

Annexure – 4 of Addendum no. 1

Tender Drawings – E&M

- a) Tender Drawings – E&M, Building Management System
- b) Tender Drawings – E&M, Electrical
- c) Tender Drawings – E&M, Fire Alarm and Detection
- d) Tender Drawings – E&M, Fire Fighting System
- e) Tender Drawings – E&M, Ventilation and Air-conditioning System

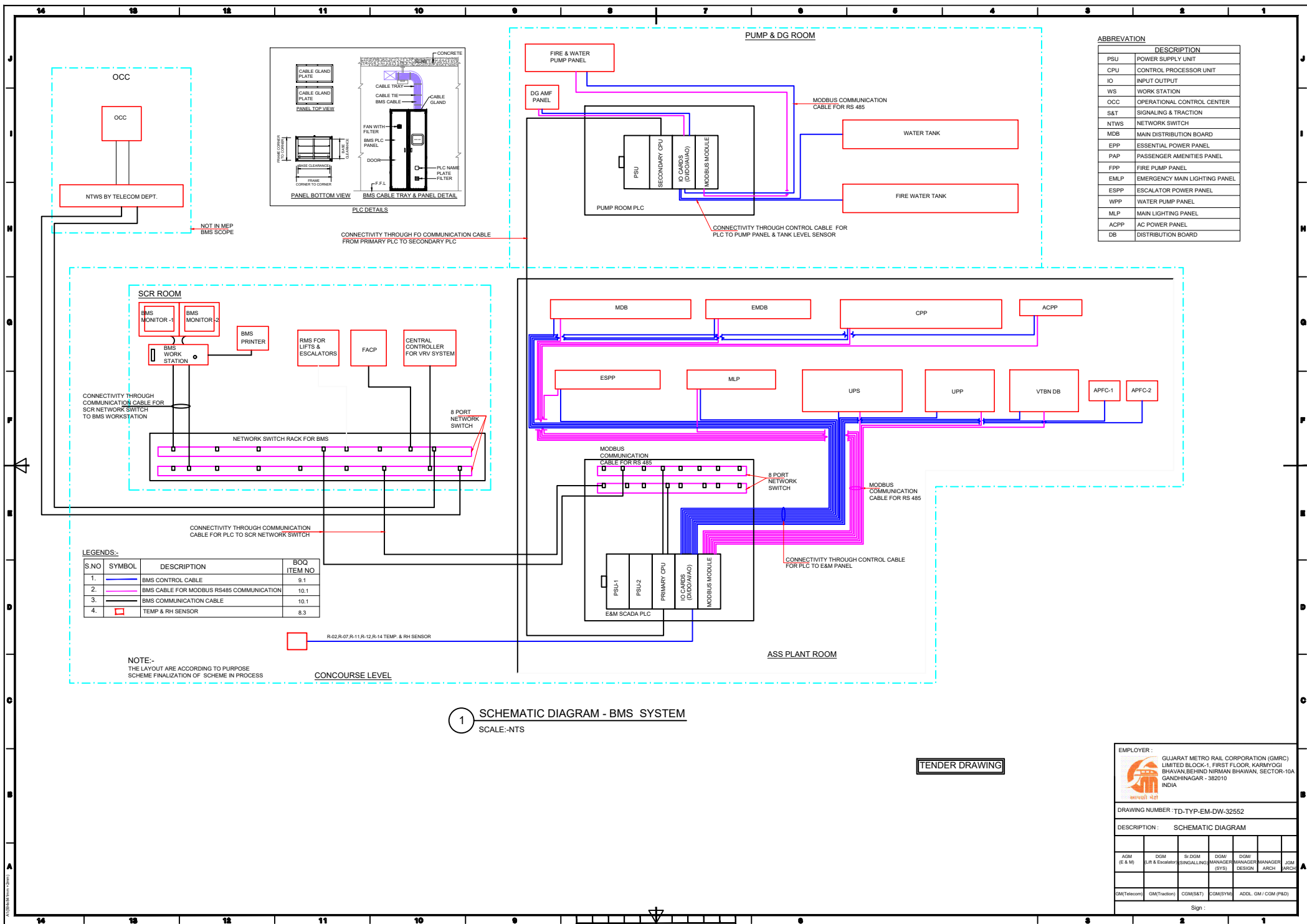
LIST OF DRAWING:-

SR. NO.	DRAWING NO.	DESCRIPTION	SERVICE	REVISION	SCALE
1	TD-TYP-EM-DW-32551	LIST OF DRAWINGS	BMS SYSTEM	A0	NTS
2	TD-TYP-EM-DW-32552	SCHEMATIC DIAGRAM	BMS SYSTEM	A0	NTS
3	TD-TYP-EM-DW-32554	GROUND LEVEL PLAN	BMS SYSTEM	A0	1:300@A1
4	TD-TYP-EM-DW-32556	CONCOURSE LEVEL PLAN	BMS SYSTEM	A0	1:200@A1
5	TD-TYP-EM-DW-32558	PLATFORM LEVEL PLAN	BMS SYSTEM	A0	1:200@A1
6	TD-TYP-EM-DW-32560	WATER TANKS & PUMP ROOM LAYOUT	BMS SYSTEM	A0	1:50@A1

1 LIST OF DRAWING BMS SYSTEM
SCALE:-NTS

TENDER DRAWING

EMPLOYER :  GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED BLOCK-1, FIRST FLOOR, KARMYOGI BHAVAN, BEHIND NIRMAL BHAVAN, SECTOR-10A, GANDHINAGAR - 382010 INDIA ગુજરાત મેટ્રો રેલ કોર્પોરેશન									
DRAWING NUMBER : TD-TYP-EM-DW-32551									
DESCRIPTION LIST OF DRAWINGS									
AGM (E & M)	DGM (E & Excavary)	Sr DGM (SIGNALLING)	DGM/ (SYS)	DGM/ (SYS)	DGM/ (SYS)	MANAGER/ ARCHT	MANAGER/ ARCHT	MANAGER/ ARCHT	MANAGER/ ARCHT
GM(Telecom)	GM(Traction)	CGM(S&T)	CGM(S&T)	CGM(S&T)	CGM(S&T)	CGM(S&T)	CGM(S&T)	CGM(S&T)	CGM(S&T)
Sign :									



TENDER DRAWING

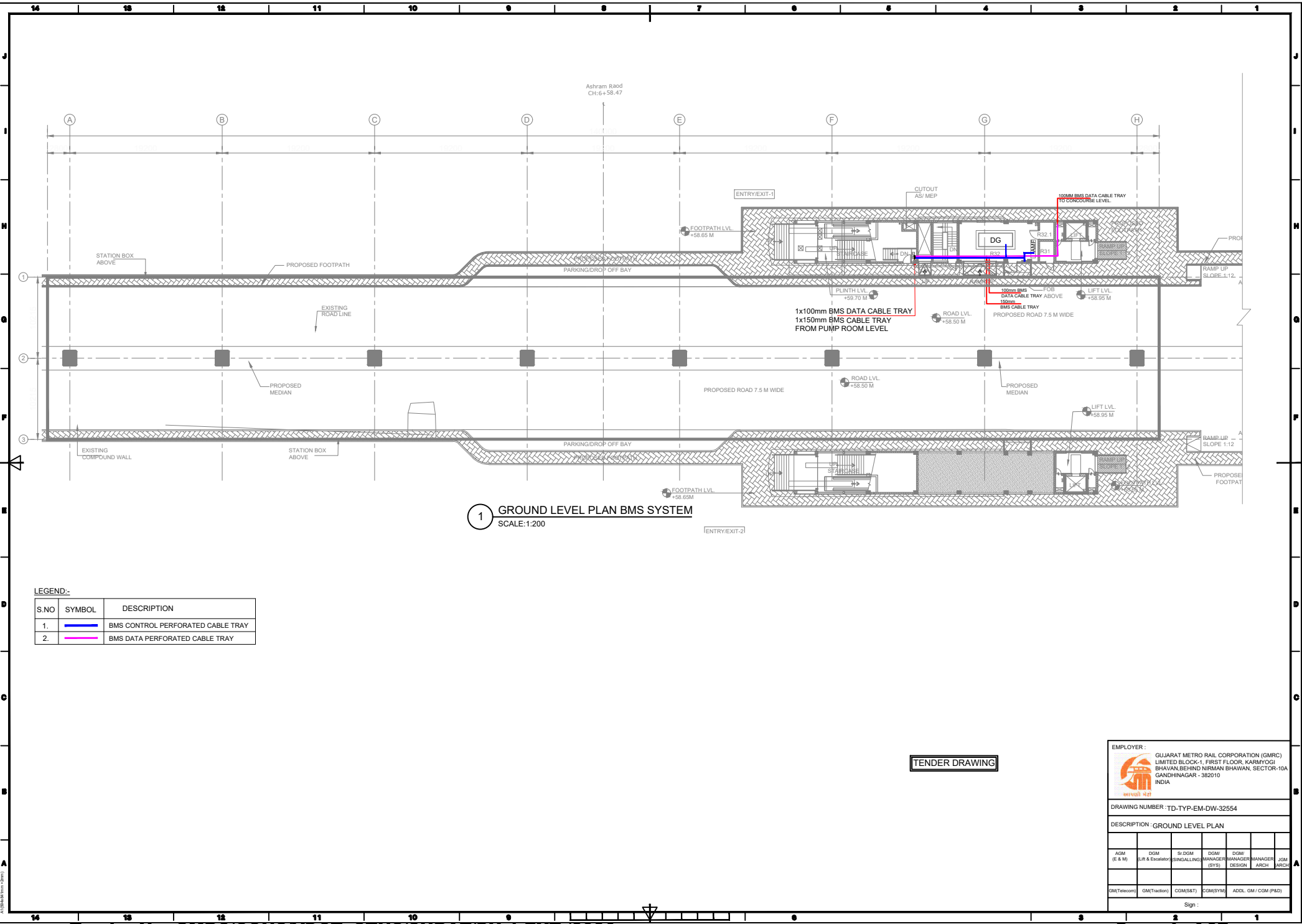
EMPLOYER :
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

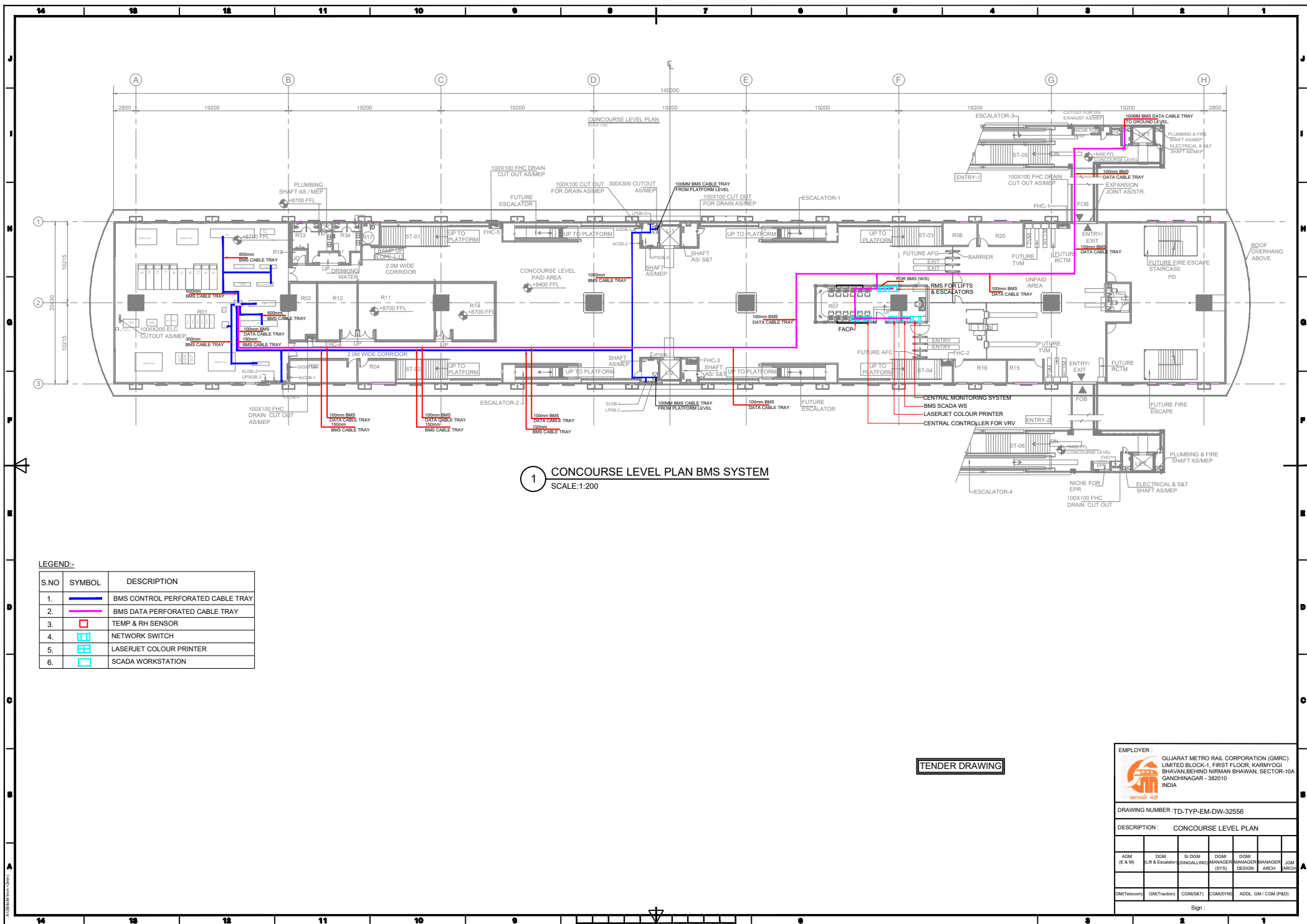
DRAWING NUMBER : TD-TYP-EM-DW-32552

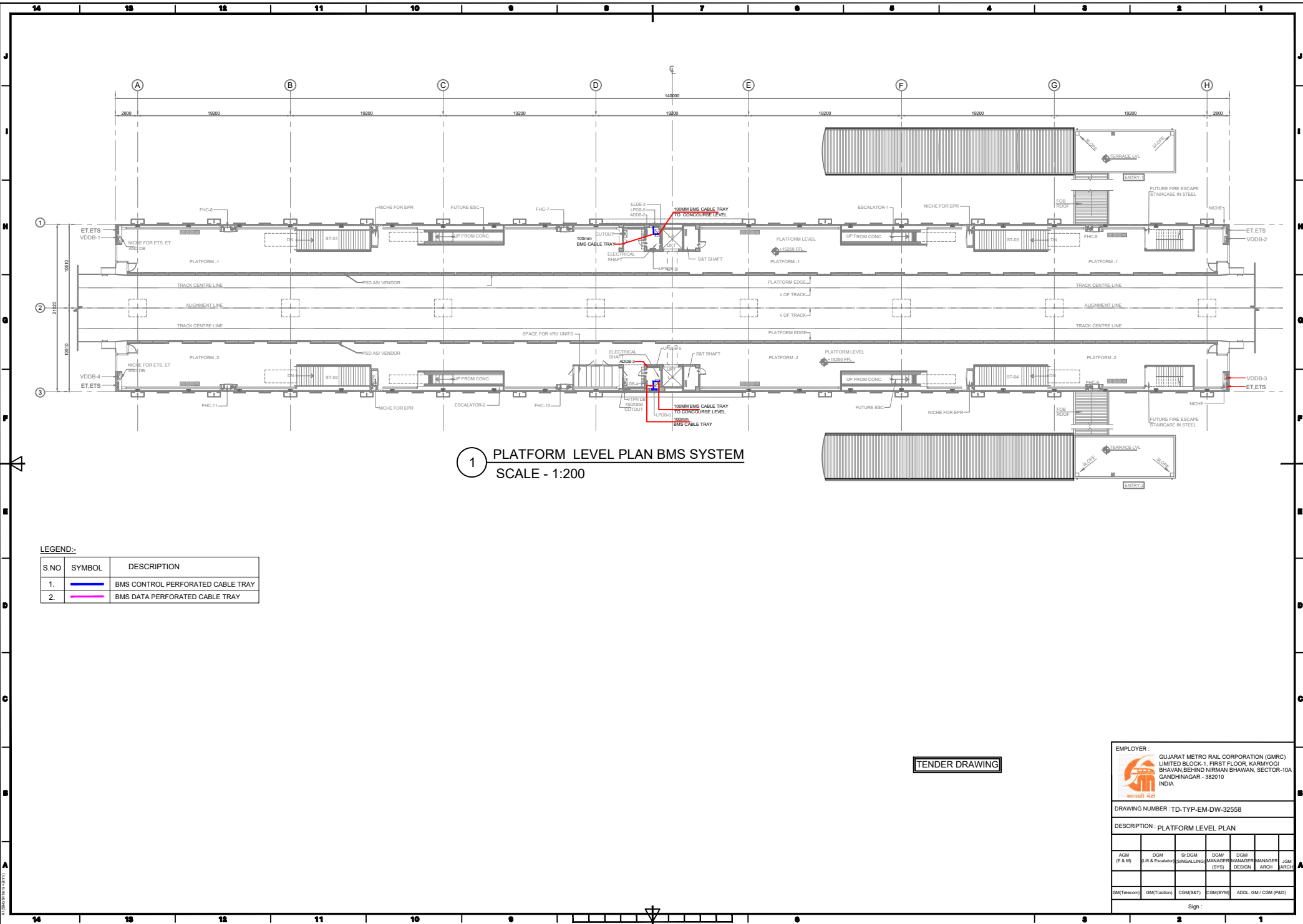
DESCRIPTION : SCHEMATIC DIAGRAM

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM (MANAGER)	DGM (MANAGER)	DGM (MANAGER)	JGM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADDL GM / CDM (P&D)		

