

MUMBAI METRO RAIL CORPORATION LTD

TENDER DOCUMENT

E-TENDER FOR

Repair & Restoration of Thackersey building
(G +3 Heritage II A structure) at Ballard Estate, Mumbai.

2nd Call

ESTIMATED COST: Rs. 2,85,98,371/-

TENDER COST : Rs.10,000/- (Non-Refundable)

BID DOCUMENT

Mumbai Metro Rail Corporation Limited

4th floor, NaMTTRI Building, Behind MMRC ,Plot No R-13,E Block,
Bandra-Kurla Complex,Bandra (E), Mumbai – 400 051.

e- Tender Notice



Mumbai Metro Rail Corporation Limited

4th floor, NaMTTRI Building, Behind MMRDA, Plot No R-13, E Block,
Bandra-Kurla Complex, Bandra (E), Mumbai – 400 051.

e- Tender Notice

2nd Call

Mumbai Metro Rail Corporation Limited (MMRC) invites bids through e-Tendering portal from experienced and qualified agencies/firms having valid registration under appropriate class and category with the Government of Maharashtra or other State Governments/ Government of India, Government undertakings, MCGM and having experienced in similar type of work.

Sr	Parameters	Details		
1	Tender /Bid No.	MMRDA/MMRCL/		
2	Division	Project		
3	Name of work	Repair & Restoration of Thackersey building (G+ 3 Heritage II A structure) at Ballard Estate, Mumbai (2nd Call)		
4	Estimated Cost put to Tender	Rs 2,85,98,371/-		
5	Contact details	Shri A.N. Bhasme (DGM), 91-022-26384637, Ashok.bhasme@mmrcl.com . Shri K.Sathish (AGM), 91-022-26384641, sathish.k@mmrcl.com .		
6	Important dates	Milestone	From date/time	To date/time
		Tender release	20.02.2016	-
		Bid document download	22.02.2016 from 3.00 pm	29.02.2016 till 3.00 pm
		Last date of Online submission	-	29.02.2016 till 3.00 pm (IST)

The e-Tender can be downloaded on registration on <http://www.etendermmrda.maharashtra.gov.in> as per above mentioned dates. Any additional information & help for uploading & downloading the e-tender, may be availed by contacting MMRDA's e-tendering service desk at the following etendersupport@mailmmrda.maharashtra.gov.in or call us on 022 – 26595971.

Date: 20/01/2016

Place : Mumbai

Sd/-

Chief General Manager (G)

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Chapter – I

Detailed e-Tender Notice and guidelines For submission of tender

CHAPTER-I

DETAILED e-TENDER NOTICE AND GUIDELINES FOR SUBMISSION OF TENDER

e-Tendering Portal: <https://etendermmrda.maharashtra.gov.in>

Mumbai Metro Rail Corporation Limited (MMRC) invites percentage rate bids through e-tendering portal for Repair & Restoration of Thackersey building (G+3 Heritage II A structure) at Ballard Estate, Mumbai, from agencies/firms fulfilling conditions as under:

1. Bidders having valid registration under appropriate class and category with the Government of Maharashtra or other State Governments/ Government of India, Government undertakings, MCGM.
2. Bidders should have minimum average annual financial turnover from civil engineering works during the last 3 years, ending 31st March of 2015 should be at least Rs. 1.00 cr.
3. Bidders having experience of having successfully completed similar kind of works during last 7 (Seven) years ending with last day of the month previous to the one in which the bids are invited should be either of the following –
 - a.
 - i. Three similar completed works costing not less than the amount equal to 40% of the estimated cost.
Or
 - ii. Two similar completed works costing not less than the amount equal to 50% of the estimated cost.
Or
 - iii. One similar completed work costing not less than the amount equal to 80% of the estimated cost.
 - b. Repair and restoration of multi-storeyed buildings in urban area consisting of brick and stone masonry, restoring/replacement of wooden columns, floor beams, roof trusses, manglore tiled roof in Heritage structures shall be treated as similar work.
4. Contractor should upload scanned copy of solvency certificate to the extent of 20% of the estimated cost at the time of bid submission & PAN Card.
5. The tenders will be received online on above mentioned MMRDA's official etendering portal and will be opened by Chief General Manager (G) or his authorized representative on scheduled date and time.
6. Details of tender:
 - a. Name of Work: Repair & Restoration of Thakersey building (Gr +3 Heritage II A structure) at Ballard Estate, Mumbai
 - b. Estimated Cost of Work: (Rs. 2,85,98,371/-)
 - c. Bid Security : (Rs. 2, 86,000/-)
 - d. Period of Completion in Months: 6 months (including monsoon)

7. Online E-Tender Schedule:

Sr. No.	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time
1	Tender Authorization and Publishing	-----	20/2/2016,	22/2/2016, 15.00 hrs
2	-----	Tender Document Download	22/2/2016, 15.00 hrs	29/02/2016, 15.00 hrs
3	-----	Bid Preparation and Submission	22/2/2016, 15.01 hrs	29/02/2016, 15.00 hrs
4	Tender Closing	-----	29/02/2016, 15.01 hrs	29/02/2016, 18.00 hrs
5	-----	Online Control Transfer of Bid	29/02/2016, 18.01 hrs	1/03/2016, 18.00 hrs
6	Opening Envelope A-Tender Fees, EMD	-----	2/03/2016, 10.00 hrs	2/03/2016, 12.00 hrs
7	Opening Envelope B - Technical Bid	-----	2/03/2016, 12.00 hrs	2/03/2016, 18.00 hrs
8	Opening Envelope C - Financial Bid	-----	3/03/2016, 10.00 hrs	3/03/2016, 18.00 hrs

8. Bidders should have valid class 2 or 3 Digital Signature Certificate (DSC) having both Signing and Encryption Certificates obtained from any Certifying Authorities empanelled by Controller of Certifying Authorities India. In case of requirement of DSC, Bidders should go to <https://etendermmrda.maharashtra.gov.in/files/mmrda/misc/Digital%20Certificate.rar> and follow the procedure mentioned in the document procedure for Digital Certificate. Bidders who are participating in e-tendering for the first time shall have to obtain User ID & password from the above mentioned portal.
9. Tender Document and Supporting can be downloaded for reference purpose from the e-Tendering Portal of MMRDA during the period mentioned in the tender notice. Interested Bidders have to make online payment of Rs. 10,000/- (Rupees Ten Thousand only) inclusive of MVAT (non-refundable) as Tender Processing Fee using online payment gateway during bid preparation using Debit Card/Credit Card/Net Banking. Tender Fee receipt will be system generated during bid preparation.
10. Tender Fee receipt must be uploaded during bid preparation by the bidder.
11. The competent authority reserves the right to reject any or all of the tender offers, without assigning any reasons thereof.
12. The bids shall be received online on above mentioned MMRDA's official e-Tendering portal.

13. Validity period of the offer of the bidder will be 180 days from the date of opening of the financial bid of the e-tender.
14. The lowest bidder will have to submit the rate analysis of all major items, if called for.
15. Bidder should upload scanned attested photocopies of all documents on above mentioned MMRDA official e-Tendering portal & produce in original on request by MMRDA at any stage.
16. A statement showing names of partners, Directors, etc. of the firm with complete address of each should be uploaded to above mentioned MMRDA official e-Tendering portal and authorized person on the behalf of firm who will sign e-tender using Digital Signature Certificate.
17. The acceptance of bid will be intimated by email or otherwise by the authority competent to accept the tender or by the higher Authority of MMRC, to the contractor, which shall be deemed to be an intimation of the tender given by the Authority Competent to accept the tender.
18. The lowest bidder shall be responsible for executing, completing the work as per specifications.
19. Successful bidder shall have to submit signed copy of tender manually to the department.
20. Condition Deleted.
21. If there is any amendment in the tender the same shall be published on following official e-Tender portals / website:
e-tender Portal: <https://etendermmrda.maharashtra.gov.in>
MMRC Website: <https://mmrda.maharashtra.gov.in>
22. The bidder should visit the site prior to submission of tender and ascertain the local site condition, working restrictions, constraints, conditions in tender document regarding necessary approvals, NOC required for the work from the local Authorities and shall quote the offer inclusive of all such expenses likely to be incurred while execution of the work. No claim or compensation for any extra payments incurred by the bidders towards the approvals/ NOC's/ permissions will be entertained by MMRC, which shall be noted.
23. In case of any queries, Bidders may contact MMRC's e-tendering service desk at etendersupport@mailmmrda.maharashtra.gov.in on any working day from 10 am to 5.30 pm.

Chief General Manager (G)

Guidelines for Submission of e-Tender

1. GENERAL GUIDELINES

1.1 Location of the work:

The building is at Ballard Estate, South Mumbai.

Scope of work in brief:

This work consists of "Repair & Restoration of Thakersey building (G +3 Heritage II A structure) at Ballard Estate, Mumbai consisting of brick and stone masonry, restoring/replacement of wooden columns, floor beams, roof trusses, new manglore tile roof and other items in the schedule B.

Preliminary works

A) General

The following allied activities are also included in the scope of the work. No separate payment shall be made for these activities.

- a) A detailed program for the said work should be worked out in consultation with Assistant General Manager (Civil) MMRC and Project Management Consultant/Expert appointed by MMRC for the project.
- b) Getting samples of various materials proposed to be used on the work tested as required as per the provisions of the contract.
- c) Suitable precautions and care shall be taken during execution for the safety of the adjoining properties/Pedestrians/vehicles/traffic etc. The contractor shall be solely responsible for any damage to the adjoining properties /Pedestrians/vehicles/traffic etc. as well as, the service lines during the entire construction period of the contract.
- d) All items included in the tender are completed items of work and are inclusive of all labour, material, machinery with all leads and lifts and equipment required for completion of work, The rates are inclusive of all taxes / levies including works contract tax and stamp duties wherever applicable, except stated otherwise, elsewhere.

1.2 Time limit for completion of work:

The work shall be completed in Six (6) month including monsoon from the date of work order to commence the work.

1.3 Earnest Money and Security Deposit:

Earnest money for this work will be as stated in the detailed tender Notice.

1.4 Details of Earnest Money:

a. Earnest Money Deposit for this work will be Rs.2,86,000 /-

EMD Payment as mentioned above has to be made through RTGS / NEFT mode using the System Generated Challan. Bidders should ensure that the payment of the EMD is made at-least 5 working days prior to the last date of Bid Preparation and Hash Submission of the Tender Schedule to have seamless submission.

Bidders need to upload scanned copy of EMD paid receipt during bid preparation.

Bidders should mention the beneficiary details for EMD refund in the Earnest Money Deposit Form for fields marked as details required for Refund. MMRC or e-Tendering Service Provider will not be liable for delays caused in EMD refund due to incorrect beneficiary details.

The earnest money deposit of unsuccessful bidders will be refunded through RTGS,/ NEFT mode only after finalization of the tender for which the above refund details are required. Bidders should also upload scanned copy of cancelled cheque along with refund letter for refund of their EMD payment. In case of successful bidder, amount of the earnest money deposit may be transferred towards part of the security deposit to be paid after the award of the work, if he intends to do so in writing.

Bidders failing to complete the payment of EMD using the above mentioned process of RTGS / NEFT after downloading the system generated challans will not be able to submit their bids.

Note: Kindly note that transfer of funds to MMRC's account through NEFT / RTGS mode, from the Bidders' ICICI accounts is currently not possible. In case of funds transfer through NEFT / RTGS, Bidders are requested to transfer from any other bank (excluding ICICI Bank).

1.5 Details of Security Deposit:

The successful tenderers shall have to pay a sum of Rs 14, 30,000/- (Rupees Fourteen lakhs thirty thousand only) towards Security Deposit. The initial Security Deposit of Rs 7, 15,000 /- (Rupees seven Lakhs fifteen thousand only) shall be paid in the form of Demand Draft or Bank Guarantee of any Nationalized Bank or Banks promoted by All India Financial Institutes payable at Mumbai in format acceptable to MMRC. The balance Security Deposit of Rs. 7, 15,000/- (Rupees seven Lakhs

fifteen thousand Only) shall be recovered by deducting from Running Account Bills at the discretion of the Engineering-in-charge (at 6 % of each Running Account Bill till the full Security Deposit is recovered) so that, the total deposit equivalent Rs. 14, 30,000/- (Rupees Fourteen lakhs thirty thousand only) is made up and held by MMRC.

- 1.5. (i) The contractor shall be responsible to pay stamp duty as payable under Bombay Stamp Duty Act 1978 for Deposit paid in form of Demand Draft / Bank Guarantee etc. and shall furnish a copy of challan having paid the same to Government. Failure to furnish the same within 1 month from the date of work order will entail its recovery at the rates in prevalence as per Stamp Duty Act from the bills for the onward submission to Government.

1.6 Additional Security Deposit:

Additional Security to be paid by the contractor towards unbalanced tender shall be calculated as follows:

No additional performance security will be required to be paid, if the quoted percentage is up to and inclusive of 10 % below the cost put to tender.

