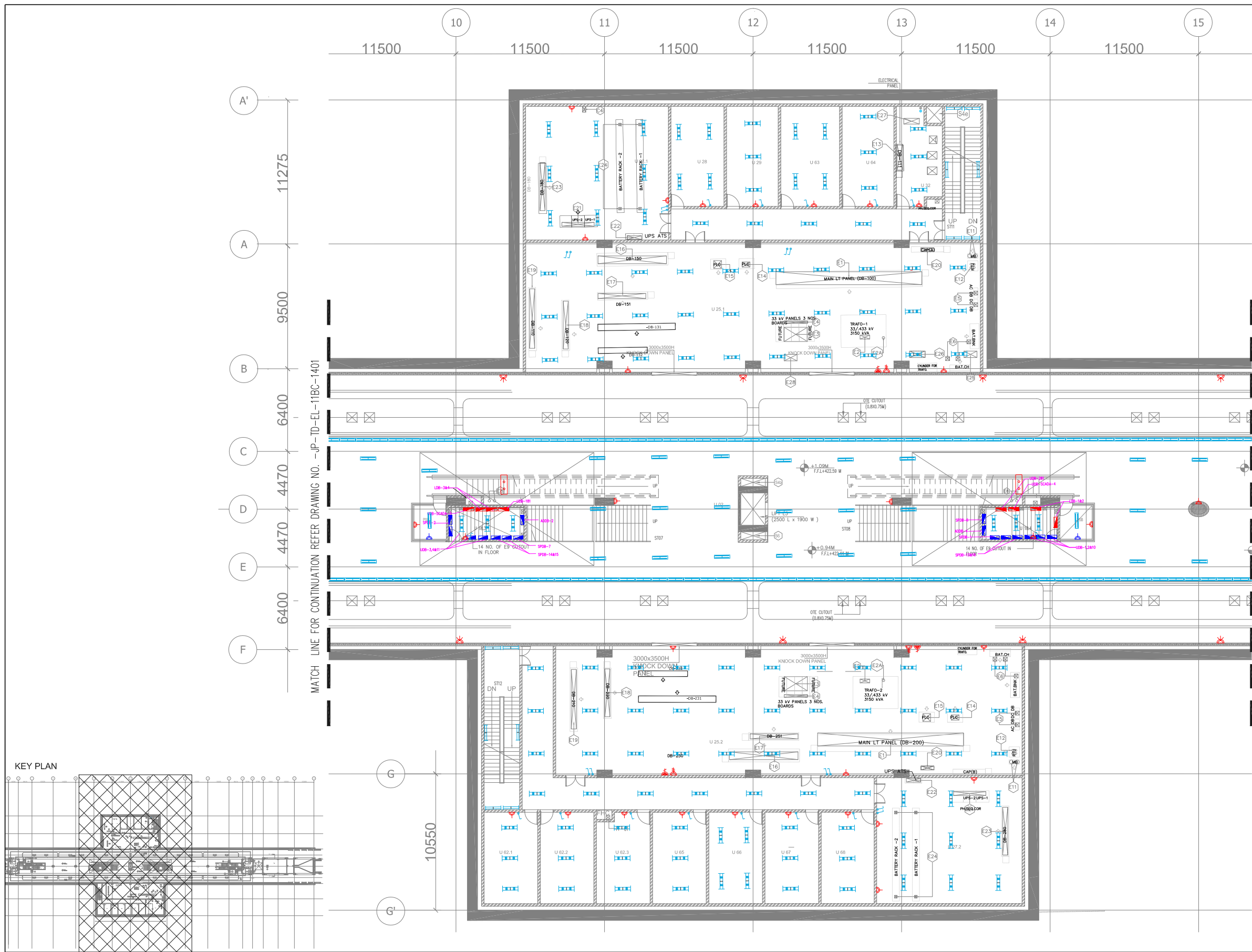
ELECTRICAL OUT OUT SCHEDULE				
OUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (Sq.M)	OUTOUT POSITION
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3	FLOOR
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225	FLOOR
E2A	TRAF-01 FOR CONTROL CABLE	0.20M Ø SLEEVE	-	FLOOR
E3	HT PANEL INCOMING	1.80 X 1.10	1.98	FLOOR
E4	HT PANEL CAM	1.80 X 0.20	0.36	FLOOR
E5	AC DC-DB	0.30 X 0.30	0.09	FLOOR
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09	FLOOR
E7	DB-150/DB-255	2.50X 0.50	1.25	FLOOR
E8	ESCALATOR CONTROL PANEL	0.20M Ø SLEEVE (8 Nos)	-	FLOOR
E9	DISTRIBUTION BOARD 12nos.	0.30 X 0.20	0.60	FLOOR
ES10	TVS CABLE TRAY	3.00 X 1.00	3.00	FLOOR
E11	RTU	0.30 M Ø SLEEVE (2 Nos)	-	FLOOR
E12	MARSHALING BOX	0.15M Ø SLEEVE (4 Nos)	-	FLOOR
E13	DB-111/DB-211	1.90 X 0.30	0.88	FLOOR
E14	PLC PANEL	0.60 X 0.40	0.24	FLOOR
E15	PLC PANEL	0.60 X 0.60	0.36	FLOOR
E16	DB-150/DB-250	5.30 X 0.60	3.18	FLOOR
E17	DB-151/DB-251	3.70 X 0.40	1.48	FLOOR
E18	DB-120/DB-220	3.70 X 0.40	1.48	FLOOR
E19	DB-110/DB-210	4.60 X 0.40	1.84	FLOOR
E20	CAPACITOR PANEL	1.00 X 0.30	0.30	FLOOR
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75	FLOOR
E22	UPS-1/5	1.10 X 0.30	0.33	FLOOR
E23	DB-180/280	3.70 X 0.40	1.48	FLOOR
E24	BATTERY BACK - 4NOS.	0.20 X 0.20	0.04	FLOOR
E25	ELECTRICAL SHAFT	1.00 X 0.50	0.09	FLOOR
E26	ELECTRICAL SHAFT	1.20 X 0.50	0.5	FLOOR
E27	BMS CONTROL PANEL	1.20 X 0.44	0.6	FLOOR
E28	ELECTRICAL SHAFT	1.00 X 0.50	0.528	FLOOR