Sign :







1 PLATFORM LEVEL PLAN BMS SYSTEM
SCALE - 1:200

LEGEND:-

S.NO	SYMBOL	DESCRIPTION
1.		BMS CONTROL PERFORATED CABLE TRAY
2.		BMS DATA PERFORATED CABLE TRAY

TENDER DRAWING

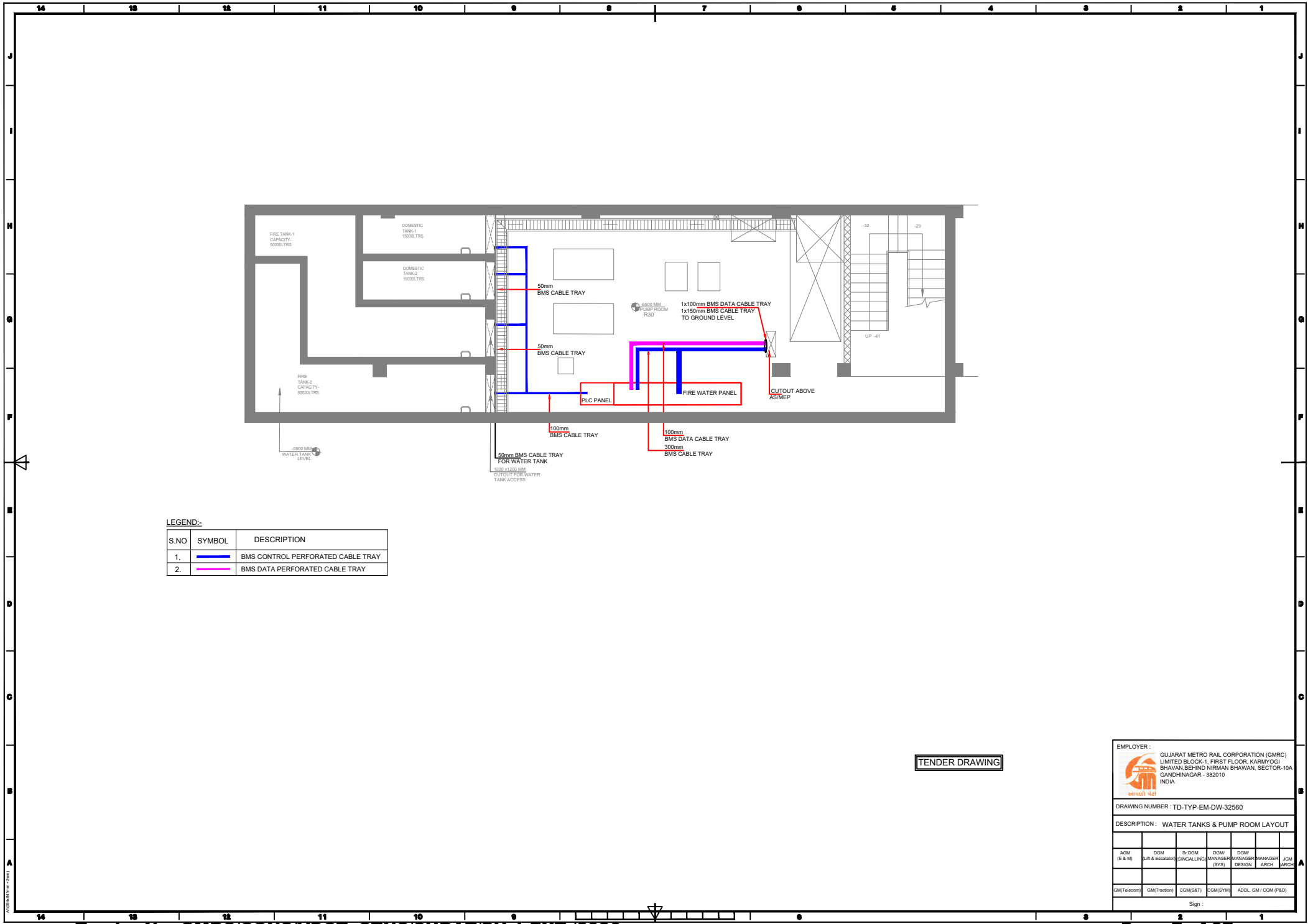
EMPLOYER : GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAN BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32558

DESCRIPTION : PLATFORM LEVEL PLAN

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM (MANAGER)	DGM (MANAGER)	DGM (MANAGER)	JGM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADDL GM / GDM (P&D)		

Sign :



TENDER DRAWING

EMPLOYER :

GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32560

DESCRIPTION : WATER TANKS & PUMP ROOM LAYOUT

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM SINGALLING	DGM/ MANAGER (SYS)	DGM/ MANAGER DESIGN	DGM/ MANAGER ARCH	JGM ARCH
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADDL GM / CGM (P&D)		

Sign :

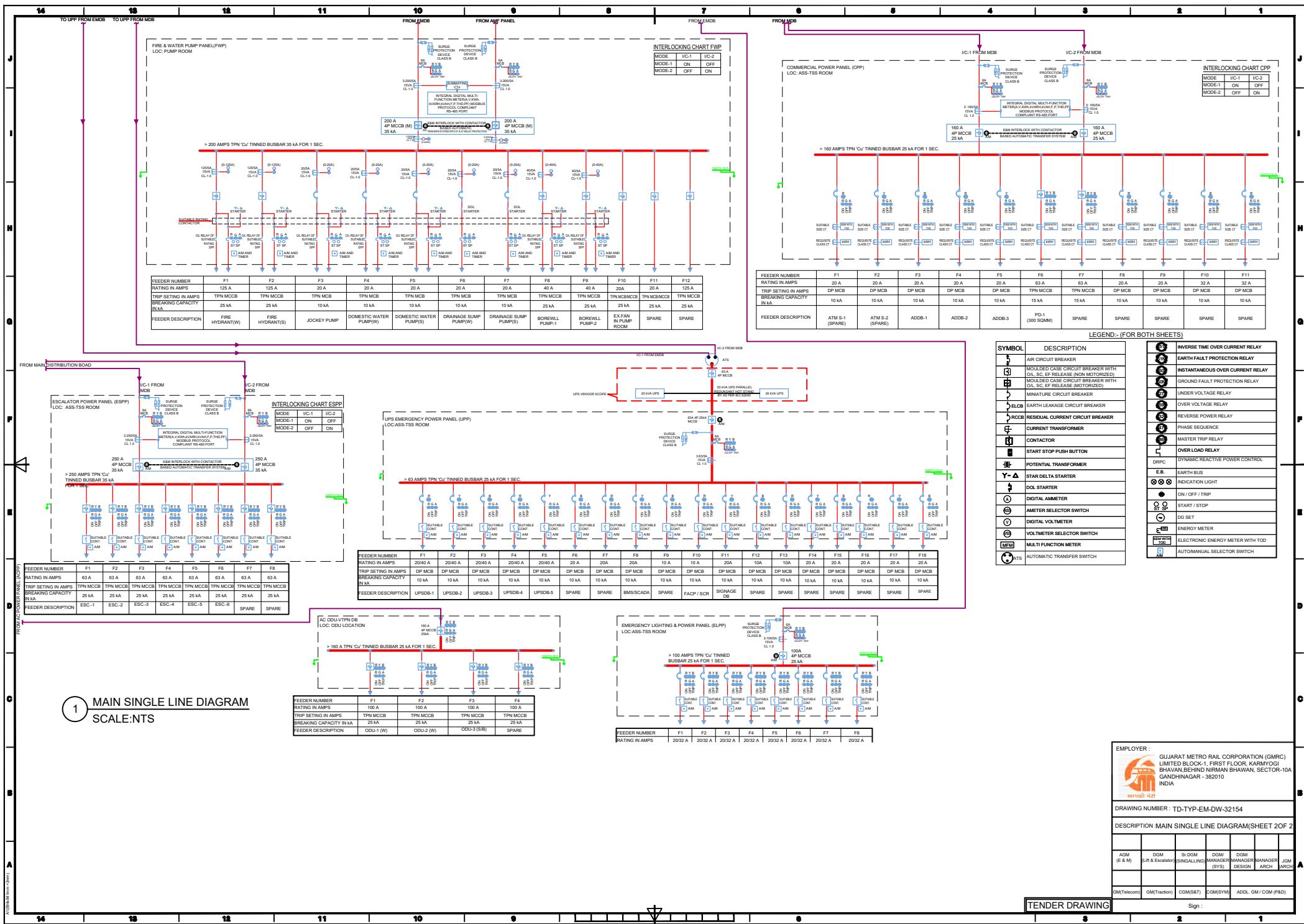
LIST OF DRAWINGS:

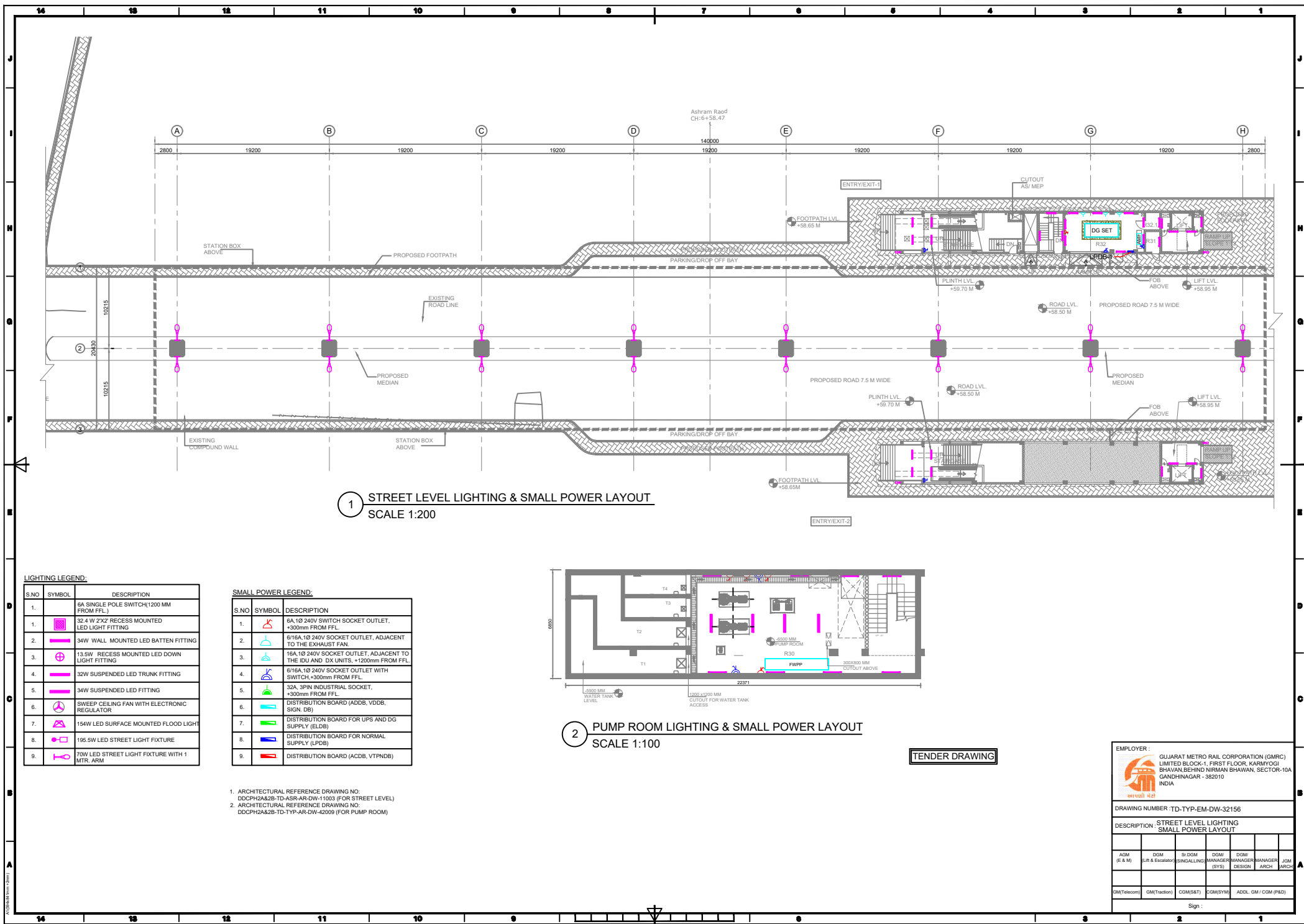
SR NO.	DRAWING NO.	DESCRIPTION	SERVICE	REVISION	SCALE
1	TD-TYP-EM-DW-32150	DRAWING LIST	ELECTRICAL SYSTEM	A0	N.T.S.
2	TD-TYP-EM-DW-32152	MAIN SINGLE LINE DIAGRAM(SHEET 1 OF 2)	ELECTRICAL SYSTEM	A0	N.T.S.
3	TD-TYP-EM-DW-32154	MAIN SINGLE LINE DIAGRAM(SHEET 2 OF 2)	ELECTRICAL SYSTEM	A0	N.T.S.
4	TD-TYP-EM-DW-32156	STREET LEVEL LIGHTING & SMALL POWER LAYOUT	ELECTRICAL SYSTEM	A0	1:200
5	TD-TYP-EM-DW-32158	CONCOURSE LEVEL LIGHTING & SMALL POWER LAYOUT	ELECTRICAL SYSTEM	A0	1:200
6	TD-TYP-EM-DW-32160	PLATFORM LEVEL LIGHTING & SMALL POWER LAYOUT	ELECTRICAL SYSTEM	A0	1:200
7	TD-TYP-EM-DW-32162	STREET LEVEL/ PUMP ROOM CABLE TRAY & EARTHING LAYOUT	ELECTRICAL SYSTEM	A0	1:200
8	TD-TYP-EM-DW-32164	CONCOURSE LEVEL CABLE TRAY & EARTHING LAYOUT	ELECTRICAL SYSTEM	A0	1:200
9	TD-TYP-EM-DW-32166	PLATFORM LEVEL CABLE TRAY & EARTHING LAYOUT	ELECTRICAL SYSTEM	A0	1:200
10	TD-TYP-EM-DW-32168	ASS/TSS ROOM EQUIPMENT LAYOUT	ELECTRICAL SYSTEM	A0	1:50
11	TD-TYP-EM-DW-32170	EARTHING SCHEMATIC LAYOUT	ELECTRICAL SYSTEM	A0	N.T.S.

1 DRAWING LIST
SCALE:N.T.S

TENDER DRAWING

EMPLOYER :  GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A GANDHINAGAR - 382010 INDIA ગુજરાત મેટ્રો રેલ					
DRAWING NUMBER : TD-TYP-EM-DW-32150					
DESCRIPTION : DRAWING LIST					
AGM EAM	DGM (L/R & Escalator)	Sr DGM SIGNALLING	DGM/ SYSTEM	DGM/ DESIGN	DGM/ ARCH
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYMS)	ADOL GM / GCM (P&ID)	
Sign : _____					