If the tendered offer is anything more than 10% below compared to the cost put to tender, additional security deposit will be worked out by taking 100% difference between the 90% of cost put to tender and that of offer of the tenderer. The payment of additional security towards unbalanced tender shall be in the form of DD/ Bank Guarantee of any Nationalized Bank or Banks promoted by All India Financial Institutes issued by a branch in Mumbai in format acceptable to MMRC.

Additional Security deposit shall be released along with the final bill on satisfactory completion of work.

1.7 Revision or Amendment in Tender Document:

The Competent Authority, may omit or suspend certain items of work, revise or amend the tender document before online submission of tender. Such revisions or amendments or extension, if any, shall be communicated to all concerned by email on above mentioned MMRC official E-Tendering portal which will be issued at least 7 days before the due date of receipt of tender.

1.7.1 Tender Rates:

The rates quoted in schedule 'B' are for finished and completed items and no extra amount for carting or transporting material, labour etc. shall be paid unless specifically so mentioned or provided for in the tender. The rates are inclusive of all leads and lifts for all materials in the completed items and also include all taxes, duties, royalties etc. including VAT/Works Contract Tax. No payment on this account will be made. The Income Tax, Works Contract Tax, Labour cess etc shall be deducted at source at the rate that will be in force from time to time.

1.8 The successful tenderer will have to sign an agreement as required. The necessary stamp fees, etc. required for completing the agreement will have to be borne by the tenderer.

1.9 The tenderer is requested to visit the site of the work and see for himself the site conditions regarding layout and all other matters, affecting the work before filling in the percentage above/below the estimated rates. Submission of a tender by a tenderer implies that they had read these instructions and has made itself aware of the scope of the work, conditions at work site, conditions of contract and MMRC will not, therefore, bear any extra charges on any account, in case it finds to have misjudged the site conditions or specifications.

- (a) Conditional tender shall not be accepted.
- (b) The right to reject all or any of the tenders without assigning any reason, whatsoever, is reserved with the Competent Authority.
- (c) Chief General Manager /or his representative in MMRC shall be the Competent Authority for accepting the tender.
- (d) The tenderer shall have to enter into regular agreement in form B-1 on the receipt of acceptance of the tender and shall abide by all the rules and regulations embodied therein and pay the initial security deposit as shown in the schedule, failing which the MMRC shall be entitled to forfeit the full amount of earnest money deposited by the tenderer.

- (e) The successful tenderer shall have to work in co-ordination and co-operation with any other contracting agencies appointed by the MMRC to work simultaneously in the same or adjoining area. The decision of the MMRC in case of any dispute between the different agencies appointed by the MMRC shall be final and binding.
- (f) Income tax, Works Contract Tax, VAT, Service tax, labour cess and any other central, state, local tax ordered by the competent authority at the rates in force during the progress of contract or the percentage that will be in force from time to time shall be recovered / deducted from the gross amount of the bill whether for measured work or advance payment or secured advance.
- (g) The Contractor shall have to make his own arrangement at no extra cost to the MMRC for water supply, sanitation and electric supply etc. at the site of work. If temporary / permanent water connection is taken for construction purpose through Municipal Corporation's water line, then water charges to be paid to Municipal Corporation are to be borne by the Contractor. Contractor has to submit no dues certificates from Municipal Corporation in this regard before preparation of final bill failing which such charges will be paid by MMRC and shall be recovered from amount due to the contractor with MMRC.
- (h) Deleted.
- (i) The detailed E -tender notice along with the subsequent corrigendum, addendum etc. shall form part of the tender document.
- (j)
 - a. The Contractor shall furnish all tools plants, instruments, supervisory staff, labour, materials, any temporary works, consumable and everything necessary whether or not such items are specifically stated herein, for completion of the job in accordance with the specification requirements.
 - b. The Contractor shall carry out the necessary surveys of the site required for above work before starting the work.

- (k) The contractor shall familiarize himself with the site where he is expected to execute the work and quote his percentage above/below the estimated rates considering all the hurdles likely to face during execution.
- (l) The contractor whose tender is accepted will be required to produce to satisfaction of the Concerned Authority valid and current license issued in his favour under the provision of the contract labour (Regulations and abolition) Act 1970 and in case of failure to do so the acceptance of the tender would be liable to be withdrawn and earnest money forfeited.
- (m) Contractor shall take out necessary Insurance Policy/Policies so as to provide adequate insurance cover for execution of the awarded contract work from the "Directorate of Insurance, Maharashtra State, Mumbai - 400 051" only. Insurance Policy / Policies taken out from any other insurance Company will not be accepted. However, if the contractor desires to effect insurance with the local office of any insurance company, the same should be under the co-insurance-cum-servicing arrangements (with G.I.F.'s share at 60% and insurance Company's share at 40%) approved by the Directorate of Insurance. If the policy taken out by the contractor is not on co-insurance basis the same will not be accepted and the amount of premium calculated by the Directorate of Insurance will be recovered directly from the amount payable to the contractors for the executed contract work.
- (n) Bids from joint ventures are not accepted.

2. GUIDELINES FOR SUBMISSION OF e-TENDER

- 2.1 Tenderer shall follow the instructions on the portal for submission of e-tender.
- 2.2 Tender shall be submitted online on the e-tendering portal in 'three electronic envelopes system' within prescribed schedule.

2.3 e-Envelope A

Bidder should generate and upload scanned copies of Receipt for the following:

- i. Generate Receipt for e-tender fee.
- ii. Upload Receipt of Earnest Money Deposit.

2.4 e-Envelope B (Technical bid)

Tenderer shall upload scanned copies of the following:

- a) Attested copy of valid Certificate of registration.
- b) List of works executed by the agency during recent last 3 financial years (Form-I) and works in hand (Form-II)
- c) Attested copy of work completion certificate of similar nature and magnitude for Govt. / Semi Govt. offices / Buildings issued by the officer in Government not below the rank of Assistant General Manager, during recent last 7 financial years.
- d) Attested copy of Solvency Certificate from the Collector of the District within which the contractor resides or a banker's certificate of the contractor's financial stability (20% of amount put to tender).

2.5 e-Envelope C (Financial bid)

- a) Tenderer shall quote his offer as percentage below/ above the estimated cost at the prescribed space both in figures & words in e-Envelope C. The amount quoted by the tenderer shall be calculated by the system.
- b) Upload the digitally signed copy of Tender document and Price bid Cover letter.

2.6 Procedure for Tender opening

Contents of e-Envelope A will be scrutinized and only those tenderers who have fulfilled the requirements shall be eligible for opening of e-Envelope B. Similarly, contents of e-Envelope B will be scrutinized and only those tenderers who have fulfilled the requirements shall be eligible for opening of e-Envelope C.

Tenderer may remain present in the office of the tender opening authority at the time of opening of financial bids. However, the results of the financial bids of all bidders shall be available on the e-Tendering portal immediately after completion of the opening process.

Chapter - II

Bank Guarantee Bond

CHAPTER-II

FORM OF BANK GUARANTEE BOND FOR SECURITY DEPOSIT

1. In Consideration of the Mumbai Metro Rail Corporation limited (hereinafter called "the MMRC") having agreed to exempt _____ (hereinafter called "the said Contractor(s)") from the demand, under the terms and conditions of an Agreement dated _____ made between the Assistant General Manager, MMRC and _____ for _____ (hereinafter called "the said Agreement"), of security deposit for the due fulfillment by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. _____ (Rupees _____).

We, _____ (hereinafter referred to as "the Bank") at the request of _____ (contractor(s) do hereby undertake to pay to the MMRC an amount of not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the MMRC by reasons of any breach by the said contractor(s) of any of the terms and conditions contained in the said Agreement.

2. We, _____ (indicate name of the bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur merely on a demand from the MMRC stating that the amount claimed is due by way of loss or damage to or would be caused to or suffered by the MMRC by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement or by reasons of the contractor(s) failure or repudiation to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

3. We undertake to pay the MMRC any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under these presents being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We, _____ (indicate name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the MMRC under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the Chief General Manager, Project Division of MMRC _____ (indicate the name of Administrative Department) certified that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on to us in writing on or before the _____ we shall be discharged from all liability under this guarantee thereafter.

5. We, _____ (indicate the name of Bank) further agree with the MMRC that the MMRC shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the MMRC against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reasons of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the MMRC or any indulgence by the MMRC to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s) / Supplier(s).
8. We, _____ (indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency.

Dated _____ Day of _____ 2016

For _____

(Indicate the name of the Bank)

Chapter – III

Details to be submitted by e-tenderer

CHAPTER-III
DETAILS TO BE SUBMITTED BY TENDERER
APPENDIX – “A”

Particulars of the Tenderer:

Name and address of the Tenderer: -----

1. Previous experience in execution of similar works :

Sr. No.	Name of work executed / in hand	Department	Value of work	Date of completion / present status	Remark

Note: True copies of testimonials may be attached

Signature of Tenderer

Address

APPENDIX-B

2. Work performed as a prime contractor on works of similar nature in the last Three years (2012-13 to 2014-15). *

Sr No	Name of the employer *	Description of work	Contract No.	Value of contract (Rs. Lacks)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remarks explaining reasons for delay and work completed

***Attach certificate(s) from the Executive Engineer/Assistant General Manager(s)**

Attach certificate from Chartered Accountant.

APPENDIX-C

3) DETAILS OF MACHINERY

NOTE: INFORMATION ABOUT MACHINERY OWNED BY CONTRACTOR AND OTHER MACHINERY SHALL BE SHOWN SEPARATELY.

NAME OF TENDERER: _____

NAME OF WORK: _____

Sr. No.	Name of Equipment	No. of Units	Kind of make	Capacity	Age and condition	Present location	Remarks
1	2	3	4	5	6	7	8
1							
2							
3							

4) LIST OF TECHNICAL PERSONNEL OF THE TENDERER LIKELY TO BE APPOINTED ON THIS WORK

NAME OF TENDERER _____

Sr. No.	Name of Person	Designation/ Post Held/Status	Academic Qualifications and Experience	Experience in similar nature of work	Remarks (any other points)
1	2	3	4		5

**SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF
CREDIT FACILITIES**

BANK CERTIFICATE

This is to certify that M/s. is a
reputed company with a good financial standing.

If the contract for the work, namely is
awarded to the above firm, we shall be able to provide overdraft/credit
facilities to the extent of Rs. _____ to meet their working
capital requirements for executing the above contract.

___ Sd. ___
Name of Bank
Senior Bank Manager
Address of the Bank

Chapter – IV

General Conditions

CHAPTER-IV
GENERAL CONDITIONS

1. It is presumed that the contractor has gone carefully and thoroughly through the standard and special specifications of the individual items and studied the site conditions before arriving at the percentage above / below the estimated cost quoted by him.
2. In all cases of errors, omissions or doubts or discrepancies in dimensions or description in drawings or in specifications etc., a reference shall be made by the contractor to the Engineer- in- charge, whose elucidations, elaborations or decisions shall be treated as authentic and final and contractor shall be liable to be held responsible for any errors or omissions arising out of his not referring the doubts in advance to the Engineer-in-charge for clarifications.
3. If the contractor has any doubts, whatsoever, as to the contents of the contract he shall in good time i.e. before submitting his tender, get his doubts clarified authoritatively from the Assistant General Manager in writing. Once the tender is submitted by him the matter will be decided according to the tender stipulations in the absence of such authentic pre-clarifications from the Engineer-in-charge and contractor shall in that case be bound by the decisions of the Assistant General Manager.
4. All the items and their rates in Schedule - B of the tender are for completed items of work and no extra claims shall be accepted as regards specifications, labour, materials, all taxes (Sales Tax, Works Contract Tax, VAT etc.), royalties, and any other charges etc. Contractor shall submit its methodology for approval of Engineer in Charge. On Approval from Engineer-in-Charge contractor shall commence the work.
5. On request from the contractor, the MMRC shall extend all possible help in securing priorities for deliveries, obtaining controlled or scarce materials, permissions, police protection if required or requisition of land -

private or public open land - on rental basis required temporarily for the purpose of execution of work etc. However, the MMMRC shall not be held responsible for such arrangements or delays arising out of making such arrangements/ permissions and for which no financial claims shall be entertained against the MMRC.

6. The contractor shall have to make his own arrangements for procuring all materials and machinery required for the work and adopts necessary safety measures for protection of men and materials and nearby MMRC / Public or private properties against any accidental damages to life or property arising out of activities on his work.

7. The successful bidder shall have to chalk out a programme for execution of the work with reference to the time limit stipulated for completion of the work and furnish the same in the form it is asked for by the Engineer-in-charge as soon as he received work order. Review of progress achieved with reference to the approved programme shall be taken by the Engineer-in-charge at regular intervals and shortfall if any shall be made good by the contractor within the allowable period by accelerating his progress to bring it as per with the approved programme. The contractor shall update this programme from time to time as and when called upon to do so, failing which the same shall be drawn up by the Engineer-in-charge and shall be enforced by him and no representation in that case shall be entertained from the contractor. If specifically asked for, the Contractors shall have to submit his programme in the form of C.P.M. / PERT network.

