

No. MMRC/ML-3/Car Depot/PEB/Pre-Bid/22

October 11<sup>th</sup>, 2022

To

M/s. ....  
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**Sub :** Design, fabrication, supply and erection of Pre-Engineered steel buildings for stabling shed-2 and station platform shed at Aarey depot of Mumbai Metro Line-3 (Colaba-Bandra-SEEPZ) Project


**Ref :** Pre-bid meeting held on 07/10/2022

Sir/Madam,

Enclosed please find herewith minutes of the Pre-bid meeting along with Addendum No.1 & drawings.

2. You may please note that the minutes as also the Addendum No.1 & drawings shall form the part of Contract Document.

Yours faithfully,

  
(C. M. Jadhav)  
Executive Director (Civil)

**Encl: As Above (Total Pages: 8 No)**

**MUMBAI METRO RAIL CORPORATION LTD (MMRC)**

**Name of work :** Design, fabrication, supply and erection of Pre-Engineered steel buildings for stabling shed-2 and station platform shed at Aarey depot of Mumbai Metro Line-3 (Colaba-Bandra-SEEPZ) Project

**(Reply/Clarification of Bidder's queries)**

<b>Sr. No.</b>	<b>Vol.no. Page No.</b>	<b>Clause</b>	<b>Subject of clause</b>	<b>Description of clause</b>	<b>Bidder's queries</b>	<b>Response of Employer</b>
1	Vol.1 Page no. 6	1.1.2.e	Key details	Completion period : 12 months (Including monsoon)	Completion period of work is 12 months (Including monsoon period). We request to extend the completion of project time period to 18 months instead of 12 months	Tender conditions shall prevail
2	Vol.1 Page no. 7	1.1.4.1.vi.a	Qualification criteria/ Eligible applicants	Tenderers should not have been blacklisted or deregistered by the Central Government, State Government of Maharashtra, any PSU of Government of India or Government of Maharashtra or any public sector Metro Rail corporation in	We request you to implement the above clause as per the recent invited tenders of MMRDA i.e. bidder should not be blacklisted or debarred as on submission date.	Please refer Sr No.1 of addendum no.1

				India during the last 5 years. Also, the tenderer must not have failed to take possession or to commence any contract after the award of contract.		
3	Vol.1 Page no. 6	1.1.3	Online e-tender schedule	Bid submission Last date (Online) : 17/10/2022 at 18.00 Hrs	We humbly request you to kindly allow extension to the existing due date of bid submission till 15 <sup>th</sup> November 2022	Tender conditions shall prevail
4	Vol.4 Page No 44	Clause no 9.1.3.2 Live load Serial No. a,b,c	Loading	1) OHE Load= As per Design Criteria  2)Cable Tray Load= 150 kg/m applied at 4m height in columns  3) Signage load=100 kg	1. OHE drop arm loading details required with its arrangement diagram.  2. Cable tray load of 150 KG/M to be considered on all columns at 4 m height. Need to be confirmed.  3. Signage location to be confirmed in drawing.	1. Provided in drawing (Ref:Attach-1)  2. Cable tray load shall be taken as 150kg/m at 4m height.  3. Signage location shall be provided in detailed drawing at the time of execution. Other conditions remain same.

5	Vol.4 Page No 48	Clause no 9.1.6	Material Specification		1. Type of Purlin to be used. Whether it will be galvanized or painted?	ISMC purlins painted as per tender specification shall be used. Z purlins are not permitted.
6	Vol.5	Stabling Shed-2 GROUND FLOOR PLAN Drawing No- DEPOT- ARP-D05- 0001	Drawing		1. No. of Staircases, Cage ladder required for roof access and its location to be confirmed along with its technical specification.	3 Nos. of ladders without cage are required. These are of 600 mm width. (2 ladder on the rear end corner columns and 1 in the front middle column). Drawing attached for clarity (Ref: Attach-2)
7	Vol.5	AAREY DEPOT Station Platform shed	Drawing		1. No. of Staircases, Cage ladder required for roof access and its location to be confirmed along with its technical specification.	Not required, access shall be from the RCC building.
8	Vol.4 Page No.53	Clause E 1.16 & E 2.10 -	Interfaces between Depot PEB – Depot Civil/ Architectural finishes Contractor S. NO PEB- DCF-2		1. Grouting is under PEB Scope or Civil scope?	Grouting shall be in Depot Civil contractor's scope