LEGEND:-			DESCRIPTION
S.N.	LIGHT NAME	SYMBOL	
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 1X28 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. INOLUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TLD' 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 '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 TLD 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 ZUMTABEL 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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	REFERENCE DRAWINGS								Architecture Design In-charge/ Coordinator		Structure 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)					

PHASE 1B JAIPUR METRO PROJECT			
STATION: BADI CHOUPAR			
DRAWING TITLE: ELECTRICAL LAYOUT PLATFORM LEVEL			
DRAWN BY: SURJEET		CHECKED BY: H.O.B	
DATE: 31-03-2015		REV: R0	
GRAPHICAL SCALE: 1:150		STATUS: FOR TENDER	
DRAWING NUMBER: JP-TD-EL-11BC-1401		SHEET NO. 1 OF 3	
SHEET SIZE A1		ORDER N° P36-0017	
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JP/EW/1B/DDC01	ELECTRICAL
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ELECTRICAL CUT OUT SCHEDULE				
OUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (SqM)	CUTOUT POSITION
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3	FLOOR
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225	FLOOR
E2A	TRAF-01 FOR CONTROL CABLE	0.20M X SLEEVE		FLOOR
E3	HT PANEL INCOMING	1.80 X 1.10	1.98	FLOOR
E4	HT PANEL COMING	1.80 X 0.20	0.36	FLOOR
E5	AC DC-DB	0.30 X 0.30	0.09	FLOOR
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09	FLOOR
E7	DB-155/DB-255	2.50X 0.50	1.25	FLOOR
E8	ESCALATOR CONTROL PANEL	0.20M X SLEEVE (8 Nos)	-	FLOOR
E9	DISTRIBUTION BOARD 12nos.	0.30 X 0.20	0.60	FLOOR
E10	TVS CABLE TRAY	3.00 X 1.00	3.00	FLOOR
E11	RTU	0.30 M X SLEEVE (2 Nos)	-	FLOOR
E12	MARSHALLING BOX	0.15M X SLEEVE (4 Nos)	-	FLOOR
E13	DB-111/DB-211	1.90 X 0.30	0.88	FLOOR
E14	PLC PANEL	0.60 X 0.40	0.24	FLOOR
E15	PLC PANEL	0.60 X 0.60	0.36	FLOOR
E16	DB-150/DB-250	5.30 X 0.60	3.18	FLOOR
E17	DB-150/DB-250	3.70 X 0.40	1.48	FLOOR
E18	DB-120/DB-220	3.70 X 0.40	1.48	FLOOR
E19	DB-110/DB-210	4.60 X 0.40	1.84	FLOOR
E20	CAPACITOR PANEL	1.00 X 0.30	0.30	FLOOR
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75	FLOOR
E22	UPS ATS	1.10 X 0.30	0.33	FLOOR
E23	DB-180/280	3.70 X 0.40	1.48	FLOOR
E24	BATTERY BACK - ANGS.	0.20 X 0.20	0.04	FLOOR
E25	ELECTRICAL SHAFT	1.00 X 0.50	0.09	FLOOR
E26	ELECTRICAL SHAFT	1.20 X 0.50	0.5	FLOOR
E27	BMS CONTROL PANEL	1.20 X 0.44	0.6	FLOOR
E28	ELECTRICAL SHAFT	1.00 X 0.50	0.528	FLOOR