8. Materials which are not approved shall not be allowed to be brought on site. Materials once brought to the site shall not be allowed to be removed from the site without the prior approval of the Engineer-in-charge.

9. The Contractor shall permit the Engineer-in-charge or his representative to inspect whenever required the stock of controlled materials.

10. All materials used in the construction of the work shall be of the best and approved quality only as per the relevant Indian Standard Specifications. Samples of all the materials as ordered by the Engineer-in-charge shall be kept in his office for check and proper control towards the use of such materials. The Engineer-in-charge shall have the right to ask the contractor to rest the materials brought by him before using them on the work from an approved Engineering Institute and also to carry out in-situ or laboratory tests of the materials before / after their use in the work. Testing charges including conveyance of materials to laboratories for all such tests shall be borne by the contractor. If the materials are found sub-standard or giving sub-standard test results, such materials shall be rejected and shall be removed forthwith from the site by the contractor at his own cost as directed by the Engineer-in-charge.

11. On receipt of the work order, the contractor's authorized site Engineer shall immediately start operations like clearing the site, constructing approach road to site and take up lining out of the work under the directions of the Engineer-in-charge and shall provide all the necessary materials, labour, tools, and instruments, as required for the purposes of field surveys. The lining out shall be done accurately and it shall be the responsibility of the contractor for the correctness of the locations, lines, levels, dimensions and alignments etc. of all the component parts of the work. If at any time during the course of the execution, any error is noticed, the same should be got rectified by the contractor at his own cost. Checking by the departmental staff shall not absolve in any way responsibility of the contractor in this respect.

12. The Contractor shall construct and maintain suitable inspection pathways within the limits of the work at his own cost as directed by the Engineer-in-charge.

The Engineer-in-charge shall have full rights to ask for any additions or deletions in the supervisory staff and labour force of the contractor and this should be done immediately by the contractor to his full satisfaction. The contractor shall regularly submit to the Engineer-in-charge weekly reports of the people employed on his work and medical reports etc. Reports on accidents should be submitted within 24 hours.

Work Order Book shall be maintained on site and it shall be the property of the MMRC. The contractor shall promptly sign the orders written in it by the Engineer-in-charge or his authorized representative or his superior officers and comply with the same promptly and correctly.

The contractor should report compliance of all such orders recorded in the Work Order Book from time to time to the Engineer-in-charge for his verifications. First carbon copy of the extract from the Work Order Book shall be supplied to the contractor as soon as the entry is made in it by the officers of the MMRC. The contractor should sign in this Work Order Book to acknowledge receipt of his copy.

13. **Initial measurement for record :**

- a. Where for proper measurement of the work, it is necessary to have an initial set of levels or other measurements taken, the same as recorded in the authorized field book, measurement book of the MMRC, by the Engineer-in-charge or his authorized representatives and will be signed by the contractor or his authorized representative who will be entitled to have a true copy of the same made at his cost. Any failure on the part of the contractor to get such levels etc. recorded before starting the work will render him liable to accept the decision of the Engineer-in-charge as to the basis of taking measurements. Likewise the contractor will not cover any work which will render its subsequent measurements difficult or impossible, without first getting the same jointly measured by himself and the Authorized representative of the Engineer-in-charge. The record of such

measurements on behalf of the MMRC will be signed by the Engineer-in-charge or his representative and the contractor and he will be entitled to have a true copy of the same made at his cost.

- b. The contractor can have copies of the measurements as stated in the paragraph above and of the bills paid to him at his own cost and at his own responsibility to do so by attending the MMRC office. He or his agent may copy down the same in consultation with the Officer concerned.
14. The contractor shall engage an authorized and full time qualified technical representative on the work capable of managing and guiding the work and understanding all the specifications and contract conditions who will take orders as shall be given by the Engineer-in-charge or his representative from time to time and shall be responsible for carrying out the work promptly and correctly. His technical representative should be posted at the site with prior approval of the Engineer-in-charge and should not be removed from the site without his prior approval.

15. Treasure Trove :

In the event of discovery by the contractor or his employees during the progress of the works of any treasure, fossils, minerals or any articles of value of interest, the contractor shall give immediate information thereof to the Engineer-in-charge and forthwith hand over to the Engineer-in-charge such treasure or things which shall be the property of the MMRC and shall not be removed by the contractor under any circumstances.

16. Permits and Licenses :

The contractor shall procure at his own expenses all permits and licenses comply with rules and regulations laid down by the concerned authority and pay all charges, fees and give all notices necessary and pay all dues in connection with lawful execution of the work.

17. **Patented Devices, Materials and Processes** :

Whenever the contractor desires to use any designed devices, materials or processes covered by letter of Patent or Copy Right, the right for such use shall be secured by suitable legal arrangement with the patent MMRC/MbPTs and the copy of their agreement shall be supplied to the Engineer-in-charge if so desired by him. It shall be the responsibility of the contractor to observe all legal formalities for use of such patents and consequences, if any, due to failure on his part to do so shall be the sole responsibility of the contractor.

18. **Indemnity** :

The contractor shall indemnify the MMRC against all actions, suits, claims, damages and demands brought or made against him in respect of anything done or omitted to be done by the contractor in execution of or in connection with the work of this contract and against any loss or damage to the MMRC in consequences of any action or suit being brought against the contractor for anything done or omitted to be done in execution of the work of this contract.

Chapter – V

Additional General Conditions and Specifications

CHAPTER-V
ADDITIONAL GENERAL CONDITIONS AND SPECIFICATIONS

1. These are to apply as additional specifications and conditions, unless otherwise already provided for contrary elsewhere in this contract.

2. **DEFINITIONS:**

Unless excluded by or repugnant to the context,

(a) The expression "Government" as used in the tender papers shall mean the MMRC.

(b) The expression "MMRC" as used in the tender papers shall mean the Mumbai Metro Rail Corporation limited.

(c) The expression "Chief General Manager, Engineering Division as used anywhere in the tender papers shall mean Chief General Manager/ General Manager of MMRC.

(d) The expression "Chief General Manager" as used in the tender papers shall mean an officer of Chief General Manager/ General Manager's rank (by whatever designation he may be known) under whose control the work lies for the time being.

(f) The expression "Engineer" or "Engineer-in-charge" as used in the tender Papers shall mean the Assistant General Manager of the work for the time being.

(g) The expression "Contractor" used in the tender papers shall mean the successful tenderer or bidder whose tender has been accepted, and who has been authorized to proceed with the work.

(h) The expression "Contract" as used in the tender papers shall mean the deed to contract together with its original accompaniment and those latter incorporated in it by mutual consent.

- (i) “Drawings” shall mean the drawings referred to in the specifications and any modifications of such drawings approved in writing by Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer.
- (j) “Engineer’s representative” shall mean an assistant of the Engineer / Project Management Consultant notified in writing to the contractor by the Engineer.
- (k) ‘Provisional sum’ or ‘Provisional lump sum’ shall mean lump sum included by MMRC in tender documents and shall represent the estimated value of work for which details are not available at the time of issue of tender.
- (l) The ‘site’ shall mean the lands and/or other places, on under, in or through which the work is to be executed under the contract including any other lands or places which may be allotted by MMRC or used for the purpose of contract.
- (m) The ‘Work’ shall mean the works to be executed in accordance with the Contract or part(s) thereof as the case may be and shall include all extra or additional, altered or substituted works as required for performance of the Contract.
- (n) The “Contract sum” shall mean the sum for which the tender is accepted.
- (o) The “Accepting Authority” shall mean the Competent Authority to accept the tender.
- (p) The “Day” shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in any day in that week.
- (q) “Temporary works” shall mean all temporary works of every kind required in or about the execution, completion, or maintenance of the works.

- (r) "Urgent works" shall mean any measure which, in the opinion of the Engineer-in-charge, become necessary during the progress of the works to obviate any risk or accident or failure or which become necessary for security of the work or the persons working, thereon.

Where the context so requires, words importing the singular only also include the plural and vice-versa.

Heading and marginal notes, if any, to the general conditions shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof of the contract.

3.1 PROGRAMME OF WORK:

The work is required to be completed within a period of six (6) calendar month including the monsoon period from the date of work order to commence the work.

3.2 CONSTRUCTION EQUIPMENTS:

The contractor shall be required to provide appropriate and adequate equipments for achieving the laid down specifications and tolerance to the satisfaction of the Engineer. All equipments provided shall be of proven efficiency and shall be operated and maintained at all times in a manner acceptable to the Engineer and no equipment or personnel will be removed from site without permission of the Engineer.

4. RESPONSIBILITIES FOR LEVEL AND ALIGNMENT:

The contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the work and shall rectify effectually any errors or imperfections therein; such rectifications shall be carried out by the contractor, at his own cost, when instructions are issued to that effect by Engineer.

5. DAMAGE BY FLOODS OR ACCIDENTS:

The contractor shall take all precautions against damage by floods or like or from accident etc. No compensation will be allowed to the Contractor on this account or for correcting and repairing any such damage to the work during construction. The contractor shall be liable to make good at his cost any plant or materials belonging to the MMRC lost or damaged by floods or from any other cause which is in his charge.

6. POLICE PROTECTION:

For the Special Protection of camp and of the contractor's work, the Department will help the contractor as far as possible to arrange for such protection with the concerned authorities, if so required by the Contractor in writing. The full cost of such protection shall be borne by the contractor.

7. MEDICAL AND SANITARY ARRANGMENT TO BE PROVIDED FOR LABOUR EMPLOYED IN THE CONSTRUCTION BY THE CONTRACTOR:

a) The contractor shall provide adequate supply of potable water for the use of labors on work and in Camps.

b) The contractor shall construct trench or semi permanent latrines for the use of the labourers. Separate latrines shall be provided for men and women.

c) The contractor shall build sufficient number of huts if needed on a suitable plot of land for use of the Laborers according to the following specifications:

1. Huts of Bamboos and Grass may be constructed.
2. A good site not liable to submergence shall be selected on high ground remote from jungle but well provided with trees, shall be chosen wherever it is available. The neighborhood of tank, jungle, grass or woods should be particularly avoided. Camps should not be established close to large cuttings of earth work.
3. The lines of huts shall have open space of at least ten yards between rows. When a good natural site cannot be produced, particular attention should be given to drainage.
4. There should be no overcrowding. Floor space at the rate of 30 sq.ft per head shall be provided. Care should be taken to see that the huts are kept clean and in good order.
5. The contractor must find his own land and if he wants MMRC land, he should apply for it and pay assessment for it, if made available by MMRC.
6. The contractor shall construct a sufficient number of bathing places. Washing places should also be provided for the purpose of washing clothes.

7. The Contractor shall make sufficient arrangements for draining away the surface and sullage water as well as water from the bathing and washing places and shall dispose of this waste water in such way as not to cause any nuisance.

- d) The contractor shall engage a Medical Officer with a traveling dispensary for a Camp containing 500 or more persons if there is no Government or other private dispensary situated within 8 kilometers from the Camp. In case of emergency the contractor shall arrange at his cost for transport for quick medical help to his sick worker.
- e) The Contractor shall provide necessary staff for effecting a satisfactory drainage system and cleanliness of the camp to the satisfaction of the Engineer. At least one sweeper per 200 persons should be engaged.
- f) The Assistant Director of Public Health be consulted before opening a labour camp and his instruction on matters such as water supply, sanitary conveniences, the camp site accommodation and food supply shall be allowed by the Contractor.
- g) The contractor shall make arrangements at his cost for all anti-malaria measures to be provided for the labour employed on the work. The anti-malaria measure shall be provided as directed by the Assistant Director of Public Health.

8. Property

All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor's default.

9. Release from Performance

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made.

10. **COMPLIANCE WITH LABOUR REGULATIONS:**

During continuance of the contract, the Contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK.

- a) Workmen Compensation Act 1923:- The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) Payment of Gratuity Act 1972 :- Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years service or more or on death the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.
- c) Employees P.F. and Miscellaneous Provision Act 1952: The Act Provides for monthly contributions by the employer plus workers @ 10% or 8.33%. The benefits payable under the Act are:
 - (i) Pension or family pension on retirement or death, as the case may be.

- (ii) Deposit linked insurance on the death in harness of the worker.
 - (iii) Payment of P.F. accumulation on retirement/death etc.
- d) Maternity Benefit Act 1951:- The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) Contract Labour (Regulation & Abolition) Act 1970:- The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The Principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ 20 or more contract labour.
- f) Minimum Wages Act 1948:- The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of Buildings, Roads, and Runways are scheduled employments.
- g) Payment of Wages Act 1936:- It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) Equal Remuneration Act 1979:- The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.
- i) Industrial Disputes Act 1947:- The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- j) Industrial Employment (Standing Orders) Act 1946:- It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the States and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.
- k) Trade Unions Act 1926:- The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.