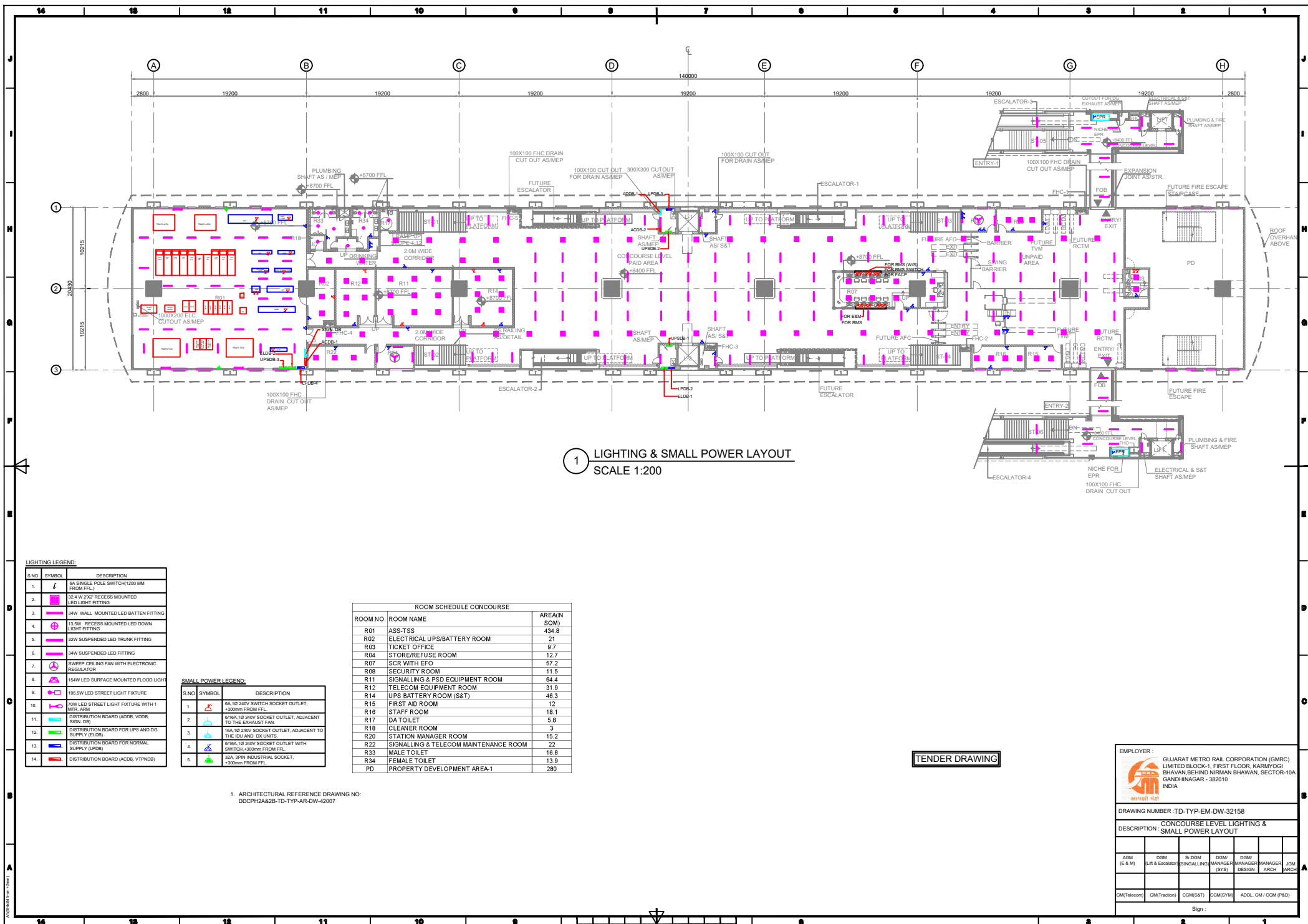


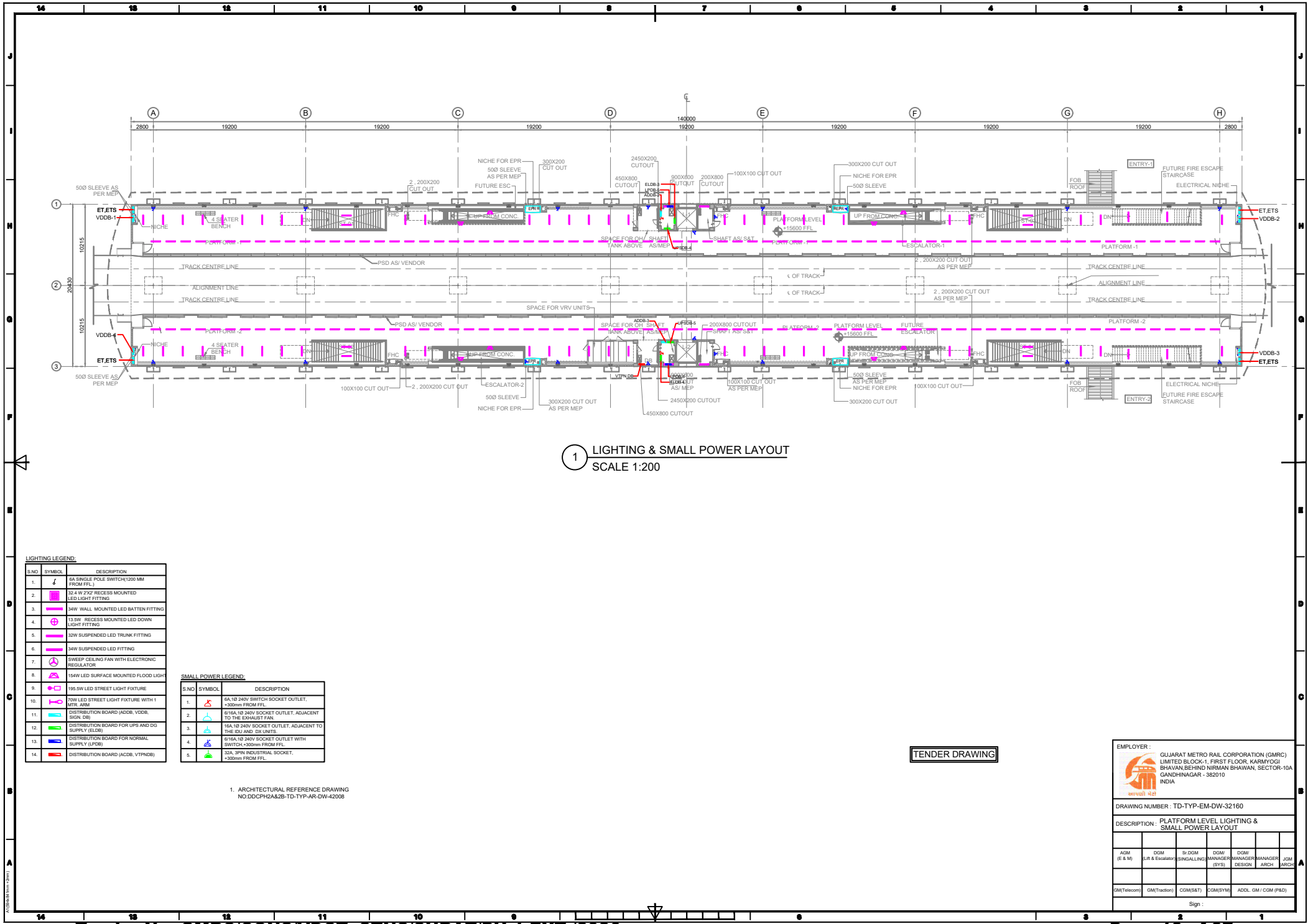
1 STREET LEVEL LIGHTING & SMALL POWER LAYOUT
SCALE 1:200

2 PUMP ROOM LIGHTING & SMALL POWER LAYOUT
SCALE 1:100

TENDER DRAWING

EMPLOYER :		GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI BHAVAN, BEHIND NIRMAL BHAVAN, SECTOR-10A GANDHINAGAR - 382010 INDIA			
DRAWING NUMBER :		TD-TYP-EM-DW-32156			
DESCRIPTION :		STREET LEVEL LIGHTING SMALL POWER LAYOUT			
ACM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALLING)	DGM (MANAGER)	DGM (MANAGER)	JCM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADDL GM / CDM (P&D)	
Sign :					





1 LIGHTING & SMALL POWER LAYOUT
SCALE 1:200

S.NO	SYMBOL	DESCRIPTION
1.		6A SINGLE POLE SWITCH (200 MM FROM FFL)
2.		32.4 W 2x2F RECESS MOUNTED LED LIGHT FITTING
3.		36W WALL MOUNTED LED BATTEN FITTING
4.		13.5W RECESS MOUNTED LED DOWN LIGHT FITTING
5.		30W SUSPENDED LED TRUNK FITTING
6.		36W SUSPENDED LED FITTING
7.		5W LED CEILING FAN WITH ELECTRONIC REGULATOR
8.		15W LED SURFACE MOUNTED FLOOD LIGHT
9.		100 W LED STREET LIGHT FIXTURE
10.		10W LED STREET LIGHT FIXTURE WITH 1 MTR. ARM
11.		DISTRIBUTION BOARD (ACDB, VDOB, SDO, DB)
12.		DISTRIBUTION BOARD FOR UPS AND DG SUPPLY (ELDB)
13.		DISTRIBUTION BOARD FOR NORMAL SUPPLY (LPDB)
14.		DISTRIBUTION BOARD (ACDB, VTPNDB)

S.NO	SYMBOL	DESCRIPTION
1.		5A 10 240V SWITCH SOCKET OUTLET, >300mm FROM FFL
2.		6/16A 10 240V SOCKET OUTLET, ADJACENT TO THE EXHAUST FAN
3.		16A 10 240V SOCKET OUTLET, ADJACENT TO THE EDU AND DX UNITS
4.		6/16A 10 240V SOCKET OUTLET WITH SWITCH, >300mm FROM FFL
5.		32A 3PN INDUSTRIAL SOCKET, >300mm FROM FFL

1. ARCHITECTURAL REFERENCE DRAWING
NO:DDCPH2A&2B-TD-TYP-AR-DW-42008

TENDER DRAWING

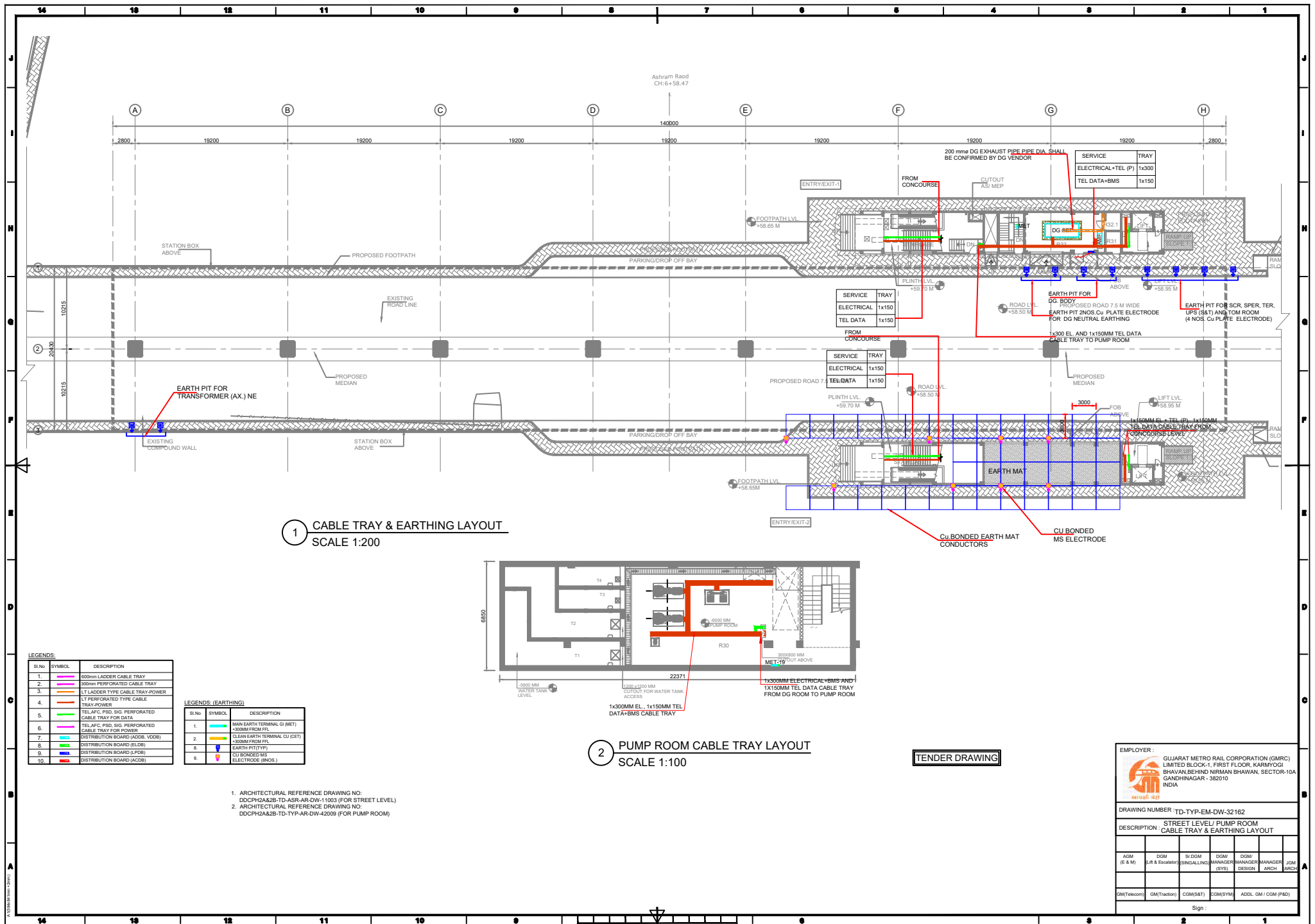
EMPLOYER :
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMYOGI
BHAVAN, BEHIND NIRMAN BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32160

DESCRIPTION : PLATFORM LEVEL LIGHTING & SMALL POWER LAYOUT

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM (MANAGER)	DGM (MANAGER)	DGM (MANAGER)	JCM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(S&M)	ADOL GM / GDM (P&D)		

Sign :



TENDER DRAWING

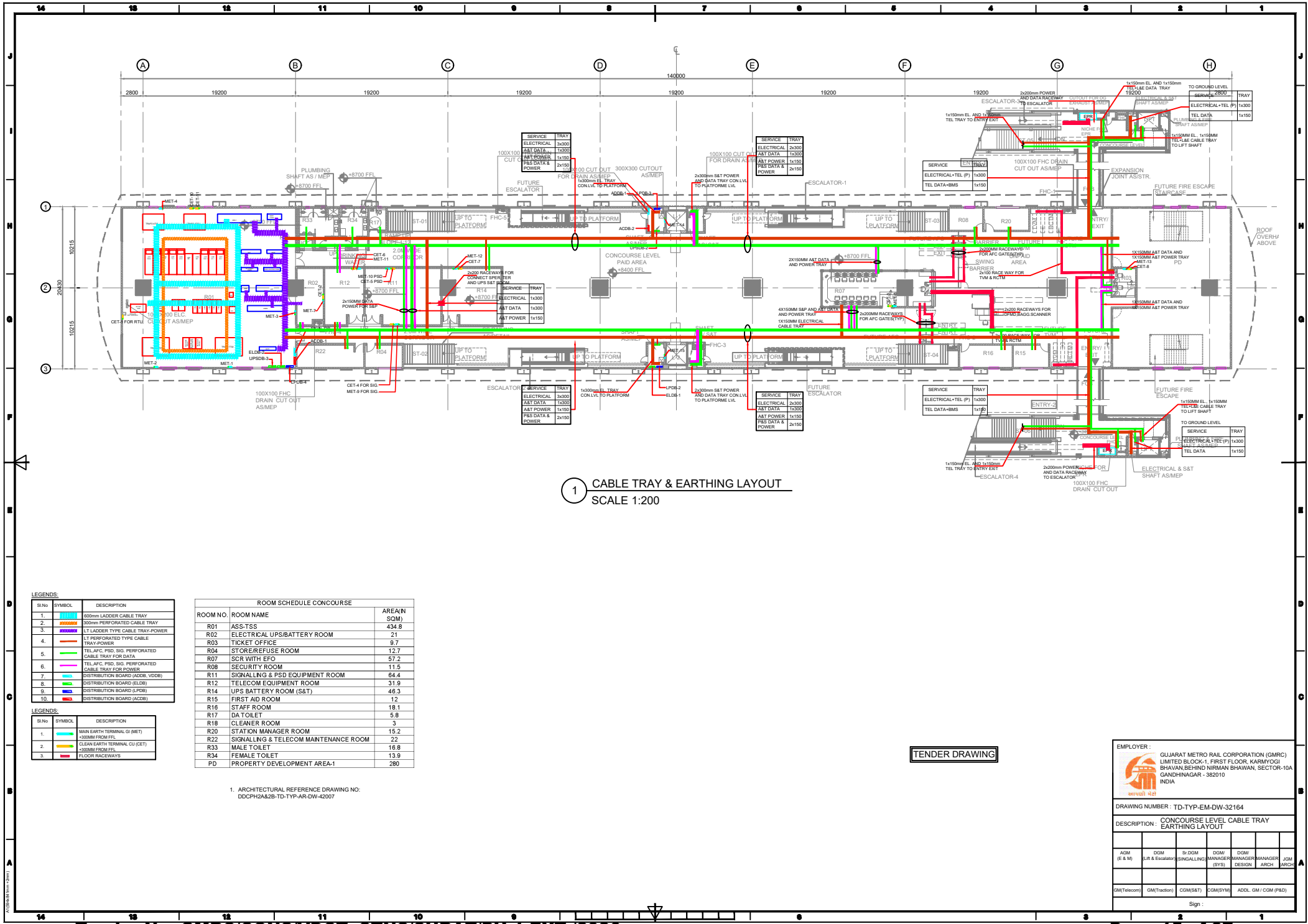
EMPLOYER : GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED BLOCK-1, FIRST FLOOR, KARMYOGI BHAVAN BEHIND NIRMAN BHAWAN, SECTOR-10A GANDHINAGAR - 382010 INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32162

DESCRIPTION : STREET LEVEL/ PUMP ROOM CABLE TRAY & EARTHING LAYOUT

AGM (E & M)	DDM (E & M)	SI DGM (E & M)	DDM (E & M)	DDM (E & M)	DDM (E & M)
DDM (E & M)	DDM (E & M)	DDM (E & M)	DDM (E & M)	DDM (E & M)	DDM (E & M)

Sign : _____



1 CABLE TRAY & EARTHING LAYOUT
SCALE 1:200

LEGENDS	
S.No	DESCRIPTION
1.	100mm LADDER CABLE TRAY
2.	200mm PERFORATED CABLE TRAY
3.	LT LADDER TYPE CABLE TRAY-POWER
4.	LT PERFORATED TYPE CABLE TRAY-POWER
5.	TEL AFC, PSD, SIG. PERFORATED CABLE TRAY FOR DATA
6.	TEL AFC, PSD, SIG. PERFORATED CABLE TRAY FOR POWER
7.	DISTRIBUTION BOARD (ADDB, VDDDB)
8.	DISTRIBUTION BOARD (ELDB)
9.	DISTRIBUTION BOARD (LPDB)
10.	DISTRIBUTION BOARD (JACDB)