ROOM SCHEDULE			
S.NO.	ROOM SCHEDULE	ROOM NAME	AREA (Sq.m.)
1	U02	PAID AREA	1332*
2	U08	FIRST AID SPACE	3.960 x 3.960
3	U13	REFUSE STORE 1	3.960 x 3.960
4	U18.3	DB ROOM	5.810 x 2.450
5	U18.4	DB ROOM	5.810 x 2.450
6	U25.1	AUXILIARY SUB STATION(ASST)	35.200 x 10.060
7	U25.2	AUXILIARY SUB STATION(ASST)	36.100 x 10.025
8	U27.1	ELECTRICAL UPS ROOM 1	11.050 x 10.340
9	U27.2	ELECTRICAL UPS ROOM 2	11.250 x 9.750
10	U28	CSM ROOM	4.105 x 7.740
11	U29	CSM ROOM	4.000 x 7.740
12	U31.1	SEWAGE ROOM 1	6.835 x 9.140
13	U31.2	SEWAGE ROOM 2	6.835 x 9.140
14	U32	SEWAGE ROOM	3.550 x 7.740
15	U57.1	TUNNEL VENTILATION ROOM(TVS1)	14.800 x 9.140
16	U57.2	TUNNEL VENTILATION ROOM(TVS2)	14.800 x 9.140
17	P38	PLATFORM SUPERVISOR BOOTH- 2 NO	2.500 x 2.600
18	U62.1	SPARE ROOM	4.100 x 7.075
19	U62.2	SPARE ROOM	4.100 x 7.075
20	U62.3	SPARE ROOM	4.100 x 7.075
21	U63	E & M STAFF ROOM	4.550 x 7.740
22	U64	E & M STAFF ROOM	4.000 x 7.740
23	U65	L & E STAFF	4.100 x 7.075
24	U66	L & E STAFF	4.100 x 7.075
25	U67	TRACTION STAFF	4.100 x 7.075
26	U68	TRACTION STAFF	4.100 x 7.075

LEGEND: -

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 T5 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 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' FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELEC MOUNTED LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. MFF 922 / 1 X 70W) WITH INTEGRAL GEAR, ELECTROCHEMICALLY BRIGHTENED AND ANODIZED HIGH PURITY ALUMINUM REFLECTOR OF ASYMMETRICAL TYPE.
5	H		BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TCW 450 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
6	I		RECESSED CIRCULAR DOWN LIGHT LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. FBH 145 / 218 OR KESELEC CATALOG NO. PHARMA 2X28 HF)
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 DL 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 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 ZUMOTEL MAKE FZ 2X28W HF) AND SUPPLIED WITH 2 NOS 28W TUBULAR FLUORESCENT LAMP (T5 LAMP).
12	P1		32A 3 PHASE 5PIN INDUSTRIAL SOCKET OUTLET(P65)
13	P2		16A 1 PHASE 3PIN INDUSTRIAL SOCKET OUTLET(P54)
14	P4		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
15	AD		ADVT. POINT
16	EM		6/16A 1 PHASE 6PIN MODULAR TYPE SOCKET OUTLET
17	-		DISTRIBUTION BOARD

KEY PLAN

- GENERAL NOTES:
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 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.
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 5. ALL DOOR/WINDOW CILL & LINTEL LEVELS ARE MEASURED FROM MAIN FLOOR FINISHED LEVELS.

REFERENCE DRAWINGS

Drg. No. Description

REVISIONS

APPROVAL BY DMRC

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

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: BADI 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-11BC-1402

SHEET NO.