- l) Child Labour (Prohibition & Regulation) Act 1986:- The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labor is prohibited in Building and Construction Industry.
- m) Inter-State Migrant workmen's (Regulation of Employment & Conditions of Service) Act 1979:- The Act is applicable to an establishment which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home up to the establishment and back, etc.
- n) The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996 :- All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-Aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- o) Factories Act 1948 :- The Act lays down the procedure for approval at plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.

11. PROTECTION OF ENVIRONMENT:

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

During continuance of the contract, the contractor and his sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may

be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.

Salient features of some of the major laws that are applicable are given below:

The Water (Prevention and Control of Pollution) Act, 1974: This provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or such alteration of the Physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.

The Air (Prevention and Control of Pollution) Act, 1981: This provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

The Environment (Protection) Act, 1986: This provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the inter-relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.

The Public Liability Insurance Act, 1991: This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

Chapter – VI

Special Conditions

CHAPTER – VI
SPECIAL CONDITIONS

The Special Conditions of contract shall take precedence over any other corresponding condition / stipulation / clause of tender appearing elsewhere in this document.

1. The Thackersey House building is Mumbai Port Trust (MMRC/MbPT) property and MMRC has taken on lease the same. The works are to be carried out outside and inside the Ground + 3 storied commercial building (Thackersey House) located in the Business District of Ballard Estate in South Mumbai. Apart from the external and roof repairs, the entire western half of the building from inside and the toilet blocks are planned to be remade and upgraded. The other parts of the existing building need based repairs and restoration are envisaged. The Tenderer should visit the site in order to ascertain the extent of work, difficulties at site, storage space available, and other site conditions and requirements of safety so as to be able to complete the works in the given time. All necessary precautions, preventive structural safety measures, proper supporting arrangements to the structural members, methodology shall be designed and got it approved from MMRC and provided before the repair and restoration of the members or part of the structure. The all required permissions like CC/NOC /completion certificate from the concerned departments such as MCGM/ Police and other Departments for repair and restoration work of this building has to be obtained by the contractor at his own cost. The work should be carried out keeping in view of requirement of the heritage structure.
2. The works include the restoration, rejuvenation and renovation of vital areas of the building. Works will need to be so planned that minimum disturbance and inconvenience is caused to the users of the adjacent buildings, footpath and road.. Work plans shall be devised keeping this in mind and got approved by the Project Management Consultant/ Assistant General Manager, MMRC. The contractor shall discuss and finalize the phase-wise programme of works in consultation with the Assistant General Manager, MMRC before starting the

work and accordingly shall submit the Bar Chart, as to achieve the goal within prescribed time limit.

3. **MATERIALS:** Materials specified shall also imply approved equivalent materials. The decision of the Engineer shall be binding in case of a conflict. The Contractor must arrange for steel, cement, timber, chemicals, fittings & fixtures and all other materials required. In order to have uninterrupted supply of materials for the works, Contractors shall arrange payment to the suppliers in time. Contractor shall construct his own temporary storage for cement & his materials & equipment for the duration of the works. Security of the materials shall be the Contractors responsibility. The material bought to the site shall be the Contractors responsibility. The material bought to the site shall not be hypothecated nor be removed from the site without the permission of the MMRC/MbPT.
4. The contractor shall be required to take sufficient nos. of colored photographs or video shooting at their own cost with Digital Camera having date printing arrangement along the length or as directed by the Engineer in charge before commencing the work and equal Nos. after completion of work and during progress of the work at the same locations. Contractors shall submit the photos in colour prints and CD of the same to the Engineer-in-charge for proper record as directed. Failure to comply the above MMRC will take necessary action in this regard.
5. The materials purchased from outside by the contractor and brought to site shall, if the Engineer / MMRC/MbPT desire, be got tested and certified by a recognized testing laboratory to the satisfaction of the Engineer / PMC before such materials are used on the work. The testing charges shall be borne entirely by the Contractor. The contractor shall carry out all testing work in the presence of the representative of the Engineer-in-charge/PMC. In addition, he shall provide facilities for any independent testing to be carried out by the

Engineer-in-charge and arrangement for visit at manufacturer's factory / workshop from where materials for works are being purchased

6. The percentage above / below the estimated rates shall be inclusive of all operations, taxes, duties etc. levied by State / Central Government, Local Bodies ,all lead and lift etc. for the fulfillment of the contract. Advances of any sort shall not be considered.
7. The contractor shall maintain all the records of machineries and labours deployed on the works.
8. Simultaneous, to this work there may be other works in progress in the building . It will be incumbent on the tenderer to provide all the facilities and co-operation to the other contractors to smoothly carry on their work. This implies that the other agencies will have a right to access to their works through the area on which the present agency is entrusted with the work.
9. COVERING: Contractor shall take all precautions to cover all glass and window panels with sheets or plywood and masking tape to prevent damage to the satisfaction of the MMRC/MbPT / Consultant. Damage, if any shall be made good at no extra cost to MMRC/USERS and the Contractor shall obtain the "no complaints pending" letters from the MMRC / USERS.
10. Relevant Specifications of PWD, Maharashtra State and MbPT shall apply for execution of the work .Unless otherwise specified, all relevant codes and standards published by the Indian Standards Institution shall apply and govern in respect of design, workmanship quality and properties of materials, testing and measurements. Explicit drawings and written instructions shall normally override general specifications and item description.
11. This being a repair and restoration work the quantities considered for scheduled-B are tentative and may increase or decrease to large extent as per requirement during execution of work. The provision of clause 38 under conditions of contract for variation in tender quantities shall be applicable under this contract.

12. **SAFETY MEASURES:** The Contractor shall organize his operations in a workman like manner and take all necessary precautions to provide safety and prevent accidents at site both to persons and property. The Contractor is required to adopt such measures barricades, guide railings, notices, helmets, safety belts, safety curtains & nets outside scaffolding, working platforms, etc. to ensure the above requirements. MMRC / Engineer shall not be responsible for any cost & consequences resulting from non – compliance of safety requirements. Contractor shall indemnify the MMRC/MbPT against any breach and / or penal action due to any accident or untoward incident occurring while the works are in progress.
13. All dismantling work shall be done with chisel & hammer unless otherwise directed by the Engineer. The debris shall be cleared from the site and disposed off beyond municipal limit, unless otherwise instructed by the Engineer / MMRC/MbPT. The serviceable/ reusable dismantled material such as wooden beams, columns and other materials as decided by Engineer shall be properly stored and handed over to MbPT officials. The work should be carried out after studying the purpose of each step in the process. Chipping of structural elements should be done only to the extent required and the rehabilitation step should be taken up immediately for the exposed elements. Damage caused due to negligence on the part of the Contractor as determined by the MMRC/PMC with the Engineer shall be the responsibility of the Contractor and the same shall be rectified by him to the satisfaction of the MMRC and its members at no extra cost to the MMRC.
14. Problems arising out of site conditions, etc. should be immediately reported to the Engineer /PMC in writing for suitable precautionary / rectification measures. Exact repairs shall be decided at site by the Engineer during the site inspection and carried out accordingly by the Contractor.
15. The Contractor shall take out the required insurance policy and pay the premium from time to time till the work is completed and indemnify the MMRC/MbPT regardless of getting the insurance claim and the MMRC/MbPT has absolute right to deduct the claim against Contractor whilst making the payment of interim or final bill payment of interim or final bill.
16. **Compliance with local laws:**
 - 1 The Contractor shall comply with all bye-laws and regulations of local and other statutory authorities having jurisdiction over the works and shall be responsible for the payment of all fees and other charges and giving and receiving of all necessary notices and keeping the

MMRC/MbPT informed of the said compliance with the bye -laws, payments made, notices issued and received.

- 2 The Contractor shall indemnify the MMRC/MbPT Consultant against all claims in respect of patent rights, designs, trademarks or names or other protected rights in respect of any plant, machine, work or material used for or in connection with the works or temporary works and from and against all claims, demands, proceedings, damages, cost, charges and expenses whatsoever in respect thereof or in relation thereto. The Contractor shall defend all actions arising from such claims and shall himself pay all royalties, license fees, damages, costs and charges of all and every sort that may be legally incurred in respect thereof.

17. **Insurance:**

- 1 Within two weeks from the date of Letter of Acceptance, the Contractor, without limiting his obligations and responsibilities under this Contract, shall insure against his liability for any material or physical damage, loss or injury which may occur to properties or to persons including third parties, by or arising out of the carrying out of the works at the site or elsewhere in connection with such works, in the execution of the Contract or any other reason. Unless stipulated otherwise elsewhere in this Contract, it shall be obligatory for the Contractor to obtain the following insurance policies:-
 - a). Insurance policy to cover Contractor's liability under Workmen's Compensation Act 1923, Minimum Wages Act 1948, ESIC Act . 1948, Contract Labour (Regulation and Abolition) Act 1970 and other relevant Acts, including any amendments and revisions to such Acts. This shall be for the period upto Final completion of the Works, including the defects liability period. The Contractor shall indemnify the MMRC/ MbPT/PMC and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claims made in respect of injury or damage under any Acts of Government or otherwise and also in respect of any award of compensation or damages consequent upon such claim.
 - b) Insurance policy to cover against damage, theft or any other loss in respect of all plants and machineries and other construction equipment of the Contractor.

- c) Insurance policy to cover against damage, theft or any other loss in respect of all materials and equipment during transit to site from the suppliers' premises (unless such insurance cover is effected by the supplier).
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- (2) Original of all policies shall be deposited with the MMRC till the expiry of defects liability period. The Contractor shall insure against his liabilities and shall continue such insurance during the currency of the Contract, including defects liability period. Premiums for all above insurance covers and policies shall be paid by the Contractor and the cost thereof shall be deemed to be included in the Contractor's rates.
 - (3) The Contractor shall produce to the MMRC all certificates of insurance including the receipts for payment of premiums. The Contractor shall not alter or cancel any policy without the written approval of the MMRC.
 - (4) It shall be the responsibility of the Contractor to ensure that all Sub Contractors, if any approved for the works, have similar insurance covers and policies and that they pay the premiums in respect thereof. The Contractor shall obtain from the Sub-Contractors and submit to the MMRC/MbPT documentary evidence of such policies and payment of such premiums.
 - (5) Contractor's All Risk Insurance (C.A.R.) Policy, shall be in the joint names of the MMRC and the Contractor.
 - (6) The above referred C.A.R. Policy shall cover the following :
 - i) Total value of Works including the cost of materials supplied by the MMRC/MbPT, for the entire duration of the Works plus the defects liability period. The value of Works shall include for allowance for specified escalation of costs.
 - ii) Third party insurance to cover for any damages to third parties. This shall be upto the end of the defects liability period and shall include for any damage to the properties and/ or injury (including death) to the persons properties and anyone else deemed to the third party.

- iii) Civil commotion, riots, malicious damage, war and other disturbances.
 - iv) Risk of loss, theft or damages to the shuttering and scaffolding materials costing upto Rs.50 lakhs.
- (7) The MMRC/MbPT shall not in any way be responsible for any matter in connection with such policy. The Policy shall be operated by the Contractor.
- (8) The Contractor shall indemnify the MMRC/MbPT against all claims, irrespective of any limitations of the C.A.R. Policy.
- (9) The Contractor will directly interact with Insurers for all his claims. In cases, where multiple claims from different Contractors arise from the same incident, or in the case of disputes, MMRC/MbPT will interact with Insurers and Contractors and their decisions will be final and binding on the Contractors. The Contractor and where applicable, the MMRC/MbPT will supply all data, required by Insurers in connection with the Policy and claims. The Contractor shall fulfil all the conditions under the Policy so that no claim is forfeited by default.
- (10) The Contractor shall also handle all claims for his Sub-Contractors and nominated Sub-Contractors on a back to back basis.
- (11) Whenever claims need to be made for any matter or thing in respect of the insurance covers under the policies enumerated above, including the Contractor's All Risks Insurance Policy, it shall be the responsibility of the Contractor to lodge such claims and to follow-up and obtain the payments for the claims from the insurance companies. Should the MMRC/MbPT suffer any losses and/ or damages in connection with the Works and the Contractor is unable or unwilling to get such losses and/ or damages recompensed by the insurance companies, the MMRC/MbPT shall recover the amounts in respect of such losses and/ or damages from the Contractor by way of deductions made from any money that may be payable or that may become payable to the Contractor.
- (12) If the Contractor fails to comply with the relevant terms of clause 17, the MMRC/MbPT may effect all insurance covers and deduct the expenses from any money that may be payable or that may become payable to the Contractor.

