

CONTRACT: DMRC/MU/LINE-6/BC-06: “Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project”.

DELHI METRO RAIL CORPORATION LTD.

CONTRACT NO: BC-06

SUMMARY SHEET

(ADDENDUMNO-1)

Sl. No.	Tender Document	Clause No./ Item No.	Page- No.	Addendum / Corrigendum	Remarks
1	Volume 1 - NIT	Clause No.1.1.2 – Key details	2-4	Date of sale of tender and submission of tender modified	Revised Page No. is 2R-4R
2	Volume 1 - NIT	Clause No.1.1.3.2 - Minimum eligibility criteria	11	Clause modified	Revised Page No. is 11R
3	Volume 2 - SCC	Clause No.23 - 30	1,2 & 15 -18	Index Modified. Sl. No. changed & Clauses added & deleted. <u>For Clause No. 28 & Sub-Clause4.2</u> SCC clause has been deleted.TheGCCclause4.2 along with correction slip and other details shall prevail.	Revised Page No. is 1R, 2R & 15R-18R
4	Volume 3 - Employer's requirements (Functional)	Clause No.2.2.16, 2.10 & 2.12	8 & 20		Revised Page No. is 8R & 20R
5	Volume 3 - Employer's requirements (Construction)	Clause 10 (1), 14 (7), 14 (8), 14 (9) & 15	11&17	Deleted Clause No.15 modified	Revised Page No. is 11R & 17R
6	Volume 3 - Employer's requirements (Appendices)	Appendix 2D Appendix 11	8 & 35	Deleted	Revised Page No. is 8R & 35R
7		Appendix 14	58-60	Modified	Revised Page No. 58R – 60R
8	Volume 4 – Technical Specification	Head 12.0	85	Note added – Manufacture’s list referred for façade works.	Revised Page No. is 85R
9	Volume 5 – Tender Drawings	-	-	08 Nos. new drawings added	Revised drawing index sheet enclosed.
10		Item No. 6.3 of Sub-Sch. A1	-	Item Description Modified	
11	Volume 6 – Bill of Quantities	Summary of Sch. B	-	Modified	
12		Sub-Sch. B2 & B3	-	Final sheet has been modified	
13	Pre-bid Clarification	Clarifications to Pre-bid queries has been added along with this Addendum-1			

NOTICE INVITING TENDER (NIT) (e-Tender)

1.1 GENERAL

1.1.1 Name of Work:

Delhi Metro Rail Corporation Ltd. (DMRC) invites online open e-tenders from eligible applicants, who fulfill qualification criteria as stipulated in Clause 1.1.3 of NIT, for the work **Contract DMRC/MU/LINE-6/BC-06: “Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR &Shyam Nagar of Mumbai Metro Line 06 Project”.**

The brief scope of the work is provided in Clause A1 of ITT (Volume-1) and Employer’s Requirement – Functional(Volume-3).

Note:

- (i) This is a MMRDA funded work. As per the MOU signed between DMRC and MMRDA, this work is being executed by DMRC on deposit work basis wherein there is provision of Closure of Contracts and Taking Over which is reproduced as below, “Accordingly, Tenderer shall ensure due closure of this Contract for execution of works with DMRC. Tenderer shall ensure that all risks, rewards and claims associated with this contract are settled before closure of this contract. Tenderer to note above while submitting bid with DMRC. However, if this closure is not possible within one year of Revenue Operation Date (ROD) due to arbitration etc., the further management of this contract will be handled by **MMRDA**.”

- (ii) There are three Contract Packages for Architectural finishing works of 13 stations of Line 6, Swami Samarth Nagar to Vikhroli (EEH) corridor of Mumbai Metro Rail Project viz. **DMRC/MU/LINE6/BC/04, DMRC/MU/LINE6/BC/05 & DMRC/MU/LINE6/BC/06** tendering processes for which are running concurrently. Tenderers must note that only 2 (Two) out of these 3 (three) contract packages will be awarded to a contractor either in individual capacity or to a joint venture / consortium in which they are member(s) while they can participate in all three Contract packages. Tenders are cautioned that this condition will be applicable even if some member(s) of the JV/consortium are different in respective tenders.

Tenders for these three contract packages would be awarded in order of random sequence i.e. any tender package would come up for finalization earlier than the other, but the financial package of the party who is lowest in two contract packages or in whose favour the Employer has finalized two Contract Packages out of the three Contract Packages, would not be opened in the remaining contract packages.

1.1.2 Key details:

Approximate cost of work	INR 123.58 Crores (inclusive of all taxes)
Tender Security	INR 61.79 Lakhs. Validity of Tender Security in case of BG & FDR: 21.03.2024. Tender Security in case of BG, FDR, Demand Draft, Banker's Cheque (in original) as per clause C18 of ITT shall be accepted only up to 1500 hrs on 09.10.2023 26.10.2023 in the office of Sr. General Manager/Contracts at the address mentioned

	<p>hereinafter.</p> <p>In case of RTGS/NEFT & IMPS transactions, bidders shall require to upload the scanned copies of transaction of payment (clearly indicating tender number i.e. BC-06 in the remarks or description column) of tender security / EMD at the time of online bid submission. The detail of bank account of DMRC is mentioned below this table.</p> <p>Note: Bidders to note that the payment of tender security shall be made from the account of bidder only. However, in case of JV/ Consortium, the tender security can either be paid from JV/Consortium account or one of the constituent member of JV/Consortium.</p> <p>If tender security has been made from other than the account mentioned above, same shall not be accepted and all such bids shall be considered ineligible and summarily rejected.</p> <p>For further details, clause C18 of ITT may be referred.</p>
Completion period of the Work	24 (Twenty Four months)
Tender documents on sale	<p>From 29.08.2023 (from 0900 hrs) to 09.10.2023 26.10.2023 (up to 1500hrs) on e-tendering website https://eprocure.gov.in/eprocure/app.</p> <p>Tender document can only be obtained online after registration of tenderer on the website https://eprocure.gov.in/eprocure/app. For further information in this regard bidders are advised to contact on 0120-4200462, 0120-4001002/5, 0120-6277 787 or 011-23417910/12.</p>
Cost of Tender documents	<p>INR 23,600/- (inclusive of 18% GST) Non-Refundable (Payment of tender document cost/ tender fee is to be made only by RTGS, NEFT & IMPS. No other mode of payment will be accepted. The details of bank account of DMRC are mentioned below. The bidders are required to upload scanned copies of transaction of payment of tender document cost/tender fee including e-receipt (clearly indicating UTR No. & tender reference i.e. BC-06 must be entered in the remarks at the time of online transaction of payment, failing which payment may not be considered) at the time of online bid submission).</p> <p>(Copy of GST registration no. to be provided along with Tender document cost/ tender fee)</p>
Last date of Seeking Clarifications	<p>12.09.2023 upto 1700 hrs.</p> <p>Bidders to note that seeking clarification on the tender shall be done by sending it either on registered official email id of DMRC i.e. gmcontracts@dmrc.org or on e-tendering portal only. Seeking clarification by fax or post will not be considered.</p> <p>Queries/clarifications from bidders after due date and time shall not be acknowledged.</p>
Pre-bid Meeting	20.09.2023 at 1100 hrs.

	The pre-bid meeting shall be conducted through video conferencing by software apps such as Cisco Webex, Microsoft Team, etc. All Prospective bidders shall provide the details of the person(s) (maximum up to two) who will be participating in such virtual meeting at least one day before the meeting (latest by 1100 hrs on 25.09.2023) to the registered official email of DMRC i.e. gmcontracts@dmrc.org , so that links having details such as software, meeting ID, password etc. can be mailed to these persons at least 12 hours before the scheduled pre-bid meeting.
Last date of issuing addendum (if any)	29.09.2023 16.10.2023
Date & time of Submission of Tender online	Tender submission start date: 03.10.2023 18.10.2023 (0900hrs). Tender submission end date: 09.10.2023 26.10.2023 (1500 hrs).
Date & time of opening of Tender online	10.10.2023 27.10.2023 at 1500 hrs.
Authority for purchase of tender documents (in case of physical tenders), seeking clarifications and submission of completed tender documents	Sr.GM/Contract, Delhi Metro Rail Corporation, 5 th floor, A-Wing, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi –110 001 email id: - gmcontracts@dmrc.org

To facilitate payment of Tender Fee & Tender Security through RTGS, NEFT & IMPS, the details of bank account of DMRC is mentioned below:

Name of Bank	Bank's Address	Account Name & No.	Account Type	IFSC code
ICICI Bank	9A, Phelps Building, Connaught Place, New Delhi-110001	DMRC Ltd. Tender Cell A/C, 000705045337	Current	ICIC0000007

1.1.3 QUALIFICATION CRITERIA:

1.1.3.1 Eligible Applicants:

- i. The tenders for this contract will be considered only from those tenderers (proprietorship firms, partnerships firms, companies, corporations, consortia or joint ventures) who meet requisite eligibility criteria prescribed in the sub-clauses of Clause 1.1.3 of NIT. In the case of a JV or Consortium, all members of the Group shall be jointly and severally liable for the performance of whole contract. Also, each member shall be individually responsible for its duties as specified in the MOU/JV agreement submitted by the bidder in terms of clause 1.1.3.1 vii (d). Performance of each JV/Consortium partner shall also be judged on quarterly basis. In case, the performance of the partner(s) is not found satisfactory, actions as deemed appropriate by the Employer may be taken including termination of contract or termination of any of JV/Consortium member(s) from the contract i.e. Part Termination of the contract. In case of part termination of contract, the Performance Security(ies) submitted by the member(s) for their portion of work in contract as per their share in JV/Consortium shall be forfeited and the scope of the work/duties assigned to the defaulting JV/Consortium member(s) as per the MOU/agreement submitted, may be terminated, however, same may be done by the Employer only if other member(s) of JV/Consortium are ready to complete the entire scope of work. In such a case, remaining works pertaining to the scope of defaulting member of JV, may be completed by other member(s) of JV in the following manner:

"Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

- (ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- (iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- (iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- (v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

"Agent" is a person employed to do any act for another, or to represent another in dealings with third persons.

1.1.3.2 Minimum Eligibility Criteria:

- A. Work Experience: The tenderers will be qualified only if they have successfully completed or substantially completed similar works during last seven year sending last day of the month previous to the month of tender submission as given below:
 - (i) At least one "similar work"* of value of INR 98.87crores or more.
OR
 - (ii) Two "similar works"*each of value of INR 61.79crores or more.
OR
 - (iii) Three "similar works"*each of value of INR 49.43croresormore.

*The "Similar works" for this contract shall be "**Architectural finishing works or complete Civil & Architectural finishing (Internal / External) of Metro Station/ Depot/ any Building (which may include stone work, façade, footpath, internal roads & plumbing works etc.) and Pre-Engineered Building (PEB) works**, wherein the value of Pre-Engineered Building (PEB) works **must be Rs.18.61Crores** or more in any one work." In case, the similar work as specified above does not include "Pre-Engineered Building (PEB) works", then bidder has to submit one separate **Pre-Engineered Building (PEB) work of value Rs.18.61 Crores** or more executed by them in any other single contract.

Further, in case the bidder submits the composite work including Civil and architectural finishing(which may include stone work, façade, footpath, internal roads & plumbing works etc.) then the **minimum value of Architectural finishing in one each work shall be Rs. 49.43 crores or more.**

Further, in case the bidder does not have required work experience of "Pre-Engineered Building (PEB) works" of value of **Rs.18.61 Crores** or more in a single work and intends to engage a sub-contractor for this work, the sub-contractor must have executed work of "Pre-Engineered Building (PEB) works" of value of **Rs.18.61 Crores** or more in a single work. **Bidder shall submit an undertaking in this regard along with their technical bid.**

- If the tenderer is a JV/Consortium having foreign partner(s) and above work(s) have been executed by the foreign partner of JV and the work(s) were done in the country of the foreign partner, then in addition to this the foreign partner must have executed works (which need not be similar in nature) of total put together of value INR **49.43 crores** or more outside the country of the foreign partner.

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(i) any new tax which is imposed on Composite Works Contracts applicable on Metro Project.

(ii) Change in the rate of GST on Composite Works Contracts applicable on Metro Project as per GST Act.

(b) The Contract Price shall be adjusted due to any of the above two conditions. Adjustment in Contract Price will be applicable up to the stipulated date of completion of the Work including the extended period of completion where such extension has been granted under Sub-Clause 8.4.1 of GCC or it is specifically mentioned that extension is with adjustment for changes as stated above.

(c) If the extension of contract period is on account of contractor's fault under Sub-Clause 8.4.3 of GCC, no compensation shall be made towards upward revision towards "Change in Taxes and Duty" as mentioned at Sl. No. (a) (i) & (ii) above. Any benefit on account of downward revision towards "Change in Taxes and Duty" as mentioned at Sl. No. (a) (i) & (ii) above, during the original contract period or extended contract period shall be on employer's account.

(d) Any other changes (except on account of Clause (a)(i) & (ii) above) in existing taxes/new taxes on supply of materials/services/works etc. will not be considered and its impact shall be considered covered in the Price Variation Clause provided in the Contract and in Contract where Price Variation Clause is not provided, the impact on any other change (except on account of Clause (a)(i) & (ii) above) in existing taxes/new taxes on supply of materials/services/works etc. will be deemed to be included in the quoted contract price

(e) Also, the Contract price shall not be adjusted on account of fluctuations in the rates of exchange between the foreign currencies of the Contract and Indian Rupees from the last date of submission of tender.

22. Sub-Clause 11.2.1

Mobilisation Advance:

Payment shall be paid in two equal instalments and second instalment shall be paid on production of effective and proper utilization of the first instalment.

23. Sub-Clause 11.2.2

Advance against Plant & Machinery

No advance against Plant & Machinery

23 24 Sub-Clause 12.0

Variations

Day work

For payment of extra items, the Engineer may decide to pay on the basis of 'Day Work' concept instead of paying as per clause no. 12.5 of GCC. In such a case the Engineer may, if in his opinion it is necessary or desirable issue an instruction that any varied work or new item of work shall be executed on a day work basis. The Contractor shall be then paid for such item based on the actual expenditure made on daily basis under the terms set out in day work schedule included in the Contract and at the rates and prices affixed by him in the tender.

The Contractor shall furnish such receipts or other vouchers as may be necessary to prove the amounts paid and before ordering Materials shall submit to the Engineer the quotations for the same for his approval The Contractor shall furnish to the Engineer or his representative, a daily list (with name, occupation and shift time) of all workmen deployed on the

work, in duplicate for checking and approval. The Contractor shall submit to the Engineer a priced statement of labour, material, plant, etc., actually used on the work, together with the output of work at the end of each calendar month and / or as soon as the work is completed. The payment for the new item of work will be certified by the Engineer based on this submission of contractor.

24-25 Sub-Clause 12.3

"Employer's Variation" means a change in the Employer's Requirements which makes necessary alteration or modification of the Design, quality or scope of Works as described by or referred to in the Employer's Requirements. Changes to any sequence, method or timing of construction, manufacture or installation and changes to any part of the Site or the Works Areas or access thereto will not constitute Employer's Variation.

An Employer's Variation shall be requested and implemented in accordance with and subject to the following provisions:

(a) Within 14 days (or such other period as the Engineer may allow) of the Engineer informing the Contractor in writing of the intention to request an Employer's Variation, the Contractor shall notify the Engineer in writing whether in his opinion the Employer's Variation would, if ordered:

- (i) give rise to any entitlement to an extension of time; or
- (ii) affect the achievement of any Milestone; or
- (iii) give rise to any entitlement to additional payment; or

(iv) affect the warranties of the Contractor set out in Clause 3 of Special Conditions of Contract, and shall submit his proposals as to the terms upon which he would agree to implement the Employer's Variation.

(b) The Engineer shall determine the amount which should be added to or deducted from the fixed lump sum price as a result of the Variation and get it approved by the Employer. In assessing work covered by any sub-contract, the Engineer will have, where he deems necessary, access to the original sub-contract conditions, rates, prices and details of the variation claimed, to assist in evaluating any Variations and the agreed rates if any of major items of work/ activities, labour, plant and machinery and where appropriate the local market rates for these items.

(c) If the Engineer withdraws the request for an Employer's Variation, the Contractor shall have no claim of any kind whatsoever arising out of the amount determined above. In case the Employer's Variation involves omission of part of the Works, the agreement shall address the issue of reduction in the Contract Price.

There shall be only deductions in the fixed lump price as a result of Contractor's variations. The Engineer shall take prior approval of the Employer to the aforesaid valuation. Any such amount determined by the Engineer shall be denominated in the same currency as the relevant parts of the fixed lump sum price.

In case of any variation, once the rates have been finalised by the Engineer and approved by the Employer, the contractor shall be bound to carry out with the same. No claims shall be entertained by the Employer in this regard.

25-26 Clause 15

Insurance

The guidelines regarding compliances of insurance policies shall be as follows:-

- i. First Running on Account Bill and Advances such as mobilization advance, plant & machinery advance, material advance etc. shall not be released unless Contractor has taken all insurance policies in terms of clause 15 of GCC & Appendix-1 of FOT. If any, initial lapse period is observed in insurance policies submitted by the Contractor, recovery shall be made 1.5 times the premium amount worked out on pro-rata basis.
- ii. It shall also be ensured that premium for the insurance taken by the Contractor are regularly paid by the Contractor before releasing subsequent Running on Account Bill. If any, lapse period is observed in between the validity of insurance policies submitted by the Contractor, recovery shall be made 1.5 times the premium amount worked out on pro-rata basis.
- iii. Final on Account Bill shall be released to the Contractor after ensuring the validity of all insurance policies upto or beyond the required validity in terms of clause 15 of GCC.

26 27 Sub-Clause 17.9

Arbitration

Sub-Clause 17.9 b)

"The Arbitration proceedings shall be assumed to have commenced from the day, a written and valid demand for arbitration is received by Sr.GM/Contracts on behalf of MD/DMRC" at following address:

Office of Sr.GM/Contracts,

Delhi Metro Rail Corporation Ltd.