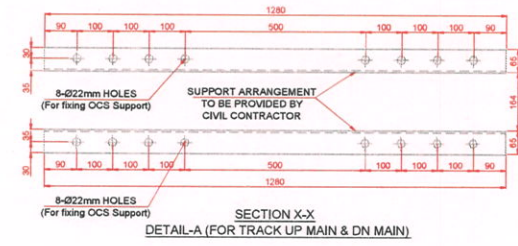
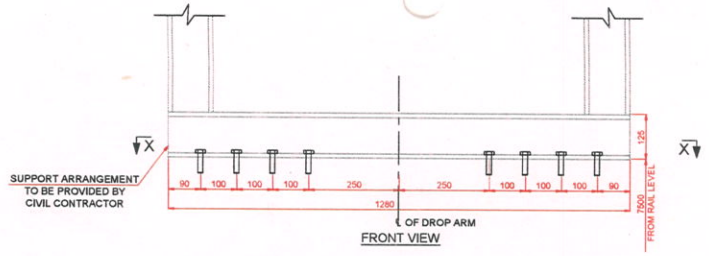
9	Vol.6	Preamble Sr. No-3	Bill of quantities	Base rate of Structural steel for Calculating Price Variation applicable for item no. 1, 5 as per SSR 21-22 = Rs. 54000/- Per MT. (Excluding GST)	1. It has been mentioned that price variation will be applicable for BOQ item no 1 & 5. Please confirm.	Please refer Sr No.2 of addendum no.1
10	Vol.4 Page no. 43	Annexure-C	Design criteria		1. Chapter-12 to be taken into consideration or not while designing the structure.	Chapter 12 of IS 800 shall be considered in design of PEB structure

MUMBAI METRO RAIL CORPORATION LTD (MMRC)

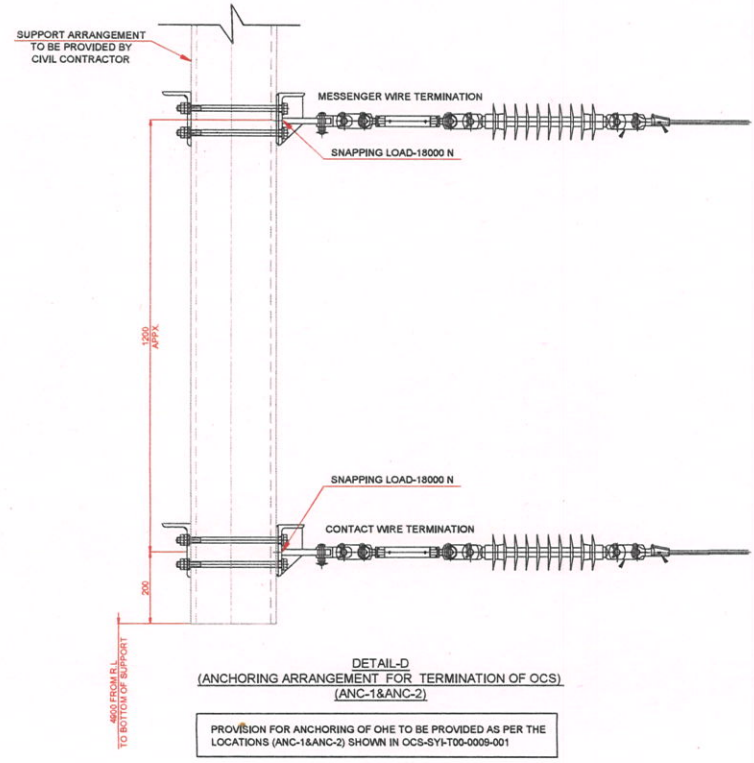
Name of work:- Design, fabrication, supply and erection of Pre-Engineered steel buildings for stabling shed-2 and station platform shed at Aarey depot of Mumbai Metro Line-3 (Colaba-Bandra-SEEPZ) Project