- (13) In addition to the liability imposed by law upon the Contractor for injury (including death) to persons or damage to property by reason of the negligence of the Contractor or his agents, which liability is not impaired or otherwise affected hereby, the Contractor hereby assumes liability for and agrees to save MMRC/MbPT harmless and indemnifies him from every expense, liability or payment by reason of any injury (including death) to persons or damage to property suffered through any act or omission of the Contractor, or any of his Sub-Contractors or suppliers, nominated or otherwise or any person directly or indirectly employed by any of them or from the conditions of the premises or any part of the premises which is in the control of the Contractor or any of his Sub-Contractors or suppliers, or any one directly or indirectly employed by any of them, or arising in any way from the work called for by this Contract.
18. The Contractor shall indemnify the MMRC/MbPT against all actions, suits, claims and demands made or instituted against the MMRC/MbPT in respect of anything done or omitted to be done by the Contractor in execution of or in connection with the work of the contract and against any loss or damage to the MMRC/MbPT in consequence of any action or suit being instituted against the MMRC/MbPT
19. The Contractor shall appoint a full time competent Engineer and Supervisor for the full duration of the works. The Supervisor shall be a Civil Engineer with an experience of at least 10 years in similar works and approved by the Engineer.
20. The Contractor shall employ requisite supervisors, skilled, semi – skilled and unskilled workmen for the works. No worker shall be below 18 years of age. As a security measure each shall be provided an identity card by the Contractor for easy identification. No workers will be allowed to stay at site of works without explicit permission of the MMRC. The workers of the Contractor shall work during the time period determined by the MMRC and mutually agreed.
21. SCAFFOLDING: Only standard and approved steel scaffolding with adequate ties shall be used for the works. Props and ties shall also be in steel. Bamboos may be permitted only in areas where steel scaffolding cannot be used and as may be approved by the Engineer.

22. HOUSE-KEEPING & SITE CLEARANCE: The Contractor shall ensure proper cleaning of the work areas on a daily basis. All drains and pathways passages shall also be kept clean and operative at no extra cost to the MMRC. The Contractor shall clear the site and work premises completely including any debris, scaffolding, materials, office, etc immediately on completion of the works.
23. USE OF LIFTS: The contractor shall not use the passenger lifts for carrying materials and labour. The contractor shall have to arrange to carry materials through labourers or their own lifts.
24. The Contractor shall not allot to the worker or to any persons any place in the Owner's building and shall vacate and cause to vacate the building premises on completion of work and remove all his workers, temporary works / sheds and equipment at his cost and expenses.
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Chapter - VII

Contract Agreement

CHAPTER – VII
CONTRACT AGREEMENT
MUMBAI METRO RAIL CORPORATION LIMITED

THESE ARTICLES OF AGREEMENT made at Mumbai this _____ day of _____ Two Thousand Sixteen between the MUMBAI METRO RAIL CORPORATION LIMITED (MMRC) a company incorporated under companies act, 1956 on 13.04.2008 presently a 50:50 joint venture company of GoI and GoM within the meaning of section 617 of the companies Act 1956 having its office in MMRC ,Plot R-13,E Block of BKC, Bandra (East), Mumbai-400 051 hereinafter called “The Company” (which expression shall unless the context does not admit, include its successor or successors and assign or signs) of the one part and Shri _____ Indian inhabitant and being partners of the partnership firm carrying on business of civil Engineers works and Civil Contractors in the name and style of _____ and having their office at _____, hereinafter called collectively “The Contractor” (which expression shall unless the context does not admit, include their respective heirs, administrators, executors and surviving partner or partners) of the other part.

WHEREAS the Company invited by its public advertisement No. _____ dated _____ published in the News Paper _____ dated _____ public tenders for the execution of works referred to therein and more particularly described in the tender documents constituted in the Tender Notice, General Tender Notice, Instructions to the Tenderers, General Conditions of Contract, Specifications, Technical Report, Schedule of Quantities of work and other allied documents.

AND WHEREAS the contractor submitted his tender dated _____ for a sum of Rs. _____.

AND WHEREAS in exercise of power under Schedule of Power approved by Managing Director , MMRC the said tender of the contractor being accepted subject to the following terms and conditions.

AND WHEREAS the parties hereto are desirous of recording the Agreement so concluded between them which they do hereinafter.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract herein after referred to.
2. The following documents shall be deemed to form and read and construed as a part of this Agreement, and the priority of the documents shall be as follows:
 - (a) Work order;

- (b) the Letter of Acceptance
 - (c) Common set of clarifications/deviations & addendum, if any
 - (d) Special conditions of contract
 - (e) Conditions of Contract form B-1
 - (f) Additional General Conditions & specifications
 - (g) General conditions
 - (h) Percentage rate tender & contract for works
 - (i) Technical specifications
 - (j) Tender Drawings
 - (k) Schedule of Bill of Quantities as per schedule-B
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy and defects therein conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESSTH whereof the parties hereto have caused this Agreement to be executed the day and year first before written:

SIGNED AND DELIVERED FOR AND ON
 BEHALF OF
MUMBAI METRO RAIL CORPORATION
LIMITED
 BY
 Pursuant to Schedule of Powers



Signature:
 Designation:

In the presence of :
 (1)
 (2)

SIGNED AND DELIVERED FOR AND ON
 BEHALF OF THE CONTRACTOR BY



Shri _____
 By the Partner pursuant to Authority of their
 Deed of Partnership

Signature:
 Designation:

In the presence of :
 (1)
 (2)

Chapter – VIII

Declaration by Contractor

CHAPTER – VIII

DECLARATION BY CONTRACTOR

I / We hereby declare that I have made myself thoroughly conversant with the local or prevailing site conditions regarding availability of all construction materials and labour on which I/we have based my rates for this tender. The specifications and lead on this work have been carefully studied and understood by me/ us before submitting the tender. I/we undertake to use only the best materials and method proposed to employ duly approved by the Assistant General Manager, MMRC, Mumbai or to abide by his decision.

Signature of Contractor

Assistant General Manager
MMRC, Mumbai

Chapter – IX (a)

Percentage Rate Tender Form B-1

CHAPTER – IX (a)

FORM B-1

**Percentage Rate Tender and Contract for Works
General Rules and Directions for the Guidance of Contractor**

1. All works proposed to be executed by Contractor shall be notified in a form of e-tender digitally signed by Engineer.

This form will state the work to be carried out as well as the date for submitting and opening tenders, and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. It will also state whether a refund of quarry fees, royalties, octroi dues and ground rents will be granted. Copies of the specifications, designs and drawings and estimated rates, scheduled rates and any other documents required in connection with the work shall be signed by the Engineer for the purpose of identification shall also be open for inspection by contractors at the office of the Engineer during office hours.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of the MMRC such specifications with designs and drawings shall form part of the accepted tender.

2. In the event of the tender being submitted by a firm, it must be digitally signed by a person holding a power of attorney authorizing him to do so.
 - i) The contractor shall along with the Tender pay the earnest money by electronic transfer. The said amount of earnest money shall not carry any interest.
 - ii) In the event of his Tender being accepted subject to the provisions of sub-clause (iii) below the said amount of earnest money may be appropriated towards the amount of Security Deposit payable by him under condition of General Conditions of Contract.
 - iii) If, after submitting the tender, the contractor withdraws his offer, or modifies the same, or if after the acceptance of his tender the contractor fails or neglects to furnish the balance of Security Deposit, within 10 days from the date of letter of intent without prejudice to any other rights and powers of the MMRC, hereunder or in law, MMRC shall be entitled to forfeit the full amount of the earnest money deposited by him. Please see Clause 1 of conditions of contract.

- iv) In the event of his tender not being accepted, the amount of earnest money deposited by the contractor shall unless it is prior thereto forfeited under the provisions of sub-clause (iii) above, to be refunded to him on his passing receipt thereof.
3. Receipts for payments made on account of any work, when executed by a firm shall also be signed by all the partners except where the contractors are described in their tender as a firm in which case the receipt shall be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.
4. Any person who submits a tender shall quote his offer in the prescribed space in e-envelope C only. Tenders which propose any alteration in the works specified in the said form of invitation to “tender” or in the time allowed for carrying out the work or which contain any other conditions, will be liable to rejection.
5. The Chief General Manager or his duly authorized Assistant shall open e-tenders in the presence of contractors who have submitted tenders or their authorized representatives who may be present at the time and he will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted the contractor shall, for the purpose of identification, sign copies of the specifications and other documents mentioned in Rule 1. In the event of tender being rejected, the Engineer shall authorize the Accounts Office concerned to refund the amount of the earnest money deposited to the contractor taking the tender, on his giving a receipt for the return of the money.
6. The officer competent to dispose of the tenders shall have the right of rejecting all or any of the tenders.
7. No receipt for any payment alleged to have been made by a contractor in regard to any matter relating to this tender or the contract shall be valid and binding on MMRC unless it is signed by the Engineer.
8. The memorandum of work to be tendered for and the Schedule of materials to be supplied by the MMRC and their rates shall be filled in and completed by the office of Engineer before the tender form is issued. If a form issued to an intending tenderer has not been so filled in and completed he shall request the said office to have this done before he completes and delivers his tender.
9. All work shall be measured out by the standard measure and according to the rules and customs of the MMRC and their rates shall be subject to any local customs.

10. Under no circumstances shall any contractor be entitled to claim enhanced rates for any items in this contract.
11. All corrections and additions or pasted slips should be initialed.
12. The measurements of work will be taken according to the usual method in use in the MMRC and no proposals to adopt alternative methods will be accepted. The Engineer's decision as to what is "The usual method in use in the MMRC" will be final.
13. The tendering contractor shall furnish a declaration along with the tender showing all works for which he has already entered into contract, and the value of the work that remains to be executed in each case on the date of submitting the tender.
14. Every tenderer shall submit along with the tender information regarding the Income-tax clearance of ward or the district in which he is assessed for income-tax, the reference to the number of the assessment and the assessment year.
15. In view of the difficult position regarding the availability of foreign exchange no foreign exchange would be released by the MMRC for the purchase of plant and machinery required for the execution of the work contracted for.
16. The contractor will have to construct shed if required for storing controlled and valuable materials viz. timber paint, cement etc. at work site.
17. The contractor shall also give a list of machinery in their possession and which they propose to use on the work.
18. Contractor should produce original license / attested copy of license duly attested by a Gazetted Officer, having registered with the Assistant Commissioner of Labour as required as per Contract Labour (Regulation and Abolition) Act, 1970 and Maharashtra Contract Labour (Regulation and Abolition) Rules, 1970.
19. Contractor should produce a year-wise list of works carried out during the last 03 (Three) Financial years.
20. The contractor shall produce true copies of registration certificate of appropriate class including its validity.

TENDER FOR WORKS

I / We agree that this offer shall remain open for minimum period of 180 (One hundred and eighty days) from that fixed for receiving the same and hereafter until it is withdrawn by me / us by notice in writing duly addressed to the Authority opening the tenders and sent by registered Post A.D. or otherwise delivered at the office of such authority. I have deposited the earnest money by way of electronic transfer.

The amount of earnest money shall not bear interest and shall be liable to be forfeited to the MMRC should I / We fail to abide by the stipulation to keep the offer open for the period mentioned above or (ii) sign and complete the contract documents as required by the Engineer and furnish the Security Deposit as specified in item (d) of the memorandum contained in paragraph 1 above within the time limit laid down in clause (i) of the Conditions of Contract. The amount of earnest money may be adjusted towards the Security Deposit or refunded to me / us if so desired by me / us in writing, unless the same or any part thereof has been forfeited as aforesaid.

Should any occasion for forfeit of bid security for this work arise due to failure on my / our part to (i) abide by the stipulation to keep the offer open for the period mentioned above or (ii) sign and complete the contract documents and furnish the security deposit as specified in item (d) of the memorandum contained in paragraphs above within the time limit laid down in clause (I) of the Conditions of Contract, the amount payable by me / us may at the option of the Engineer be recovered out of the amount deposited in lump sum for securing exemption in so far as the same may be extended in terms of the deficiency out of any other moneys which are due or payable to me / us the MMRC, under any other contract or transaction of any nature whatsoever or otherwise.