5th Floor, A-Wing, Metro Bhawan,

Fire Brigade Lane, Barakhamba Road, New Delhi – 110001

Tel: 011-23415838

Sub-Clause 17.9.2 i)

In case of Sole Arbitration: Within 60 days from the day when a written and valid demand for arbitration is received by Sr.GM/Contracts on behalf of MD/DMRC, the Employer will forward a panel of 03 names to the Contractor.

Sub-Clause 17.9.2(ii)(a)

Within 60 days from the day when a written and valid demand for arbitration is received by Sr.GM/Contracts on behalf of MD/DMRC, the Employer will forward a panel of 05 names to the Contractor.

27 28 Sub-Clause 6.1

Engagement of Staff & Labour - - DELETED

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28- 29 Sub-Clause 4.2 Performance Security Amount - DELETED

Sub-Clause 4.2.3 DELETED

30 Sub-Clause 4.20 (ii) Employer’s materials & excavated materials

Clause 4.20 (ii) of GCC is replaced in to the following clause:

The contractor shall dispose off/sell/remove sand, stone, clay, ballast, earth, rock or other materials obtained from the work site and these shall be the property of the contractor. All costs including taxes, duties, levies, royalties, octroi etc required for the purpose shall be borne by the contractor. Nothing shall be paid extra by the employer on this account. No separate land for dumping yard shall be provided.

Charge. Illumination of these barricades/ areas including adjacent road along barricade is included in the quoted price.

2.2.16 **DELETED**

2.2.17 The Contractor shall make the detailed traffic diversion plans in consultation with Traffic Police deptt. The work is to be executed with proper liaisoning with traffic police. Necessary assistance will be given by DMRC.

Any other item of work as may be required to be carried out for completing the construction of structure including all necessary interfaces works with station and system Contractors in all respects in accordance with the provisions of the Contract and/or to ensure the structural stability and safety during and after construction.

2.2.18 For stations located over road, temporary arrangement is to be made for providing working platform at suitable height so that traffic run below it unhindered and safety of road user and use of sufficient cherry pickers for carrying out the work shall also be ensured. This arrangement shall be maintained till completion of work. The working platform has to be covered with suitable material so that nothing falls on the road. A detailed scheme is to be submitted for approval before start of work. The provision of same is covered in the quoted price.

2.2.19 Necessary provisions for Inserts/bolts/Supports/Hangers for system wide contractors shall be ensured. These shall be finalized and provided in co-ordination with the system wide Contractor and as per the direction of Engineer-in-charge. The necessary coordination with system wide contractors, Civil Contractors and engineer shall form a part of the work.

2.2.20 Any other item of work as may be required to be carried out for completing the construction activity including all necessary interfaces works with system-wide Contractors in all respects in accordance with the provisions of the Contract and/or to ensure the structural stability and safety during and after construction Works to be performed shall also include all general works, preparatory works of any kind necessary for satisfactory construction, completion and maintenance of the works to the intent and meaning of the drawings adopted and Outline Construction Specifications for Civil Works, to best Engineering standards and orders that may be issued by the Engineer from time to time, compliance by the agency with all Conditions of Contract, supply of all materials, apparatus, plants, equipment, tools, fuel, water, shoring, strutting, timbering, dewatering, transport, offices, stores, workshop, staff, labour and the provision of proper and sufficient protective works, diversion, temporary fencing, lighting and watching required for the safety of the public and protection of works on adjoining land; first –aid equipment, sanitary accommodation for the staff and workmen, effecting and maintenance of all insurances, the payment of all wages, salaries, fees, royalties, duties or the other charges arising out of the execution of works and the regular clearance of rubbish, clearing up, leaving the site perfect and tidy on completion. All the compliances are covered under quoted price.

2.3 **INTERFACE CO-ORDINATION RESPONSIBILITIES OF STATION ARCHITECTURAL FINISHES WORK CONTRACTOR SHALL INCLUDE THE FOLLOWING BUT NOT LIMITED TO:**

- Station Architectural Finishes Work Contractor shall establish a dedicated co-ordination team, led by an Interface Manager permanently stationed in Mumbai

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protection of works on adjoining land; first-aid equipment, sanitary accommodation for the staff and workmen, effecting and maintenance of all insurances, the payment of all wages, salaries, fees, royalties, duties or the other charges arising out of the erection of works and the regular clearance of rubbish, clearing up, leaving the site perfect and tidy on completion.

2.9 UTILITY WORKS- DELETED

2.10 WORK AREA & DUMPING AREA

Contractor shall use his own premises / workshop for Granite cutting, Stacking yard fabrication of structural steel work as required for the contract at his own cost.

C&D Waste generated from construction sites during construction to be transported to any other identified area or any processing plant ~~only from the site/~~ identified area as per direction of Engineer-in-charge and cost of the same is also included in quoted price.

2.11 PRELIMINARY DRAWINGS

Conceptual Architectural drawings of PEB structure for elevated stations are part of the tender. Detailed structural and architectural drawings including shop drawings will be submitted by the Contractor based on approval of structural and architectural drawings by DMRC.

2.12 SITE ESTABLISHMENT DELETED

2.11 TIME SCHEDULE & MONITORING OF PROGRESS

- (i) The agency shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall completion period of **24 Months**. The detailed programme in the form of a quantified bar chart or CPM network shall include all activities starting from design to completion.
- (ii) In compiling its Works Programme and in all subsequent updating and reporting, the Contractor shall make provision for the time required for coordinating and completing the design, testing, commissioning and integrated testing of the Works, including, inter alia, design co-ordination periods during which the Contractor shall co-ordinate its design with those of Designated Contractors, the review procedures, determining and complying with the requirements of all Government Departments and all others whose consent, permissions, authority or license is required prior to the execution of any work.
- (iii) The Contractor shall submit to the Engineer Four copies of a Monthly Progress Report (MPR), describing the progress and current status of the Works. The MPR shall address the matters set out in the Works Programme.
- (iv) The MPR shall be submitted by the end of each calendar month. It shall account for all works actually performed from twenty sixth day of the last month and up to twenty fifth day of the current month.
- (v) A monthly / biweekly / weekly meeting to monitor the progress of the project shall be convened by the Engineer, Contractor’s site agent and site agent of all interfacing

- Landscaping
- Traffic Lights and Control Cable
- Road painting

10. SITE ESTABLISHMENT

SITE LABORATORIES

- (1) **DELETED**

CONTRACTOR'S SITE ACCOMMODATION

- (2) The Contractor shall provide and maintain its own site accommodation at locations consented to by the Engineer. Offices, sheds, stores, mess rooms, garages, workshops, latrines and other accommodation on the Site shall be maintained in a clean, stable and secure condition. Living accommodation shall not be provided on the Site. The Contractor shall comply with the requirements of **Appendix 8** to the Employer's Requirements.

LATRINES AND WASHPLACES

- (3) The Contractor shall provide latrines and wash places for the use of its personnel and all persons who will be on the Site. The size and disposition of latrines and wash places shall accord with the numbers and dispositions of persons entitled to be on the Site, which may necessitate their location on structures and, where necessary there shall be separate facilities for males and females. The capacities and layout shall be subject to approval of the Engineer. The Contractor shall arrange regular disposal of effluent and sludge in a manner that shall be in accordance with local laws/regulations.
- (4) The Contractor shall be responsible for maintaining all latrines and wash places on the Site in a clean and sanitary condition and for ensuring that they do not pose a nuisance or a health threat. The Contractor shall also take such steps and make such provisions as may be necessary or directed by the Engineer to ensure that vermin, mosquito breeding etc. are at all times controlled.

SITE UTILITIES AND ACCESS

- (5) (a) The Contractor shall be responsible for providing water, electricity, telephone, sewerage and drainage facilities for contractors site offices, structures and buildings and for all site laboratories in accordance with **Appendix 11** to these Employer's Requirements and all such services that are necessary for satisfactory performance of the Works. The Contractor shall make all arrangements with and obtain the necessary approval from the relevant civil and utility authorities for the facilities.
- (b) The contractor shall be responsible for provision of power supply for his works including for launching girder and the like .The Employer cannot guaranty provision of adequate, continuous power supply however assistance will be given in obtaining the necessary permissions for site generators and the like.
- (6) Access roads and parking areas shall be provided within the Site as required and shall be maintained in a clean, acceptable and stable condition. For lengths of roadway longer than

requirements.

- (5) Samples of materials submitted to the Engineer for information or consent shall be kept on the Site and shall not be returned to the Contractor or used in the Permanent Works unless permitted by the Engineer. The samples shall be used as a mean of comparison which the Engineer shall use to determine the quality of the materials subsequently delivered. Materials delivered to the Site for use in the Permanent Works shall be of the same or better quality as the samples which have received consent.

PROVISION AND DISPOSAL OF EARTHWORKS MATERIAL

- (6) The Contractor shall be responsible for the provision of all classes of earthworks material required for the Works, whether sourced from the excavations within the Contract or obtained from any other sources, which are located outside the Site, for which the Engineer has given the consent.

- (7) **DELETED**

- (8) **DELETED**

- (9) **DELETED**

15. RESTORATION OF AREAS DISTURBED BY CONSTRUCTION.

Unless otherwise directed by the Engineer, any areas disturbed by the construction activity, either inside or outside the Project Right of Way, shall be reinstated as follows:

All areas affected by the construction work shall be reinstated to their original condition, with new materials of similar specification, including but not necessarily limited to, sidewalks, parking lots, access roads, adjacent roads properties and landscaping. Grass cover shall be provided for any bare earth surface areas, along with proper provisions for surface drainage. **Payment for the same shall be given under relevant BoQ item.**

CONTRACT: DMRC/MU/LINE-6/BC-06: “Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project”.

EMPLOYER’S REQUIREMENT

APPENDIX 2D

DELETED

CONTRACT: DMRC/MU/LINE-6/BC-06: "Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project".

EMPLOYER'S REQUIREMENTS

APPENDIX 11

DELETED

EMPLOYER'S REQUIREMENT

APPENDIX 14

ATTACHMENT A

CONTRACTOR'S LABOUR CAMP

1. EMPLOYER NOT TO PROVIDE QUARTERS FOR CONTRACTOR'S LABOUR

The Employer will not provide living accommodation for the use of the Contractor or any of his staff or labour employed on the Works.

2. PROVISION OF LABOUR CAMP

The Contractor, shall, at his own expense, make adequate arrangements for the housing, supply of drinking water and provision of bathrooms, latrines, and urinals, with adequate water supply, for his staff and workmen directly or through sub-contractors employed on the Works at the location authorised by Engineer.

The Contractor at his own cost shall maintain all campsites in a clean and sanitary condition. The Contractor shall obey all health and sanitary rules and regulations and carry out at his cost all health and sanitary measures that may from time to time be prescribed by the Local/ Medical Authorities and permit inspection of all health and sanitary arrangements at all times by the Employer, Engineer and the staff of the local municipality or other authorities concerned. Should the Contractor fail to provide adequate health and sanitary arrangements these shall be provided by the Employer and the cost recovered from the Contractor.

The Contractor shall at his own cost, provide First Aid and Medical facilities at the Labour Camp and at work sites on the advice of the Medical Authority in relation to the strength of the Contractor's staff and workmen, employed directly or through sub-contractors.

The Contractor shall at his own cost, provide the following minimum requirements for fire precautions:

- Portable Fire Extinguishers.
- Manual Fire Alarms.
- Water Supply for use by the Fire Service.

The Contractor at his own cost shall provide necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers. He should also ensure that electrical installations are done by Trained Electricians. These installations shall be maintained, and daily maintenance records must be made available for inspection of the Engineer.

3. CAMP DISCIPLINE

The Contractor shall take requisite precautions and use his best endeavours to prevent any riotous or unlawful behavior by or amongst his workmen, and others, employed directly or through sub-contractors. These precautions shall be for the preservation of the peace and protection of the inhabitants and security property in the neighborhood of the Works. In the event of the Employer requiring the maintenance of a Special Police Force at or in the vicinity of the site, during the tenure of the work, the expenses there of shall be borne by the

Contractor and if paid by the Employer, shall be recoverable from the Contractor.

The sale of alcoholic drinks or other intoxicating drugs or beverages upon the work, in any labour camp, or in any of the buildings, encampments or tenements owned or occupied by, or within the control of, the Contractor or any of his employees directly or through sub-contractors employed on the work, shall be forbidden, and the Contractor shall exercise his influence and authority to secure strict compliance with this condition. The Contractor shall also ensure that no labour or employees are permitted to work at the site in an intoxicated state or under the influence of drugs

The Contractor shall remove from his camp such labour and their families, as refuse protective inoculation and vaccination when called upon to do so by the Engineer on the advice of the Medical Authority. Should Cholera, Plague or any other infectious disease break out, the Contractor shall at his own cost burn the huts, bedding, clothes, and other belongings of or used by the infected parties. The Contractor shall promptly erect new huts on healthy sites as required by the Employer, within the time specified by the Employer, failing which the work may be done by the Employer and the cost recovered from the Contractor.

4. LABOUR ACCOMMODATION

The Contractor shall provide living accommodation that is equal to or exceeds the minimum criteria established in the following sub-sections, needed to house his staff, workers employed directly or through sub-contractors. The buildings shall be constructed with cement panels so as to have a minimum life of not less than the length of the Contract.

- a) The roofs shall be watertight and laid with galvalume materials permissible for residential use under local regulations and for which the consent of the Engineer has been obtained.
- b) Each hut shall have suitable ventilation. All doors, windows, and ventilators shall be provided with security leaves and fasteners. Back-to-back units may be avoided.
- c) The minimum height of each unit shall be 2.10m and shall have separate cooking place.
- d) Suitable no. of common toilet/bath shall be provided.

5. WATER SUPPLY

The Contractor shall provide an adequate supply of potable water from MCGM/Local authorities for the use of labourers in the Camp. The provision shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which be of metal or masonry shall be provided. The Contractor shall also at his expense make arrangements for the provision and laying of water pipelines from the existing mains wherever available and shall pay for all the fees and charges thereof.

CONTRACT: DMRC/MU/LINE-6/BC-06: “Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project”.

6. DRAINAGE

The Contractor shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy. Surface water shall be drained away from paths and roads and shall not be allowed to accumulate into ditches or ponds where mosquitoes can breed.

7. SANITATION

The Contractor shall make arrangements for conservancy and sanitation in the labour camps according to the rules and regulations of the Local Public Health and Medical Authorities.

The Contractor shall provide a sewage system that is adequate for the number of residents in the camp, and which meets the requirements of the Municipality Authorities

12.5.2 Installation

All surfaces to be Covered should be inspected prior to installation to ensure that they are clean and free of surface defects and contamination. When applicable, the protective coating (peel coat) should be removed prior to inspection. All defects should be corrected before application. Material, equipment, and workmanship should conform to industry-standard practices, conditions, procedures, and recommendations specified by this contract, Quality Standards, and the ANSI 161.2-1979 standards.

Procedure: Based on a preliminary survey of the wall, and architectural/structural design, a grid layout for the sub-frame is prepared.

The metal studs are fixed to the substrate wall either directly or via adjustable metal cleats. Insulation is applied as required.

A suitable vapour-permeable membrane should be applied to the substrate wall or insulation to protect them from wind-driven rain. The metal studs should be similarly protected using an aluminium or EPDM strip.

The panels are fixed to the sub-frame using the appropriate fastener as specified.

To locate the panel accurately on the sub-frame, one fixing at the centre of the panel should be of the close tolerance type. To allow for expansion, all other fixings should be in clearance holes 2 mm larger than the diameter of the screw or rivet used.

Conditioning: The recommended method of conditioning is to store panels and substrates (if used) together in the same room for a period of at least 72 hours with adequate air movement, under stable temperature and humidity conditions as close as possible to actual conditions at the installation site. Recommended conditioning for all panels is at approximately 75° F (24° C), with 45-55% relative humidity.

12.5.3 Adhesives

Surfaces to be adhered must be sound, thoroughly dry, clean, free of dust, wood chips, oil and other types of surface contamination.

In all cases, with all types of adhesives, comply with the adhesive manufacturer's usage recommendations.

Note: For suppliers/ Vendors of facade metal cladding, please refer ' finishing works Manufactures list' under SI. No.4 – sub head – "Metal ceiling".

13 GLASS WORKS

Glass shall generally conform to the requirements of BS: 952 or JIS: R3203 or equivalent standards. It shall be clean cut without edge faults and free from defects. Glasses shall be tested for critical parameters like flexural bending strength, fragmentation, bow and corrugation as per DIN: 1249 Part-12 with necessary test certificates from the manufacturer for each lot.

13.1 Toughened Glass

Clear or Tinted Float Glass shall be toughened (tempered) for applications where specified. The glass shall be horizontally tempered as per DIN: 1249 Part-12 having no tong or suspension mark and shall have machined edges with no burrs or sharp surfaces.

13.2 Laminated Glass

Two panes of 12mm thick Clear or Tinted Glass shall be laminated using a layer of PVB.1.52 mm. Laminated glass shall be provided where specified. The preparation of Laminated Glass shall be as per BS: 952 Part-1.