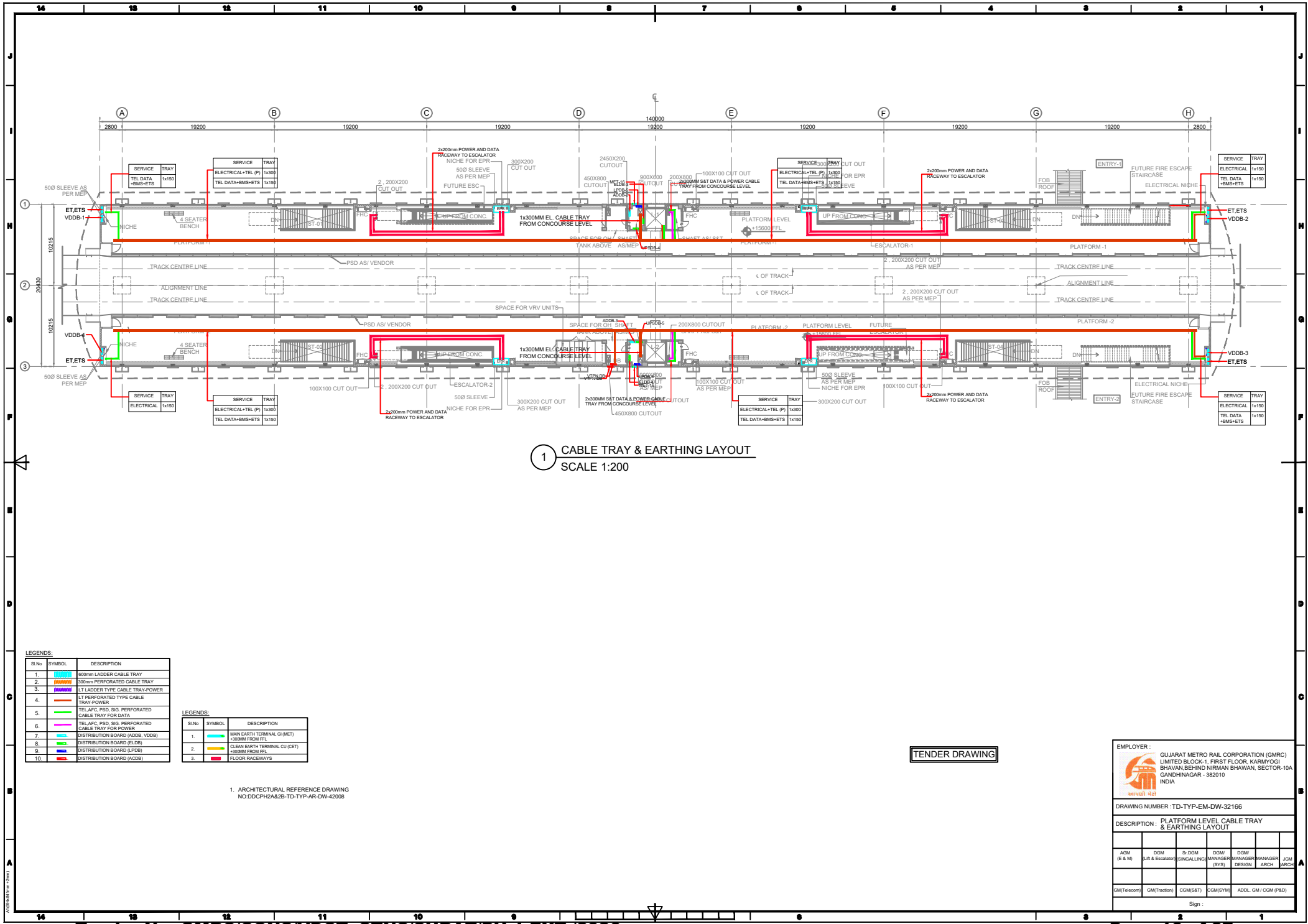
LEGENDS	
S.No	DESCRIPTION
1.	MAIN EARTH TERMINAL GI (MET) >300MM FROM FFL
2.	CLEAN EARTH TERMINAL CU (CET) >300MM FROM FFL
3.	FLOOR RACEWAYS

ROOM SCHEDULE CONCOURSE		
ROOM NO	ROOM NAME	AREA (SQM)
R01	ASS-TSS	434.8
R02	ELECTRICAL UPS/BATTERY ROOM	21
R03	TICKET OFFICE	9.7
R04	STOREREFUSE ROOM	12.7
R07	SCR WITH EFO	57.2
R08	SECURITY ROOM	11.5
R11	SIGNALING & PSD EQUIPMENT ROOM	64.4
R12	TELECOM EQUIPMENT ROOM	31.9
R14	UPS BATTERY ROOM (S&T)	48.3
R15	FIRST AID ROOM	12
R16	STAFF ROOM	18.1
R17	DATATOILET	5.8
R18	CLEANER ROOM	3
R20	STATION MANAGER ROOM	15.2
R22	SIGNALING & TELECOM MAINTENANCE ROOM	2.2
R33	MALE TOILET	16.8
R34	FEMALE TOILET	13.9
PD	PROPERTY DEVELOPMENT AREA-1	280

1. ARCHITECTURAL REFERENCE DRAWING NO:
DDCPH2A&2B-TD-TYP-AR-DW-42057

TENDER DRAWING

EMPLOYER :		GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI BHAVAN BEHIND NIRMAL BHAVAN, SECTOR-10A GANDHINAGAR - 382010 INDIA			
DRAWING NUMBER :		TD-TYP-EM-DW-32164			
DESCRIPTION :		CONCOURSE LEVEL CABLE TRAY EARTHING LAYOUT			
ACM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM (MANAGER)	DGM (MANAGER)	JCM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADCL GM / GCM (P&D)	
Sign :					



1 CABLE TRAY & EARTHING LAYOUT
SCALE 1:200

Sl No	SYMBOL	DESCRIPTION
1.		600mm LADDER CABLE TRAY
2.		300mm PERFORATED CABLE TRAY
3.		LT LADDER TYPE CABLE TRAY POWER
4.		LT PERFORATED TYPE CABLE TRAY POWER
5.		TEL AFG PSD SIG PERFORATED CABLE TRAY FOR DATA
6.		TEL AFG PSD SIG PERFORATED CABLE TRAY FOR POWER
7.		DISTRIBUTION BOARD (ADDB, VDDB)
8.		DISTRIBUTION BOARD (ELDB)
9.		DISTRIBUTION BOARD (LPDB)
10.		DISTRIBUTION BOARD (ACDB)

Sl No	SYMBOL	DESCRIPTION
1.		MAIN EARTH TERMINAL G (MET)
2.		CLEAN EARTH TERMINAL CU (CET)
3.		FLOOR RACEWAYS

1. ARCHITECTURAL REFERENCE DRAWING
NO:DDCPH2A&2B-TD-TYP-AR-DW-42038

TENDER DRAWING

EMPLOYER :

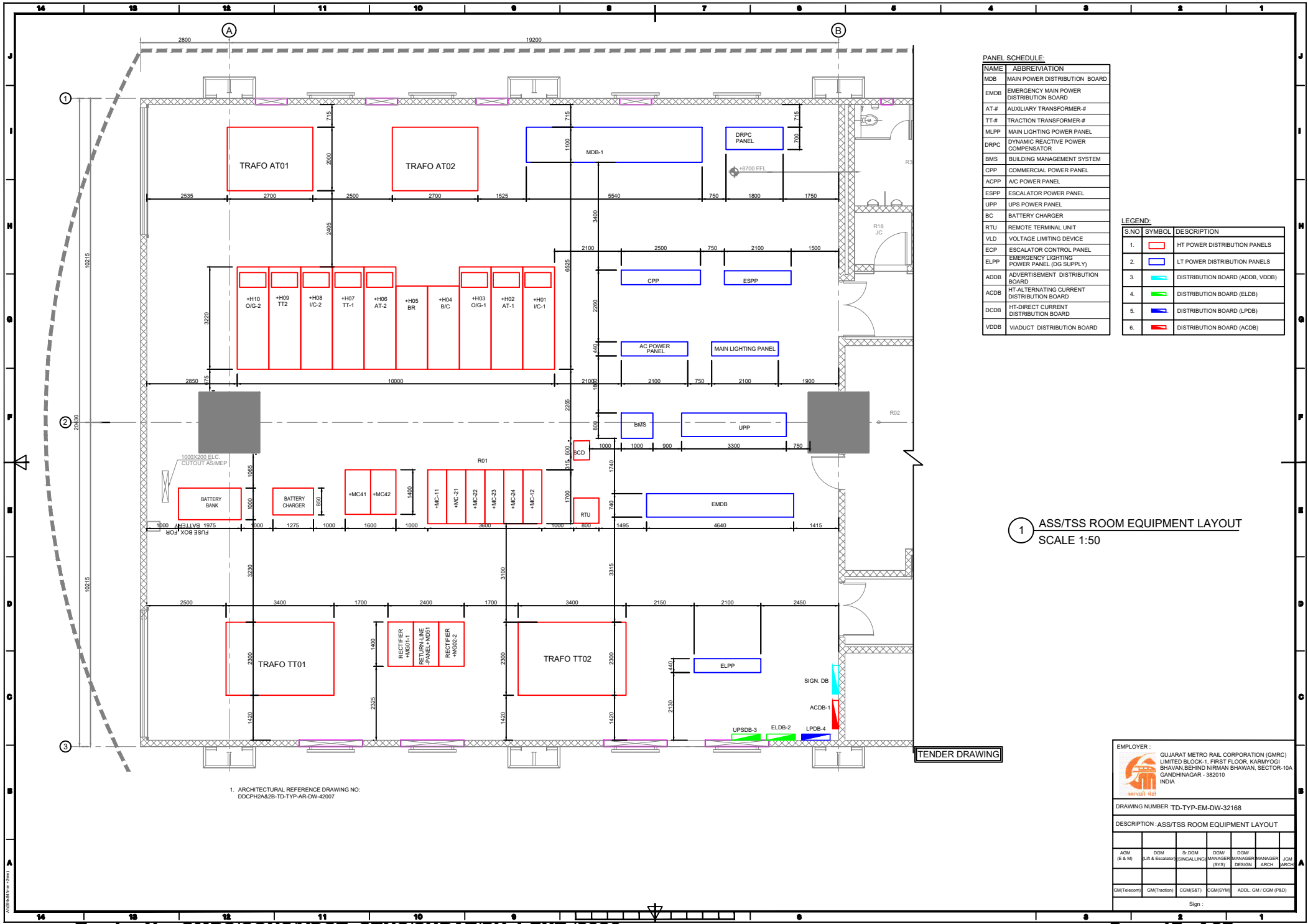
GUJARAT METRO RAIL CORPORATION (GMRCL)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER: TD-TYP-EM-DW-32166

DESCRIPTION : PLATFORM LEVEL CABLE TRAY
& EARTHING LAYOUT

AGM (E & M)	DGM (L & Escalator)	Sr DGM SIGNALLING	DGM MANAGER	DGM MANAGER	DGM MANAGER	JGM ARCH
GM(Telecom)	GM(Traction)	COM(S&T)	COM(S&M)	ADCL GM / CDM (P&D)		

Sign :



NAME	ABBREVIATION
MDB	MAIN POWER DISTRIBUTION BOARD
EMDB	EMERGENCY MAIN POWER DISTRIBUTION BOARD
AT-#	AUXILIARY TRANSFORMER-#
TT-#	TRACTION TRANSFORMER-#
MLPP	MAIN LIGHTING POWER PANEL
DRPC	DYNAMIC REACTIVE POWER COMPENSATOR
BMS	BUILDING MANAGEMENT SYSTEM
CPP	COMMERCIAL POWER PANEL
ACPP	A/C POWER PANEL
ESPP	ESCALATOR POWER PANEL
UPP	UPS POWER PANEL
BC	BATTERY CHARGER
RTU	REMOTE TERMINAL UNIT
VLD	VOLTAGE LIMITING DEVICE
ECP	ESCALATOR CONTROL PANEL
ELPP	EMERGENCY LIGHTING POWER PANEL (DG SUPPLY)
ADDB	ADVERTISEMENT DISTRIBUTION BOARD
ACDB	HT-ALTERNATING CURRENT DISTRIBUTION BOARD
DCDB	HT-DIRECT CURRENT DISTRIBUTION BOARD
VVDB	VIADUCT DISTRIBUTION BOARD

S.NO	SYMBOL	DESCRIPTION
1.	[Red Box]	HT POWER DISTRIBUTION PANELS
2.	[Blue Box]	LT POWER DISTRIBUTION PANELS
3.	[Cyan Box]	DISTRIBUTION BOARD (ADDB, VVDB)
4.	[Green Box]	DISTRIBUTION BOARD (ELDB)
5.	[Blue Box]	DISTRIBUTION BOARD (LPDB)
6.	[Red Box]	DISTRIBUTION BOARD (ACDB)

1 ASS/TSS ROOM EQUIPMENT LAYOUT
SCALE 1:50

TENDER DRAWING

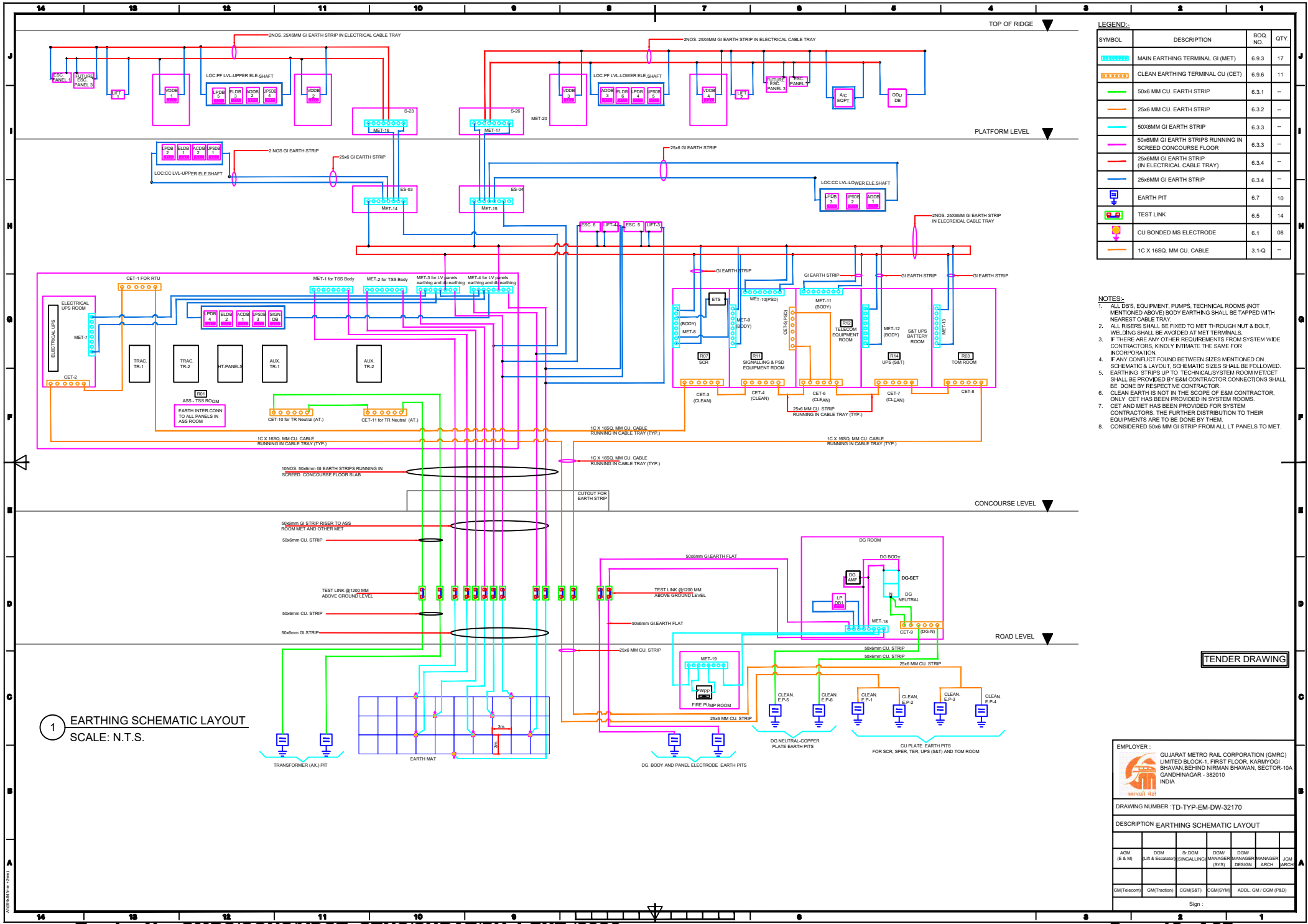
1. ARCHITECTURAL REFERENCE DRAWING NO:
DDCPH2A&2B-TD-TYP-AR-DW-420307

EMPLOYER :
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER :TD-TYP-EM-DW-32168

DESCRIPTION :ASS/TSS ROOM EQUIPMENT LAYOUT

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALLING)	DGM/ MANAGER (STN)	DGM/ MANAGER (DESIGN)	DGM/ MANAGER (ARCH)	JCM
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SY&M)	ADDL GM / C GM (P&O)	Sign :	



LIST OF DRAWING:-

SR. NO.	DRAWING NO.	DESCRIPTION	SERVICE	REVISION	SCALE
1	TD-TYP-EM-DW-32481	LIST OF DRAWINGS	FIRE ALARM SYSTEM	A0	NTS
2	TD-TYP-EM-DW-32482	SCHEMATIC DIAGRAM	FIRE ALARM SYSTEM	A0	NTS
3	TD-TYP-EM-DW-32484	GROUND LEVEL PLAN	FIRE ALARM SYSTEM	A0	1:300@A1
4	TD-TYP-EM-DW-32486	CONCOURSE LEVEL PLAN	FIRE ALARM SYSTEM	A0	1:200@A1
5	TD-TYP-EM-DW-32488	PLATFORM LEVEL PLAN	FIRE ALARM SYSTEM	A0	1:200@A1
6	TD-TYP-EM-DW-32490	WATER TANKS & PUMP ROOM LAYOUT	FIRE ALARM SYSTEM	A0	1:50@A1