2 OF 3

SHEET SIZE

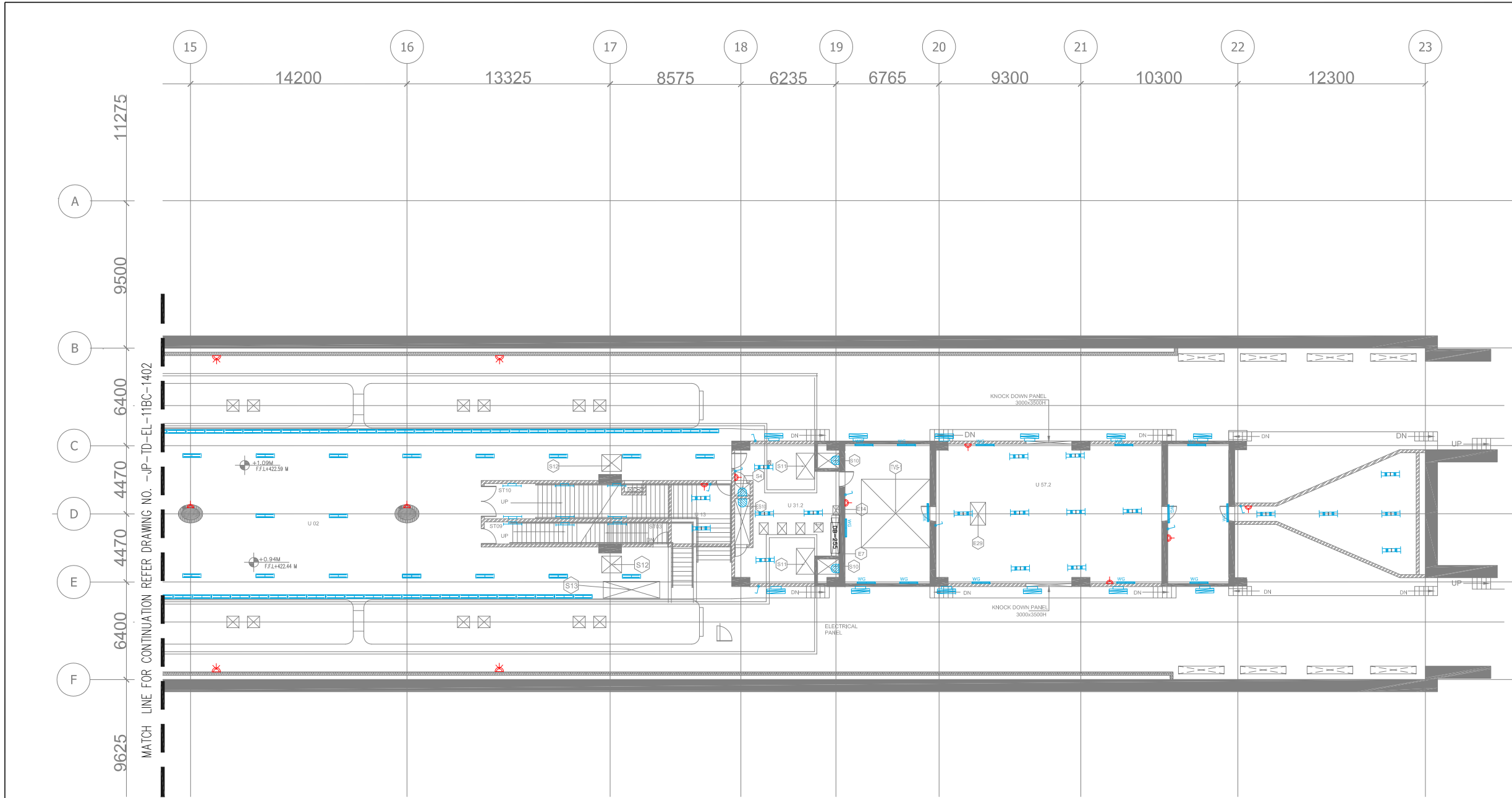
ORDER N°

A1

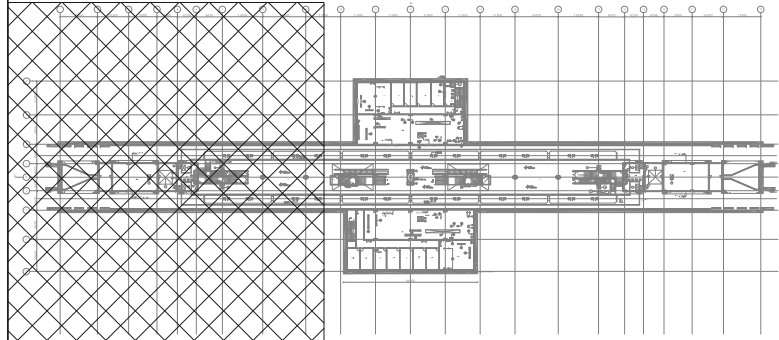
P36-0017

JP/EW/1B/DDC01

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KEY PLAN



ROOM SCHEDULE				
S.NO.	ROOM SCHEDULE	ROOM NAME	DIMENSION (M.) (LxW)	AREA (Sqm.)
1	U02	PAID AREA		1332*
2	U08	FIRST AID SPACE	3.960 x 3.960	15.68
3	U13	REFUSE STORE 1	3.960 x 3.960	15.68
4	U18.4	DB ROOM	5.810 x 2.450	14.23
5	U18.4	DB ROOM	5.810 x 2.450	14.23
6	U25.1	AUXILIARY SUB STATION(ASS)1	35.200 x 10.060	349.43*
7	U25.2	AUXILIARY SUB STATION(ASS)2	36.100 x 10.025	357.21*
8	U27.1	ELECTRICAL UPS ROOM 1	11.050 x 10.340	114.21
9	U27.2	ELECTRICAL UPS ROOM 2	11.250 x 9.750	109.68
10	U28	GSM ROOM	4.105 x 7.740	31.77
11	U29	COMA ROOM	4.000 x 7.740	30.96
12	U31.1	SEEPAGE ROOM 1	6.835 x 9.140	52.40*
13	U31.2	SEEPAGE ROOM 2	6.835 x 9.140	52.40*
14	U32	SEWAGE ROOM	3.550 x 7.740	24.30*
15	U57.1	TUNNEL VENTILATION ROOM(TVS)1	14.800 x 9.140	133.70*
16	U57.2	TUNNEL VENTILATION ROOM(TVS)2	14.800 x 9.140	133.70*
17	PSB	PLATFORM SUPERVISOR BOOTH- 2 NO	2.500 x 2.600	6.50
18	U62.1	SPARE ROOM	4.100 x 7.075	29.00
19	U62.2	SPARE ROOM	4.100 x 7.075	29.00
20	U62.3	SPARE ROOM	4.100 x 7.075	28.31*
21	U63	E & M STAFF ROOM	4.550 x 7.740	35.22
22	U64	E & M STORE ROOM	4.000 x 7.740	30.96
23	U65	L & E STAFF	4.100 x 7.075	29.00
24	U66	L & E STORE	4.100 x 7.075	29.00
25	U67	TRACTION STAFF	4.100 x 7.075	29.00
26	U68	WATER STAFF-STORE	4.100 x 7.075	29.00