TYPICAL ARCHITECTURAL DETAILS LIST - TENDER DRAWINGS (BC-06)

S. No.	Description	Sheet No	Revision
1	EFO Layout	MM-L6-TD-TYP-AR-CI-101	R0
2	Typology 1 - Flooring Layout - Concourse Level (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-111	R0
3	Typology 1 - Flooring Layout - Concourse Level (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-112	R0
4	Typology 1 - Flooring Layout - Platform Level (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-113	R0
5	Typology 1 - Flooring Layout - Platform Level (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-114	R0
6	Lift Canopy Detail	MM-L6-TD-TYP-AR-CI-115	R0
7	Typology 2 - Flooring Layout - Skybridge Level (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-116	R0
8	Typology 2 - Flooring Layout - Skybridge Level (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-117	R0
9	Typology 2 - Flooring Layout - Platform Level (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-118	R0
10	Typology 2 - Flooring Layout - Platform Level (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-119	R0
11	TOM 1 (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-121	R0
12	TOM 1 (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-122	R0
13	TOM 2 (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-123	R0
14	TOM 2 (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-124	R0
15	Typology 1 - Concourse RCP (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-131	R0
16	Typology 1 - Concourse RCP (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-132	R0
17	Typology 2 - Skybridge RCP (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-133	R0
18	Typology 2 - Skybridge RCP (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-134	R0
19	Escalator Detail - Typical	MM-L6-TD-TYP-AR-CI-141	R0
20	Staircase Detail - Typical	MM-L6-TD-TYP-AR-CI-151	R0
21	Lift Detail	MM-L6-TD-TYP-AR-CI-161	R0
22	Toilet Details - Female (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-171	R0
23	Toilet Details - Female (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-172	R0
24	Toilet Details - Male (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-174	R0
25	Toilet Details - Male (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-175	R0
26	SCR Layout (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-177	R0
27	SCR Layout (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-178	R0
28	Railing Detail - Wall & Floor Mounted	MM-L6-TD-TYP-AR-CI-181	R0
29	Railing Detail - Ramp Railing	MM-L6-TD-TYP-AR-CI-183	R0
30	Door & Window Detail - Non Fire Door	MM-L6-TD-TYP-AR-CI-191	R0
31	Door & Window Detail - Fire Door	MM-L6-TD-TYP-AR-CI-192	R0
32	Door & Window Detail - Rolling Shutter (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-193	R0
33	Door & Window Detail - Rolling Shutter (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-194	R0
34	Door & Window Detail - Swing Door, Gate Detail (Sheet 1 of 2)	MM-L6-TD-TYP-AR-CI-195	R0
35	Door & Window Detail - Swing Door, Gate Detail (Sheet 2 of 2)	MM-L6-TD-TYP-AR-CI-196	R0
36	Door & Window Detail - Windows & Louvers	MM-L6-TD-TYP-AR-CI-198	R0
37	Typology 1 - Typical Elevations	MM-L6-TD-TYP-AR-CI-221	R0
38	Typology 1 - Typical Key Plans	MM-L6-TD-TYP-AR-CI-222	R0
39	Typology 1 - Typical Roof Plan	MM-L6-TD-TYP-AR-CI-223	R0
40	Typology 2 - Typical Elevations	MM-L6-TD-TYP-AR-CI-224	R0
41	Typology 2 - Typical Roof Plan	MM-L6-TD-TYP-AR-CI-226	R0
42	FHC Detail	MM-L6-TD-TYP-AR-CI-231	R0
43	Part Sections (internal & external wall cladding)	MM-L6-TD-TYP-AR-CI-241	R0
44	Expansion Joint Detail	MM-L6-TD-TYP-AR-CI-251	R0
45	Raised Access & Filled Flooring Detail	MM-L6-TD-TYP-AR-CI-261	R0
46	Entry-Exit - A-Lift+Stairs+Esc (Sheet 1 of 3)	MM-L6-TD-TYP-AR-CI-271	R0
47	Entry-Exit - A-Lift+Stairs+Esc (Sheet 2 of 3)	MM-L6-TD-TYP-AR-CI-272	R0
48	Entry-Exit - A-Lift+Stairs+Esc (Sheet 3 of 3)	MM-L6-TD-TYP-AR-CI-273	R0
49	Entry-Exit - B-Stairs+Esc (Sheet 1 of 3)	MM-L6-TD-TYP-AR-CI-274	R0

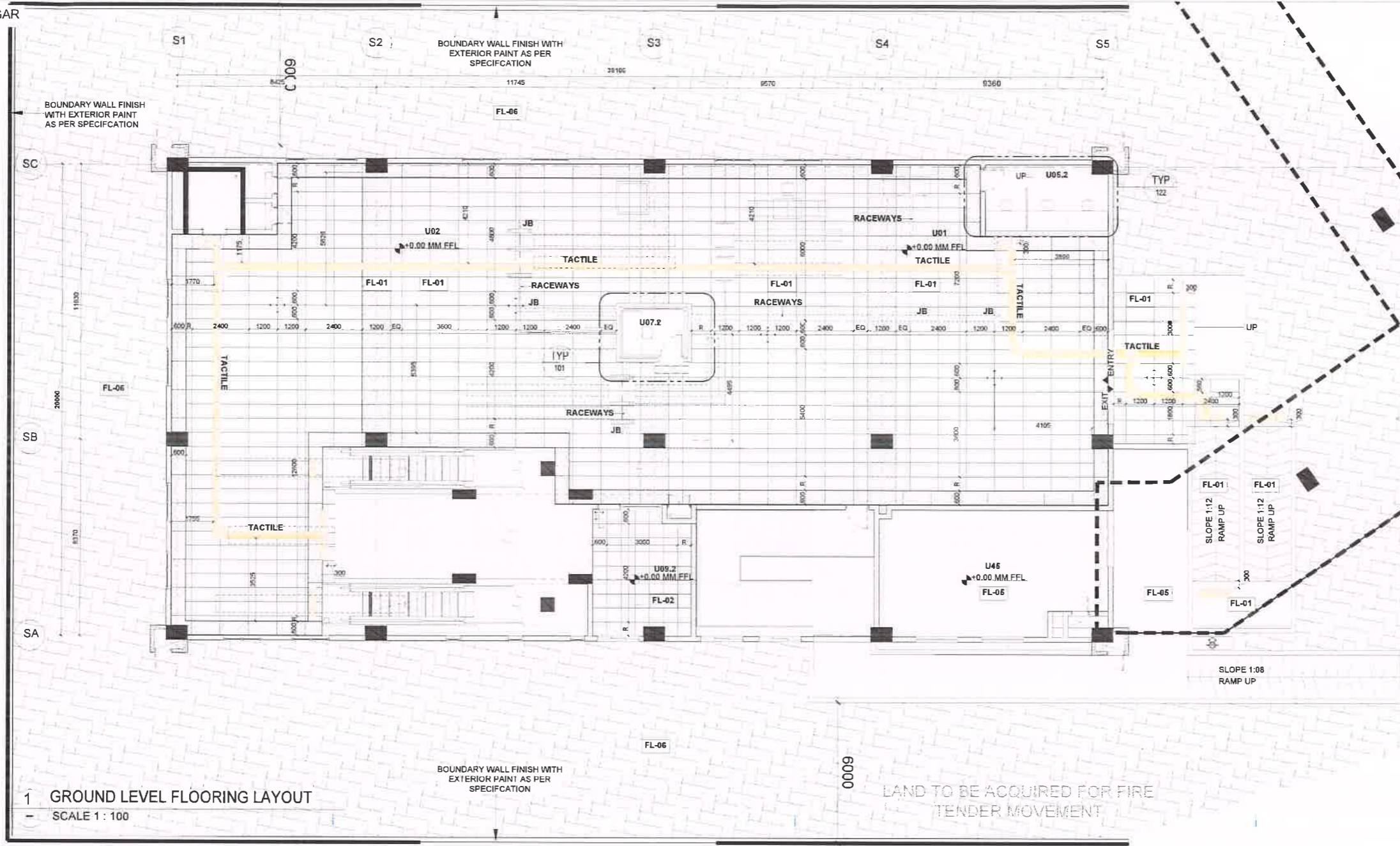
TYPICAL ARCHITECTURAL DETAILS LIST - TENDER DRAWINGS (BC-06)

S. No.	Description	Sheet No	Revision
50	Entry-Exit - B-Stairs+Esc (Sheet 2 of 3)	MM-L6-TD-TYP-AR-CI-275	R0
51	Entry-Exit - B-Stairs+Esc (Sheet 3 of 3)	MM-L6-TD-TYP-AR-CI-276	R0
52	Entry-Exit - C-Stairs+Lift (Sheet 1 of 3)	MM-L6-TD-TYP-AR-CI-277	R0
53	Entry-Exit - C-Stairs+Lift (Sheet 2 of 3)	MM-L6-TD-TYP-AR-CI-278	R0
54	Entry-Exit - C-Stairs+Lift (Sheet 3 of 3)	MM-L6-TD-TYP-AR-CI-279	R0
55	DG Room Detail	MM-L6-TD-TYP-AR-CI-427	R0
56	Domestic Pump & Sump Room Detail	MM-L6-TD-TYP-AR-CI-701	R0
57	Fire Pump & Sump Room Detail	MM-L6-TD-TYP-AR-CI-702	R0
58	Swami Samarth Nagar Street level plan	MM-L6-TD-SO1-AR-CI-101	R0
59	Swami Samarth Nagar Concourse level plan	MM-L6-TD-SO1-AR-CI-102	R0
60	Swami Samarth Nagar platform level plan	MM-L6-TD-SO1-AR-CI-103	R0
61	Swami Samarth Nagar cross section-B level plan	MM-L6-TD-SO1-AR-CI-301	R0
62	Adarsh Nagar Street level plan	MM-L6-TD-SO2-AR-CI-101	R0
63	Adarsh InagarInterchange	MM-L6-TD-SO2-AR-CI-101 A	R0
64	Adarsh Nagar Concourse level plan	MM-L6-TD-SO2-AR-CI-102	R0
65	Adarsh Nagar Interchange Concourse level plan	MM-L6-TD-SO2-AR-CI-102 A	R0
66	Adarsh Nagar platform level plan	MM-L6-TD-SO2-AR-CI-103	R0
67	Adarsh Nagar Interchange section level plan	MM-L6-TD-SO2-AR-CI-105 A	R0
68	Adarsh Nagar cross section level plan	MM-L6-TD-SO2-AR-CI-301	R0
69	Jogeshwari Ground floor plan	MM-L6-TD-SO3-AR-CI-101	R0
70	Jogeshwari First floor plan	MM-L6-TD-SO3-AR-CI-102	R0
71	Jogeshwari Paid fob plan	MM-L6-TD-SO3-AR-CI-103	R0
72	Jogeshwari platform plan	MM-L6-TD-SO3-AR-CI-104	R0
73	Jogeshwari cross section plan	MM-L6-TD-SO3-AR-CI-303	R0
74	JVLR Street level key plan	MM-L6-TD-SO4-AR-CI-100	R0
75	JVLR Street level plan	MM-L6-TD-SO4-AR-CI-101	R0
76	JVLR Interchange coninection bridge concourse	MM-L6-TD-SO4-AR-CI-101 A	R0
77	JVLR Concourse level 1 plan	MM-L6-TD-SO4-AR-CI-102	R0
78	JVLR Interchange coninection bridge concourse level 1	MM-L6-TD-SO4-AR-CI-102 A	R0
79	JVLR cross section level plan	MM-L6-TD-SO4-AR-CI-301	R0
80	JVLR Concourse level 2 plan	MM-L6-TD-SO4-AR-CI-103	R0
81	JVLR platform level plan	MM-L6-TD-SO4-AR-CI-104	R0
82	JVLR Interchange coninection bridge concourse section	MM-L6-TD-SO4-AR-CI-105	R0
83	JVLR cross section level plan	MM-L6-TD-SO4-AR-CI-301	R0
84	Shyam Nagar Street level plan	MM-L6-TD-SO5-AR-CI-101	R0
85	Shyam Nagar Street level plan	MM-L6-TD-SO5-AR-CI-102	R0
86	Shyam Nagar SKY Bridge level plan	MM-L6-TD-SO5-AR-CI-103	R0
87	Shyam Nagarcross section B level plan	MM-L6-TD-SO5-AR-CI-301	R0
88	Shyam Nagar cross section C level plan	MM-L6-TD-SO5-AR-CI-302	R0
89	<u>Jogeshwari station South Block - Ground floor level flooring layout</u>	<u>MM-L6-TD-SO3-AR-CI-621</u>	<u>R1</u>
90	<u>Jogeshwari station South Block - First Floor level flooring layout</u>	<u>MM-L6-TD-SO3-AR-CI-622</u>	<u>R0</u>
91	<u>Jogeshwari station South Block - Paid FOB level level flooring layout</u>	<u>MM-L6-TD-SO3-AR-CI-623</u>	<u>R0</u>
92	<u>Jogeshwari station South Block - Platform level flooring layout</u>	<u>MM-L6-TD-SO3-AR-CI-624</u>	<u>R0</u>
93	<u>Jogeshwari station South Block - Ground floor level RCP</u>	<u>MM-L6-TD-SO3-AR-CI-631</u>	<u>R0</u>
94	<u>Jogeshwari station South Block - First Floor level flooring RCP</u>	<u>MM-L6-TD-SO3-AR-CI-632</u>	<u>R0</u>
95	<u>Jogeshwari station South Block - Paid FOB level level RCP</u>	<u>MM-L6-TD-SO3-AR-CI-633</u>	<u>R0</u>
96	<u>Jogeshwari station South Block - Platform level RCP</u>	<u>MM-L6-TD-SO3-AR-CI-634</u>	<u>R0</u>

DR

TO SWAMI SAMARTH NAGAR

TO VIKHROLI



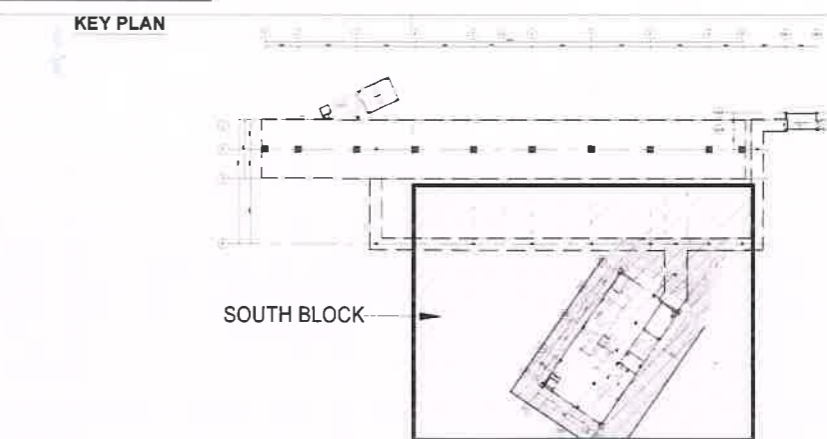
1 GROUND LEVEL FLOORING LAYOUT
SCALE 1 : 100

LAND TO BE ACQUIRED FOR FIRE TENDER MOVEMENT

TENDER DRAWING

ROOM NOS.	NAME	LEVEL	FIRE DOOR	ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL		U24	S&T/UPS ROOM	PAID FOB LEVEL	YES
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL		U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U02	PAID GROUND-1	GROUND FLOOR LEVEL		U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U02	PAID GROUND-2	GROUND FLOOR LEVEL		U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL		U45	D/G ENCLOSURE	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL		U46.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U02	PAID PLATFORM-1	PLATFORM LEVEL		U46.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U02	PAID PLATFORM-2	PAID FOB LEVEL		U53	SOLAR ROOM	PAID FOB LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES	U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U04	STATION MANAGER ROOM	PLATFORM LEVEL		U64	SPARE ROOM	FIRST FLOOR LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL		U64.1	SPARE ROOM	PAID FOB LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL		U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL		U16	MESS ROOM	PLATFORM LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL		U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U08	FIRST AID ROOM	PLATFORM LEVEL		U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL					
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL					
U12	CLEANERS ROOM	PLATFORM LEVEL					
U15F.1	TOILET(F)-1	PLATFORM LEVEL					
U15F.2	TOILET(F)-2	PLATFORM LEVEL					
U15M.1	TOILET(M)-1	PLATFORM LEVEL					

LEGENDS	FLOOR FINISH LEGENDS	KEY PLAN
START POINT	FL-01 1200 X 600 POLISHED GRANITE (GREY)	
TACTILE (WARNING STUDS)	FL-02 1200 X 600 POLISHED GRANITE (JET BLACK)	
REMAINING TILE	FL-03 800X600 VITRIFIED TILE	
JUNCTION BOX	FL-04 800X600 POLISHED GRANITE (JET BLACK) WITH ANTI-SLIP TACTIC	
	FL-05 GRANULITIC FLOORING	
	FL-06 80 MM THK PAVER BLOCK AS PER SPECIFICATION	



REV	AMENDMENT / REVISION DESCRIPTION	DATE	DRAWN	APPD
R1	AS PER DMRC COMMENTS	07-09-2023	PN	SP
R0	GOOD FOR CONSTRUCTION	18-08-2023	SA	RA

DESIGNATION	NAME	SIGNATURE
MANAGER/ARCHITECT	Dy CE/DESIGN-I	<i>[Signature]</i>
DY CA/ARCHITECT	ED/TECHNICAL	<i>[Signature]</i>
DEPUTY CHIEF ENGINEER	PM	<i>[Signature]</i>
DEPUTY EXECUTIVE ENGINEER	GM/CIVIL	<i>[Signature]</i>

REVIEWED BY	DESIGNATION	SIGNATURE
ARVIND KUMAR	SR. E&M EXPERT	<i>[Signature]</i>
L.C. SANSER	SR. PST EXPERT	<i>[Signature]</i>
ARUN KUMAR	CHIEF SIGNALLING EXPERT	<i>[Signature]</i>
BIRAJI THACKER	SR. DESIGN EXPERT TELECOM, ACP, PSD	<i>[Signature]</i>
N.S. BANJA	DEPUTY PROJECT DIRECTOR	<i>[Signature]</i>
ROHIT GHISAIN	DEPUTY PROJECT DIRECTOR	<i>[Signature]</i>
DR. B. UMESH RAI	PROJECT DIRECTOR	<i>[Signature]</i>

DESIGNATED	NAME	SIGNATURE
DRAWN	SA	<i>[Signature]</i>
DESIGNED	SP/DC	<i>[Signature]</i>
VERIFIED	RA	<i>[Signature]</i>