TENDER DRAWING

EMPLOYER :

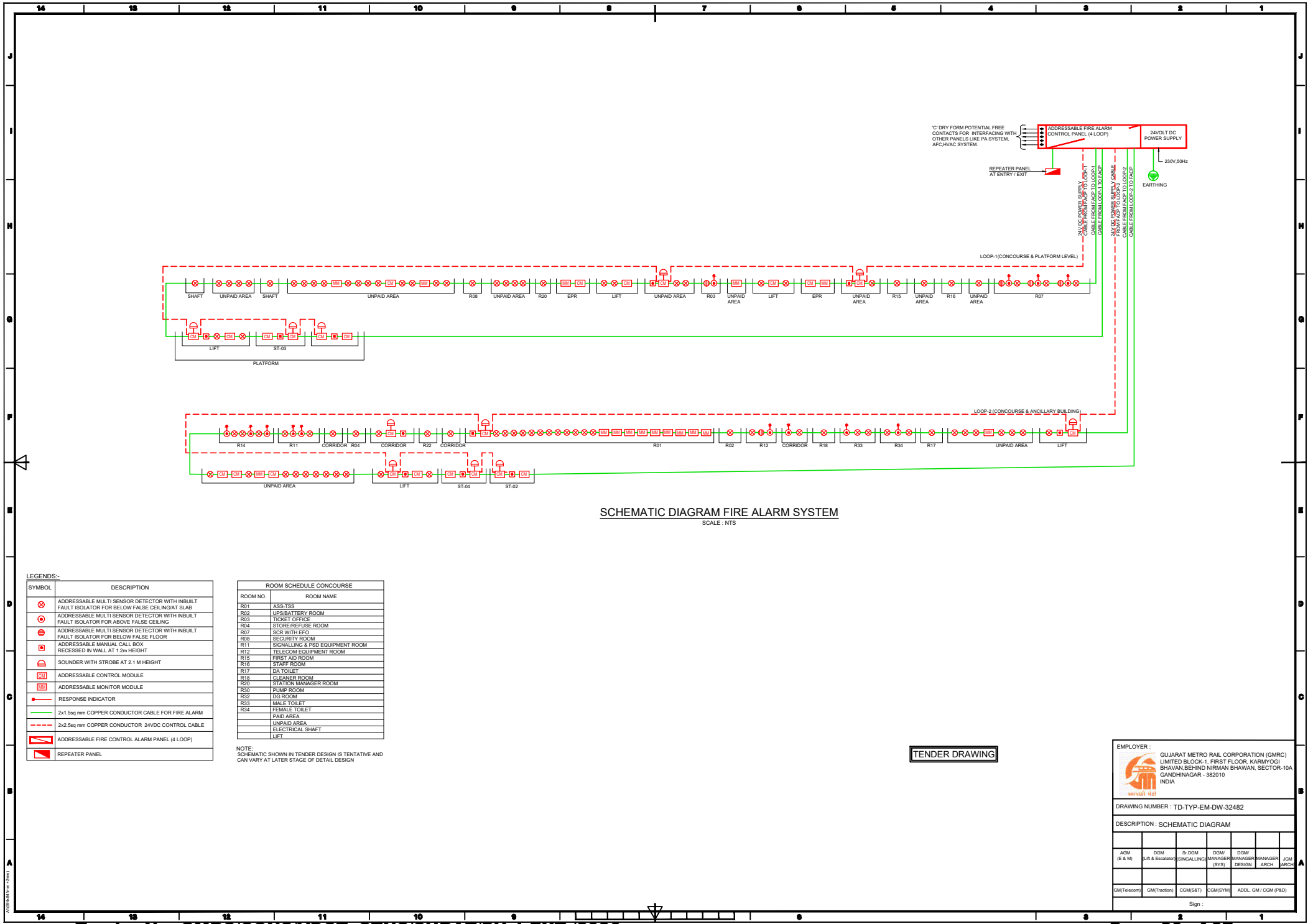
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32481

DESCRIPTION : LIST OF DRAWINGS

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM/ (SYSTEMS)	DGM/ MANAGER DESIGN	DGM/ MANAGER ARCH	JCM ARCH
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYTM)	ADDL GM / GDM (P&D)		

Sign :



SYMBOL	DESCRIPTION
	ADDRESSABLE MULTI SENSOR DETECTOR WITH INBUILT FAULT ISOLATOR FOR BELOW FALSE CEILING AT SLAB
	ADDRESSABLE MULTI SENSOR DETECTOR WITH INBUILT FAULT ISOLATOR FOR ABOVE FALSE CEILING
	ADDRESSABLE MULTI SENSOR DETECTOR WITH INBUILT FAULT ISOLATOR FOR BELOW FALSE FLOOR
	ADDRESSABLE MANUAL CALL BOX
	ADDRESSABLE MANUAL CALL BOX RECESSED IN WALL AT 2.1 M HEIGHT
	SOUNDER WITH STROBE AT 2.1 M HEIGHT
	ADDRESSABLE CONTROL MODULE
	ADDRESSABLE MONITOR MODULE
	RESPONSE INDICATOR
	2x1.5sq mm COPPER CONDUCTOR CABLE FOR FIRE ALARM
	2x2.5sq mm COPPER CONDUCTOR 24VDC CONTROL CABLE
	ADDRESSABLE FIRE CONTROL ALARM PANEL (4 LOOP)
	REPEATER PANEL

ROOM SCHEDULE CONCOURSE	
ROOM NO.	ROOM NAME
R01	ASS-TSS
R02	UPS/BATTERY ROOM
R03	TICKET OFFICE
R04	STORE/REFUSE ROOM
R07	SCR WITH EPO
R08	SECURITY ROOM
R11	SIGNALLING & PSD EQUIPMENT ROOM
R12	TELECOM EQUIPMENT ROOM
R15	FIRST AID ROOM
R16	STAFF ROOM
R17	DA TOILET
R18	CLEANER ROOM
R20	STATION MANAGER ROOM
R30	PUMP ROOM
R32	DG ROOM
R33	MALE TOILET
R34	FEMALE TOILET
	UNPAID AREA
	ELECTRICAL SHAFT
	LIFT

NOTE:
SCHEMATIC SHOWN IN TENDER DESIGN IS TENTATIVE AND CAN VARY AT LATER STAGE OF DETAIL DESIGN

TENDER DRAWING

EMPLOYER :

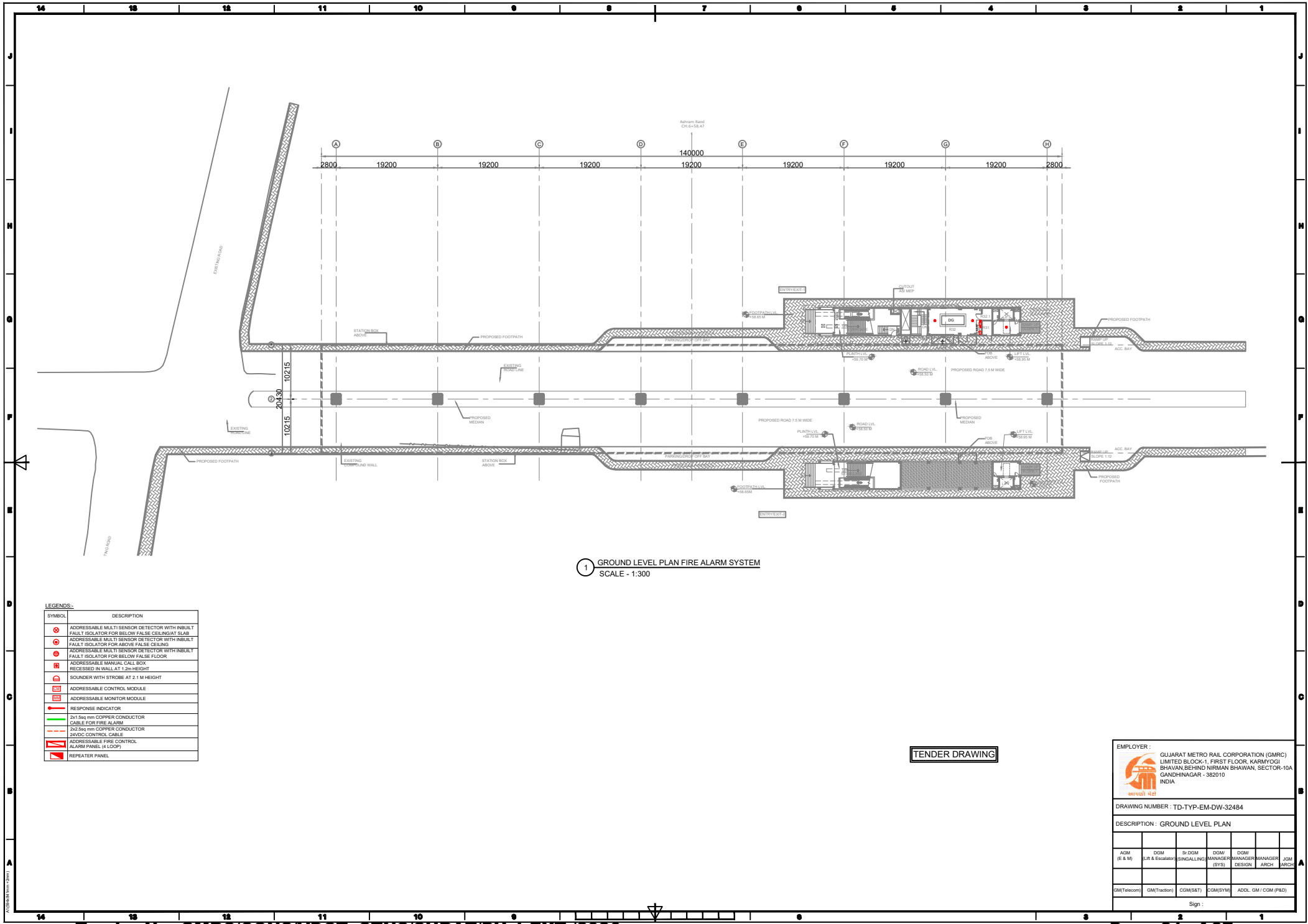
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32482

DESCRIPTION : SCHEMATIC DIAGRAM

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALLING)	DGM/ MANAGER (SYS)	DGM/ MANAGER (DESIGN)	DGM/ MANAGER (ARCH)	JGM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYSM)	ADCL GM / GDM (P&D)		

Sign :



LEGENDS	
SYMBOL	DESCRIPTION
	ADDRESSABLE MULTI SENSOR DETECTOR WITH INBUILT FAULT ISOLATOR FOR BELOW FALSE CEILING/SLAB
	ADDRESSABLE MULTI SENSOR DETECTOR WITH INBUILT FAULT ISOLATOR FOR ABOVE FALSE CEILING
	ADDRESSABLE MULTI SENSOR DETECTOR WITH INBUILT FAULT ISOLATOR FOR BELOW FALSE FLOOR
	ADDRESSABLE MANUAL CALL BOX RECESSED IN WALL AT 1.2m HEIGHT
	SOUNDER WITH STROBE AT 2.1 M HEIGHT
	ADDRESSABLE CONTROL MODULE
	ADDRESSABLE MONITOR MODULE
	RESPONSE INDICATOR
	2x1.5sq mm COPPER CONDUCTOR CABLE FOR FIRE ALARM
	2x0.5sq mm COPPER CONDUCTOR 24VDC CONTROL CABLE
	ADDRESSABLE FIRE CONTROL ALARM PANEL (R LOOP)
	REPEATER PANEL

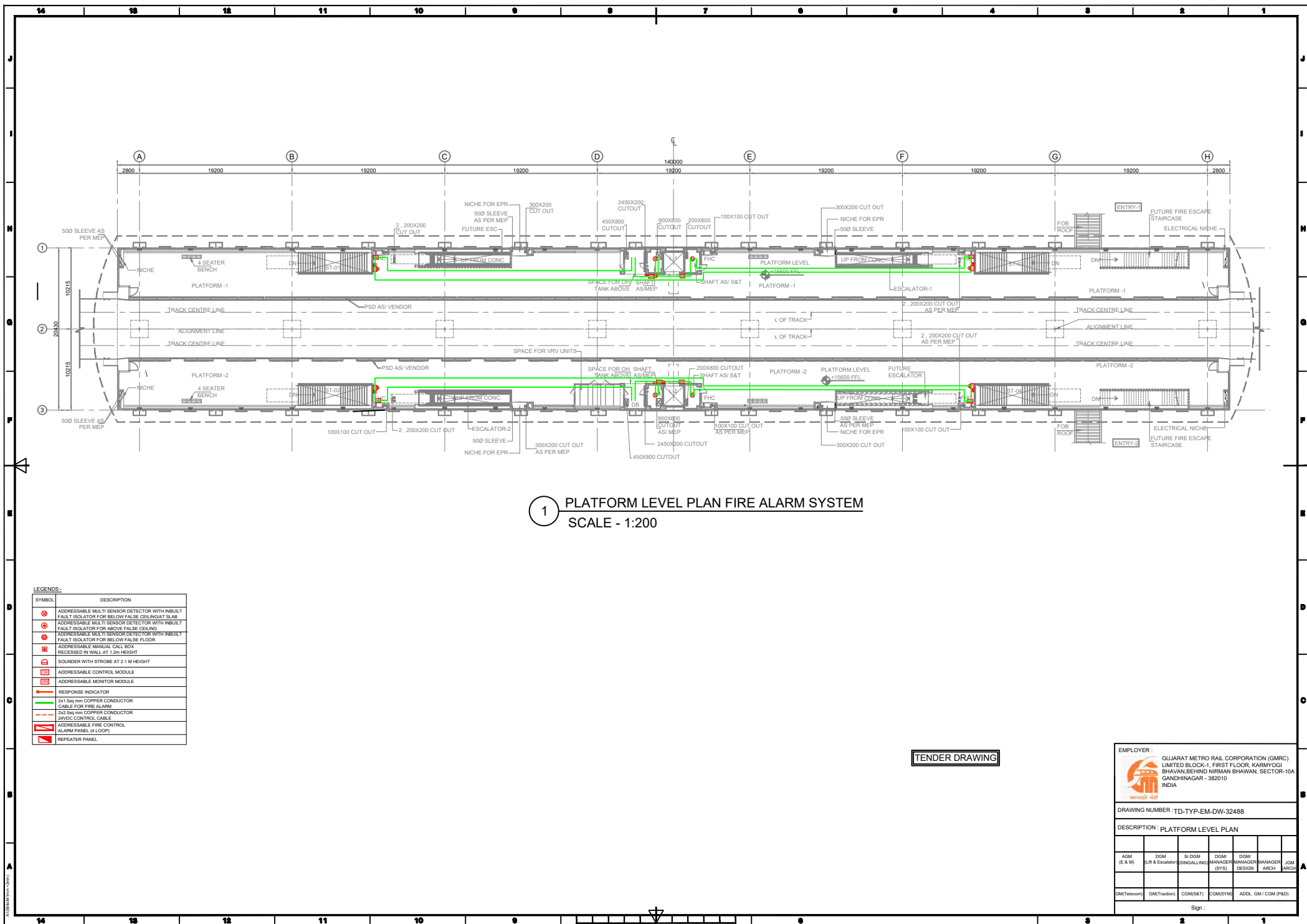
TENDER DRAWING

EMPLOYER :
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN, BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32484

DESCRIPTION : GROUND LEVEL PLAN

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALLING)	DGM (SYSTEMS)	DGM (MANAGER)	DGM (MANAGER)	DGM (MANAGER)	JCM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(S&M)	ADCL GM / CDM (P&D)			
Sign :							





TENDER DRAWING

Tender No. GMRC/CONS/VDCT+STNS/SURAT/PH-1 EXT./2026

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Tender No. GMRC/CONS/VDCT+STNS/SURAT/PH-1 EXT./2026

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LIST OF DRAWING:-

SR. NO.	DRAWING NO.	DESCRIPTION	SERVICE	REVISION	SCALE
1	TD-TYP-EM-DW-32400	LIST OF DRAWING	FIRE FIGHTING SYSTEM	A0	NTS
2	TD-TYP-EM-DW-32402	SCHEMATIC DIAGRAM	FIRE FIGHTING SYSTEM	A0	NTS
3	TD-TYP-EM-DW-32406	GROUND LEVEL PLAN	FIRE FIGHTING SYSTEM	A0	1:300@A1
4	TD-TYP-EM-DW-32408	CONCOURSE LEVEL PLAN	FIRE FIGHTING SYSTEM	A0	1:200@A1
5	TD-TYP-EM-DW-32410	PLATFORM LEVEL PLAN	FIRE FIGHTING SYSTEM	A0	1:200@A1
6	TD-TYP-EM-DW-32412	WATER TANKS & PUMP ROOM LAYOUT	FIRE FIGHTING SYSTEM	A0	1:50@A1

TENDER DRAWING

EMPLOYER :



GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

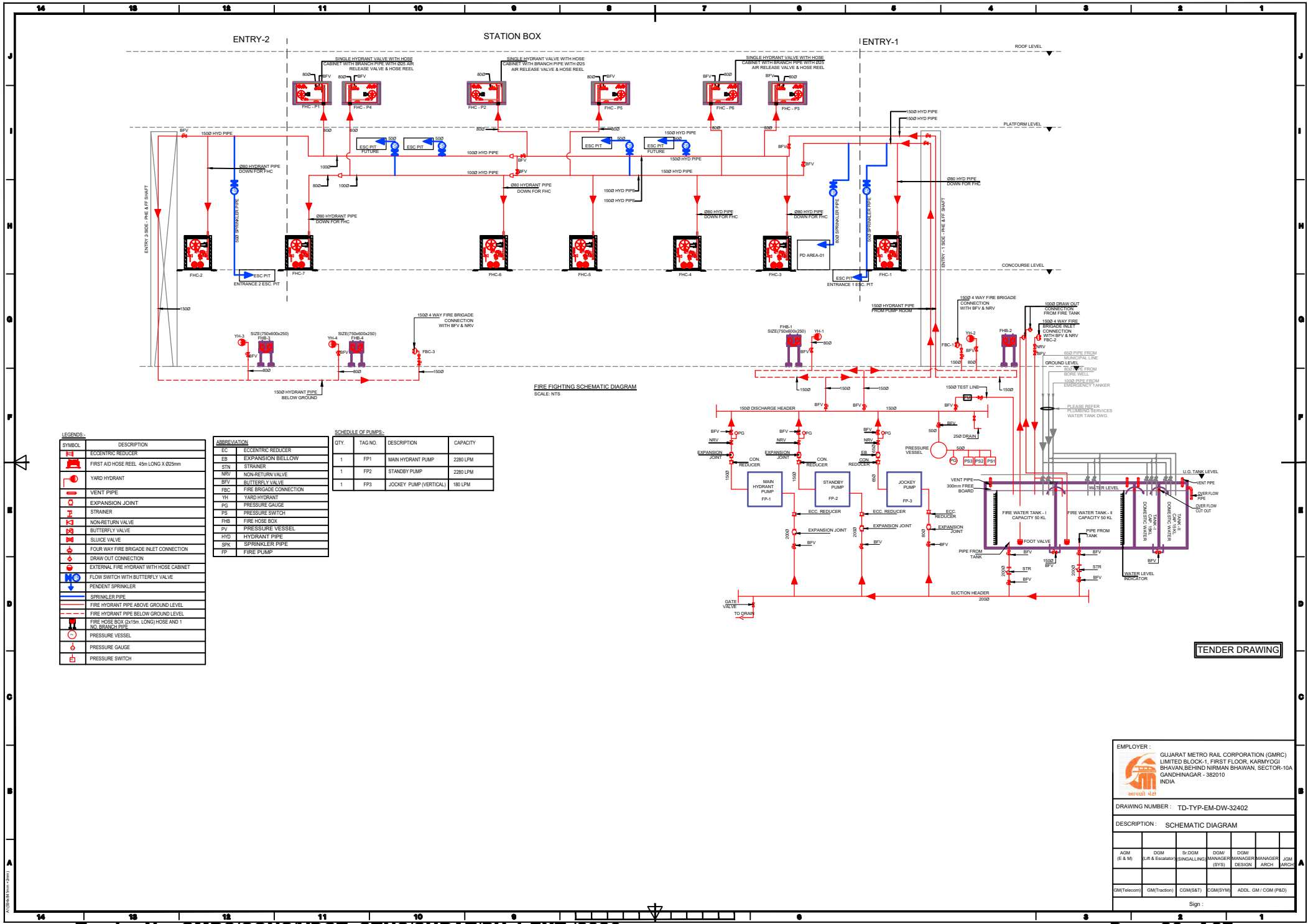
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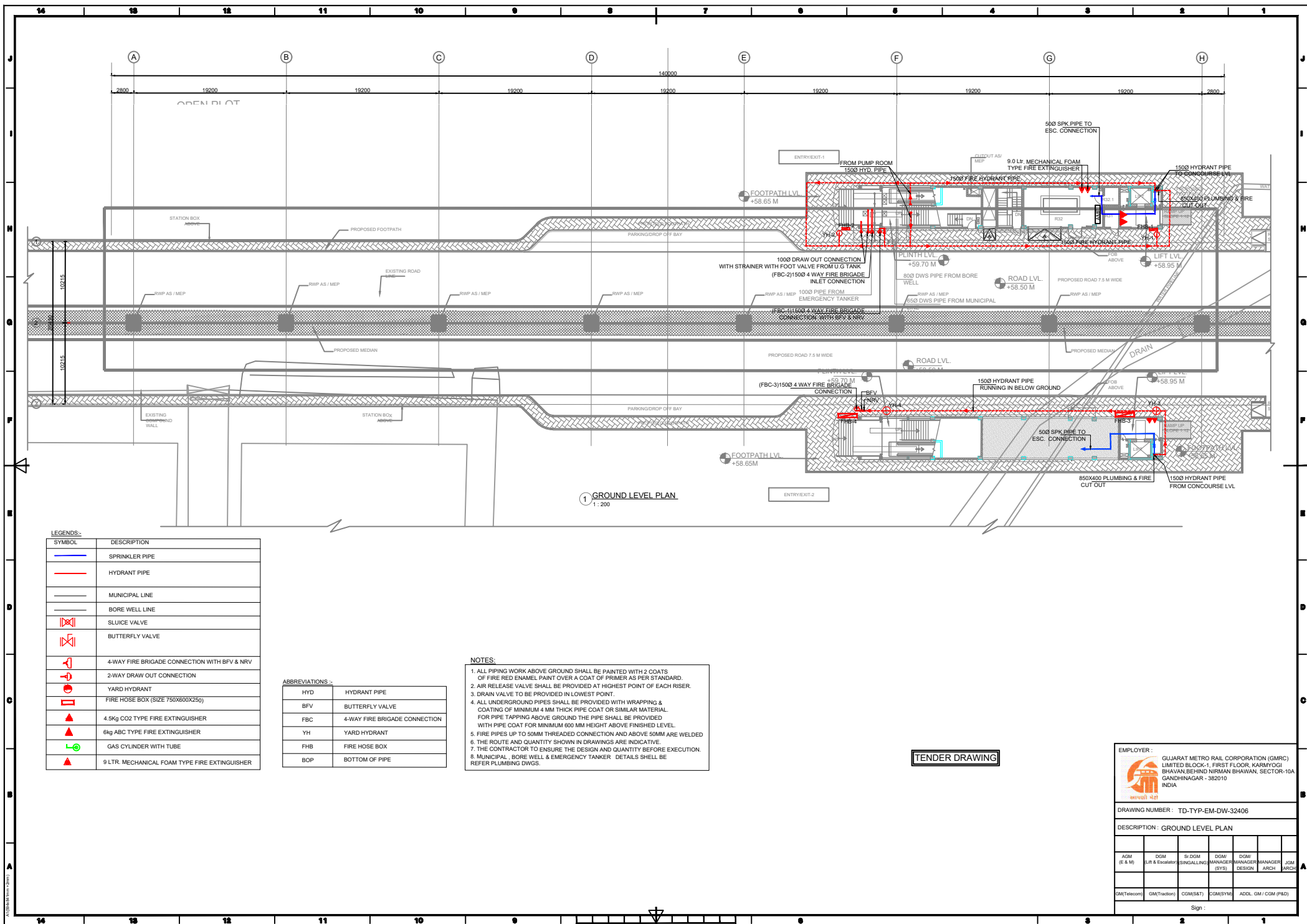
DESCRIPTION :

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING SYSTEM)	DGM/ MANAGER (DESIGN)	DGM/ MANAGER (ARCH)	JGM (ARCH)

GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYTM)	ADDL GM / CGM (P&D)

Sign :





1 GROUND LEVEL PLAN
1:200

LEGENDS:-

SYMBOL	DESCRIPTION
	SPRINKLER PIPE
	HYDRANT PIPE
	MUNICIPAL LINE
	BORE WELL LINE
	SLUIE VALVE
	BUTTERFLY VALVE
	4-WAY FIRE BRIGADE CONNECTION WITH BFV & NRV
	2-WAY DRAW OUT CONNECTION
	YARD HYDRANT
	FIRE HOSE BOX (SIZE 750X600X250)
	4.5kg CO2 TYPE FIRE EXTINGUISHER
	6kg ABC TYPE FIRE EXTINGUISHER
	GAS CYLINDER WITH TUBE
	9 LTR. MECHANICAL FOAM TYPE FIRE EXTINGUISHER

ABBREVIATIONS:-

HYD	HYDRANT PIPE
BFV	BUTTERFLY VALVE
FBC	4-WAY FIRE BRIGADE CONNECTION
YH	YARD HYDRANT
FHB	FIRE HOSE BOX
BOP	BOTTOM OF PIPE

- NOTES:-**
1. ALL PIPING WORK ABOVE GROUND SHALL BE PAINTED WITH 2 COATS OF FIRE RED ENAMEL PAINT OVER A COAT OF PRIMER AS PER STANDARD.
 2. AIR RELEASE VALVE SHALL BE PROVIDED AT HIGHEST POINT OF EACH RISER.
 3. DRAIN VALVE TO BE PROVIDED IN LOWEST POINT.
 4. ALL UNDERGROUND PIPES SHALL BE PROVIDED WITH WRAPPING & COATING OF MINIMUM 4 MM THICK PIPE COAT OR SIMILAR MATERIAL. FOR PIPE TAPPING ABOVE GROUND THE PIPE SHALL BE PROVIDED WITH PIPE COAT FOR MINIMUM 600 MM HEIGHT ABOVE FINISHED LEVEL.
 5. FIRE PIPES UP TO 50MM THREADED CONNECTION AND ABOVE 50MM ARE WELDED
 6. THE ROUTE AND QUANTITY SHOWN IN DRAWINGS ARE INDICATIVE.
 7. THE CONTRACTOR TO ENSURE THE DESIGN AND QUANTITY BEFORE EXECUTION.
 8. MUNICIPAL, BORE WELL & EMERGENCY TANKER DETAILS SHALL BE REFER PLUMBING DWGS.

TENDER DRAWING

EMPLOYER:-

GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN, BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

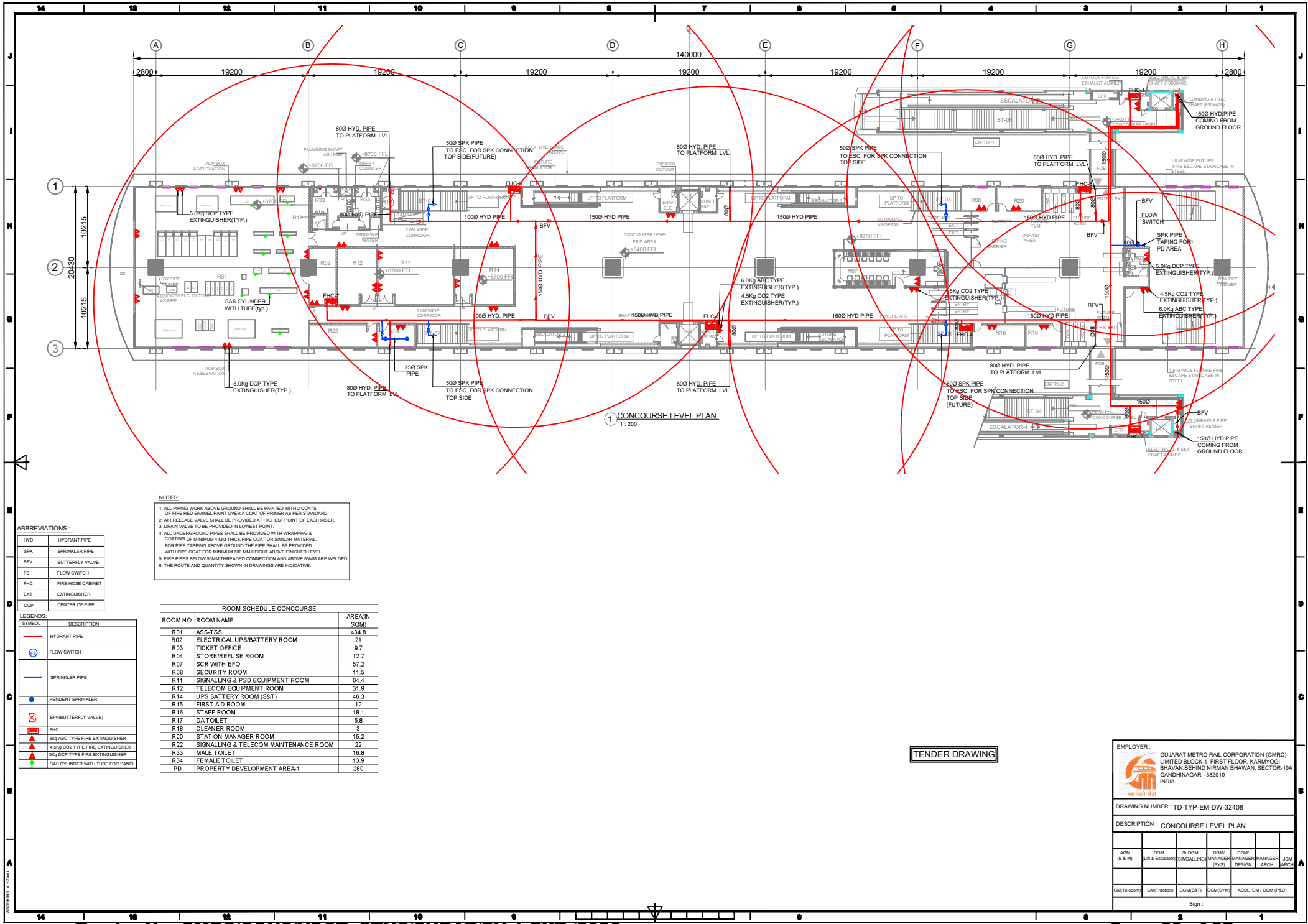
DRAWING NUMBER:- TD-TYP-EM-DW-32406

DESCRIPTION:- GROUND LEVEL PLAN

ACM (E & M)	DGM (L/R & Escalator)	Sr DGM SINGALLING	DGM MANAGER	DGM MANAGER	DGM MANAGER	JCM ARCH

GM(Telecom) GM(Traction) COM(S&T) COM(S&T) ADDL GM / GDM (P&D)

Sign: _____



1 CONCOURSE LEVEL PLAN
1 : 200

- NOTES:
- 1. ALL PIPING WORK ABOVE GROUND SHALL BE PAINTED WITH 2 COATS OF FIRE RED ENAMEL PAINT OVER A COAT OF PRIMER AS PER STANDARD.
 - 2. AIR RELEASE VALVE SHALL BE PROVIDED AT HIGHEST POINT OF EACH RISER.
 - 3. DRAIN VALVE TO BE PROVIDED IN LOWEST POINT.
 - 4. ALL UNDERGROUND PIPES SHALL BE PROVIDED WITH WRAPPING & COATING OF MINIMUM 4 MM THICK PIPE COAT OR SIMILAR MATERIAL FOR PIPE TAPPING ABOVE GROUND THE PIPE SHALL BE PROVIDED WITH PIPE COAT FOR MINIMUM 60 MM HEIGHT ABOVE FINISHED LEVEL.
 - 5. FIRE PIPES BELOW 50MM THREADED CONNECTION AND ABOVE 50MM ARE WELDED.
 - 6. THE ROUTE AND QUANTITY SHOWN IN DRAWINGS ARE INDICATIVE.