ELECTRICAL OUT OUT SCHEDULE				
OUT OUT NUMBER	PURPOSE	SIZE (M)	AREA (Sq.M)	OUTOUT POSITION
E1	MAIN LT PANEL (DB-100/200)	1.00 X 11.3	11.3	FLOOR
E2	TRAF-01 FOR HT CABLE	0.75 X 0.30	0.225	FLOOR
E2A	TRAF-01 FOR CONTROL CABLE	0.20M Ø SLEEVE	-	FLOOR
E3	HT PANEL INCOMING	1.80 X 1.10	1.98	FLOOR
E4	HT PANEL CAM	1.80 X 0.20	0.36	FLOOR
E5	AC DC-DB	0.30 X 0.30	0.09	FLOOR
E6	BATTERY CHARGER & BATTERY BANK	0.30 X 0.30	0.09	FLOOR
E7	DB-150/DB-255	2.50X 0.50	1.25	FLOOR
E8	ESCALATOR CONTROL PANEL	0.20M Ø SLEEVE (8 Nos)	-	FLOOR
E9	DISTRIBUTION BOARD 12nos.	0.30 X 0.20	0.60	FLOOR
ES10	TVS CABLE TRAY	3.00 X 1.00	3.00	FLOOR
E11	RTU	0.30 M Ø SLEEVE (2 Nos)	-	FLOOR
E12	MARSHALING BOX	0.15M Ø SLEEVE (4 Nos)	-	FLOOR
E13	DB-111/DB-211	1.90 X 0.30	0.88	FLOOR
E14	PLC PANEL	0.60 X 0.40	0.24	FLOOR
E15	PLC PANEL	0.60 X 0.60	0.36	FLOOR
E16	DB-150/DB-250	5.30 X 0.60	3.18	FLOOR
E17	DB-151/DB-251	3.70 X 0.40	1.48	FLOOR
E18	DB-120/DB-220	3.70 X 0.40	1.48	FLOOR
E19	DB-110/DB-210	4.60 X 0.40	1.84	FLOOR
E20	CAPACITOR PANEL	1.00 X 0.30	0.30	FLOOR
E21	UPS-1 & UPS-2	2.50 X 0.30	0.75	FLOOR
E22	UPS-1/5	1.10 X 0.30	0.33	FLOOR
E23	DB-180/280	3.70 X 0.40	1.48	FLOOR
E24	BATTERY BACK - 4NOS.	0.20 X 0.20	0.04	FLOOR
E25	ELECTRICAL SHAFT	1.00 X 0.50	0.09	FLOOR
E26	ELECTRICAL SHAFT	1.20 X 0.50	0.5	FLOOR
E27	BMS CONTROL PANEL	1.20 X 0.44	0.6	FLOOR
E28	ELECTRICAL SHAFT	1.00 X 0.50	0.528	FLOOR

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 1X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 1X28 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. INDLUX 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. 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 '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 TLD 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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- 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	ISSUE 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		ED/IS&T	CSO
DY CSTE/SIGNALLING	CSTE-II	GM/O	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

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

Architect 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.