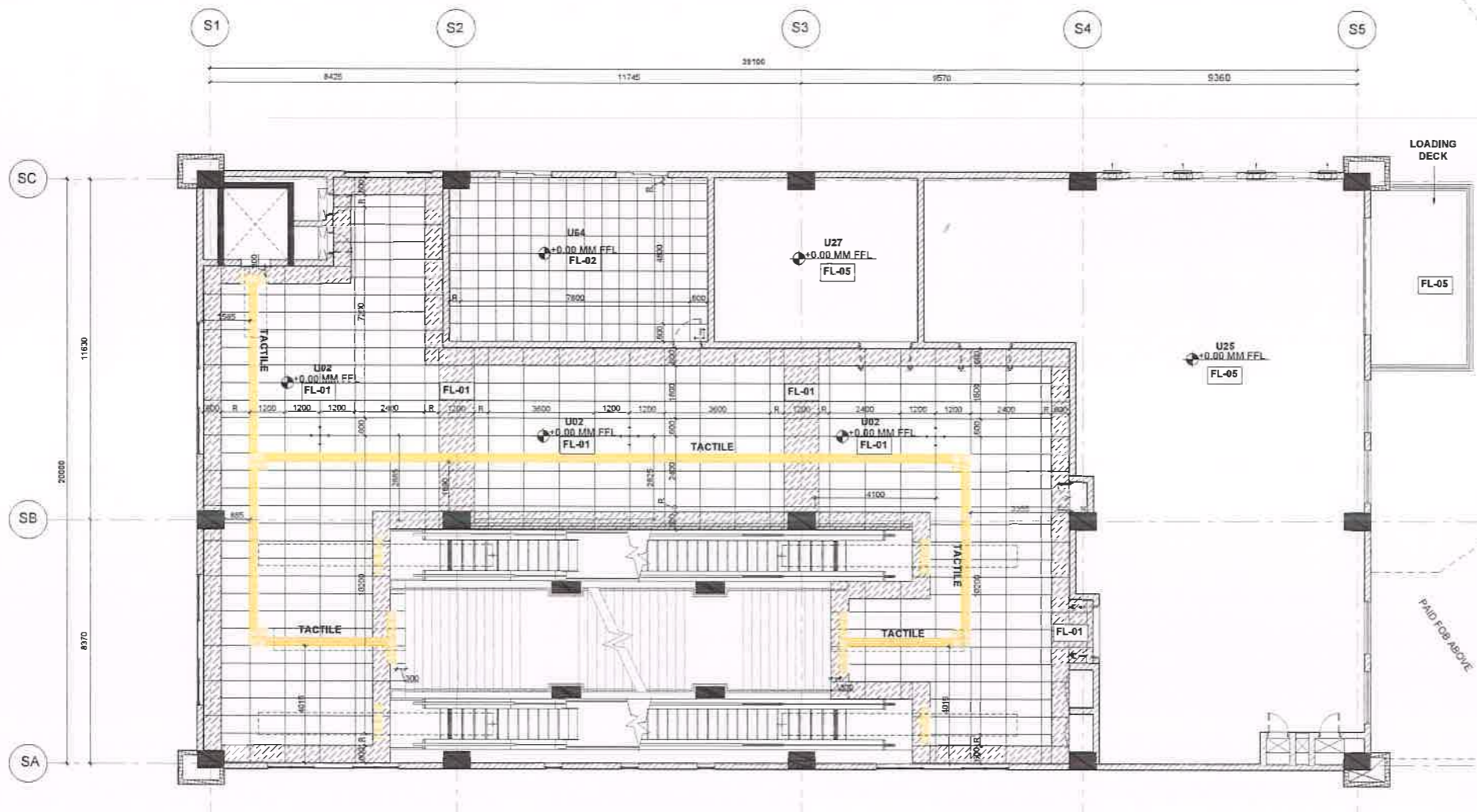
CHECKED BY	SIGNATURE
ARCHITECTURE	<i>[Signature]</i>
CIVIL	<i>[Signature]</i>
MEP	<i>[Signature]</i>

PROJECT	TITLE	SCALE
CONTRACT NO. MBDD-01 MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS	MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, GROUND LEVEL FLOORING LAYOUT	1:100
DRG NO. MM-L6-TD-S03-AR-CI-621	STATUS: TD	REVISION R1

ARCHITECTURAL

AUTHORISED SIGNATORY FOR DDC

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1 FIRST FLOOR LEVEL FLOORING LAYOUT
SCALE 1 : 100

TENDER DRAWING

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM-1	PLATFORM LEVEL	
U02	PAID PLATFORM-2	PAID FOB LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U12	CLEANERS ROOM	PLATFORM LEVEL	
U15F.1	TOILET(F)-1	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PLATFORM LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	SATUPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U45	D G ENCLOSURE	GROUND FLOOR LEVEL	
U46.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U46.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U64	SPARE ROOM	FIRST FLOOR LEVEL	
U64.1	SPARE ROOM	PAID FOB LEVEL	

LEGENDS

START POINT (L), REMAINING TILE (R), JUNCTION BOX (JB)

TACTILE (WARNING STUDS) (Yellow), TACTILE (GUIDING STUDS) (Blue)

FLOOR FINISH LEGENDS

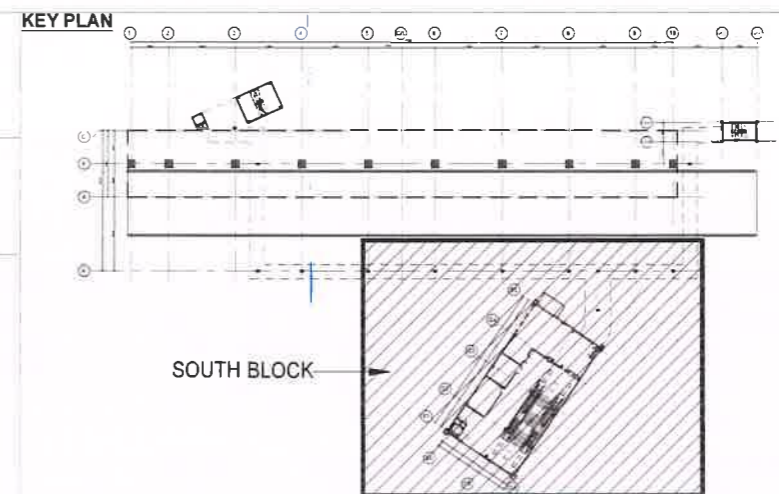
FL-01: 1200 X 600 POLISHED GRANITE (GREY)
 FL-02: 1200 X 600 POLISHED GRANITE (JET BLACK)
 FL-03: 600X600 VITRIFIED TILE
 FL-04: 600X600 GRID RAISED ACCESS FLOORING WITH ANTI-SLIP
 FL-05: GRANOLITHIC FLOORING

LEGENDS

BLOCK WALL 150mm THICK
 CONCRETE SOLID BLOCK WALL 200mm THICK
 RCC
 MULLION COLUMN

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS & ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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- STATION FINISHES ARE PROVIDED AS PER THE APPROVED FINISH PRESENTED TO DMRC / MMRDA ON 03.10.2022.



DESIGNATION	NAME	SIGNATURE
SIVL-6		
OSD/EL2		
DEPUTY CHIEF ENGINEER		
DEPUTY EXECUTIVE ENGINEER		

DESIGNATION	NAME	SIGNATURE
MANAGER/ARCHITECT		
DY CA/ARCHITECT		
CHIEF/ARCHITECT		
DEPUTY CHIEF ENGINEER		
DEPUTY EXECUTIVE ENGINEER		

REVIEWED BY	DESIGNATION	SIGNATURE
ARVIND KUMAR	SR. E&M EXPERT	
L.C. SARSER	SR. PST EXPERT	
ARUN KUMAR	CHIEF SIGNALLING EXPERT	
BIRJU THACKER	SR. DESIGN EXPERT TELECOM, AFC, PSD	
N.S. RANA	CHIEF STATION INTERFACER	
ROHIT GUSAIN	DEPUTY PROJECT DIRECTOR	
DR. B. UMESH RAI	PROJECT DIRECTOR	

DESIGNATION	NAME	SIGNATURE
DRAWN	SA	
DESIGNED	SP/DX	
VERIFIED	RA	

CHECKED BY	SIGN
ARCHITECTURE	
CIVIL	
MEP	

PROJECT: CONTRACT NO. MBDD-01_MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS	
TITLE: MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, FIRST FLOOR LEVEL FLOORING LAYOUT	SCALE: 1:100 STATUS: TD
DRG NO.: MM-L6-TD-S03-AR-CI-622	REVISION: R0

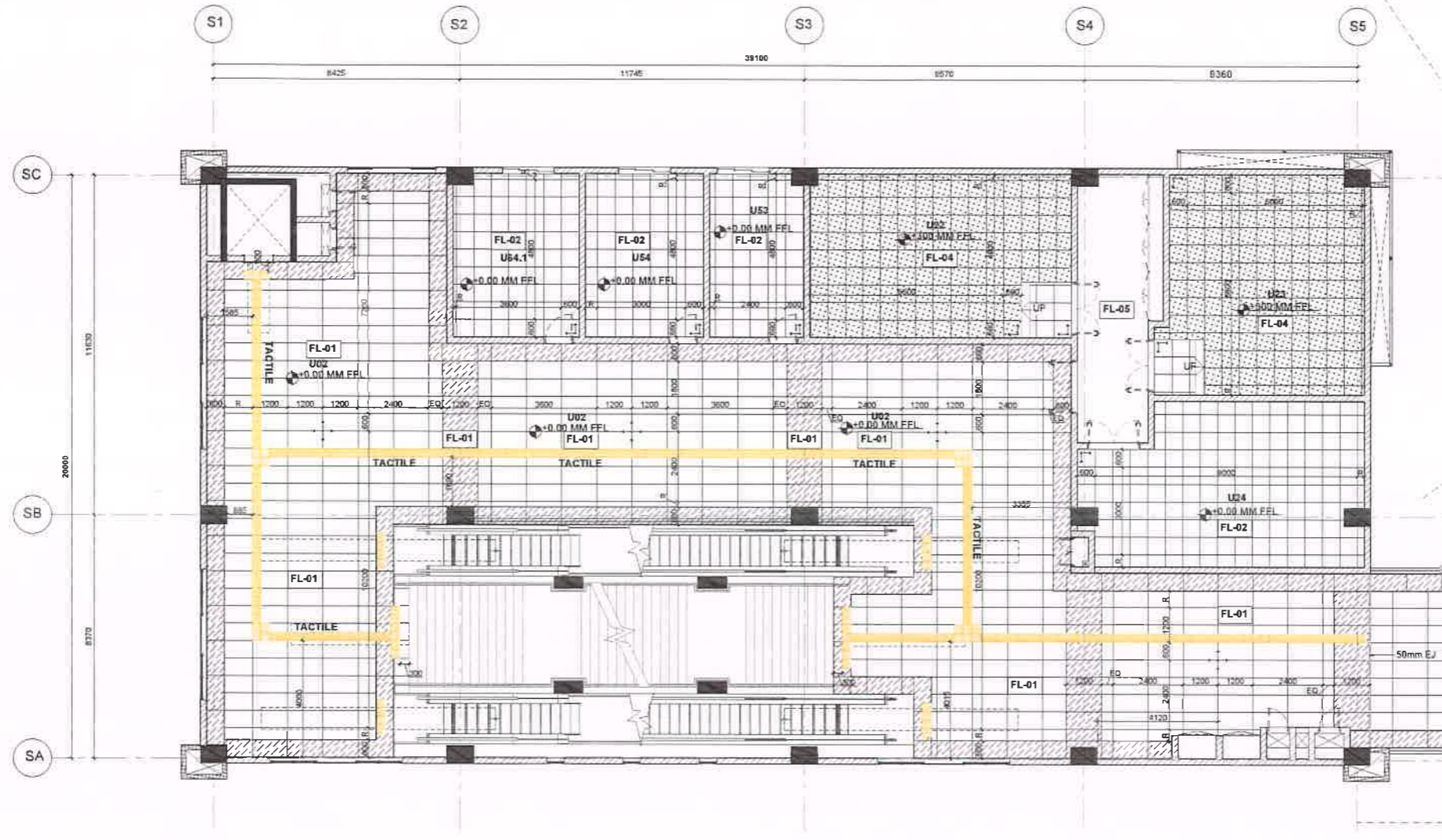
ARCHITECTURAL

AUTHORISED SIGNATORY FOR DDG

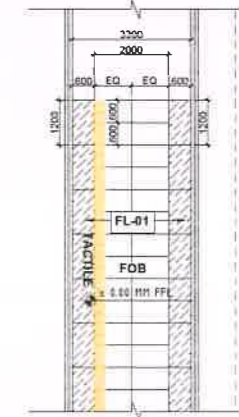
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TO SWAMI SAMARTH NAGAR ←

TO VIKHROLI →



1 PAID FOB LEVEL FLOORING LAYOUT
SCALE 1 : 100



2 TYPICAL FOB FLOORING LAYOUT
SCALE 1 : 100

TENDER DRAWING

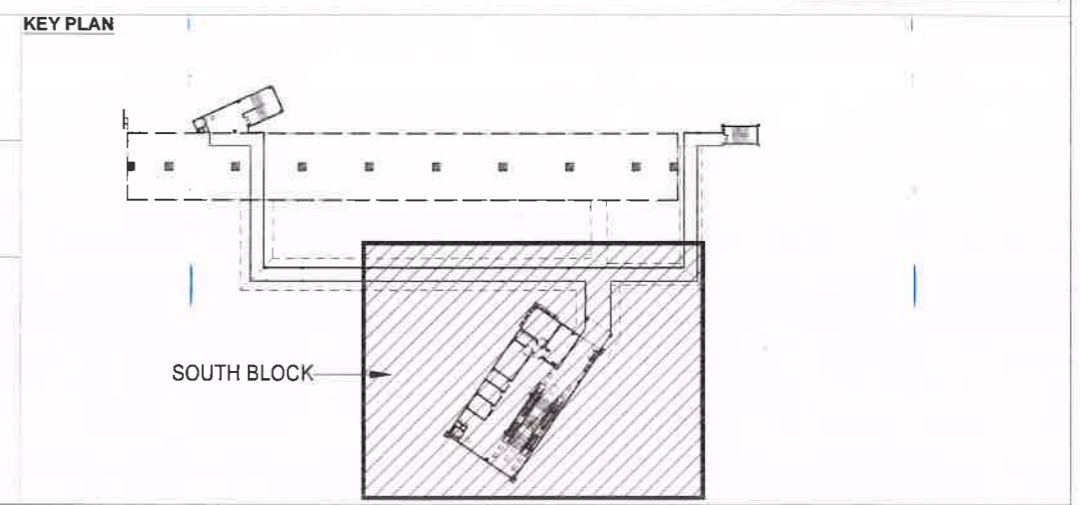
ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM -1	PLATFORM LEVEL	
U02	PAID PLATFORM -2	PLATFORM LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U12	CLEANERS ROOM	PLATFORM LEVEL	
U15F.1	TOILET(F)-1	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PLATFORM LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	S&T/UPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U45	D/G ENCLOSURE	GROUND FLOOR LEVEL	
U46.1	HANDICAP TOILET 1	PLATFORM LEVEL	
U46.2	HANDICAP TOILET 2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U64	SPARE ROOM	FIRST FLOOR LEVEL	
U64.1	SPARE ROOM	PAID FOB LEVEL	

LEGENDS	FLOOR FINISH LEGENDS
START POINT	FL-01 1200 X 600 POLISHED GRANITE (GREY)
REMAINING TILE	FL-02 1200 X 600 POLISHED GRANITE (JET BLACK)
JUNCTION BOX	FL-03 600X600 VITRIFIED TILE
TACTILE (WARNING STUDS)	FL-04 600X600 GRID TRACED ACCESS FLOORING
TACTILE (GUIDING STUDS)	FL-05 WITH ANTI-SLIP TREATMENT
BLOCK WALL 150mm THICK	FL-06 ORANOLITHIC FLOORING
CONCRETE SOLID BLOCK WALL 200mm THICK	
RCC	
MULLION COLUMN	

NOTES

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- STATION FINISHES ARE PROVIDED AS PER THE APPROVED FINISH PRESENTED TO DMRC / MMRDA ON 03.10.2022.