Addendum no. 1

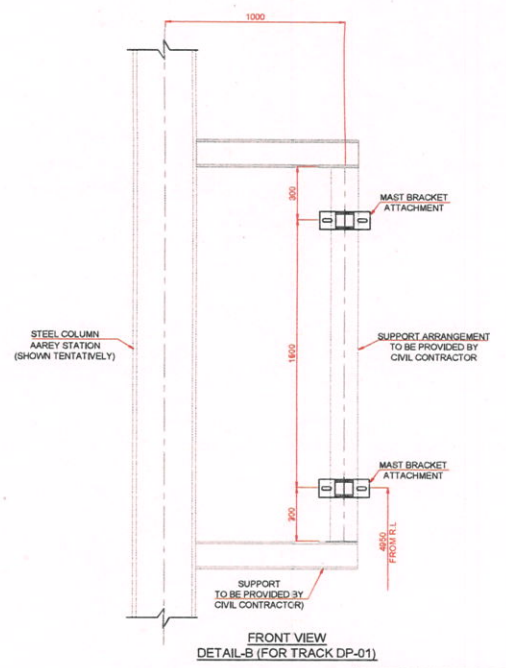
Sr.No.	Reference of clause & description	Existing clause	To be replaced as
1	Cl.1.1.4.1.vi. a, Vol.1, Page no. 7	Tenderers should not have been blacklisted or deregistered by the Central Government, State Government of Maharashtra, any PSU of Government of India or Government of Maharashtra or any public sector Metro Rail corporation in India during the last 5 years. Also, the tenderer must not have failed to take possession or to commence any contract after the award of contract.	Tenderers should not have been blacklisted or deregistered by any of the Central Government, State Government of Maharashtra, PSU of Government of India or Government of Maharashtra or public sector Metro Rail corporation in India as on the date of tender submission. Also, the tenderer must not have failed to take possession or to commence any contract after the award of contract.
2	Preamble Sr. No 3 of Vol. 6	Bill of Quantities comprises of scope of work under Item based contract as detailed in clause 2.1 of Employer's Requirement (Functional) – Volume 3. The tenderer has to quote %age above or below or at par for the items provided in BOQ. Payment will be made to the actual quantity of work executed at site. Base rate of Structural steel for Calculating Price Variation applicable for item no. 1, 5 as per SSR 21-22 = Rs. 54000/- Per MT. (Excluding GST)	Bill of Quantities comprises of scope of work under Item based contract as detailed in clause 2.1 of Employer's Requirement (Functional) – Volume 3. The tenderer has to quote %age above or below or at par for the items provided in BOQ. Payment will be made to the actual quantity of work executed at site.



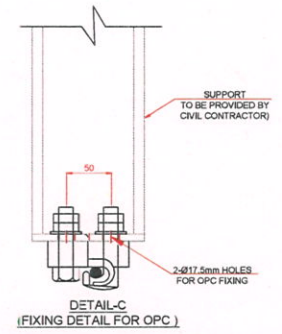
DETAIL-A TO BE PROVIDED FOR LOCATION NUMBERS LOC.41 TO LOC.51A AS SHOWN IN PLAN VIEW DRAWING NUMBER- OCS-SYI-T00-0009-001



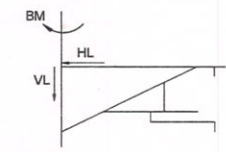
PROVISION FOR ANCHORING OF OHE TO BE PROVIDED AS PER THE LOCATIONS (ANC-1&ANC-2) SHOWN IN OCS-SYI-T00-0009-001