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

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

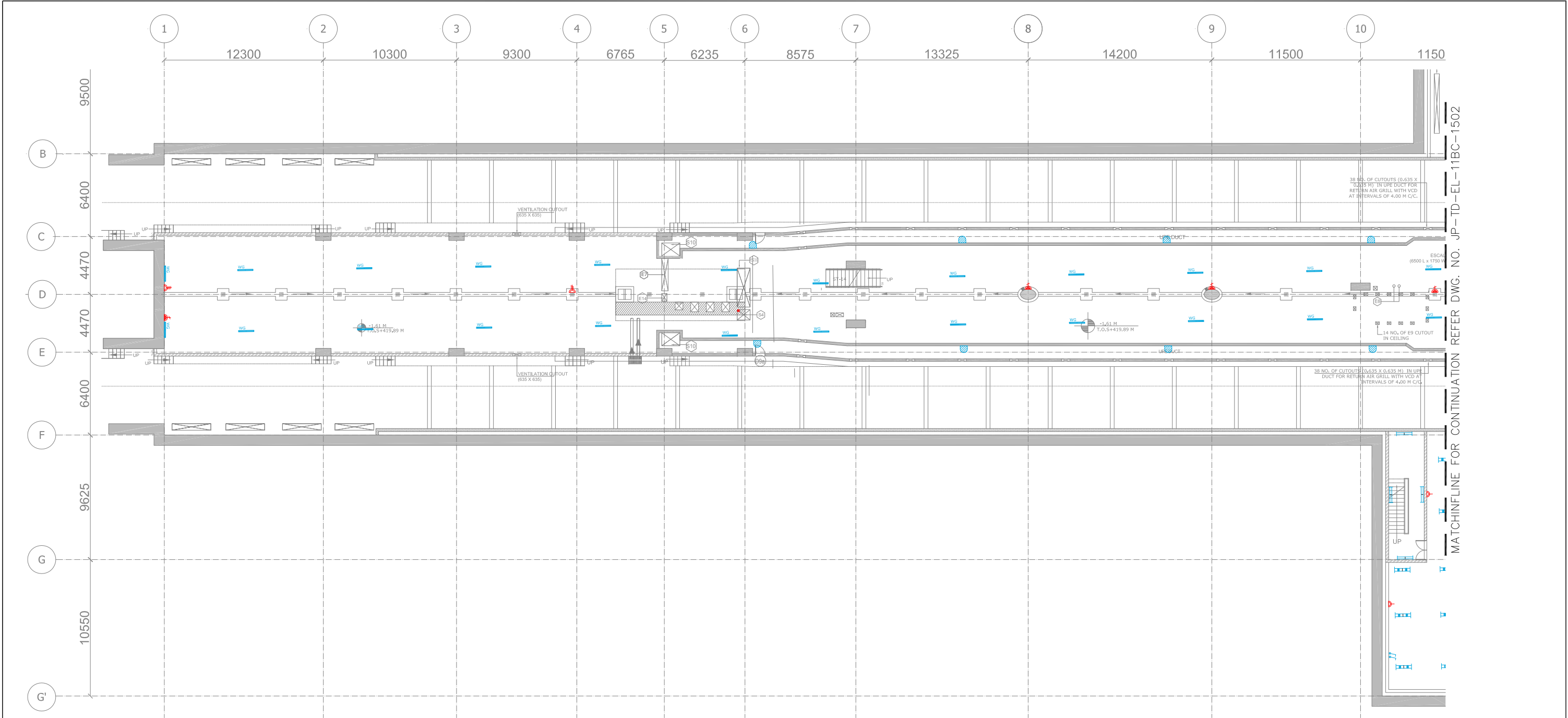
PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

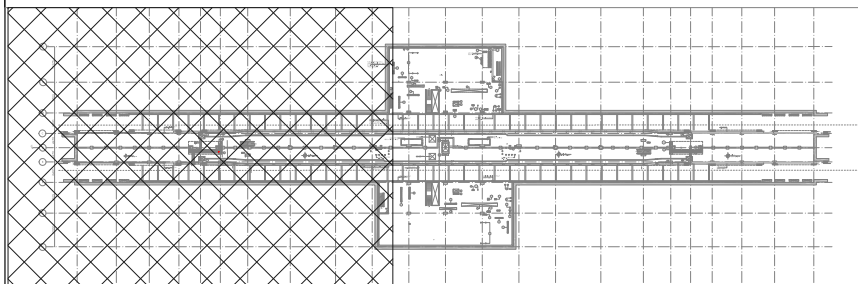
DRAWING TITLE: ELECTRICAL LAYOUT - PLATFORM LEVEL

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		ORDER N°
DRAWING NUMBER: JP-TD-EL-11BC-1403		SHEET NO. 3 OF 3
SHEET SIZE A1		ORDER N° P36-0017

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KEY PLAN



LEGEND:-

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINARIES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 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, 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 CATLUGUE. NO. TCW 450 /1X28 OR KESELEC CATLOG 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	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 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(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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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	ISSUE 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		ED/IS&T	CSO
DY CSTE/SIGNALLING	CSTE-II	GM/O	GMM
DY CE/PLANNING	DY CEE/E&M	DY CEE/ECS	ED/ELEC -II
DY CEE(E)UG-TR	CGME(E) UG-TR	PM	CPM

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Architecture
Design In-charge/ Coordinator