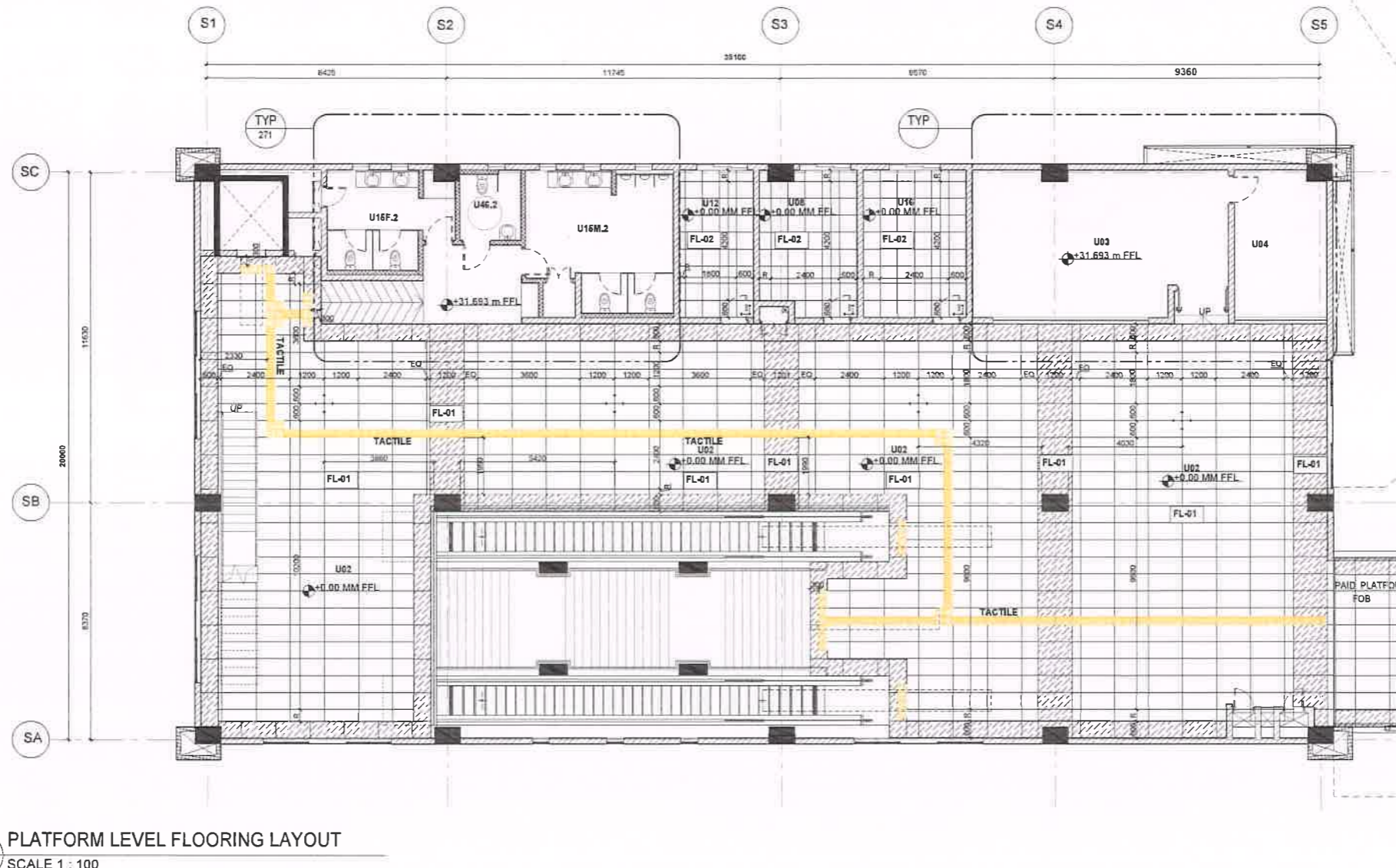


		CLIENT: DELHI METRO RAIL CORPORATION LTD. METRO BHAWAN FIRE BRIGADE LANE, BARAKHAMBA ROAD, NEW DELHI-110001, INDIA BOARD NO-23417910/12, FAX NO-23417921	GENERAL CONSULTANT: SYSTRA-CEG SMCIPL CONSORTIUM B-WING 2 ND floor, Unit-201 Universal Business Park, Ansa Industrial Estate, Chandivali, Andheri East, Mumbai, Maharashtra 400072	DETAILED DESIGN CONSULTANT: MM-SMEC Supreme Business Park, Unit 205, Level - 2, Wing B, Hiranandani Gardens, Powai, Mumbai, Maharashtra 400076	CHECKED BY: SIGN ARCHITECTURE: SIGN CIVIL: SIGN MEP: SIGN	PROJECT: CONTRACT NO. MBDD-01_MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS
EMPLOYER: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MMRDA)	MANAGER/ARCHITECT: Dy CE/DESIGN-I DY CA/ARCHITECT: ED/TECHNICAL CHIEF/ARCHITECT: PM DEPUTY CHIEF ENGINEER: GM/CIVIL	REVIEWED BY: ARVIND KUMAR SR. E&M EXPERT L C SARSER SR. PST EXPERT ARUN KUMAR CHIEF SIGNALLING EXPERT BIRJU THACKER SR. DESIGN EXPERT TELECOM AFC PSD N S RANA CHIEF STRUCTURAL ENGINEER ROHIT GUJAIN DEPUTY PROJECT DIRECTOR DR. B. UMESH RAO PROJECT DIRECTOR	DRAWN: SA DESIGNED: SP/DC VERIFIED: RA	THIS DRAWING MUST NOT BE EITHER LOANED, COPIED OR OTHERWISE REPRODUCED IN WHOLE OR IN PART OR USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN PERMISSION OF MM-SMEC-IV	CERTIFIED THAT THIS DOCUMENT/DRAWING HAS BEEN DESIGNED AND CHECKED IN ACCORDANCE WITH DDC QUALITY ASSURANCE PLAN	TITLE: MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, PAID FOB LEVEL FLOORING LAYOUT SCALE: 1:100 STATUS: TD DRG NO.: MM-L6-TD-S03-AR-CI-623 REVISION: R0

ARCHITECTURAL

TO SWAMI SAMARTH NAGAR

TO VIKHROLI



1 PLATFORM LEVEL FLOORING LAYOUT
SCALE 1 : 100

TENDER DRAWING

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM -1	PLATFORM LEVEL	
U02	PAID PLATFORM -2	PAID FOB LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U12	CLEANERS ROOM	PLATFORM LEVEL	
U15F.1	TOILET(F)-1	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PLATFORM LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	S&T UPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U45	D G ENCLOSURE	GROUND FLOOR LEVEL	
U46.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U46.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U54	SPARE ROOM	FIRST FLOOR LEVEL	
U54.1	SPARE ROOM	PAID FOB LEVEL	

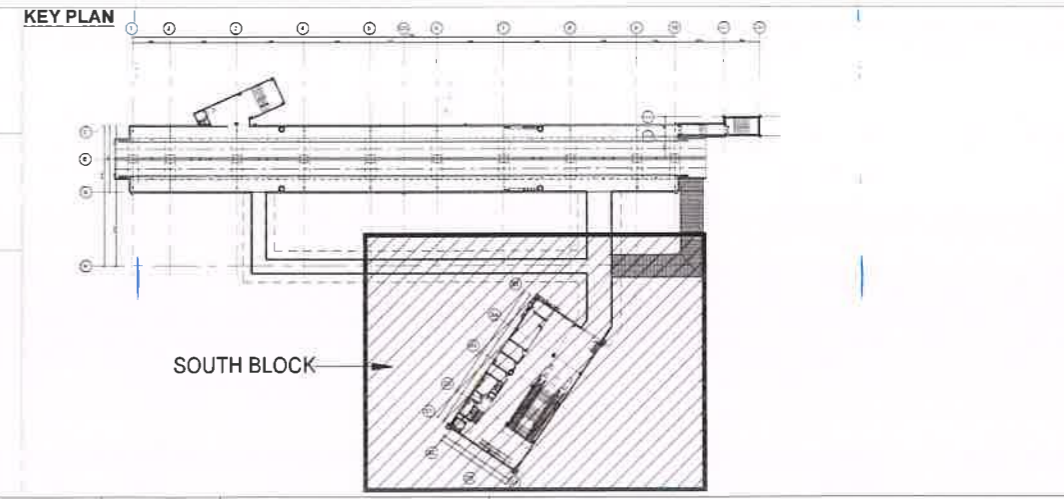
LEGENDS
START POINT
REMAINING TILE
JUNCTION BOX
TACTILE (WARNING STUDB)
TACTILE (GUIDING STUDB)

FLOOR FINISH LEGENDS
FL-01 1200 X 600 POLISHED GRANITE (GREY)
FL-02 1200 X 600 POLISHED GRANITE (JET BLACK)
FL-03 600X600 VITRIFIED TILE
FL-04 600X600 GRID RAISED ACCESS FLOORING WITH ANTI STATICTIC
FL-05 GRANULITHIC FLOORING

BLOCK WALL 150mm THICK
CONCRETE SOLID BLOCK WALL 200mm THICK
RCC
MULLION COLUMN

NOTES:

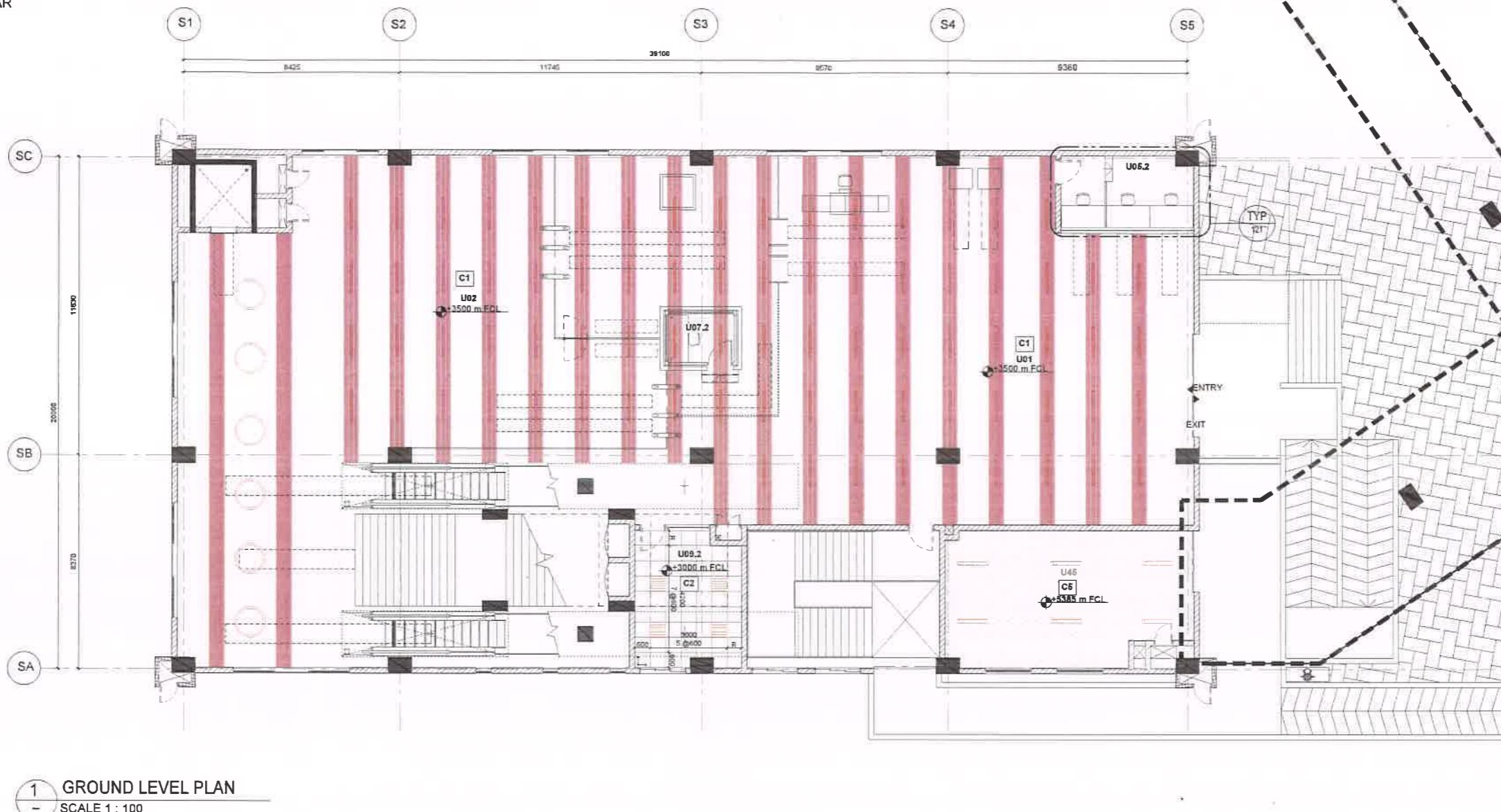
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- STATION FINISHES ARE PROVIDED AS PER THE APPROVED FINISH PRESENTED TO DMRC / MMRDA ON 03.10.2022.



EMPLOYER	CLIENT: DELHI METRO RAIL CORPORATION LTD. METRO BHAWAN FIRE BRIGADE LANE, BARAKHAMBA ROAD, NEW DELHI-110001, INDIA. BOARD NO - 23417910/12, FAX NO - 23417921	GENERAL CONSULTANT: SYSTRA-CEG SMCIPL CONSORTIUM 8-WING 2 nd floor, Unit-201 Universal Business Park, Ansa Industrial Estate, Chandivali, Andheri East, Mumbai, Maharashtra 400072	DETAILED DESIGN CONSULTANT: MM-SMEC Supreme Business Park, Unit 205, Level - 2, Wing B, Hiranandani Gardens, Powai, Mumbai, Maharashtra 400076 in JV with SMCIPL	CHECKED BY	SIGN	PROJECT: CONTRACT NO. MBDD-01 MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS								
DESIGNATION	NAME	SIGNATURE	MANAGER/ARCHITECT	NAME	DESIGNATION	SIGNATURE	DRAWN	SA	ARCHITECTURE	SIGNATURE	CERTIFIED THAT THIS DOCUMENT/DRAWING HAS BEEN DESIGNED AND CHECKED IN ACCORDANCE WITH DDC QUALITY ASSURANCE PLAN	TITLE: MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, PLATFORM LEVEL FLOORING LAYOUT	SCALE 1:100	ARCHITECTURAL
OSD/EL2	NAME	SIGNATURE	DY CA/ARCHITECT	NAME	DESIGNATION	SIGNATURE	DESIGNED	SP/DC	CIVIL	SIGNATURE		STATUS TD		
DEPUTY CHIEF ENGINEER	NAME	SIGNATURE	CHIEF/ARCHITECT	NAME	DESIGNATION	SIGNATURE	VERIFIED	RA	MEP	SIGNATURE		DRG NO: MM-L6-TD-S03-AR-CI-624	REVISION R0	
DEPUTY EXECUTIVE ENGINEER	NAME	SIGNATURE	GM/CIVIL	NAME	DESIGNATION	SIGNATURE	THIS DRAWING MUST NOT BE EITHER LOANED, COPIED OR OTHERWISE REPRODUCED IN WHOLE OR IN PART OR USED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN PERMISSION OF MM-SMEC-JV		MEP	SIGNATURE	AUTHORISED SIGNATORY FOR DDC			

TO SWAMI SAMARTH NAGAR

TO VIKHROLI



1 GROUND LEVEL PLAN
SCALE 1 : 100

TENDER DRAWING

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM -1	PLATFORM LEVEL	
U02	PAID PLATFORM -2	PAID FOB LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U12	CLEANERS ROOM	PLATFORM LEVEL	
U15F.1	TOILET(F)-1	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PAID FOB LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	S&T UPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U45	D O ENCLOSURE	GROUND FLOOR LEVEL	
U46.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U46.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U64	SPARE ROOM	FIRST FLOOR LEVEL	
U64.1	SPARE ROOM	PAID FOB LEVEL	

LEGENDS	CEILING FINISH LEGENDS
START POINT	C1 BAFFLE CEILING
FEATURE LIGHTING	C2 BAFFLE CEILING IN LINE COLOR
LED LIGHT	C3 600X600 SUSPENDED METAL FALSE CEILING
SURFACE WALL MOUNTED IMPACT-RESISTANT LED LUMINAIRE	C4 ACRYLIC EMULSION PAINT
SURFACE MOUNTED/ SUSPENDED LED LUMINAIRE	C5 ANTI-DUST PAINT
REMAINING PANEL	C6 ANTI-CARBONATION PAINT
F.C.L. FINISH CEILING LEVEL	C6 CALCIUM SILICATE CEILING

KEY PLAN

NOTES:
<ul style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETERS & ALL LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE FIGHTING, ELECTRICAL & INTERFACE DRAWINGS. STATION FINISHES ARE PROVIDED AS PER THE APPROVED FINISH PRESENTED TO DMRC / MMRDA ON 03.10.2022.

RO	GOOD FOR CONSTRUCTION	DATE	18-08-2023	SA	RA
REV	AMENDMENT / REVISION DESCRIPTION	DATE		DRAWN	APPD

EMPLOYER	CLIENT	GENERAL CONSULTANT	DETAILED DESIGN CONSULTANT
	DELHI METRO RAIL CORPORATION LTD. METRO BHAWAN FIRE BRIGADE LANE, BARAKHAMBA ROAD, NEW DELHI-110001, INDIA BOARD NO - 234.17910/12, FAX NO - 234.17921	SYSTRA-CEG SMC IPL CONSORTIUM B-WING 2 nd floor, Unit-201 Universal Business Park, Ansa Industrial Estate, Chandivali, Andheri East, Mumbai, Maharashtra 400072	MM-SMEC Supreme Business Park, Unit 205, Level - 2, Wing B, Hiranandani Gardens, Powai, Mumbai, Maharashtra 400076 in JV with

DESIGNATION	NAME	SIGNATURE	MANAGER/ARCHITECT	Dy CE/DESIGN-I
SI/L-6				
DSD/EL2				ED/TECHNICAL
DEPUTY CHIEF ENGINEER				PM
DEPUTY EXECUTIVE ENGINEER				GM/CIVIL

REVIEWED BY	NAME	DESIGNATION	SIGNATURE
REVIEWED BY	ARVIND KUMAR	SR. E&M EXPERT	
REVIEWED BY	L.C. SARSER	SR. PST EXPERT	
REVIEWED BY	ARUN KUMAR	CHIEF SIGNALLING EXPERT	
REVIEWED BY	BIRJU THACKER	SR. DESIGN EXPERT TELECOM, AFC, PSD	
REVIEWED BY	N.S. RANJA	CHIEF TELECOM/INTERFACE EXPERT	
REVIEWED BY	ROHIT GUSAIN	Deputy PROJECT DIRECTOR	
REVIEWED BY	DR. B. UMESH RAI	PROJECT DIRECTOR	