DETAIL-B TO BE PROVIDED FOR LOCATION NUMBERS 1070 TO 1077 AS SHOWN IN PLAN VIEW DRAWING NUMBER- OCS-SYI-T00-0009-001



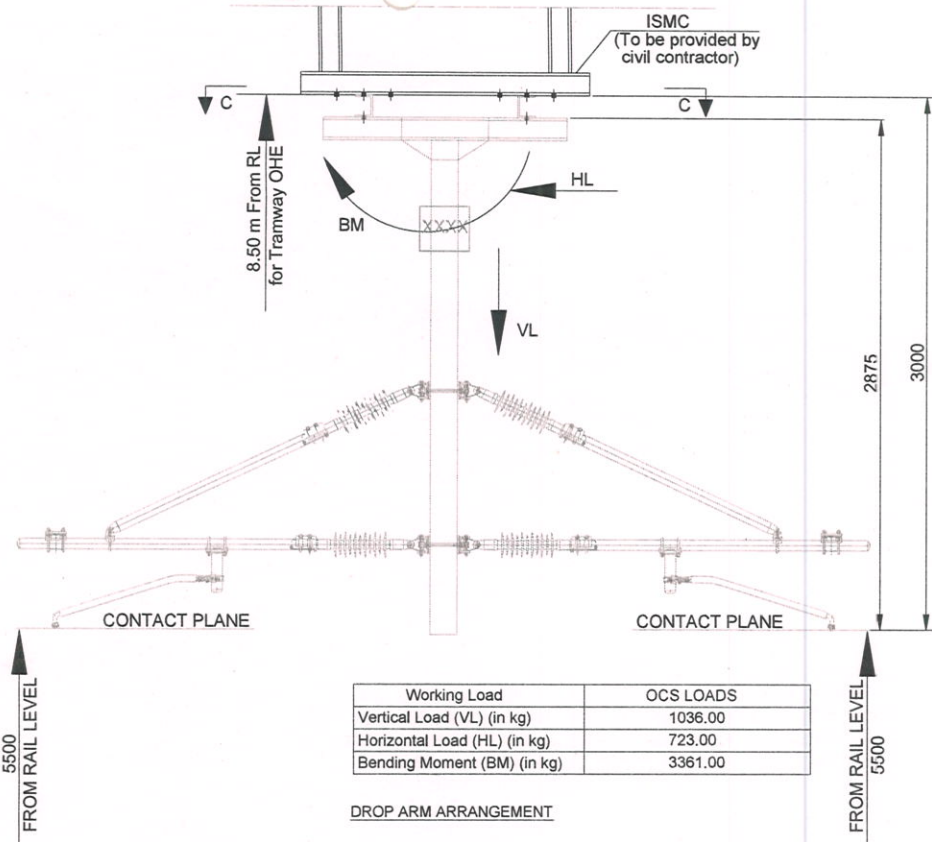
DETAIL-C TO BE PROVIDED FOR LOCATION NUMBERS OPC-1 TO OPC-17 AS SHOWN IN PLAN VIEW DRAWING NUMBER- OCS-SYI-T00-0009-001



Working Load (Without Factor of Safety)	OCS LOADS
Vertical Load (VL) with DA (in N)	4030.00
Horizontal Load (HL) (in N)	3285.00
Bending Moment (BM) (in Nm)	12263.00