Structure
Design In-charge/ Coordinator

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

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



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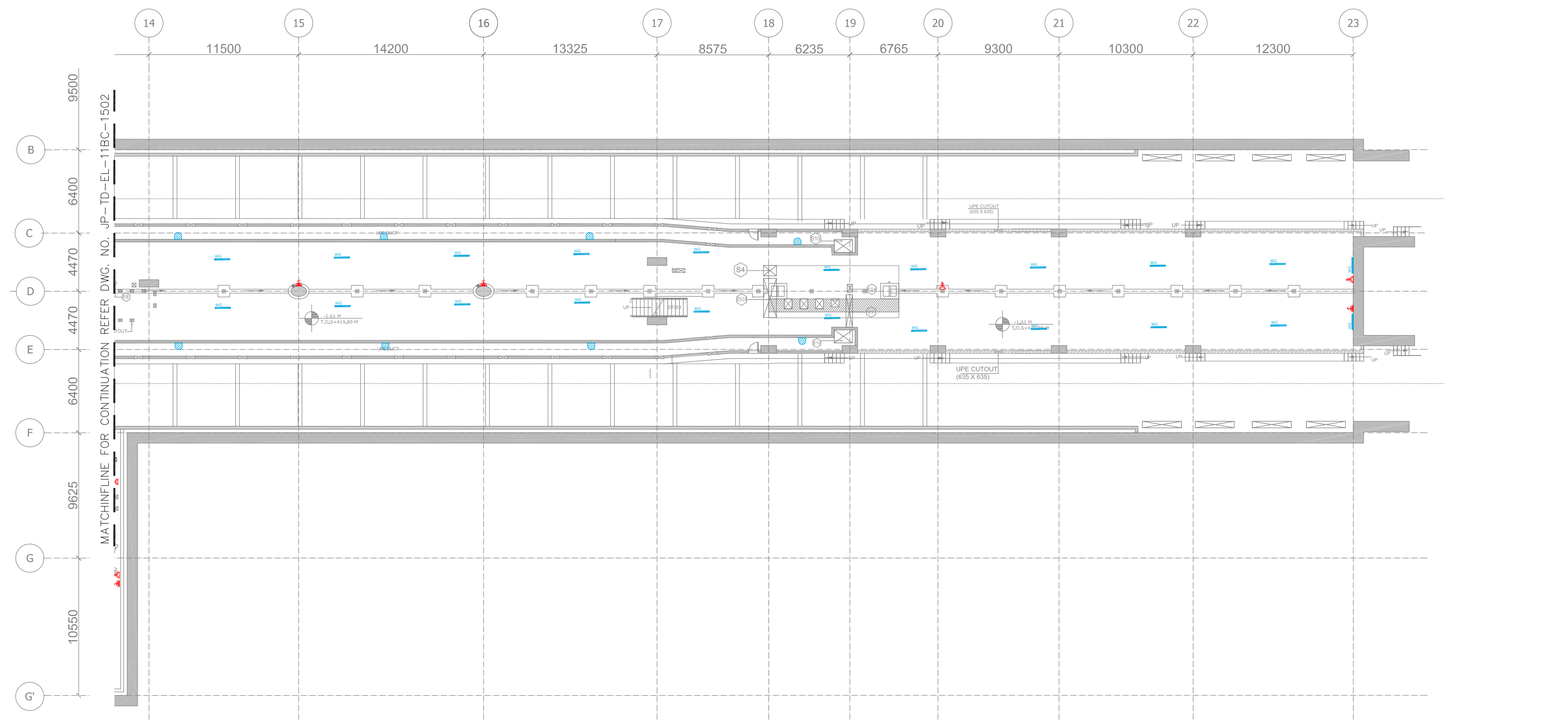
PHASE 1B JAIPUR METRO PROJECT

STATION: BADI CHOUPAR

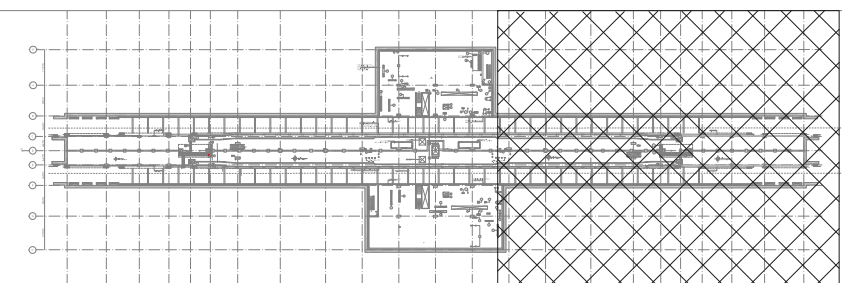
DRAWING TITLE: ELECTRICAL LAYOUT UNDERCROFT LEVEL

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-11BC-1501		SHEET NO. 1 OF 3	SHEET SIZE UNE A1	
		ORDER N° P36-0017		

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KEY PLAN



LEGEND:-

S.N.	LIGHT NAME	SYMBOL	DESCRIPTION
1	A		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 2X28 T5 OR KESELEC CATALOG NO. RAILUX 2X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
2	B		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMC 122 / 1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
3	C		BASIC BATTEN LUMINAIRES (SIMILAR TO PHILIPS CATALOGUE NO. TMS 122 / 2X28W OR KESELEC CATALOG NO. INDOLUX V 228 HF WITH VITREOUS ENAMELLED REFLECTOR) FOR 'TLD' FLUORESCENT LAMP (T5 LAMP)
4	E		EFFICIENT, LOW GLARE, SURELOC 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 CATLOGUE NO. TCW 450 /1X28 OR KESELEC CATALOG NO. RAILUX 1X28 HF) FOR 'TLD' 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. KBH 1X9 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 (P65)
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16	-		DISTRIBUTION BOARD