DRAWN	SA	DESIGNED	SP/DC	VERIFIED	RA

CHECKED BY	SIGN

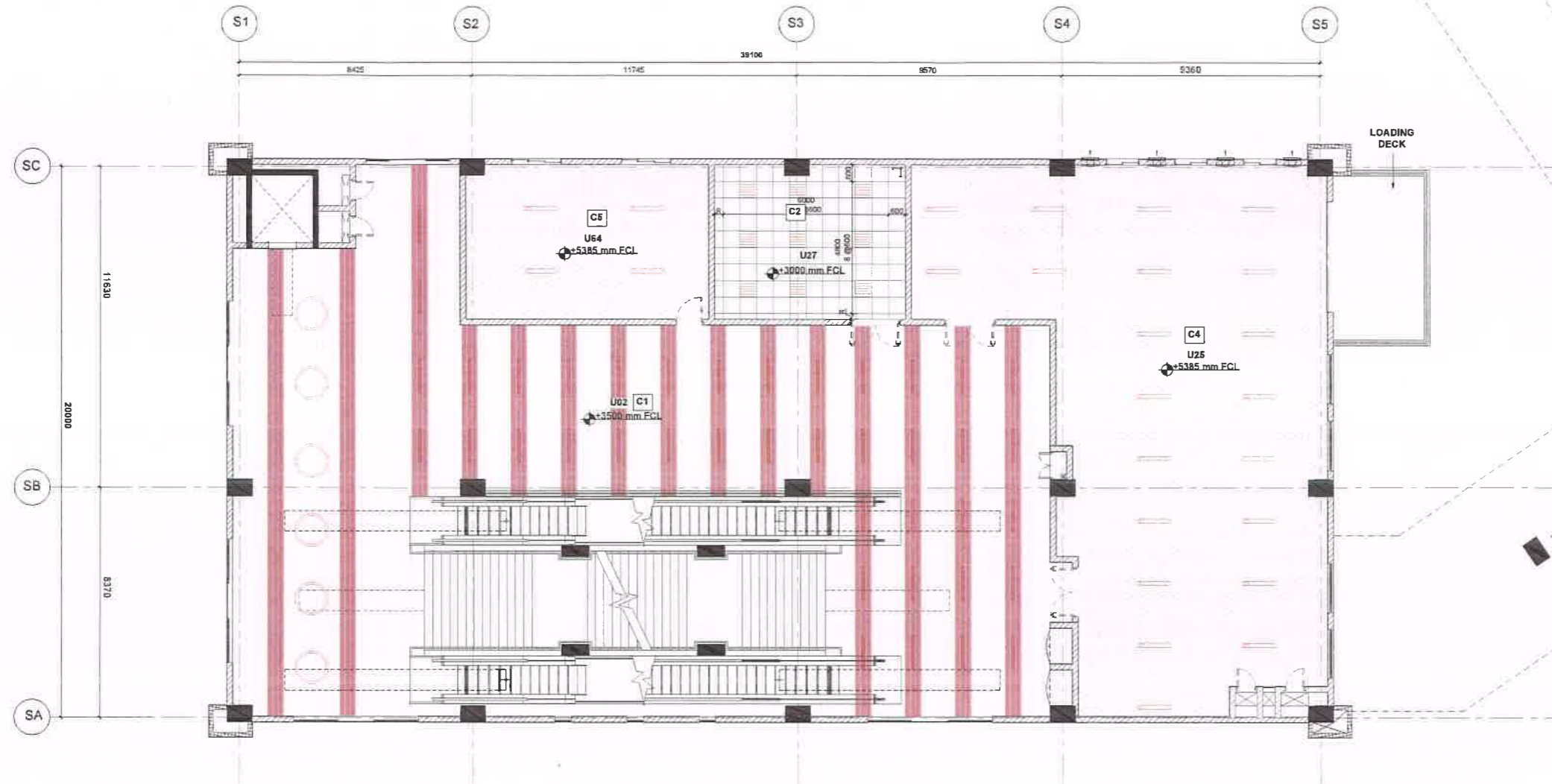
ARCHITECTURE	CIVIL	MEP

PROJECT:	TITLE:	SCALE:
CONTRACT NO. MBDD-01_MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS	MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, GROUND FLOOR LEVEL RCP	1:100
	DRG NO: MM-L6-TD-S03-AR-CI-631	STATUS: TD
		REVISION R0

ARCHITECTURAL

← TO SWAMI SAMARTH NAGAR

TO VIHROLI →



1 FIRST FLOOR LEVEL PLAN
SCALE 1 : 100

TENDER DRAWING

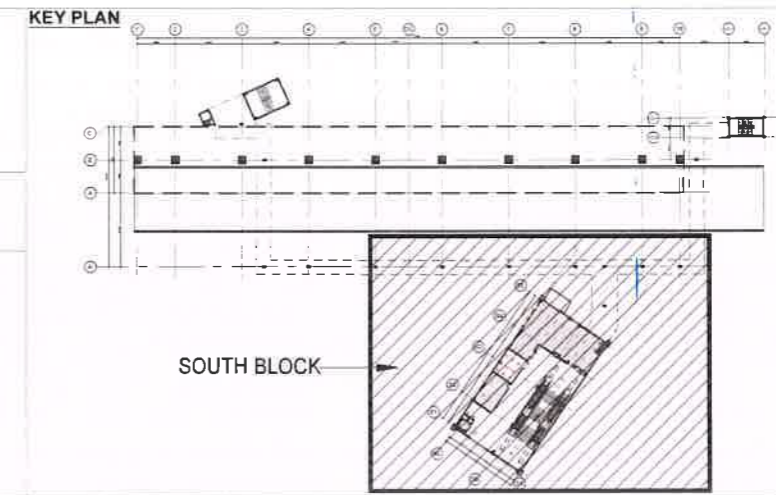
ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM -1	PLATFORM LEVEL	
U02	PAID PLATFORM -2	PLATFORM LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U12	CLEANERS ROOM	PLATFORM LEVEL	
U15F.1	TOILET(F)-1	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PLATFORM LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	S&T/UPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	YES
U45	D/G ENCLOSURE	GROUND FLOOR LEVEL	
U46.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U46.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U64	SPARE ROOM	FIRST FLOOR LEVEL	
U64.1	SPARE ROOM	PAID FOB LEVEL	

LEGENDS
START POINT
FEATURE LIGHTING
LED LIGHT
SURFACE WALL MOUNTED IMPACT-RESISTANT LED LUMINAIRE
SURFACE MOUNTED/ SUSPENDED LED LUMINAIRE
REMAINING PANEL
F.C.L. FINISH CEILING LEVEL

CEILING FINISH LEGENDS
C1 RAFFLE CEILING
C2 RAFFLE CEILING IN LINE COLOR
C3 600/600 SUSPENDED METAL FALSE CEILING
C4 ACRYLIC EMULSION PAINT
C5 ANTI-DUST PAINT
C6 ANTI-CORROSION PAINT
C6 CALCIUM SILICATE CEILING

BLOCK WALL 150mm THICK
CONCRETE SOLID BLOCK WALL 200mm THICK
RCC
MULLION COLUMN



RO	GOOD FOR CONSTRUCTION	DATE	SA	RA
REV	AMENDMENT / REVISION DESCRIPTION	DATE	DRAWN	APPD

EMPLOYER	CLIENT	GENERAL CONSULTANT	DETAILED DESIGN CONSULTANT
MUMBAI METRO RAIL CORPORATION LTD.	DELHI METRO RAIL CORPORATION LTD.	SYSTRA-CEG SMCIPL CONSORTIUM	MM-SMEC

DESIGNATION	NAME	SIGNATURE
MANAGER/ARCHITECT		
DY CA/ARCHITECT		
CHIEF/ARCHITECT		
DEPUTY CHIEF ENGINEER		
DEPUTY EXECUTIVE ENGINEER		

NAME	DESIGNATION	SIGNATURE
ARVIND KUMAR	SR. E&M EXPERT	
L C SARSER	SR. PST EXPERT	
ARUN KUMAR	CHIEF SIGNALLING EXPERT	
BIRJU THACKER	SR. DESIGN EXPERT TELECOM AFC PSD	
N S RANGA	CHIEF INTEGRATION INTERFACE EXPERT	
ROHIT GUSAIN	Deputy PROJECT DIRECTOR	
DR. B. UMESH RAI	PROJECT DIRECTOR	

DRAWN	DESIGNED	VERIFIED
S4	SP/DC	RA

CHECKED BY	SIGN

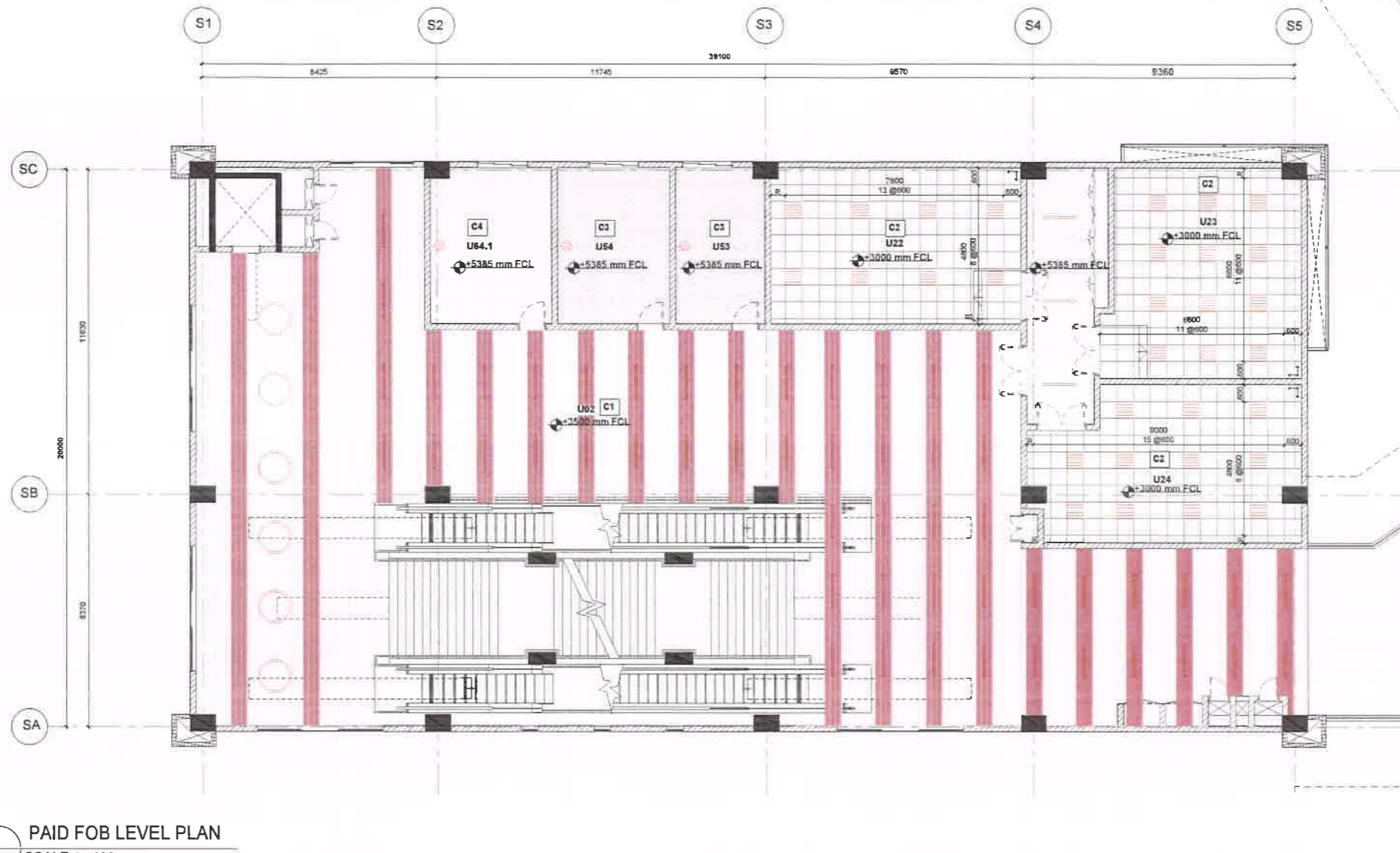
CERTIFIED THAT THIS DOCUMENT/DRAWING HAS BEEN DESIGNED AND CHECKED IN ACCORDANCE WITH DDC QUALITY ASSURANCE PLAN
AUTHORISED SIGNATORY FOR DDC

PROJECT:	TITLE	SCALE
CONTRACT NO. MBDD-01_MUMBAI METRO LINE-6	MUMBAI METRO LINE 6	1:100
SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS	JOGESHWARI STATION SOUTH BLOCK, FIRST FLOOR LEVEL RCP	STATUS: TD
	DRG NO.: MM-L6-TD-S03-AR-CI-632	REVISION R0

ARCHITECTURAL

TO SWAMI SAMARTH NAGAR

TO VIKHROLI



1 PAID FOB LEVEL PLAN
SCALE 1 : 100

TENDER DRAWING

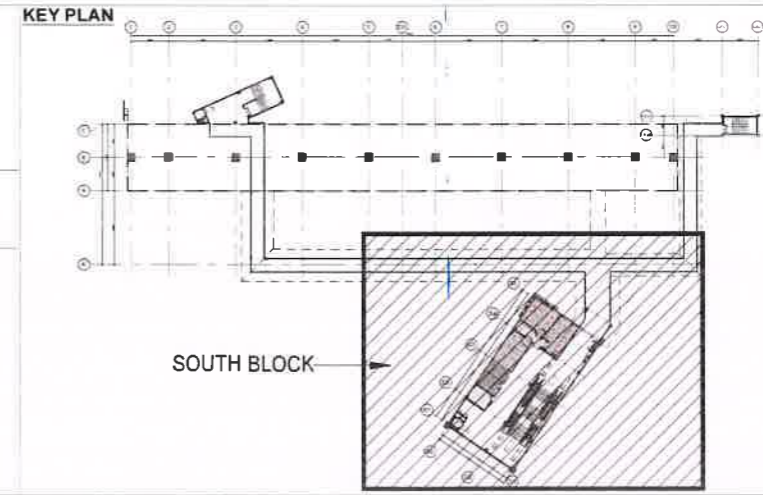
ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM -1	PLATFORM LEVEL	
U02	PAID PLATFORM -2	PLATFORM LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U09.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U12	CLEANERS ROOM	PLATFORM LEVEL	
U15F.1	TOILET(F)-1	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PLATFORM LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	S&T UPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U45	D/G ENCLOSURE	GROUND FLOOR LEVEL	
U45.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U45.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U64	SPARE ROOM	FIRST FLOOR LEVEL	
U64.1	SPARE ROOM	PAID FOB LEVEL	

LEGENDS
START POINT
FEATURE LIGHTING
LED LIGHT
SURFACE WALL MOUNTED IMPACT-RESISTANT LED LUMINAIRE
SURFACE MOUNTED/ SUSPENDED LED LUMINAIRE
REMAINING PANEL
F.C.L FINISH CEILING LEVEL

CEILING FINISH LEGENDS
C1 BAFFLE CEILING
C2 BAFFLE CEILING IN LINE COLOR
C3 400X400 SUSPENDED METAL FALSE CEILING
C4 ACRYLIC EMULSION PAINT
C5 ANTI-DUST PAINT
C6 ANTI-CARBONATION PAINT
C7 CALCIUM SILICATE CEILING

BLOCK WALL 150mm THICK
CONCRETE SOLID BLOCK WALL 200mm THICK
RCC
MULLION COLUMN



EMPLOYER	CLIENT	GENERAL CONSULTANT	DETAILED DESIGN CONSULTANT
MUMBAI METRO MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MMRDA)	DELHI METRO RAIL CORPORATION LTD. METRO BHAWAN FIRE BRIGADE LANE, BARAKHAMBA ROAD, NEW DELHI-110001, INDIA BOARD NO - 23417910/12, FAX NO - 23417921	SYSTRA-CEG-SMCIPL CONSORTIUM B-WING 2 ND floor, Unit-201 Universal Business Park, Ansa Industrial Estate, Chandivali, Andheri East, Mumbai, Maharashtra 400072	MM-SMEC Supreme Business Park, Unit 205, Level - 2, Wing B, Hiranandani Gardens, Powai, Mumbai, Maharashtra 400076 in JV with SMEC

DESIGNATION	NAME	SIGNATURE
MANAGER/ARCHITECT		
DY CA/ARCHITECT		
CHIEF/ARCHITECT		
DEPUTY CHIEF ENGINEER		
DEPUTY EXECUTIVE ENGINEER		

NAME	DESIGNATION	SIGNATURE
ARVIND KUMAR	SR. E&M EXPERT	
L.C. SANSER	SR. PST EXPERT	
ARUN KUMAR	CHIEF SIGNALLING EXPERT	
BIRJU THACKER	SR. DESIGN EXPERT TELECOM AFC PSD	
N.S. RANA	CHIEF INTEGRATION/INTERFACE EXPERT	
ROHIT GUSAIN	Deputy PROJECT DIRECTOR	
DR. B. UMESH RAI	PROJECT DIRECTOR	

DRAWN	DESIGNED	VERIFIED
SA	SP/DC	RA

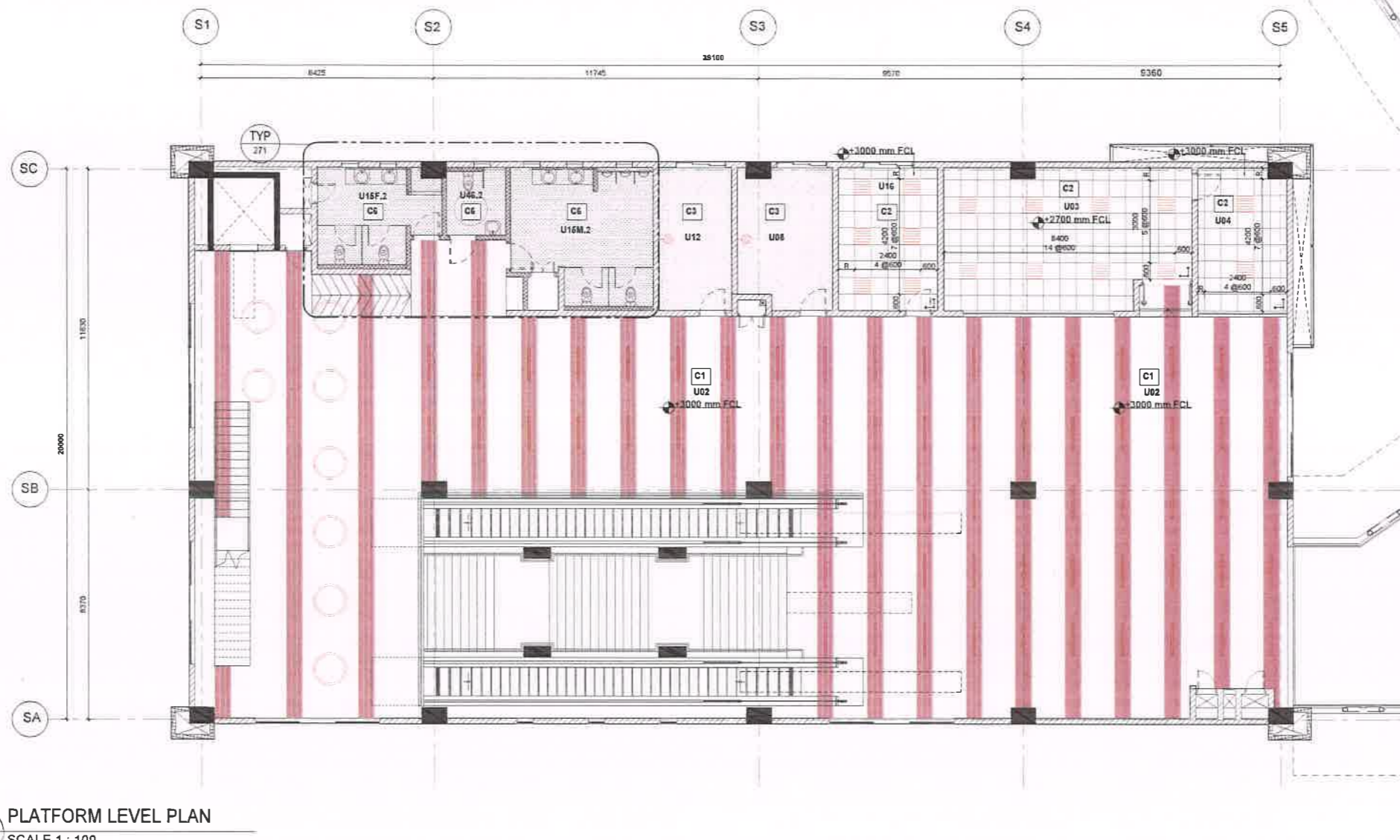
CHECKED BY	SIGN

PROJECT:	TITLE:	SCALE:
CONTRACT NO. MBDD-01_MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS	MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, PAID FOB LEVEL RCP	1:100
		STATUS: TD
		REVISION R0
DRG NO: MM-L6-TD-S03-AR-CI-633		