	I / We hereby tender for the execution, for the Managing Director, MMRC (hereinbefore and hereinafter referred to as “MMRC”) of the work specified in the underwritten memorandum within the time specified in such memorandum at (Offer to be filled in e-Envelope ‘C’ i.e. Financial Bid) the estimated rates entered in schedule B (Memorandum showing item of work to be carried out) and in accordance in all respects with the specification designs, drawings and instructions in writing referred to in Rule 1 hereof and in clause 12 of the annexed conditions of contract and agree that when materials for the work are provided by the MMRC such materials and the rates to be paid for them shall be as provided in Schedule A hereto.
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MEMORANDUM

Name of Work: Repair & Restoration of Thackersey building (G +3 Heritage II A structure) at Ballard Estate, Mumbai		
(a) If several sub-works are included they should be detailed in a separate list.		
	(b) Estimated Cost Rs.	2,85,98,371/-
(c) The amount of earnest money to be deposited	(c) Earnest Money Rs.	2,86,000/-
(d) The Security deposit	(d) Security Deposit (i) Demand Draft or Bank Guarantee Rs.	Rs. 14, 30,000/- or 5% of Accepted tender cost, whichever is higher.
(e) This percentage where no security deposit is taken will vary from 4 % to 10% according to the requirements of the case where Security deposit is taken.	(e) Percentage if any to be deducted from bills so as to make up the total amount required as security deposit by the time half the works, as measured by the costs, is done.	6%
(f) Give schedule where necessary showing dates by	(f) Time allowed for the work from date to commence	Within 6 (Six) months (Including monsoon)

which the various items are to be completed.		
Amount to be specified in words and figures if no cash security deposit is to be taken	Receipt No. _____ dated _____ from the MMRC in respect of the sum of Rs. _____ /- (Rupees ----- Only) is herewith forwarded representing the earnest money (a) the full value of which is to be absolutely forfeited to the Employer should I/We not deposit the full amount of security deposit specified in the above Memorandum, in accordance with Clause 1 (A) of the said conditions, otherwise the said sum of Rs. -----/- (Rupees ----- Only) shall be refunded.	
Signature of Contractor before submission of Tender.	CONTRACTOR :	
	Address :	
	Dated the _____ day of _____ 2016	
Signature of witness to Contractor's Signature	(Witness)	
	(Address)	
	(Occupation)	
	The above tender is hereby accepted by me for and on behalf of the Employer.	
Signature of the Officer By whom accepted.		
	<p style="text-align: center;">Managing Director, Mumbai Metro Rail Corporation Ltd (or his duly Authorized Assistant)</p> <p style="text-align: center;">Dated _____ day of _____ 2016</p>	

Chapter - IX (b)

Conditions of Contract Form (B-I)

CHAPTER: IX (b)

CONDITIONS OF CONTRACT

<p>Security Deposit</p>	<p>CLAUSE 1 : The person/ persons whose tender may be accepted (hereinafter called “the contractor” which expression shall unless excluded by or repugnant to the context include its heirs, executors, administrators, and assigns) shall (A) within 10 days (which may be extended by the Engineer concerned up to 15 days if he thinks fit to do so) of the receipt by him of the notifications of the acceptance of his tender, deposit with the Engineer (if deposited for more than 12 months) of sum sufficient which will make up the full security deposit specified in the tender or (B) (Permit MMRC at the time of making any payment to him for work done under the contract to deduct such sum as will amount to five percent of all moneys so payable such deductions to be held by the MMRC by way of security deposit) provided always that in the event of the contractor depositing a lump sum by way of security deposit as contemplated at (A) above, then and in such case, if the sum so deposited shall not amount to five percent of the total estimated cost of the work, it shall be lawful for MMRC at the time of making any payment to the contractor for work done under the contract to make up the full amount of two and a half percent by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums of money payable by the contractor to the MMRC under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due or may become due by MMRC to the contractor under any other contract or transaction of any nature on any account securities endorsed as aforesaid, any sum or sums which whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall, within ten days thereafter, make good in cash or Government may have been deducted from, or raised by sale of his security deposit or any part thereof. The security referred to when paid in cash may at the cost of the depositor, be converted into interest bearing securities provided that the depositor has expressly desired this in writing.</p>
	<p>If the amount of the security deposit to be paid in a lump sum within the period specified at (A) above is not paid, the tender / contract already accepted shall be considered as cancelled and legal steps taken against the contractor for recovery of the amounts. The amount of the security deposit lodged by a contractor shall be refunded along with the payment of the final bill, if the date up to which the contractor has agreed to maintain the work in good order is over. If such date is not over, only 50% amount of security deposit shall be refunded along with the payment of the final bill. The amount of security deposit retained by the MMRC shall be released after expiry of defect liability period (DLP). In the event of the contractor failing or neglecting to complete rectification work within the period up to which the contractor has agreed to maintain the work in good order then subject to provision of Clause 17 and 20 hereof the amount of Security Deposit retained by MMRC shall be</p>

	adjusted towards the excess cost incurred by the MMRC on rectification work.
Compensation for delay	<p>CLAUSE 2: The time allowed for carrying out the work (including monsoon period) as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence (time being deemed to be of the essence of the contract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Chief General Manager (whose decision in writing shall be final) may decide, of the amount of the estimated cost of the whole work as shown by the tender for every day that the work remain un-commenced, or unfinished, after the proper dates. And further to ensure good progress during the execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete.</p> <p>25 % of the work in 1/4 of the time As</p> <p>60 % do 1/2 of the time indicated</p> <p>100 % do 6 Months.</p> <p>Full work in full time i. e. in 6 (Six) months including monsoon</p> <p>In the event of the contractor failing to comply with this conditions he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the Chief General Manager (Whose decision in writing shall be final) may decide of the said estimated cost the whole work for every day that the due quantity of work remains in complete. Provided always that the total amount of compensation to be paid under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in the tender.</p>
Action when whole of security deposit is forfeited.	<p>CLAUSE 3: In any case in which under any clause of this contract the contractor shall have rendered himself to pay compensation amounting to whole of his security deposit (whether paid in one sum or deducted by installments) or in case of abandonment of the work owing to serious illness or death of the contractor or any other cause the Chief General Manager on behalf of the Managing Director of MMRC, shall have power to adopt any of the following courses as he may deem best suited to the interest of the MMRC.</p>
a)	The rescind the contract (for which decision notice in writing to the contractor under the hand of Chief General Manager shall be conclusive evidence) and in that case

	the security Deposit of the contractor shall stand forfeited and be absolutely at the disposal of MMRC.
b)	To carry out the work or any part of the work departmentally debiting the contractors with cost of the work, expenditure incurred on tools and plant and charges on additional supervisory staff including the cost of the work charges establishment employed for getting the unexecuted part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the rates as if it had been carried out by the contractor under the terms of this contract. The certificate of the Engineer as to the cost and other allied expenses so incurred and to the value of the work so done departmentally shall be final and conclusive as against the contractor.
c)	To order that the work of the contractor be measured up to date such part thereof as shall be unexecuted out of his hands and to give it to another contractor to complete in which case all expenses incurred on advertisement for fixing new contracting agency, additional supervisory staff including the cost of work charged establishment and cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract. The certificate of the Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the unexecuted work done by the new contractor and as per the value of the work so done be final and conclusive against the contractor.
	In case the contract shall be rescinded under Clause (a) above the contractor shall be entitled to recover or be paid any sum for any work therefore actually performed by him under this contract unless and until the Engineer shall have certified in writing the performance of such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified, in the event of either of the course referred to in Clause (b) or (c) being adopted and the cost of the work executed departmentally. Or through a new contractor and other allied expenses exceeding the value of such work credited to the contractor, the amount of excess shall be deducted from any money due to the contractor by MMRC under the contract or otherwise however for, from his Security Deposit or the sale proceed thereof provided however the contractor shall have no claim against MMRC even if certified cost of such work and allied expenses, whichever of three courses mentioned in Clauses (1), (b) or (c) is adopted by the Engineer the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased procured any materials or entered into any engagements or made any advances on account of or with a view to the execution of the work of the performance of the contract.
Action when the	CLAUSE 4: If the progress of any particular portion of the work is unsatisfactory,

<p>progress of any particular portion or the work is unsatisfactory</p>	<p>the Engineer shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned in Clause 2, be entitled to take action under Clause 3 (b) after giving the contractor 10 days notice in writing. The contractor will have no claim for compensation, for any loss sustained by him owing to such action.</p>
<p>Contractor remains liable to pay compensation if action is not taken under Clause 3 & 4</p> <p>Power to take possession of required removal of or sale of contractor's plant.</p>	<p>CLAUSE 5: In any case in which any of the powers conferred upon the Chief General Manager by Clause 3 and 4 hereof shall have become exercisable and the same shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event any future case of default by the contractor for which under any clause or clauses hereof he is declared liable to pay compensation amount to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the Chief General Manager taking action under sub-clause (a) or (c) of Clause 3, he may, if he so desires, take possession of all or any tools, land, materials and stores in or upon the work or the site thereof or belonging to the contractor, or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates or in the case of contract rates not being applicable at current market rates, to be certified by the Engineer may, after giving notice in writing to the contractor or his clerk of the work, or foreman or other authorized agent require him to remove such tools, plant, materials or stores from the premises within a time to be specified in such notice and in the event of the contractor failing to comply with any such requisition the Engineer may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and at his risk in all respects, and the certificate of the Engineer as to the expense of any such removal and the amount of the proceeds and expense of any such be final and conclusive against the contractor.</p>
<p>Extension of time</p>	<p>CLAUSE 6: If the contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other ground, he shall apply in writing to the Engineer before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date of which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier and the Engineer, may if in his opinion there was reasonable grounds for granting an extension, grant such extension as he thinks necessary or proper. The decision of the Engineer in this matter be final.</p>
<p>Final Certificate</p>	<p>Clause 7: On completion of the work the contractor shall be furnished with a certificate by the Chief General Manager (hereinafter called the Engineer) of such completion but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed all scaffolding, surplus materials and rubbish, and shall have cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of any building in or upon which the work has been executed or of which he may hand possession for the purpose of executing the work nor until the works shall have been measured by the Engineer or where the measurement have been take</p>

	<p>by his subordinates until they have received the approval of the Engineer, the said measurements being binding and conclusive against the contractor. If the contractor fails to comply with the requirements of this clause as to the removal of scaffolding, surplus materials and rubbish and cleaning of dirt on or before the date fixed for the completion of the work the Engineer may at the expense of the contractor remove such scaffolding, surplus materials and rubbish and dispose of the same as he thinks fit and clean off such dirt as aforesaid and the contractor shall forthwith pay the amount of all expenses so incurred, but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.</p>
<p>Payments on intermediate certificates to be regarded as advances</p>	<p>CLAUSE 8: No payment shall be made for any work, estimated to cost less than rupees one thousand till after the whole of the work shall have been completed and a certificate of completion given. But in the case of works estimated to cost more than rupees one thousand, the contractor shall on submitting a monthly bill therefore, be entitled to receive payment proportionate to the part work then approved and passed by the Engineer, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for works actually done and completed, and shall not preclude the Engineer from requiring any bad, unsound, imperfect or unskilled work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the date performance of the contract or any part thereof in any respect or the accruing of any claim, nor shall it conclude, determine, or affect in any other way the powers of the Engineer as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or effect within one month of the date fixed for the completion of the work, otherwise the Engineer's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.</p>
<p>Payment at reduced rates on account of items of work not accepted as completed to be at the discretion of Engineer</p>	<p>CLAUSE 9: The rates for several items of works estimated to cost more than Rs. 1,000 agreed within, shall be valid only when the item concerned is accepted as having been completed fully in accordance with the sanctioned specifications. In cases where the items of work are not accepted as so completed the Engineer may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills.</p>
<p>Bill to be submitted monthly</p>	<p>CLAUSE 10: A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer for all work executed in the previous month and the Engineer shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted if possible within 10 days from the presentation of the bill. If the contractor does not</p>

	submit the bill within the time fixed as aforesaid, the Engineer may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and the Engineer may prepare a bill from such list which shall be binding on the contractor in all respects.
Bill to be on printed forms	CLAUSE 11: The contractor shall submit all bills on the printed forms to be had on an application at the office of the Engineer. The charges to be made in the bills shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions, and not mentioned or provided for in the tender, at the rates hereinafter provided for such work.
Store supplied by MMRC	CLAUSE 12 : If the specification or estimate of the works provides for the use of any special description of materials to be supplied from the store of the MMRC or if it is required that the contractor shall use certain stores to be provided by the Engineer (such material and stores and the prices to be charged therefore as hereinafter mentioned being so far as practicable for the convenience of the contractor but not so as in any way to control the meaning or effect of this contract specified in the schedule or memorandum hereto annexed) the contractor shall be supplied with such materials and stores as may be required from time to time to be used by him for the purposes of the contract only, and the value of the full quantity of the materials and stores so supplied shall be set off or deducted from any sums then due or thereafter to become due to the contractor under the contract, or otherwise, or from the security deposit, or the proceeds of sale thereof if the security deposit is held in government securities the same or a sufficient portion thereof shall in that case be sold for the purpose. All materials supplied to the contractor shall remain the absolute property of MMRC and shall on no account be removed from the site of the work and shall at all times be open to inspection by the Engineer. Any such materials unused and in perfectly good in writing given under his hand but the contractor shall not be entitled to return any such material except with consent of the Engineer and he shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or for any wastage in or damage to any such materials.
Works to be executed in accordance with specifications, drawings, orders etc.	CLAUSE 13: The contractor shall execute the whole and every part of the work of the most substantial and workman like manner and both as regards materials and in every other respect in strict accordance with specifications. The contractor shall also confirm exactly fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer and lodged in this office to which the contractor shall be entitled to have access for the purposes of inspection such office or on the site of work during office hours. The contractor will be entitled to receive three sets of contract drawings as well as one certified copy of the accepted tender along with the work order free of cost. Further copies of the contract drawings and other working drawings, if required by him, shall be supplied at Rs.1000/- per set.
Alternative in	CLAUSE 14 : The Engineer shall have power to make any alteration in or