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Dwg. No.	Description

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

APPROVAL BY DMRC

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DY CSTE/AFC		ED/IS&T	CSO
DY CSTE/SIGNALLING	CSTE-II	GM/O	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

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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

ayesa

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

PHASE 1B JAIPUR METRO PROJECT

STATION: **BADI CHOUPAR**

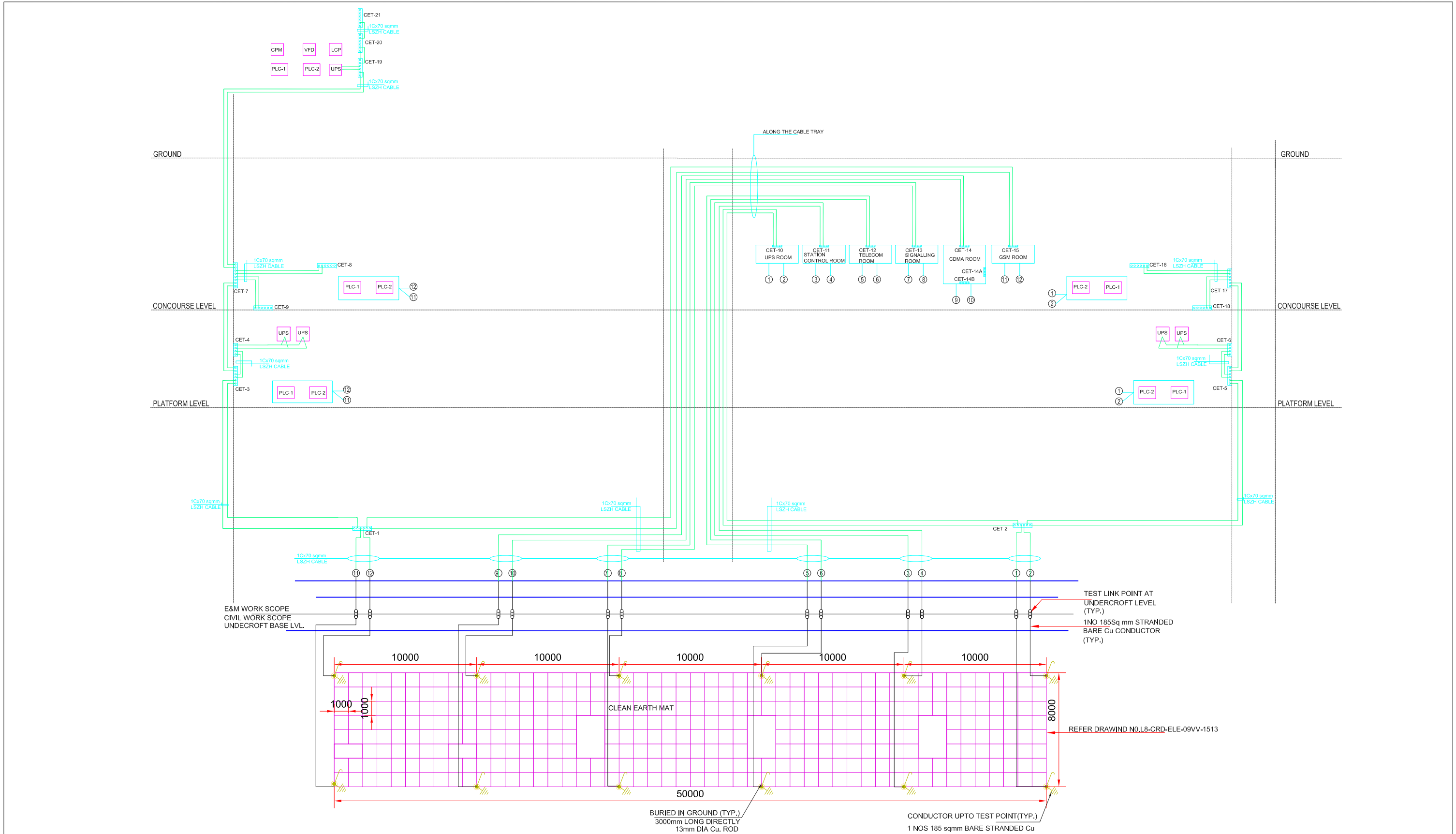
DRAWING TITLE: ELECTRICAL LAYOUT UNDERCROFT LEVEL

DRAWN BY: SURJEET	CHECKED BY: H.O.B	VERIFIED BY: LRS
DATE: 31-03-2015	REV: R0	GRAPHICAL SCALE: 1:150
DRAWING NUMBER: JP-TD-EL-11BC-1503	SHEET NO. 1 OF 3	SHEET SIZE UNE A1
		ORDER N° P36-0017

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