ARCHITECTURAL

TO SWAMI SAMARTH NAGAR

TO VIKHROLI



1 PLATFORM LEVEL PLAN
SCALE 1 : 100

TENDER DRAWING

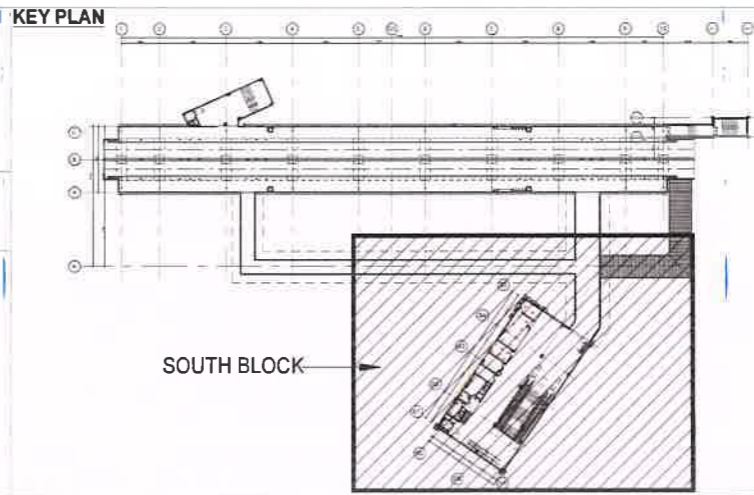
ROOM NOS.	NAME	LEVEL	FIRE DOOR
U01	UNPAID GROUND-1	GROUND FLOOR LEVEL	
U01	UNPAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID GROUND-1	GROUND FLOOR LEVEL	
U02	PAID GROUND-2	GROUND FLOOR LEVEL	
U02	PAID FIRST FLOOR-1	FIRST FLOOR LEVEL	
U02	PAID FIRST FLOOR-2	FIRST FLOOR LEVEL	
U02	PAID PLATFORM -1	PLATFORM LEVEL	
U02	PAID PLATFORM -2	PLATFORM LEVEL	
U03	STATION CONTROL ROOM	PLATFORM LEVEL	YES
U04	STATION MANAGER ROOM	PLATFORM LEVEL	
U05.1	TOM-1	GROUND FLOOR LEVEL	
U05.2	TOM-2	GROUND FLOOR LEVEL	
U07.1	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U07.2	EXCESS FARE OFFICE-1	GROUND FLOOR LEVEL	
U08	FIRST AID ROOM	PLATFORM LEVEL	
U08.1	SECURITY ROOM	GROUND FLOOR LEVEL	
U08.2	SECURITY ROOM	GROUND FLOOR LEVEL	
U09.1	CLEANERS ROOM	PLATFORM LEVEL	
U12	TOILET(F)-1	PLATFORM LEVEL	
U15F.1	TOILET(F)-2	PLATFORM LEVEL	
U15F.2	TOILET(F)-2	PLATFORM LEVEL	
U15M.1	TOILET(M)-1	PLATFORM LEVEL	
U15M.2	TOILET(M)-2	PLATFORM LEVEL	
U16	MESS ROOM	PLATFORM LEVEL	
U22	SIGNALLING EQUIPMENT ROOM	PAID FOB LEVEL	YES
U23	TELECOM EQUIPMENT ROOM	PAID FOB LEVEL	YES

ROOM NOS.	NAME	LEVEL	FIRE DOOR
U24	S&T UPS ROOM	PAID FOB LEVEL	YES
U25	AUXILIARY SUBSTATION	FIRST FLOOR LEVEL	YES
U27	ELECTRICAL UPS ROOM	FIRST FLOOR LEVEL	YES
U43.1	DOMESTIC & FIRE PUMP ROOM	BASEMENT LEVEL	
U45	D/G ENCLOSURE	GROUND FLOOR LEVEL	
U46.1	HANDICAP TOILET.1	PLATFORM LEVEL	
U46.2	HANDICAP TOILET.2	PLATFORM LEVEL	
U53	SOLAR ROOM	PAID FOB LEVEL	
U54	SYSTEM MAINTENANCE ROOM	PAID FOB LEVEL	
U64	SPARE ROOM	FIRST FLOOR LEVEL	
U64.1	SPARE ROOM	PAID FOB LEVEL	

LEGENDS	NOTES
L	START POINT
○	FEATURE LIGHTING
○	SURFACE WALL MOUNTED IMPACT-RESISTANT LED LUMINAIRE
○	SURFACE MOUNTED/ SUSPENDED LED LUMINAIRE
R	REMAINING PANEL
F.C.L.	FINISH CEILING LEVEL

CEILING FINISH LEGENDS	NOTES
C1	BAFFLE CEILING
C1	BAFFLE CEILING IN LINE COLOR
C2	600x600 SUSPENDED METAL FALSE CEILING
C3	ACRYLIC EMULSION PAINT
C4	ANTIDUST PAINT
C5	ANTI-CARBONATION PAINT
C6	CALCIUM SILICATE CEILING

■	BLOCK WALL 150mm THICK
■	CONCRETE SOLID BLOCK WALL 200mm THICK
■	RCC
■	MULLION COLUMN



REV	AMENDMENT / REVISION DESCRIPTION	DATE	DRAWN	APPD.
R0	GOOD FOR CONSTRUCTION	18-08-2023	SA	RA

DESIGNATION	NAME	SIGNATURE
SI/L-6		
OSD/EL2		
DEPUTY CHIEF ENGINEER		
DEPUTY EXECUTIVE ENGINEER		

MANAGER/ARCHITECT	DY CE/DESIGN-I	ED/TECHNICAL	PM	GM/CIVIL

REVIEWED BY	DESIGNATION	SIGNATURE
ARVIND KUMAR	SR. E&M EXPERT	
L C SANSER	SR. PST EXPERT	
ARUN KUMAR	CHIEF SIGNALLING EXPERT	
BIRJU THACKER	SR. DESIGN EXPERT TELECOM AFC.PSD	
N S RANA	CHIEF SIGNALLING EXPERT	
ROHIT GUSAIN	Deputy PROJECT DIRECTOR	
DR. B. UMESH RAI	PROJECT DIRECTOR	

DRAWN	DESIGNED	VERIFIED
SA	SP/DC	RA

CHECKED BY	SIGN

EMPLOYER	CLIENT	GENERAL CONSULTANT	DETAILED DESIGN CONSULTANT
Mumbai Metro	DELHI METRO RAIL CORPORATION LTD.	SYSTRA-CEG SMC IPL CONSORTIUM	MM-SMEC
Mumbai Metro	METRO BHAWAN FIRE BRIGADE LANE, BARAKHAMBA ROAD, NEW DELHI-110001, INDIA. BOARD NO - 234/17910/12, FAX NO - 23417921.	B-WING 2 nd Floor, Unit-201 Universal Business Park, Ansa Industrial Estate, Chandivali, Andheri East, Mumbai, Maharashtra 400072	Supreme Business Park, Unit 205, Level - 2, Wing B, Hiranandani Gardens, Powai, Mumbai, Maharashtra 400076

PROJECT:	TITLE:	SCALE:
CONTRACT NO. MBDD-01_MUMBAI METRO LINE-6 SWAMI SAMARTH NAGAR-JVLR-SEEPZ-KANJUR MARG-VIKHROLI(EEH) ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR ARCHITECTURAL AND BUILDING SERVICES INCLUDING E&M WORKS AND CIVIL WORKS FOR DEPOT, OCC BUILDING AND STAFF QUARTERS INCLUDING PROOF CHECKING OF SUBSTRUCTURE FOR VIADUCT, SPECIAL SPAN INCLUDING ITS SUPERSTRUCTURE AND STATIONS	MUMBAI METRO LINE 6 JOGESHWARI STATION SOUTH BLOCK, PLATFORM LEVEL RCP	1:100
		STATUS: TD
		REVISION R0
	DRG NO.: MM-L6-TD-S03-AR-CI-634	

ARCHITECTURAL

S.N.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
6.3	SS SHEET CLADDING OVER COLUMN Providing , Fabricating, Polishing & Erection of Required Height,Shape and Designing Comprising of 3 mm thick SS Grade 304 Sheet Cladding Over RCC Column on Aluminium Base frame of 25x35x5mm & 450 mm width Perforated (6mm perforations @ 12mm c/c) SS Grade 304 Matte Finished Sheet fixed on Frame 2 nos of 50 mm SS Grade 304 Dia Concentric Pipe, Bracing of 2 rings with 12 nos of 50 mm SS Grade 304 Dia pipe fixed on to the RCC Column with 3 nos. of 20 mm thick Arched shape Plate to support the Frame as per Architectural Drawing (for payment purpose only SS item shall be measured. Aluminium base frame shall be paid extra as per NDSR item no 6.19 6.11).	KG	50	847.38	42,369.00
6.4	SS GRATING Providing & Fixing 300mm wide SS Grating of length as per architectural drawing with 3mm thick 304 Grade SS pressed plate with 6mm wide slits @ 15mm c/c with 35mm X 35mm X 5mm SS grade 304 tube section welded all around edges and at suitable interval for support, flushed with Floor finish including providing & fixing necessary MS angle frame/SS frame etc. complete As/ Drawing (for payment purposes only SS item shall be measured)	KG	50	762.65	38,132.50
6.5	SS SUMP COVERS Fabrication, supply and erection of matte finish grade 304 SS sump covers of size 600mm X 600mm suitably supported & fixed over MS frame along with granite stone matching with relevent floor finish, lifting hooks/keys etc. complete as per architectural drawing.	EACH	25	12,710.79	3,17,769.75
6.6	SS SHEET CLADDING / SKIRTING Providing & fixing of 3mm thick SS Grade 304 sheet cladding/ skirting on aluminium base frame 25 thk complete as / engineer in charge. (For payment purpose only SS item shall be measured. Aluminium base frame shall be paid extra as per relevant item.)	KG	25	677.92	16,948.00
6.7	SS JALI Fabrication, Supply & Installation of Stainless Steel Panel-jali (Conforming to SS-304 Grade,Scotch Brite Finish) consisting of 2 mm thk sheets with 19 mm dia perforations at a pitch of 25 mm, to be fixed between two balustrades with necessary arrangement for holding the panel-Jali to the balustrade as per drawing /details.	SQM	25	12,710.79	3,17,769.75
6.8	Fabrication, supply and erection of Hot dip galvanized MS cover plate, fabricated from minimum 6mm thick MS chequered plate fixed over cleats, stiffeners, runners using 40X40X6 mm Ms angle grouted in position etc. complete as per directions of engineer-in-charge (only galvanized chequered plate is covered under this item. Other items shall be paid by weight separately.)	KG	250	135.59	33,897.50
6.9	CHICKEN WIRE MESH Providing approved galvanized chicken wire mesh (24 gauge 12mm size) to junctions of concrete and masonry work and other locations where called for including cutting to required sizes side laps of minimum 75mm and fixing in position with galvanized wire nails as approved complete.	SQM	555	70.80	39,294.00
6.10	Providing and fixing MS tube of approved size by welding etc. for substructure for panels, screens etc. including applying a priming coat of approved steel primer and fixed with dash fasteners complete.	KG	250	157.61	39,402.50
6.11	Providing and fixing aluminium mill finish sub frame work with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285 fixed with rawl plugs and stainless steel screws etc.	KG	125	677.92	84,740.00
6.12	COUNTERS WITH MS FRAME Providing and installing counters of MS (with primer and 2 coats of enamel paint) carcass in TOM, EFO, SCR etc. with 30mm polished & moulded Jet Black Granite top with all cutouts/ openings including providing and fixing over 19mm thick commercial board BWR grade complying to IS 303 etc, including Granite fascia of 100 mm etc & 19 x 3 mm teak wood lipping all complete of approved quality as per specifications and relevant drawings (Plan area shall be considered for measurement)	SQM	50	5,006.74	2,50,337.00
6.13	INTERNAL METAL WALL CLADDING Providing and installation of metal wall cladding with flexible rail channel system ensuring individually demountable wall elements suitable for installing horizontally 600-750mm wide panels upto 1800mm length manufactured from 1.0mm thick galvanised mild steel (GMS) with minimum 60micron powder coating.The panels shall be Non Perforated surfaces as per the design requirement. Substructure consisting of C Channel profile 50x50x1.20mm GMS, installed vertically to which the wall panels are inserted in a positive locking and tension-free manner along with the Fixing Bracket 57X54X57X70mm which are fastened to the load-bearing frame/wall using officially approved fastening equipment that has been selected in accordance with the local project specific requirements and fastened professionally.The distances of the C channels and the wall bracket used as load-bearing profiles for the wall panels have to be defined according to the installation manual and must be proven and established by the contractor. It must be ensured that the distances of the profiles are exactly designed with regard to the module width of the wall panels so that the wall panels can be suspended in a positive-locking and tension-free way. Ensure horizontal and flush alignment during the installation of the profiles. Only construction parts may be used that have been approved by the manufacturer of the wall claddings. All load-bearing parts must be made of galvanised steel sheet. For finishes,ASTM B117, Salt Spray (fog) test 500 hours on powder coated galvanized steel sheet, ISO 2409, paint and vanishes, cross cut test on powder coated galvanized steel sheet.Tolerances according to TAIM, DIN EN 13964 and quality controlled to ISO 9001:2015 approved by SIS. Any additional framing, bridging, lateral supports, back support substructure (if required) shall be in the Main contractor scope. Finish: RAL Powder Coated Non Metallic Shade (Internal Application) in a fully automated & conveyORIZED powder coating system with pre-treatment nano technology & inline automatic WDS.	SQM	1653	10,443.00	1,72,62,279.00
6.14	INTERNAL METAL WALL CLADDING (WITH DIGITAL PRINTING) Providing and installation of metal wall cladding with flexible rail channel system ensuring individually demountable wall elements suitable for installing horizontally 600-750mm wide panels upto 1800mm length manufactured from 1.0mm thick alvanised mild steel (GMS) with minimum 60micron powder coating.The panels shall be Non Perforated surfaces as per the design requirement. Substructure consisting of C Channel profile 50x50x1.20mm GMS, installed vertically to which the wall panels are inserted in a positive locking and tension-free manner along with the Fixing Bracket 57X54X57X70mm which are fastened to the load-bearing frame/wall using officially approved fastening equipment that has been selected in accordance with the local project specific requirements and fastened professionally.The distances of the C channels and the wall bracket used as load-bearing profiles for the wall panels have to be defined according to the installation manual and must be proven and established by the contractor. It must be ensured that the distances of the profiles are exactly designed with regard to the module width of the wall panels so that the wall panels can be suspended in a positive-locking and tension-free way. Ensure horizontal and flush alignment during the installation of the profiles. Only construction parts may be used that have been approved by the manufacturer of the wall claddings. All load-bearing parts must be made of galvanised steel sheet. For finishes,ASTM B117, Salt Spray (fog) test 500 hours on powder coated galvanized steel sheet, ISO 2409, paint and vanishes, cross cut test on powder coated galvanized steel sheet.Tolerances according to TAIM, DIN EN 13964 and quality controlled to ISO 9001:2015 approved by SIS. Any additional framing, bridging, lateral supports, back support substructure (if required) shall be in the Main contractor scope. Finish: RAL Powder Coated Non Metallic Shade (Internal Application) in a fully automated & conveyORIZED powder coating system with pre-treatment nano technology & inline automatic WDS + the panels would be provided with RAL Flexible PPC with Digital Printing pattern with clear coat.	SQM	1652	13,098.00	2,16,37,896.00
	TOTAL OF METAL WORKS				13,22,98,947.70
7.0	GLASS WORKS				