ABBREVIATIONS :-

HYD	HYDRANT PIPE
SPK	SPRINKLER PIPE
BFV	BUTTERFLY VALVE
FS	FLOW SWITCH
FHC	FIRE HOSE CABINET
EXT	EXTINGUISHER
CCP	CENTER OF PIPE

LEGENDS:

SYMBOL	DESCRIPTION
	HYDRANT PIPE
	SPRINKLER PIPE
	PENDENT SPRINKLER
	BFV(BUTTERFLY VALVE)
	FHC
	5kg ABC TYPE FIRE EXTINGUISHER
	4.5kg CO2 TYPE FIRE EXTINGUISHER
	5kg DCP TYPE FIRE EXTINGUISHER
	GAS CYLINDER WITH TUBE FOR PANEL

ROOM SCHEDULE CONCOURSE		
ROOM NO.	ROOM NAME	AREA(IN SQM)
R01	ASS-TSS	434.8
R02	ELECTRICAL UPS/BATTERY ROOM	21
R03	TICKET OFFICE	9.7
R04	STORE/REFUSE ROOM	12.7
R07	SCR WITH EFO	57.2
R08	SECURITY ROOM	11.5
R11	SIGNALING & P&D EQUIPMENT ROOM	64.4
R12	TELECOM EQUIPMENT ROOM	31.9
R14	UPS BATTERY ROOM (S&T)	46.3
R15	FIRST AID ROOM	12
R16	STAFF ROOM	18.1
R17	DA TOILET	5.8
R18	CLEANER ROOM	3
R20	STATION MANAGER ROOM	15.2
R22	SIGNALING & TELECOM MAINTENANCE ROOM	22
R33	MALE TOILET	16.8
R34	FEMALE TOILET	13.9
PD	PROPERTY DEVELOPMENT AREA-1	280

TENDER DRAWING

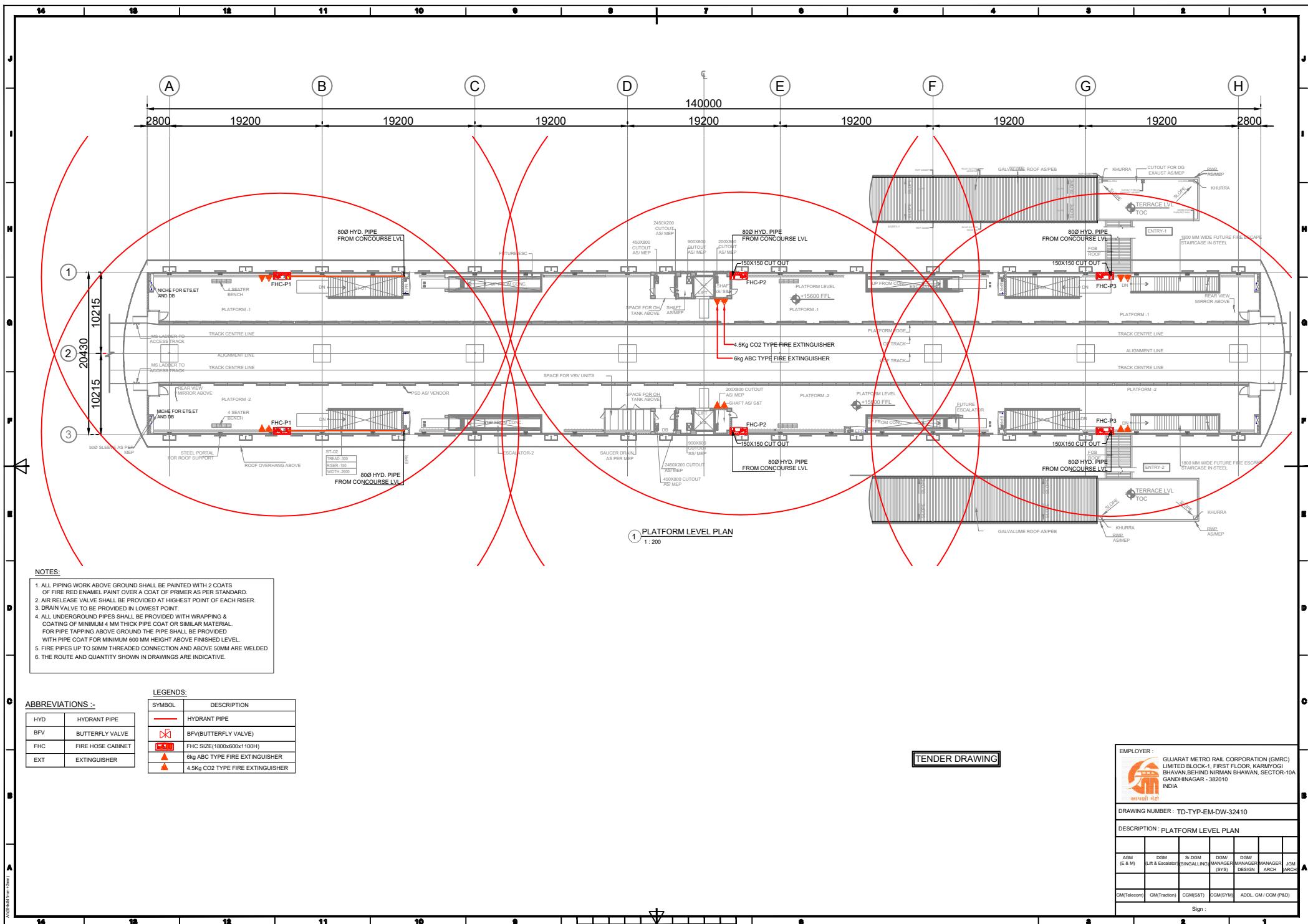
EMPLOYER : GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A GANDHINAGAR - 382010 INDIA

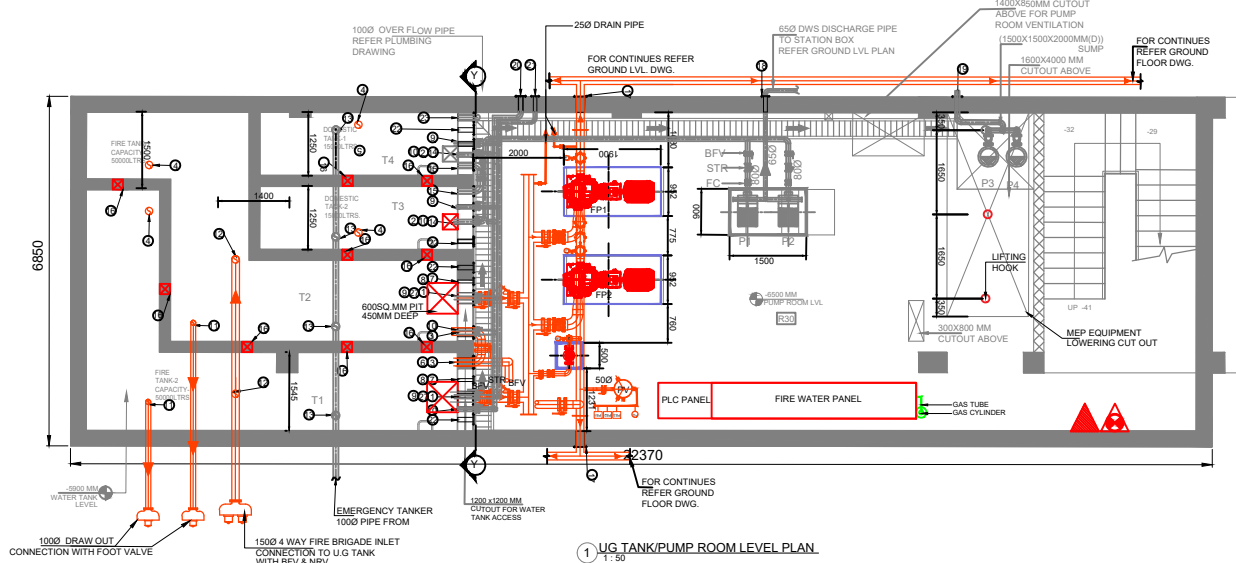
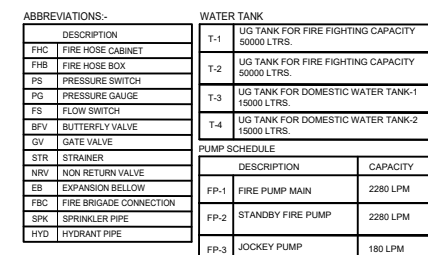
DRAWING NUMBER : TD-TYP-EM-DW-32408

DESCRIPTION : CONCOURSE LEVEL PLAN

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM (MANAGER)	DGM (MANAGER)	DGM (MANAGER)	JCM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYTM)	ADCL GM / CDM (P&D)		

Sign :



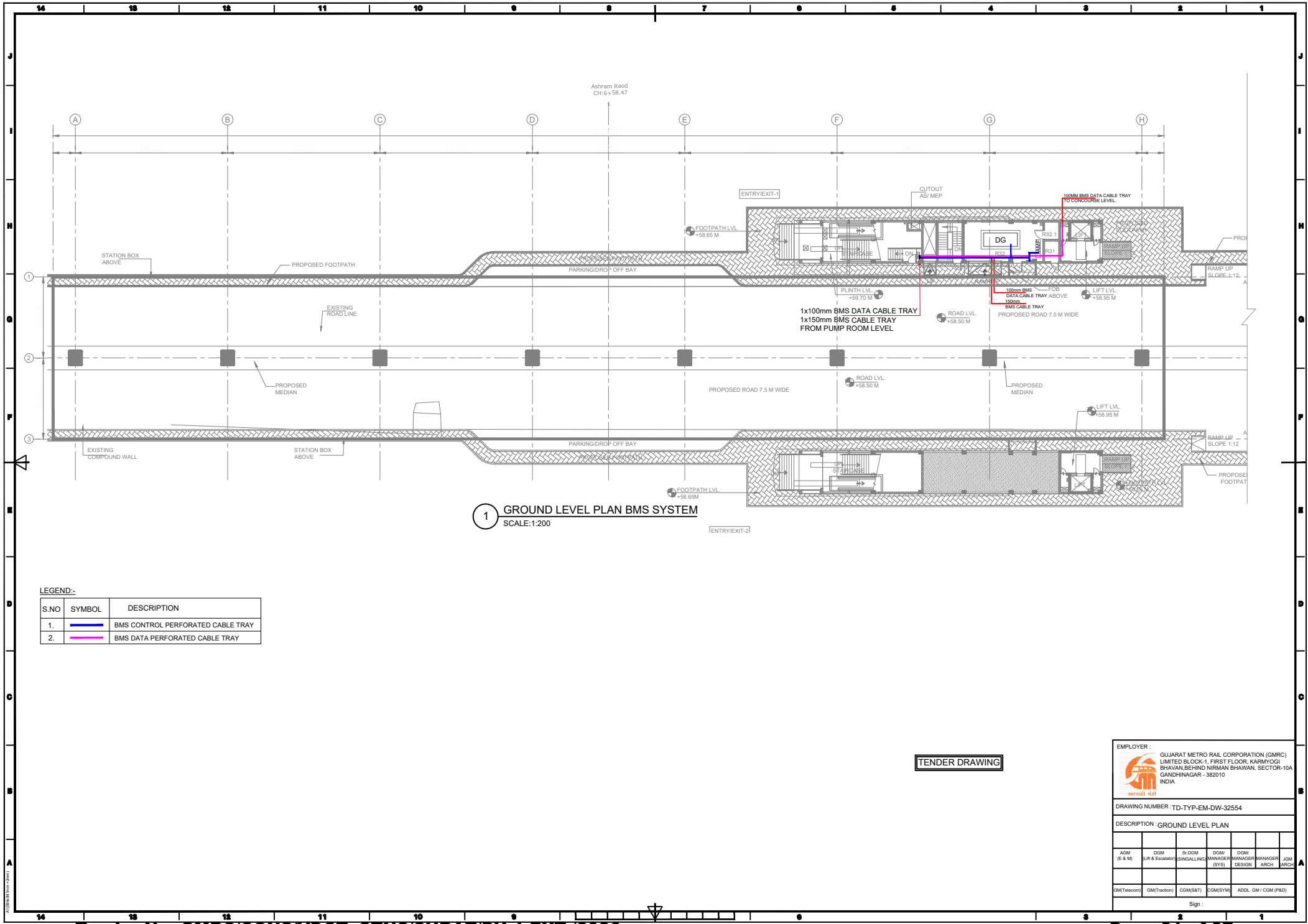


The diagram illustrates the internal layout of a 4-bay water tank. Key features include:

- Dimensions:** The tank has a total width of 12000mm and a height of 12000mm. The bay width is 3000mm.
- Levels:**
 - FFL 0.00m ROAD LEVEL:** The top reference level.
 - WATER LEVEL:** Indicated by a horizontal line across the tank.
 - 5900m UG TANK LEVEL:** The bottom reference level.
- Internal Structure:** The tank is divided into four bays (T1, T2, T3, T4) by vertical walls. Each bay contains a 6000SQ MM PIT (Pump Intake Tank) and a 3000SQ MM PIT (Pump Intake Tank).
- Access Points:** Each bay has a 6000X1200 TANK ACCESS door at the top and a 3000X1200 TANK ACCESS door at the bottom.
- Equipment:** The diagram shows various pumps and valves, including:
 - 6000SQ MM PIT (Pump Intake Tank) in each bay.
 - 3000SQ MM PIT (Pump Intake Tank) in each bay.
 - 3000mm FREE BOARD at the top of the tank.

SECTION Y-Y

EMPLOYER :		GUJARAT METRO RAIL CORPORATION (GMRCL) LIMITED BLOCK-1, FIRST FLOOR, KARMYOGI BHAVAN, NEAR NIRMAN BHAWAN, SECTOR-10A GANDHINAGAR - 382010 INDIA			
DRAWING NUMBER :		TD-TYP-EM-DW-32412			
DESCRIPTION : WATER TANKS & PUMP ROOM LAYOUT					
ACM (E & M)	DOM (R & Escalator)	SI DOM (SIGNALLING)	DOM/ MANAGER (SYS)	DOM/ MANAGER DESIGN	JCM ARCH
GM(Telecom)	GM(Traction)	GM(S&T)	GM(SY/M)	ADCL. GM / CCM (P&I)	
Sign :					



1 GROUND LEVEL PLAN BMS SYSTEM
SCALE:1:200

LEGEND:-

S.NO	SYMBOL	DESCRIPTION
1.		BMS CONTROL PERFORATED CABLE TRAY
2.		BMS DATA PERFORATED CABLE TRAY

TENDER DRAWING

EMPLOYER : GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32554

DESCRIPTION : GROUND LEVEL PLAN

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM (SYSTEMS)	DGM (MANAGER)	DGM (MANAGER)	DGM (MANAGER)	JCM (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(S&T)	ADDL. GM / CDM (P&D)			

Sign :

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LIST OF DRAWING

SR. NO.	DRAWING NO.	DESCRIPTION		REVISION	SCALE
1	TD-TYP-EM-DW-32302	LIST OF DRAWINGS	VAC LAYOUT	A0	N.T.S.
2	TD-TYP-EM-DW-32304	SCHEMATIC DIAGRAM	VAC LAYOUT	A0	N.T.S.
3	TD-TYP-EM-DW-32306	CONCOURSE LEVEL PLAN	VAC LAYOUT	A0	1:200 @ A1
4	TD-TYP-EM-DW-32308	PLATFORM LEVEL PLAN	VAC LAYOUT	A0	1:200 @ A1
5	TD-TYP-EM-DW-32310	GROUND LEVEL PLAN	VAC LAYOUT	A0	1:200 @ A1
6	TD-TYP-EM-DW-32312	PUMP ROOM LAYOUT	VAC LAYOUT	A0	1:50 @ A1

1DRAWING LIST
SCALE N.T.S.

TENDER DRAWING

EMPLOYER :
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAWAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

DRAWING NUMBER : TD-TYP-EM-DW-32302

DESCRIPTION : LIST OF DRAWINGS

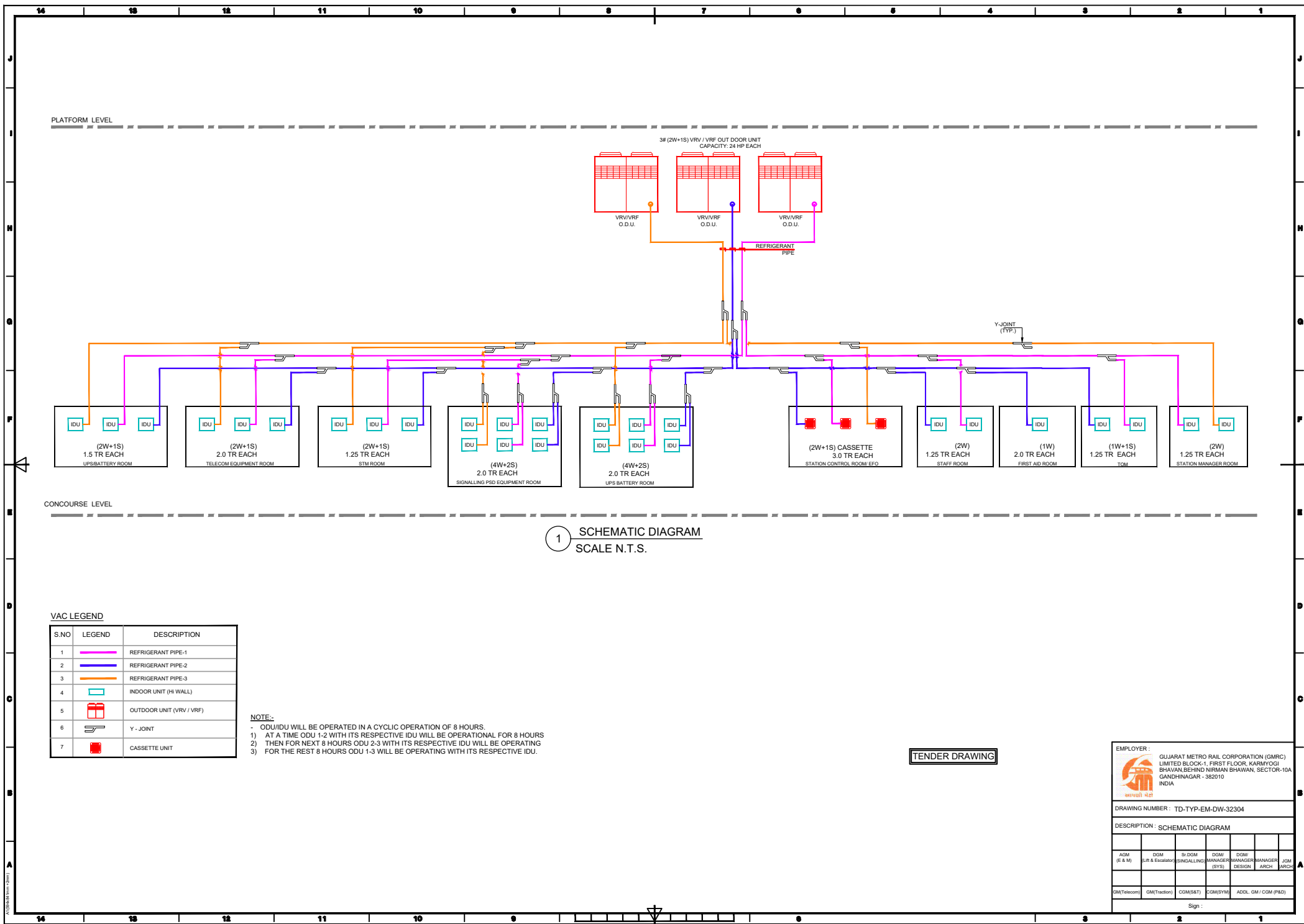
ACM (E & M)	DGM (Lift & Escalator)	Sr DGM SIGNALING	DGM/ MANAGER (SYSTEM)	DGM/ MANAGER DESIGN	DGM/ MANAGER ARCH	JGM ARCH
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADDL. GM / CGM (P&D)		
Sign :						