<p>specification and designs not to invalidate contracts.</p> <p>Rates for works not entered in estimate, for schedule of rates of the district.</p>	<p>additions to the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Engineer and such alteration shall not invalidate the contract and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work, and at the same rates as are specified in the tender for the main work. And if the additional and altered work includes any class of work for which no rate is specified in this contract then such class of work shall be carried out at the rates entered in the PWD Schedule of Rates of the Division or at the rates mutually agreed upon between the Engineer and the contractor, whichever are lower, if the additional or altered work for which no rate is entered in Schedule of Rates of Division, is ordered to be carried out before the rates are agreed upon then the contractor shall, within seven days of the date of receipt by him of the order to carry out the work, inform the Engineer of the rate which it is his intention to charge for such class of work, and if the Engineer does not agree to this rate he shall by notice in writing be at liberty to cancel his order to carry out such class of work, and arrange to carry it out in such manner as he may consider advisable, provided always that if the contractor shall commence work or incur expenditure in regard thereto before the rates shall have been mentioned as lastly herein before mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate of rates as shall be fixed by the Engineer. In the event of a dispute, the decision of the Engineer of the MMRC will be final.</p>
	<p>Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the competent authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.</p>
<p>Extensions of time in consequence of additions or alterations</p>	<p>The time limit for the completion of the work shall be extended in the proportion that the increase in its cost occasioned by alterations of additions bears to the cost of the original contract work, and the certificate of the Engineer as to which proportion shall be conclusive.</p>
<p>No claim to any payment or compensation for alteration in or restriction of work</p>	<p>CLAUSE 15 : (1) If at any time after the execution of the contract documents, the Engineer shall for any reason whatsoever (other than default on the part of the contractor for which the MMRC is entitled to rescind the contract) desire that the whole or any part of the work specified in the tender should be suspended for any period or that the whole part of the work should not be carried out at all he shall give to the contractor a notice in writing of such desire and upon the receipt of such notice the contractor shall forthwith suspend or stop the work wholly or in part as required, after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury to the work already</p>

	<p>done or endanger the safety thereof provided that the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor. The contractor shall have no claim to any payment or compensation whatsoever by reasons of or in pursuance of any notice as aforesaid, on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.</p>
	<p>(2) Where the total suspension of the work ordered as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligation under the contract so far as it pertains to the un-executed part of the work by giving a 10 days prior notice in writing to the Engineer, within 30 days of the expiry of the said period of 90 days of such intention and requiring the Engineer to record the final measurements of the work already done and to pay the final bill. Upon giving such notice the contractor shall be deemed to have been discharged from his obligation to complete the remaining un-executed work under this contract. On receipt of such notice the Engineer shall proceed to complete the measurements and make such payment as may be finally due to the contractor within a period of 90 days from the receipt of such notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.</p>
	<p>(3) Where the Engineer requires the contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to the Engineer within 30 days of the resumption of work such suspension of payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery rendered idle on the site or on account of his having had to pay the salary or wages of labour engaged by him during the said period of suspension, provided always that the contractor shall not be entitled to any claim in this respect.</p> <p>(4) In the event of :-</p> <p>(i) Any total stoppage of work on notice from the Engineer under sub-clause (1) in the behalf,</p> <p>(ii) Withdrawal by the contractor from the contractual obligations to complete the remaining executed work under sub-clause (2) on account of continued suspension of work for a period exceeding 90 days.</p> <p>(iii) Curtailment in the quantity of item or items originally tendered on account of any alteration, omission or substitutions in the specifications, drawings designs or instructions under clause 14 (1) where such curtailment exceeds 25% in quantity and the value of the quantity curtailed beyond 24 percent at the rates for the items specified in the tender is more than Rs.5,000/-.</p>

<p>No claim to compensation on account of loss due to delay of materials by MMRC</p>	<p>It shall be open to the contractor, within 90 days from the service of (i) the notice of stoppage of work or (ii) the notice of withdrawal from the contractual obligations under the contract account of the continued suspension of work or (iii) notice under Clause 14 (1) resulting in such curtailment to produce to the Engineer satisfactory documentary evidence that he had purchased or agreed to purchase materials for use in the contracted work, before receipt by him of the notice for stoppage, suspension or curtailment and required the MMRC to take over on payment, such materials at the rates determined by the Engineer. The MMRC shall thereafter take over the material so offered, provided the quantities offered are not in excess of the requirements of the un-executed work as specified in the accepted tender and are of quality and specification approved by the Engineer.</p>
	<p>CLAUSE 15-A : The contractor shall not be entitled to claim any compensation from MMRC for the loss suffered by him on account of delay by MMRC in the supply of materials, entered in Schedule-A where such delay is caused by -</p>
	<p>i) Difficulties relating to the supply of railway wagons.</p>
	<p>ii) Force Majeure</p>
	<p>iii) Act of God</p>
	<p>iv) Act of enemies of the State or any other reasonable cause beyond the control of MMRC.</p>
	<p>In the case of such delay in the supply of materials MMRC shall grant such extension of time for the completion of the works as shall appear to the Chief General Manager to be reasonable in accordance with the circumstance of the case. The decision of the Chief General Manager as to the extension of time shall be accepted as final by the contractor.</p>
	<p>CLAUSE 16 : Under no circumstance whatever shall the contractor be entitled to any compensation from MMRC on any account unless the contractor shall have submitted a claim in writing to the Engineer within one month of the cause of such claim occurring.</p>
<p>Actions & compensation payable in case of bad work</p>	<p>CLAUSE 17 : If at any time before the security deposit is refunded to the contractor it shall appear to the Engineer or his subordinate in charge of the work, that any work has been executed with unsound, imperfect or unskillful workmanship of with materials of inferior quality, or that any material or articles provided by him for the execution of the work are unsound, or of a quality inferior to that contracted for, or are otherwise not in accordance with the contract it shall be lawful for the Engineer to intimate this fact in writing to the contractor and then notwithstanding the fact, the work, materials or articles complained of may have been in advertently passed, certified and paid for the contractor shall be bound forthwith to rectify or remove and reconstruct the work so specified in whole or in part, as the case may require or if so required, shall remove the materials or articles at his own charge and cost and in the event of his failing to do so within a period to be specified by the Engineer in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimate for every day not exceeding 10 days, during which the failure so continue and in the case of any</p>

	such failure the Engineer may rectify or remove and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor. Should the Engineer consider that any such inferior work or materials as described above may be accepted or made use of it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.
Works to be open to inspection Contractor or responsible agent to be present	CLAUSE 18 : All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer and his subordinates, and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer or his subordinate to visit the works shall have been given to the contractor, either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose. Orders given to the contractor's duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.
Notice to be given before work is covered up	CLAUSE 19 : The contractor shall give not less than five days notice in writing to the Engineer or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same is so covered up or placed beyond the reach of measurement any work without the consent in writing of Engineer or his subordinate in charge of the work, and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.
Contractor liable for damage done, and imperfection	If during the period of Twelve (12) calendar months from the date of completion as certified by the Engineer pursuant to Clause 7 of the Conditions of Contract in the opinion of the Engineer, the said work is defective in any manner whatsoever, the Contractor shall forthwith on receipt of notice in that behalf from the Engineer duly commence execution and completely carry out at his cost in every respect all the work that may be necessary for rectifying and setting right the defect specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the Engineer in the event of the Contractor failing or neglecting to commence execution of the said rectification work within the period prescribed thereof in the said notice and / or to complete the same as aforesaid as required by the said notice. The Employer to get the same executed and carried out departmentally or by any other agency at the risk on account and at the cost of the Contractor. The Contractor shall forthwith on demand pay to the Employer amount of such costs, charges and expenses sustained or incurred by the Employer of which the certificate of the Engineer shall be final and binding on the Contractor. Such costs, charges and expenses shall be deemed to be arrears of land revenue and in the event of the Contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Employer; the same may be

	recovered from the Contractor as arrears of land revenue. The Employer shall also be entitled to deduct the same from any amount which may then be payable or which may thereafter become payable by the Employer to the Contractor either in respect of the said work or any other work whatsoever or from the amount of security deposit retained by the Employer.
Contractor to supply plant ladders, scaffolding etc. And is liable for damages arising from non-provisions of lights, fencing etc.	CLAUSE 21 : The contractor shall supply at his own cost all materials (except such special materials, if any, as may, in accordance with the contract, be supplied from the MMRC stores), plant, tools, appliances, implements, ladders, cordage, tackle scaffolding, temporary works requisite or proper for execution of the work, whether the original, altered or substituted form, and whether included in specifications, or other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer as to pay matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works, and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or the materials. Failing this the same may be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident, and shall also be bound to bear the expenses of defense of every suit, action or other proceedings, that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any such suit, action or proceedings to any such person or which may with the consent of the contractor be paid for compromising any claim by any such person.
And is liable for damages arising from on provisions of lights fencing etc.	CLAUSE 21-A : The contractor shall provide suitable scaffold and working platforms gangways and stairways and shall comply with the following regulations in connection herewith -
	a) Suitable scaffolds shall be provided for workmen for all works that cannot be safely done from a ladder or by other means.
	b) A scaffold shall not be constructed, taken down, or substantially altered except -
	i) under the supervision of a competent and responsible person; and
	ii) as far as possible by competent worker possessing adequate experience in this kind of work.
	c) All scaffolds and appliances connected therein and all ladders shall -
	i) be of sound material;
	ii) be of adequate strength having regard to the leads and strains to which they will be subjected, and

	iii) be maintained in proper condition.
	d) Scaffolds shall be so constructed that no part there of can be displaced in consequence of normal use.
	e) Scaffold shall not be over-loaded and so far as practicable the load shall be evenly distributed.
	f) Before installing lifting gear on scaffolds special precaution shall be taken to ensure the strength and stability of the scaffolds.
	g) Scaffolds shall be periodically inspected by a competent person.
	h) Before allowing a scaffold to be used by his workman the contractor shall check up whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulations herein specified.
	i) Working platforms, gangways and stairways shall -
	i) be so constructed that no part thereof can sag unduly or unequally;
	ii) be so constructed and maintained, having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping; and
	iii) be kept free from any unnecessary obstruction.
	j) In the case of working platforms, gangways, working places and stairways at a height exceeding 5.0 m.
	i)Every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
	ii)every working platform and gangway shall have adequate width, and
	iii)every working platform, gangway, working place and stairway shall be suitably fenced.
	k) Every opening in the floor of a building or in a working platform shall except for the time and to the time and to the extent required to allow the excess of persons or the transport or shifting of material; be provided with suitable means to prevent the fall of persons or materials.
	l) When persons are employed on a roof where there is a danger of falling from a height exceeding suitable precaution shall be taken to prevent the fall of persons or materials.
	m) Suitable precautions shall be taken to prevent persons being struck by article which might fall from scaffolds or other working places.
	n) Safe means of access shall be provided to all working platforms and other working places.
	o) The contractor shall have to make payment to the labourers as per minimum wages act.
	CLAUSE 21-B: The contractor shall comply with the following regulation as regards the hoisting appliances to be used by him.
	a) Hoisting machines and tackle, including their attachments, anchorage's and supports shall:
	i) be of good mechanical construction, sound material and adequate

	strength and free from patent defect; and
	ii) be kept in good repair and in good working order.
	b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.
	c) Hoisting machines and tackle shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by MMRC.
	d) Every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined.
	e) Every crane driver or hoisting appliance operator shall be properly qualified.
	f) No person who is below the age of 21 years shall be in control of any hoisting machine, including any scaffold which or give signals to the operator.
	g) In the case of every hoisting machine and of every chain, ring hook shackle, swivel and pulley block used in hoisting or lowering or as a means of suspension the safe working load shall be ascertained by adequate means.
	h) Every hoisting machine and all gear referred to in the proceeding regulation shall be plainly marked with the safe working load.
	i) In the case of a hoisting machine having a variable safe working load each safe working load and the conditions under which it is applicable shall be clearly indicated.
	j) No part of any hoisting machine or of any gear referred to in regulation 7 above shall be loaded beyond the safe working load except for the purpose of testing.
	k) Motors, gearing transmissions, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards.
	l) Hoisting appliances shall be provided with such means as will reduce to a minimum the risk of the accidental descent of the load.
	m) Adequate precautions shall be taken to reduce to a minimum risk of any part of a suspended load becoming accidentally displaced.
	CLAUSE 21-C: The contractor / contractors will have to make payments to the laborers as per Minimum Wages Act, (1950).
	CLAUSE 22: The contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permit from the Engineer.
Measures for prevention of fire	When such permit is given and also in all cases when destroying out or dig up trees, brushwood, grass etc., by fire, the contractor shall take unnecessary measures to prevent such fire spreading to or otherwise damaging surrounding property.
	The contractor shall make his own arrangements for drinking water for the labour employed by him.
Liability of contractor for any damage done in or outside work area	CLAUSE 23: Compensation for all damages done intentionally or unintentionally by contractor's labour whether in or beyond the limits of MMRC property including any damage caused by the spreading of the fire mentioned in clause 22 shall be estimated by the Engineer or such other officer as he may appoint and the estimates of the Engineer subject to the decision of the Chief General Manager on appeal shall