SCHEDULE - B**SUMMARY OF SCHEDULE - B : DSR ITEMS****ARCHITECTURAL FINISHING AND PLUMBING WOKRKS (DSR ITEMS)**

Sub-Head	Description of Sub Head	Amount (Rs.)
SUMMARY PART- B.1 : ARCHITECTURAL FINISHING WORKS DSR ITEMS		
1.0	TOTAL OF EARTH WORKS	8,54,059.25
2.0	TOTAL OF CONCRETE WORKS	2,59,65,557.20
3.0	TOTAL OF REINFORCED CEMENT CONCRETE WORKS	13,03,246.55
4.0	TOTAL OF BRICK WORKS	6,87,562.50
5.0	TOTAL OF FLOORING WORKS	78,97,586.00
6.0	TOTAL OF CLADDING WORKS	12,49,526.55
7.0	TOTAL OF STEEL WORKS	10,47,499.20
8.0	TOTAL OF FINISHING WORKS	11,46,062.25
9.0	TOTAL OF WATERPROOFING WORKS	32,60,079.10
10.0	TOTAL OF ALUMINIUM WORK	9,35,256.50
11.0	TOTAL OF EXTERNAL DEVELOPMENT WORKS	13,46,689.50
	SUB-TOTAL OF ARCHITECTURAL FINISHING WORKS (PART-B.1) EXCL. 22.214%	4,56,93,124.60
Para 3 of Preamble	TOTAL OF ARCHITECTURAL FINISHING WORKS (PART-B.1) INCL. 22.214%	5,58,43,395.30
SUMMARY PART- B.2 : PLUMBING WORKS DSR ITEMS		
12.0	TOTAL OF DRAINAGE SYSTEM WORKS	19,67,535.95
13.0	TOTAL OF SEPTIC TANK WORKS	19,10,958.90
14.0	TOTAL OF RAIN WATER HARVESTING	5,27,410.70
15.0	TOTAL OF MISCELLANEOUS WORKS	2,74,865.45
	SUB-TOTAL OF PLUMBING WORKS (PART-B.2) EXCL. 22.214%	46,80,771.00
Para 3 of Preamble	TOTAL OF PLUMBING WORKS (PART-B.1) INCL. 22.214%	57,20,557.47
SUMMARY PART- B.3 : ANY OTHER DSR ITEMS		
16.0	TOTAL OF OTHER DSR ITEMS NOT COVERED IN B1 & B2	75,00,000.00
	TOTAL OF PLUMBING WORKS (PART-B.3) INCL. 22.214%	75,00,000.00
	TOTAL (INCL. 22.214%)	6,90,63,952.77

S.N.	DSR 2021 (Code No.)	Description	Unit	Qty	DSR 2021 RATE (RS)	Amount (Rs.)
14.2.4	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	39	1,309.00	51,051.00
14.2.5	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer –incharge.	cum	39	1,309.00	51,051.00
14.2.6	23.8	Gravel packing in tubewell construction in accordance with IS: 4097,including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	5	1,479.25	7,396.25
14.2.7	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four no longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mmcomplete, all as per direction of Engineer-in-charge.	each	10	1,213.25	12,132.50
14.2.8	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
(a)	23.13.1	100mm dia	each	10	189.65	1,896.50
14.2.9	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
(a)	23.14.1	100mm clamp.	each	10	1,522.50	15,225.00
14.2.10	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
(a)	23.15.1	100mm dia	each	10	228.25	2,282.50
TOTAL OF PIPING WORKS CARRIED OVER TO SUMMARY OF RAIN WATER HARVESTING						3,60,954.45
TOTAL OF RAIN WATER HARVESTING						5,27,410.70
15.0	MISCELLANEOUS WORKS FOR RAIN WATER HARVESTING, SEPTIC TANK & WATER SUPPLY SYSTEM					
15.1	19.16	Providing orange colour safety foot rest of minimum 6mm thick plastic encapsulated as per IS:10910 on 12mm dia steel bar conforming to IS:1786 having minimum cross section as 23 mm x 25mm and over all minimum length 263mm and width as 165mm with minimum 112mm space between protruded legs having 2mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30 x 20 x 15cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) complete as per design.	Each	17	487.10	8,280.70
15.2	19.19	Providing & fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality.				
	19.19.1	L D- 2.5				
(a)	19.19.1.3	Circular shape 450 mm internal dia. (For ALL OHT)	Each	5	1,047.80	5,239.00
(b)	19.19.4.1	Circular shape 560 mm internal dia. (For UGT, RWH & ST)	Each	5	1,882.20	9,411.00
15.3	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design:				
	19:27:01	With common burnt clay F.P.S. (non- modular) bricks of class designation 7.5	Each	20	5,589.45	1,11,789.00
15.4	19.32	Making soak pit with 45 x 45cm dry brick honey comb shaft with bricks of class designation 75 and SW drain pipe 100 mm diameter, 1.8m long complete as per standard design and as shown on drawing				
(a)	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5	28,029.15	1,40,145.75
TOTAL OF MISCELLANEOUS WORKS						2,74,865.45
SUB-TOTAL OF B.2 - PLUMBING WORKS (DSR)						46,80,771.00
Add 22.214% (Refer Para -3 of Preamble, Vol.6)						10,39,786.47
TOTAL OF B.2- PLUMBING WORKS (DSR)						57,20,557.47
Note:	All works under Schedule 'B' of BOQ shall be paid in DSR' 2021 plus 22.214%. DSR 2021 rates has been incorporated to prevailing GST rate @18% w.e.f July 2022 as per the orders of Govt. of India, Ministry of Finance (Department of Revenue) and Cost index factor for Mumbai @16% as published by CPWD.					

Contract BC-05: DMRC/MU/LINE6/BC/05: Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof Sheetting Of Pre-Engineered Building (Peb) Structures And Design & Construction Of External Facade, Water Supply, Sanitary Installation, Drainage, Site Development Works At Five (05) Elevated Stations Namely Maha Kali Caves, Seepz Village, Saki Vihar Road, Rambaug & Powai Lake Of Line-6, Swami Samarth Nagar To Vikhroli (Eeh) Corridor Of Mumbai Metro Rail Project.

SUB HEAD - B.3 - ANY OTHER DSR ITEMS (DSR'2021)

S.N.	DSR 2021 (Code No.)	Description	Unit	Qty	DSR 2021 RATE (RS)	Amount (Rs.)
B		C - ANY OTHER DSR ITEMS (DSR2021)				
		Any other DSR'2021 Items for Architectural finishing Works and Plumbing & Sanitary works which are not covered under Sub-schedules B1 & B2	LS			75,00,000.00
		ANY OTHER DSR ITEMS (INCL. 22.214%)				75,00,000.00

Contract: DMRC/MU/LINE-6/BC-06: "Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project".

Sr.No	Tender doc. Volume No & Section No.	Clause No./ Item No.	Reference Tender Documents Clause	Queries	Reply from DMRC
(I)	Bidder-A				
1	Volume - 1 - FOT	Appendix - 1	(iv) Liquidated damages - The maximum limit of Liquidated Damages shall be 10% of the total Contract Value.	Requested for maximum LD shall be 5% of contract value.	No change in Tender Condition.
2	Volume - 1 - FOT	Appendix - 1	(iv) Liquidated damages -Total maximum limit of LD including sums payable by the employer to designated contractors is 15% as mentioned in GCC.	Requested for maximum LD including sums payable to designated contractor shall be 5% of contract value.	No change in Tender Condition.
3	Volume - 2 - GCC	Clause 11.2.1 (a)	Mobilisation advance shall be generally limited to 5% of original CV payable in two equal instalments or as mentioned in the special conditions of contract.	Requested for mobilisation advance shall be paid 10% of original CV payable in two equal instalments.	No change in Tender Condition.
4	Volume - 2 - SCC	Clause No.11.1.3	10 =Minimum daily wage in Rupees of an unskilled worker, issued by Chief Labour Commissioner (Central), as applicable to Delhi area for the previous month in which the tender was opened.	Requested to consider minimum daily wage of an unskilled worker, issued by Chief Labour Commissioner (Central), for Mumbai area instead of Delhi area as project location is Mumbai.	Please refer Note provided under clause no.11.1.3 of SCC, which is self explanatory. No change in Tender Condition.
5	Volume - 3 - Employer's Requirement (Construction)	Clause No.10	(iii) Site Office for MMRDA and GC staff	We presume site office for MMRDA and GC staff shall be provided at one location only, not every station locations.	No such condition is mentioned in the clause no.10 under Employer's requirement - Construction.
6	Volume - 6 - BOQ	Sch.B1	Rolling Shutter	As per BOQ item, rolling shutters are manually operating shutters, but as per tender drawings it seems motorised rolling shutters. Requested to provide motorised rolling shutters item in BOQ.	The work shall be executed as per BOQ.
7	Volume - 6 - BOQ	Sch.A2 Item No.9.2	Solid Acrylic Countertops Providing and fixing 12mm thick Corian solid acrylic material in counter tops for Wash Rooms with Wash Basins troughs, column cladding, SCR, TOM, EFO etc. The Corian shall be fixed over 12mm thick external gradeply/cement board with all necessary MS/ GI framework/ bracket, bracket, fasteners etc including making provisions for fixing fittings, making holes as required etc complete. (The rates are inclusive of all material, labour, T&P, brackets, fasteners etc. complete in all respect and as per the direction of Engineer- in-Charge.)	There is vast difference between providing and fixing corian wash basin counter and cladding work, Hence requested to provide separately items for different work.	The Corian solid acrylic material can be used for vertical surfaces in addition to the countertops as described in the BoQ item. The vertical surfaces shall be measured and paid as per the item description.
8	Volume - 6 - BOQ	Sch.A2 Item No.6.3	Aluminium base frame shall be paid extra as per NDSR item no 6.19.	Requested to correct referred BOQ item number (it may be DSR-10.1.1.1). Please clarify	Please refer Addendum No.1. Tenderer may refer the item No.6.11 under Sch.A1 instead 6.19.
9	Volume - 6 - BOQ	Sch.A1 Item No.12.5	Wash Basin (Counter Top Oval Wash Basin Size 660 mm x 460 mm) Providing and fixing best Indian make white vitreous chinaware wash hand basin mounted on cantilever supports fixed to wall including making all connections, necessary fitting, screws and cutting and making good to wall and floor wherever required all complete as per direction of engineer - in - charge, comprising of counter top oval wash basin size 560 mm x 410 mm Flow Requirement (in LPM) of washhand basins faucets shall be 6LPM at design water pressure 3.0 bar	Requested to provide Model no. and make for Counter Top Oval Wash Basin Size 660 mm x 460 mm."	Please refer Technical Specification for make list. If not available in Technical Specifications, approved 'Manufactures list for architectural finishing works' annexed to technical specification shall be followed.
10	Volume - 6 - BOQ	Sch.A1 Item No.19.9	Providing, fabricating, erection and fixing of Lightning arrestor steel of size 250mm x 200mm x 6mm with 12mm dia GI nut, bolt & washer for fixing of SS stand of LA pit supplied by E&M contractor and fixing with roof sheet and purlins by self drilling screws of size 12x14x55 over roof sheeting including all material, plant and machinery, labour charges etc all complete as per the direction of Engineer -in - Charge.	Requested to provide us approved make of lightning arrestor	Only the lightning arrestor provision to be provided under this item as described. Lightning arrestor shall be provided & installed by system contractor over the provision made by the finishing contractor.
11	Volume - 5 Tender Drawings.	-	Tender Drawings.	The drawings are provided in PDF. We request you to provide the drawings in AUTO CAD. So that, it would be helpful to contractor to analyse the areas properly and to design further	No CAD files shall provide to contractor.
12	Volume - 1 - NIT	Para 1.1.2	Key details Date of submission of Tender	We require more time for getting quotes from specialized agencies with their quires and Estimation work. You are requested to extend submission date by 21 days after receipt of clarifications.	Please refer Addendum No.1.

Contract: DMRC/MU/LINE-6/BC-06: "Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project".

Sr.No	Tender doc. Volume No & Section No.	Clause No./ Item No.	Reference Tender Documents Clause	Queries	Reply from DMRC
(II) Bidder-B					
13	Volume 1 -NIT	Clause No. 1.1.3.2	<p>Minimum Eligibility Criteria:</p> <p>Work Experience: The tenderers will be qualified only if they have successfully completed or substantially completed similar works during last seven years ending last day of the month previous to the month of tender submission as given below:</p> <p>(i) At least one —similar work* of value of INR 98.87 Crores or more. OR (ii) Two —similar works*each of value of INR 61.79 Crores or more.. OR (iii) Three —similar works*each of value of INR 49.43 Crores or more..</p> <p>*The "Similar works" for this contract shall be — Architectural finishing works or complete Civil & Architectural finishing (Internal / External) of Metro Station/ Depot/ any Building (which may include stone work, façade, footpath, internal roads & plumbing works etc.) and Pre-Engineered Building (PEB) works, wherein the value of Pre-Engineered Building (PEB) works must be Rs.18.61Crores or more in any one work. In case, the similar work as specified above does not include —Pre-Engineered Building (PEB) works, then bidder has to submit one separate Pre-Engineered Building (PEB) work of value Rs.18.61Crores or more executed by them in any other single contract.</p> <p>Further, in case the bidder submits the composite work including Civil and architectural finishing(which may include stone work, façade, footpath, internal roads & plumbing works etc.) then the minimum value of Architectural finishing in one work shall be Rs. 49.43 Crores or more.</p> <p>Further, in case the bidder does not have required work experience of —Pre-Engineered Building (PEB) works of value of Rs.18.61 Crores or more in a single work and intends to engage a subcontractor for this work, the sub-contractor must have executed work of —Pre-Engineered Building (PEB) works of value of Rs.18.61Crores or more in a single work. Bidder shall submit an undertaking in this regard along with their technical bid.</p>	<p>We had executed Metro Station Building G+2 with Height 23.68 Mtr including Prestressed work, RCC work, Structural Steel work, all finishing and architectural work, Electrical work, HVAC work, Fire fighting work, etc. Our Metro Project Cost - 104 Cr. executed on July 2020. Price level enhancement assuming 5% , then total cost of project is Rs.123.1 Cr.</p> <p>So we kindly request to consider this building as similar work.</p>	Tender conditions are self explanatory.
(III) Bidder-C					
14	Volume 1 - NIT	Para 1.1.2	Key details, Date of submission of Tender	Tender submission end date: 09.10.2023(1500 hrs)- Due to festival season it is requested to extend the submission date for at least 15 days further.	Please refer Addendum No.1.
15	Volume 1 - NIT	Para 1.1.3	Volume 1 - NIT - Key details, Para 1.1.2 Completion period- 24 months	The civil works in all the stations are in progress & will take more time before handing over-forArchitectural finishing & PEB works. It is therefore requested to enhance the completion period from 24(Twenty four months) to 30 (Thirty) months to complete the work as per schedule.	No change in tender condition.
16	Volume - 1 - NIT	Appendix 1	(I) Amount of Performance Security - 10%of the Contract Price in types and proportions of currencies in which the contract price is payable. In the event of variations during the execution of the contract which result in payments to the Contractor over and above the contract price, the Performance Security shall beadjustedin accordance with clause 4.2 of GCC.	Finance Ministry of Govt. of India has reduced the PG for 10% to 3% during COVID period vide Office Memo dated 12.11.2020. It is therefore requested to reduce the PG from 10% to 3% due to present financial crunch in the market.	No change in tender condition.

Contract: DMRC/MU/LINE-6/BC-06: "Architectural Finishing Works Including Design, Fabrication, Supply, Erection & Roof sheeting of Pre-Engineered Building (PEB) Structures and Design & Construction of External facade, Water Supply, Sanitary Installation, Drainage, Site development works at Five (05) Elevated Stations namely Swami Samarth Nagar, Adarsh Nagar, Jogeshwari (W), JVLR & Shyam Nagar of Mumbai Metro Line 06 Project".

Sr.No	Tender doc. Volume No & Section No.	Clause No./ Item No.	Reference Tender Documents Clause	Queries	Reply from DMRC
17	Volume - 2 - GCC	Clause No.4.21:	<p>Sheds, stores, yards It shall be the responsibility of the Contractor to provide at his own expense the required sheds, store houses, and yards for both Permanent and Temporary Works and provide free access to the Engineer and the Engineer's Representative who will have right of inspection including that of instructing the Contractor to remove a particular material from the stores and not to use the same on the Works.</p> <p>Volume - 3 - Employer's Requirement - Functional: Clause No.2.10 - Work area & Dumping area C&D Waste generated from construction sites during construction to be transported to any other processing plant only from the site/ identified area as per direction of Engineer-in-charge and cost of the same is also included in quoted price. Contractor shall use his own premises / workshop for Granite cutting, Stacking yard fabrication of structural steel work as required for the contract at his own cost.</p> <p>Volume - 3 - Employer's Requirement - Functional: Clause No.2.12- Site establishments Site Laboratories: The Contractor shall provide, erect and maintain in a clean, stable and secure condition a site laboratory equipped for the routine testing of concrete, soil and rock samples and for the storage and curing of concrete cubes or cylinders only. This laboratory shall be located at the Contractor's principal work site or at a location agreed to by the Engineer. Detailed requirements for this laboratory are set out in Appendix 14.</p>	At least 20000 sq.m. land is required for the fabrication & temporary erection of the structures near to site because of fabrication of 1000MT (Approx.) & stacking area is also required even may be below Fly overs, to complete the work with a period of 24 months due to restricted completion time. Also 5000 sq.m.(approx.) land parallel to station areas is also required for temporary stacking the fabricated materials during erection at each station, as it is not possible to transport & erect the each structure simultaneously.	Pls refer Cl No. 2.10 Work area & Dumping area of Vol-3/Functional. Further, Contractor has to manage it in station box boundary at street level, concourse/Sky bridge level and Platform Level. Pls refer Cl No. 12.0 Traffic Management of Vol-3/Functional.
18	Volume - 3 - Employer's Requirement (Appendices)	Appendix 2B	Key dates	A. For finishing works in stations- Key dates shall be removed from this tender appendix as the time to handover the site is not seems to be possible. It is observed that after passing of key date for any reason DMRC impose the penalty as per clause & it will be very difficult to get waive off the same from DMRC even though it does not pertains to contractor.	No change in tender condition.
19	Volume-6 - BoQ	Appendix-I of schedule A	Stage Payment - Item No. (i) & (ii)	Against item (i) for procurement & testing of steel - 40% of BOQ has been shown which has to be 50% & for item. This 10% can be adjusted against item iii) where the payable %age would be 5% instead of 10% & iv) for erection from 20% to 15%.	No change in tender condition.
20	Volume-6 - BoQ	Appendix-I of schedule A	Stage Payment	The payment against item i) & ii) has been shown against BG. But these payments should be against indemnity bond similar to item iii), as the material will be with RDSO vendor during fabrication. The availability of BG is quite difficult & not practical.	No change in tender conditions.
21	-	-	Miscellaneous	It is requested that the foundation bolts has to be provided by Civil contractor for smooth working.	No change in tender condition. Tender documents are self explanatory.