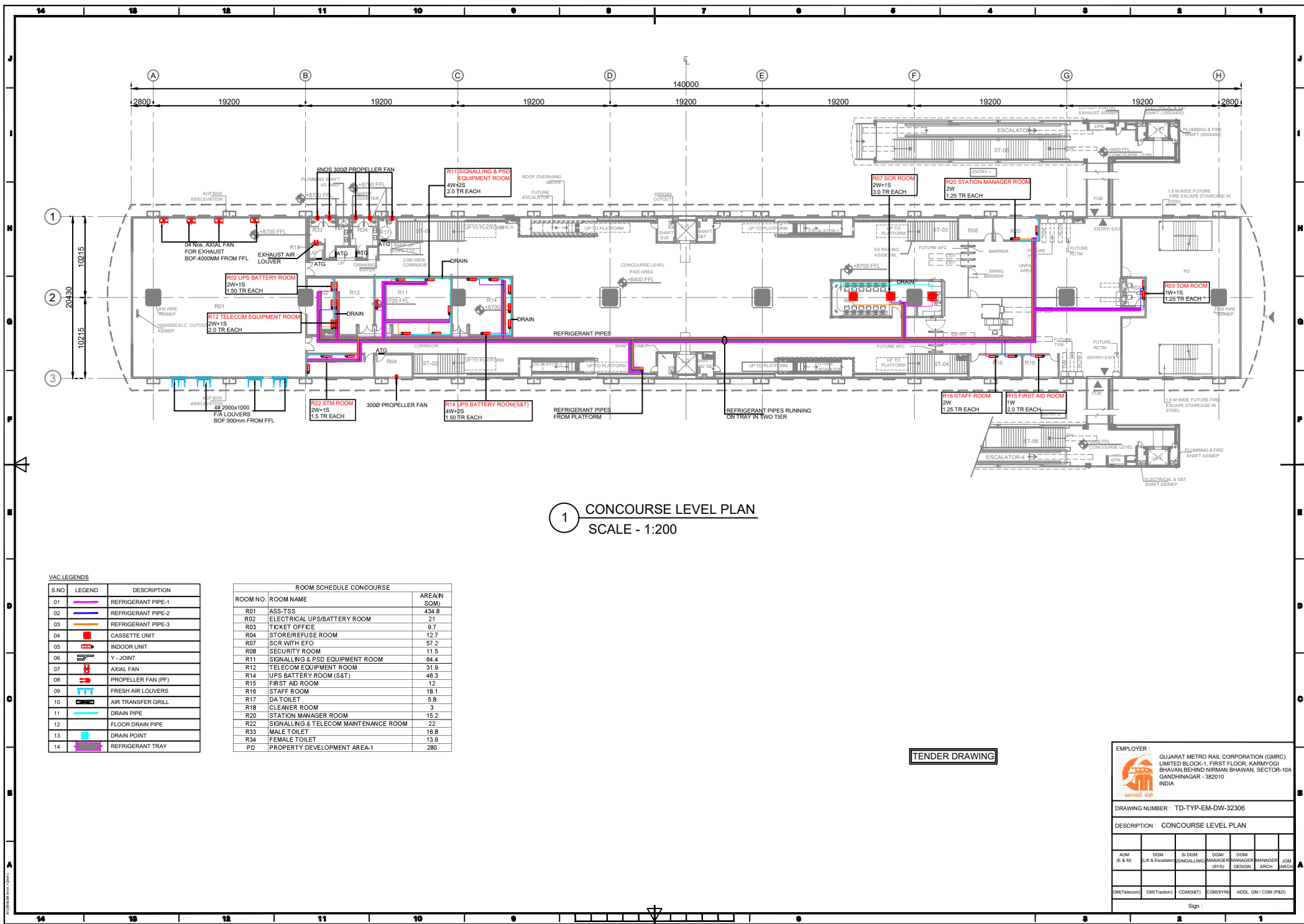
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Tender No. GMRC/CONS/VDCT+STNS/SURAT/PH-1 EXT./2026

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1 CONCOURSE LEVEL PLAN
SCALE - 1:200

S.NO	LEGEND	DESCRIPTION
01		REFRIGERANT PIPE-1
02		REFRIGERANT PIPE-2
03		REFRIGERANT PIPE-3
04		CASSETTE UNIT
05		INDOOR UNIT
06		Y - JOINT
07		AXIAL FAN
08		PROPELLER FAN (PF)
09		FRESH AIR LOUVERS
10		AIR TRANSFER GRILL
11		DRAIN PIPE
12		FLOOR DRAIN PIPE
13		DRAIN POINT
14		REFRIGERANT TRAY

ROOM NO.	ROOM NAME	AREA (IN SQM)
R01	ASS-TSS	434.9
R02	ELECTRICAL UPS/BATTERY ROOM	21
R03	TICKET OFFICE	9.7
R04	STORE/REFUSE ROOM	12.7
R07	SCR WITH EFO	57.2
R08	SECURITY ROOM	11.5
R11	SIGNALLING & PSD EQUIPMENT ROOM	64.4
R12	TELECOM EQUIPMENT ROOM	31.9
R14	UPS BATTERY ROOM (S&T)	46.3
R15	FIRST AID ROOM	12
R16	STAFF ROOM	18.1
R17	DA TOILET	5.8
R18	CLEANER ROOM	3
R20	STATION MANAGER ROOM	15.2
R22	SIGNALLING & TELECOM MAINTENANCE ROOM	22
R33	MALE TOILET	16.8
R34	FEMALE TOILET	13.9
PD	PROPERTY DEVELOPMENT AREA-1	280

TENDER DRAWING

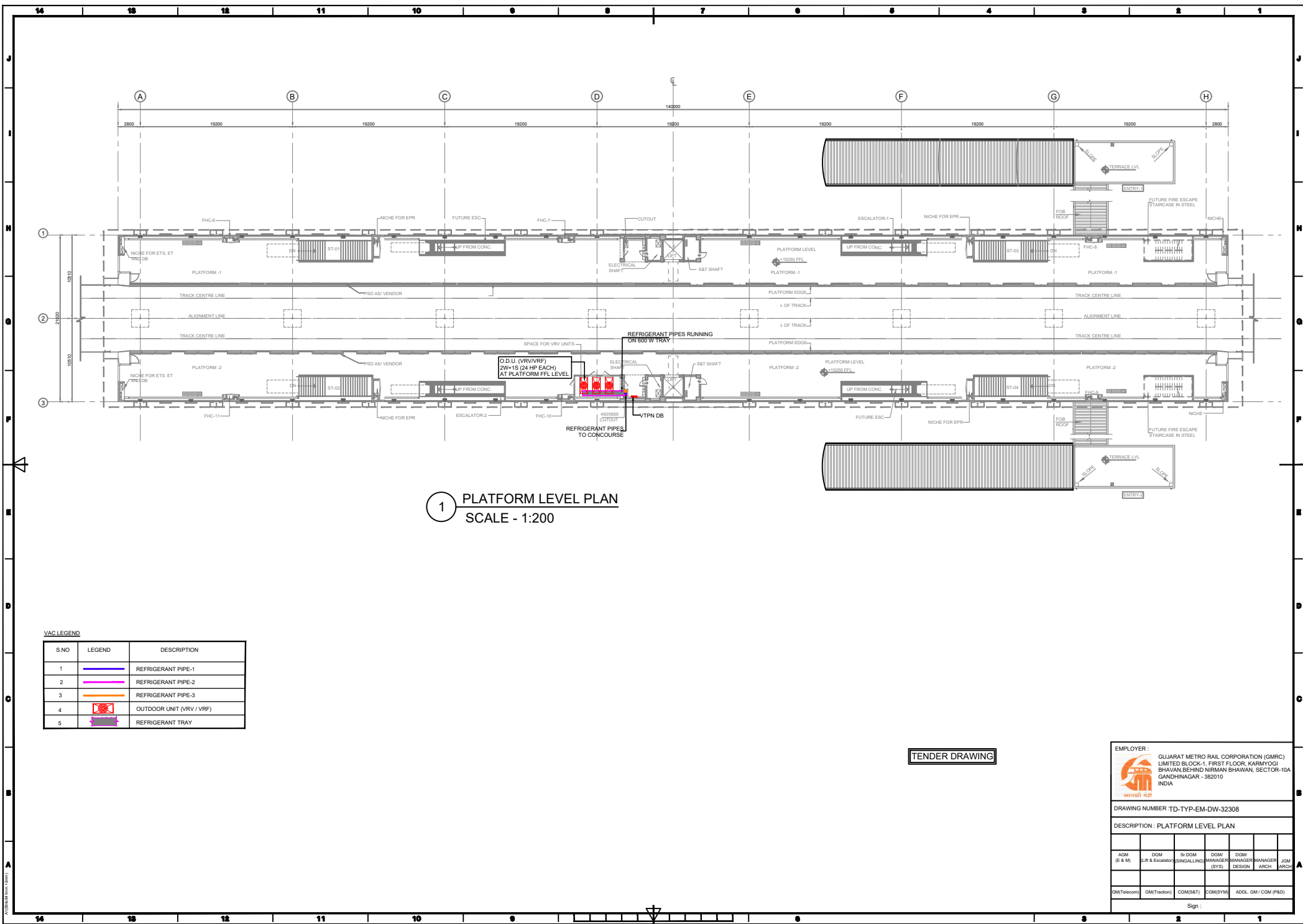
EMPLOYER :
GUJARAT METRO RAIL CORPORATION (GMRC)
LIMITED BLOCK-1, FIRST FLOOR, KARMIYOGI
BHAVAN,BEHIND NIRMAL BHAVAN, SECTOR-10A
GANDHINAGAR - 382010
INDIA

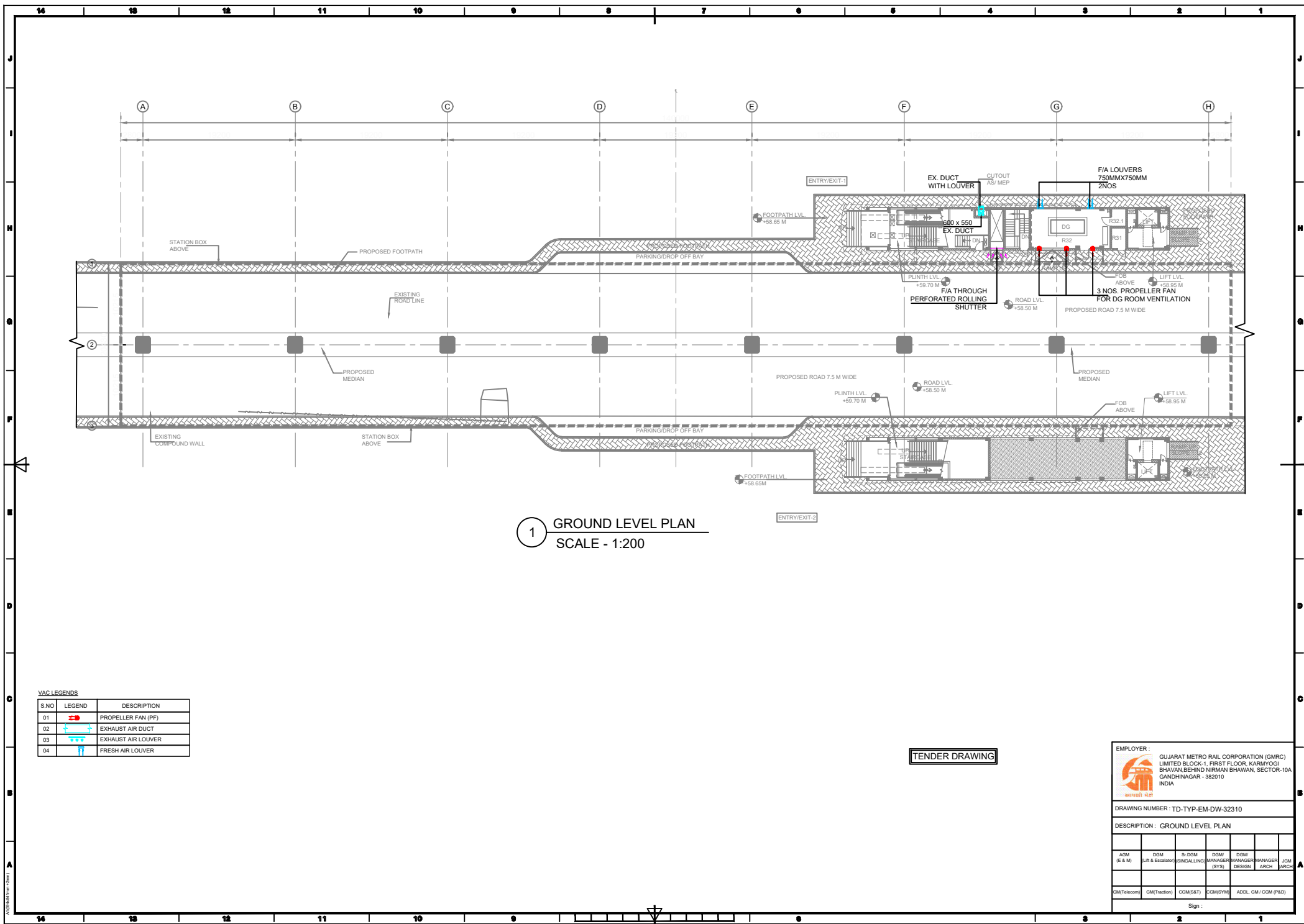
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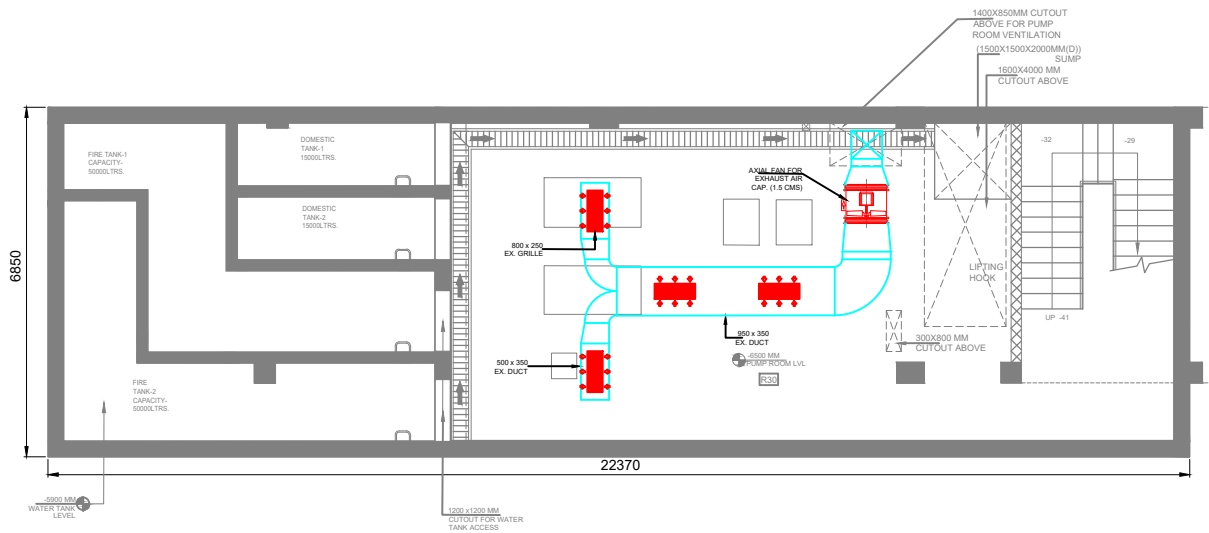
DESCRIPTION : CONCOURSE LEVEL PLAN

AGM (E & M)	DGM (Lift & Escalator)	Sr DGM SIGNALLING (S&T)	DGM MANAGER (S&T)	DGM MANAGER DESIGN	DGM MANAGER ARCH	JGM ARCH
GM(Telecom)	GM(Traction)	COM(S&T)	COM(S&T)	ADCL GM / CDM (P&D)		

Sign :







1 PUMP ROOM PLAN
SCALE - 1:50

VAC LEGENDS		
S.NO	LEGEND	DESCRIPTION
01		AXIAL FAN
02		PROPELLER FAN (PF)
03		EXHAUST AIR DUCT
04		EXHAUST AIR GRILLE

TENDER DRAWING

EMPLOYER :					
GUJARAT METRO RAIL CORPORATION (GMRC) LIMITED BLOCK-1, FIRST FLOOR, KARMYOGI BHAVAN, BEHIND NIRMAL BHAVAN, SECTOR-10A GANDHINAGAR - 382010 INDIA					
DRAWING NUMBER : TD-TYP-EM-DW-32312					
DESCRIPTION : PUMP ROOM LAYOUT					
AGM (E & M)	DGM (Lift & Escalator)	Sr DGM (SIGNALING)	DGM/ MANAGER (SYS)	DGM/ MANAGER (DESIGN)	DGM/ MANAGER (ARCH)
GM(Telecom)	GM(Traction)	COM(S&T)	COM(SYM)	ADDL. GM / CGM (P&D)	JCM (ARCH)
Sign :					