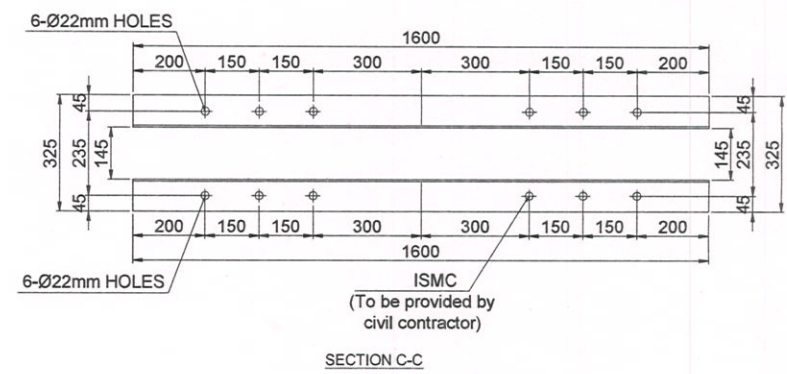
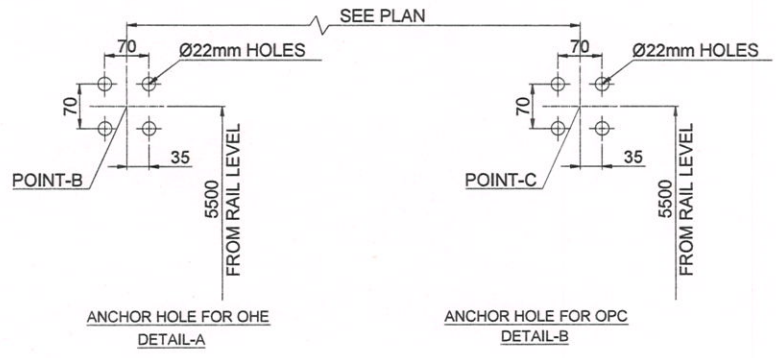
- NOTES:**
- All dimensions are in mm unless otherwise specified.
  - The loads mentioned in the table are working loads. Appropriate safety factor shall be considered by the depot civil contractor.
  - This drawing is prepared based on the inputs & verbal comments received from GC.
  - For locations detail A, B, C & D refer Alstom drawing, no. OCS-SYI-T00-0009 Sh 1 & 2

<p>Consortium Of Alstom Transport India Ltd &amp; Alstom Transport S.A</p>	NAME OF THE CONTRACTOR :		FOR GC	GENERAL CONSULTANT :	CLIENT NAME :	PROJECT NAME : COLABA-BANDRA-SEEPZ (MUMBAI METRO LINE 3)	SHEET 03	
			CHK. BY	MUMBAI METRO LINE - 3 GENERAL CONSULTANT		NAME OF THE CONTRACT : MM3-CBS-PST-002/2015	TOT. SH. 03	
			APP. BY			TITLE : 25KV FOCS ARRANGEMENT PLAN FOR AAREY STATION	REVISION -	
	REV.	DATE	DESCRIPTION	PREP. BY	CHK. BY	APP. BY	STATUS P	DWG. NO. : OCS-SYI-T00-0009-003



Working Load	OCS LOADS
Vertical Load (VL) (in kg)	1036.00
Horizontal Load (HL) (in kg)	723.00
Bending Moment (BM) (in kg)	3361.00

DROP ARM ARRANGEMENT



SECTION C-C

FOR INTERFACE ONLY

NOTES:

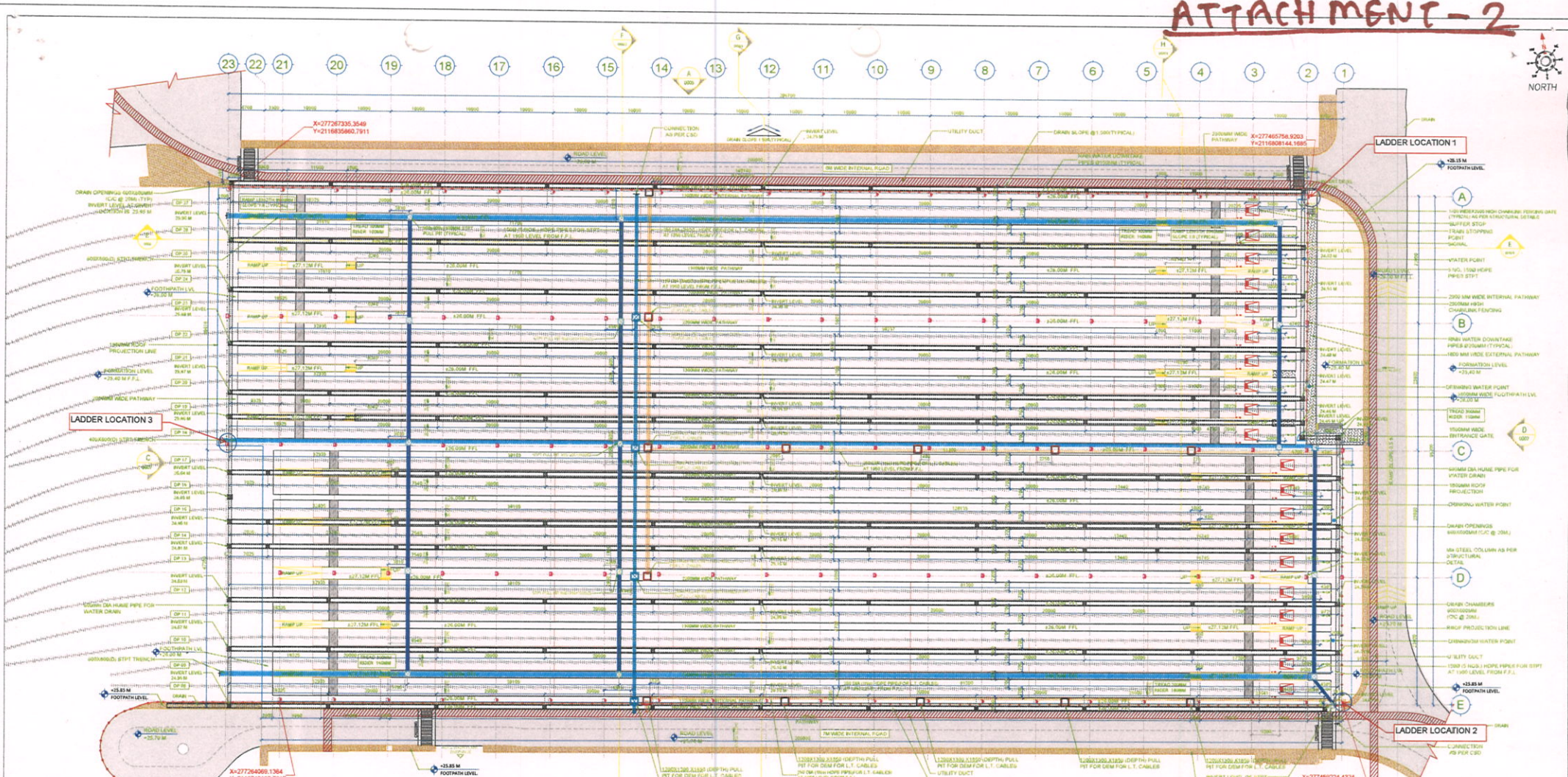
1. All dimensions are in mm unless otherwise specified.
2. This drawing is for discussion purposes "NOT GOOD FOR CONSTRUCTION"
3. The center of the beam for anchoring OCS should be at 5500mm from Rail Level.
4. The load at Point B and Point C is 2400Kgf and 800Kgf respectively.
5. The loads indicated in the table are working load without considering factor of safety.
6. The location may change if the track alignment changes.
7. Provision for stop board to be provided 5m before the buffer stock

Reference Drawings:

1. Alignment reference Drawing No: DEPOT-AAA-D00-0001 REV-A(AAREY DEPOT MASTER PLAN)
2. Stabling zone 1 reference Drawing: DEPOT-ARP-D04-0001 Rev-A
3. Stabling zone 2 reference Drawing: DEPOT-ARP-D05-0001 Rev-0

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	CHECKED BY :										TITLE : OCS SUPPORT AND TERMINATION ARRANGEMENT FOR STABLING SHED		TOT. SH. 02		
	APPROVED BY :										STATUS : P		DWG. NO. : OCS-SYL-T00-0011-002		REVISION
REV.	DATE	DESCRIPTION	PREP. BY	CHK. BY	APP. BY							SCALE : NTS			





**KEY PLAN**

REFERENCE DRAWINGS :- AREY DEPOT MASTER PLAN  
 DEPOT-MA-000-0001 (001 - 00-C)  
 MA3-CC-CSD-00-8-025-2001 (REV- R1-C)  
 STRUCTURAL - DEPOT-STR-003-001

**NOTES :-**

- CONTRACTOR TO STUDY DRAWING & REVERT BACK IN CASE OF ANY DISCREPANCIES BEFORE EXECUTION.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ARE FROM UNFINISHED TO UNFINISHED SURFACES UNLESS OTHERWISE SPECIFIED.
- DRAWING NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- DRAWING MUST BE READ IN CONJUNCTION WITH STRUCTURAL DRAWINGS.
- THE SIZES OF ALL THE STRUCTURAL MEMBERS TO BE REFERRED FROM DRAWINGS OF STRUCTURAL CONSULTANT.
- ALL CENTER LINE DIMENSIONS ARE WITH REFERENCE TO (C/L).
- THE LEVELS SPECIFIED IN ALL THE DRAWINGS ARE FINISHED FLOOR LEVELS UNLESS OTHERWISE SPECIFIED.
- MATERIALS AS PER DDD, FIXING DETAILS TO BE PROVIDED BY PEB CONTRACTOR.
- REFER PLUMBING DRAWING FOR DRAIN INVERT LEVEL.
- PROVISION SHOULD BE MADE FOR SOLAR PANEL AND WEIGHT SHALL BE CONSIDERED IN ROOF DESIGN.
- HANGING AND DROP ARM LOADS SHOULD BE CONSIDERED FOR PEB ROOF DESIGN, FOR LOADING REFER TECHNICAL SPECIFICATIONS.
- ACCESS LADDER SHALL BE PROVIDED FOR MAINTENANCE.

**GROUND FLOOR PLAN**  
 SCALE 1:350

**LEGEND**

	DRINKING WATER WATER POINT		ONE TERMINATION ARRANGEMENT
	BUFFER STOP		100 X 100 MM DRAIN OPENING WITH PRECAST REMOVABLE SLABS
	600 X 600 X 1400 PULL PIT FOR STEP		1200 X 1200 X 1400 PULL PIT FOR DEM FOR L.T. CABLES (TYP)
	1200 X 1200 X 1400 PULL PIT FOR DEM FOR L.V. CABLES (TYP)		300 DIA HUME PIPE FOR DRAIN WATER
	100 DIA HUME PIPE FOR L.T. CABLES AT 100 LEVEL FROM F.F.L.		100 DIA HUME PIPE FOR L.V. CABLES AT 100 LEVEL FROM F.F.L.

**LEGEND**

	100 X 100 MM TRENCH FOR STEP		DRAINAGE
	100 X 100 MM HUME PIPES FOR STEP AT 100 LEVEL FROM F.F.L.		FRAME STOPPING POINT
	150 MM DIA HUME PIPE FOR WATER DRAIN		150 MM DIA HUME PIPE FOR L.T. CABLES

## TENDER DRAWING



General Consultants :

Notification :  A  B  C

As noted in the DSR No. dated \_\_\_\_\_

A : Objection, A complete re-orientation is required.  
 B : No objection with comments.  
 C : Notice of No objection.

Rev.	Date	Drawn	Discipline Leader	Engineer
C	13.12.19	SB		
B	13.09.19	RD		
A	08.08.19	RD		
RD	05.04.19	RD		

Rev.	Date	Drawn	Discipline Leader	Engineer	Checked	Approved
C	13.12.19	SB			MV	SS
B	13.09.19	RD			MV	SS
A	08.08.19	RD			SS	AJ
RD	05.04.19	RD			AK	DC

IC / Detailed Design Consultant :

**PROJECT TITLE :** Mumbai Metro Line - 3  
 Detailed Design Consultancy and Construction for Depot of Underground MME - 3

Scale : 1:350  
 Drawn : SB  
 Date : 13.12.2019

**MUMBAI METRO RAIL CORPORATION LTD.**  
 Naraina Building, Plot No. R-13 'C' Block,  
 Bandra Kurla Complex, Bandra (East), Mumbai 400051.

**Drawing Title :**  
 MUMBAI METRO LINE-III AREY DEPOT  
 COVERED STABILING SHED 2  
 GROUND FLOOR PLAN

Drawing No. : DEPOT-ARR-D05-0001  
 Rev. C  
 DWG Status W

P=Preliminary, D=Definitive, C=Construction Reference, W=Working Drawing  
 CAD File Name : DEPOT-ARR-D05-0001.dwg