	be final and the contractor shall be bound to pay the amount of the assessed compensation on demands failing which the same will be recovered from the contractors as damages in the manner prescribed in Clause 1 or deducted by the Engineer from any sums that may be due or become due from MMRC to the contractor under this contract or otherwise.
	The contractor shall bear the expenses of defending any action or other legal proceedings that may be binding by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cost that may be awarded by the court in consequence.
Employment of female labour	CLAUSE 24: The employment of female laborers on works in the neighborhood of soldiers' barracks should be avoided as far as possible.
	CLAUSE 25: No work shall be done on a Sunday without the sanction in writing of the Engineer.
Work not to be sublet unless it is permitted contract may be rescinded and security deposit forfeited for subletting it without approval or for bringing a public officer if contractors become insolvent	CLAUSE 26: The contractor shall not assign or sublet without the written approval of the Engineer. And if the contractor shall assign or sublet his contract or attempt so to do or become insolvent or commence any proceedings to get himself adjudicated an insolvent or make any composition with his creditors, or attempt to do or if bribed, grateful, gift, loan perquisite, reward or advantage, pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the contractor or any of his servants or agents to any public officer or person in the employment of MMRC in any way relating to his office or employment or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer may there upon by notice in writing rescind the contract, and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of MMRC and the same consequences shall ensue as if the contract had been rescinded under Clause 3 hereof and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.
Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss.	CLAUSE 27 : All sums payable by a contractor by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of MMRC without reference to the actual loss or damage sustained, and whether any damage has or has not be sustained.
Changes in the constitution of firm to be notified	CLAUSE 28: In the case of tender by partners any change in the constitution of a firm shall be forthwith notified by the contractor to the Engineer for his information.
Work to be under direction of the Engineer	CLAUSE 29: All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer of the MMRC for the time being, who shall be entitled to direct at what point or points and

	in what manner they are to be commenced, and from time to time carried on.
	CLAUSE 30(1): Except where otherwise specified in the contract and subject to the powers delegated to him by MMRC then in force the decision of the Assistant General Manager for the time being shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs, drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or things, whatsoever if any, way arising out of or relating to the contracts designs drawings, specifications, estimates, instructions, orders or other conditions or otherwise concerning the works or the execution of failure to execute the same, whether arising, during the progress of the work or after completion of abandonment thereof.
	CLAUSE 30(2): The contractor, may within thirty days of receipt by him of any order passed by the Assistant General Manager as aforesaid, appeal against it to the Chief General Manager, MMRC, provided that.
	a) The accepted value of the contract exceeds Rs.10,00,000/- (Rupees Ten Lakhs Only)
	b) Amount of claim is not less than Rs.1,00,000/- (Rupees One Lakhs Only)
	CLAUSE 30 (3) : If the contractor is not satisfied with the order passed by the Chief General Manager, MMRC as aforesaid, the contractor may, within thirty days of receipt by him of any such order, appeal against it to the Chief General Manager who, if convinced that prima-facie the contractor's claim rejected by Assistant General Manager / Chief General Manager, MMRC is not frivolous and that there is some substance in the claim of the contractor as would merit a detailed examination through a suitable committee appointed for the purpose by the Managing Director if necessary and in that case decision taken by the committee shall be finalized by the competent authority and same shall be binding to the contractor.
Stores of European or American manufacturer to be obtained from MMRC	CLAUSE 31: The contractor shall obtain from the MMRC all stores and articles of European or American manufacture which may be required for the work or any part thereof or in making up any articles required therefore or in connection therewith unless he has obtained permission in writing from the Engineer to obtain such stores and articles elsewhere.
	The value of such stores and articles as may be supplied to the contractor by the Engineer will be debited to the contractor in his account at the rates shown in the Schedule in Form – A attached to the contract and if they are not entered in the said schedule, they shall be debited to him at cost price which for the purposes of this contract shall include the cost of carriage and all other expenses whatsoever, which shall have been incurred in obtaining delivery of the same at the stores aforesaid.
Lump sum estimates	CLAUSE 32: When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of works involved or the part of the work in question at the same rates as are payable under this contract for each item or if the part of the work in question is not in the opinion of the Engineer capable of measurement, the Engineer may at his

	discretion pay the lump sum amount entered in the estimate, and the certificate in writing of the Engineer shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of this clause.
Action where no specification	CLAUSE 33: In the case of any class of work for which there is no such specification as mentioned in Rule 1, such work shall be carried out in accordance with the MMRC specifications and in the event of there being no MMRC's specification, then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer.
Definition of work	CLAUSE 34: The expression "work" where used in these conditions, shall unless there be something in the subject or context repugnant to such construction, be constructed to mean the work or works contracted to be executed under on in virtue of the contract, whether temporary or permanent and whether original, altered, substituted or additional.
Contractor's percentage whether applied to net or gross amounts of bills	CLAUSE 35: The percentage referred to in the tender shall be deducted from or added to the gross amount of the bill before deducting the value of any stock issue.
Refund or quarry fees and royalties	CLAUSE 36: All quarry fees, royalties and ground rent for stacking materials, if any should be paid by the contractor.
Compensation under the workmen's compensation Act	CLAUSE 37: The contractor shall be responsible for and shall pay any compensation to his workman payable under the workmen's compensation Act, 1923 (VIII) of 1923 (hereinafter called the said Act) for injuries caused to the workmen. If such compensation is payable, paid by MMRC as principal under sub-section (1) of Section 12 of the said Act on behalf of the Contractor, it shall be recoverable by MMRC from the contractor under Sub-section (2) of the said section. Such compensation shall be recovered in the manner laid down in Clause 1 above.
	CLAUSE 37-A: The contractor shall provide all necessary personal safety equipment and first aid apparatus available for the use of the persons employed on the site, shall maintain the same condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith.
	a) The workers shall be required to use the equipment so provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.
	b) When work is carried on in proximity to any place where there is a risk of drawing all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.
	c) Adequate provision shall be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work.
Claim for quantities entered in the tender or	CLAUSE 38: (1) Quantities in respect of the several items shown in the tender are approximate and in respect of any of the items so long as, subject to any special

estimates	provision contained in the specifications prescribing a different percentage of permissible variation, the quantity varies by more than 25 percent or so long as the value of the excess quantity, at the rate of item specified in the tender, is not more than 5% of tendered cost, whichever is more, no variation in rate shall be entertained.
	(2) The contractor shall, if ordered in writing by the Engineer so to do, also carry out any quantities in excess of the limit mentioned in sub-clause (1) hereof on the same conditions as and in accordance with the specifications in the tender and the rates (i) derived from the rates entered in the current schedule of rates and in the absence of such rates, (ii) at the rate prevailing in the market, the said rates being increased or decreased as the case may be by the percentage which the total tendered amount bear to the estimated cost of the work as put to tender based upon the Schedule of Rates applicable to the year in which the tenders were invited. For the purpose of operation of this clause this cost shall be taken to be Rs. 2,85,98,371/-.
	(3) Claims arising out of reduction in the tendered quantity of any item beyond 25 percent will be governed by the provisions of Clause 15 only when the amount of such reduction beyond 25 percent at the rate of the item specified in the tender is more than 5% of initial contract price. In view of the rationalization of the provisions of Clause 37 of B-2 and 38 of B-1 tender from as above, it is necessary to prescribe the manner in which the claims arising out of reduction in the tendered quantity of any item under Clause 15 of the tender form should be dealt with. It is decided that Clause 15 should be modified as under : There is no change in the rate if the excess is less than or equal to 25%. Also, there is no change in the rate if the quantity of work done is more than 25% of the tendered quantity, but value of excess work at the tendered rate does not exceed 5% of the initial contract price.
Employment of famine etc. labour	CLAUSE 39: The contractor shall employ any famine, convict or other labour of a particular kind of class if ordered in writing to do so by Engineer.
Claim for compensation for delay in the starting the work	CLAUSE 40: No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or in the case of clearance works, on account of any delay in according sanction to estimates.
Claim for compensation for delay in the execution of work	CLAUSE 41: No compensation shall be allowed for any delay in the execution of the work on account of water standing in borrow-pits or compartments. The rates are inclusive of hard or cracked soil, excavation in mud, sub-soil water or water standing in borrows and no claim for an extra rate shall be entertained, unless otherwise expressly specified.
Entering upon or commencing any portion of work	CLAUSE 42: The contractor shall not enter upon or commence any portion of work except with the written authority and instructions of the Engineer or of his subordinate in charge of the work, failing which the contractor shall have no claim to ask for measurements or payment for work.

Minimum age of persons employed; the employment of donkeys	CLAUSE 43: (i) No Contractor shall employ any person who is under the age of 14 years.
And or other animals and the payment of fair wages	(ii) No contractor shall employ donkeys or other animals with breaching of string or thin rope. The breaching must be at least three inches wide and should be of tape (Newar).
	(iii) No animal suffering from sores, lameness or emaciation or which is immature shall be employed on the work.
	(iv) The Engineer or his Agent is authorized to remove from the work any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by MMRC for any delay caused in the completion of the work due to such removal.
	(v) The contractor shall pay fair and reasonable wages to the workmen employed by him in the contract undertaken by him.
	In the event of any dispute arising between the contractor and his workmen on the grounds that the wages paid are not fair and reasonable the dispute shall be referred without delay to the Engineer, who shall decide the same. The decisions of the Engineer shall be conclusive and binding on the contractor, but such decision shall not in any way affect the conditions in the contract regarding the payment to be made by MMRC at the sanctioned rates.
	(vi) Contractor shall provide drinking water facilities to the workers. Similar amenities shall be provided to the workers engaged on large work in urban areas.
Method of payment	CLAUSE 44: Payment to contractor shall be made by cheque drawn on any bank with division convenient to them provided the amount exceeds Rs. 10/-. Amount not exceeding Rs. 10/- will be paid in cash.
Acceptance of condition before tendering for works	CLAUSE 45: Any contractor who does not accept these conditions shall not be allowed to tender for work.
Employment of Scarcity of Labour	CLAUSE 46: If Government declares a state of scarcity of famine to exist in any village situated within 10 miles of the work, the contractor shall employ upon such parts of the work, as are suitable for unskilled labour, any person certified to him by the Engineer or be any person to whom the Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay to such persons, wages not below the minimum which Government may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the Engineer whose decision shall be final and binding on the contractor.

	<p>CLAUSE 47: The price quoted by the contractors shall not in any case exceed the control price, if any, fixed by Government or reasonable price which it is permissible for him to change a private purchaser for the same class and description, the controlled price of the price permissible under Hoarding and Profiteering Ordinance 1943 as amended from time to time. If the price quoted exceeds the controlled price or the price permissible under Hoarding and Profiteering Prevention Ordinance, the contractor will specifically mention this fact in this tender along with the reasons for quoting such higher prices. The purchaser at his discretion will in such ease exercise the right of revising the price at any stage so as to conform to the controlled price on the permissible under the Hoarding and Profiteering Prevention Ordinance. The discretion will be exercised without prejudice to any other action that may be taken against the contractor.</p>
	<p>CLAUSE 48 : The contractor shall employ at least 80 percent of the total number of unskilled labour to be employed by him on the said work from out of the persons ordinarily residing to the district in which site of the said work is located.</p>
	<p>“Provided, however, that if the required number of unskilled labour from that district is not available, the contractor shall in the first instance employ such number of persons as is available and thereafter may with the previous permission in writing of the Engineer of the said work, obtain the rest of his requirement of unskilled labour from outside the district”.</p>
	<p>CLAUSE 49: In case of materials that may remain surplus with the contractor’s from those issued for the work contracted for the date as containment of the materials being surplus will be taken as the date of sale for the purpose of sales tax and the sales tax will be recovered on such sale.</p>
	<p>CLAUSE 50: The contractor should engage the requisite number of Apprentices in respect of building crafts renders had provided in the Apprenticeship Act, 1961 through the State Apprenticeship Advisor Department of Technical Education, Dhobi Talao, Mumbai.</p>
	<p>CLAUSE 51: “All amounts, whatsoever, which the contractor is liable to pay to the MMRC in connection with the execution of the work including the amount payable in respect of (i) materials and or stones supplied/issued hereunder by the MMRC to the contractor (ii) hire charges in respect of heavy plant, machinery and equipment given or hired by the MMRC to the contractor shall be deemed to be arrears of land revenue and the MMRC may without prejudice to any other rights and remedies of the MMRC, recover the same from the contractor as arrears of land revenue”.</p>
	<p>CLAUSE 52: “A contractor shall comply with the provision of the Apprentice Act, 1961 and the rules and orders issued there-under from time to time if he fails to do so, his failures will be breach of the contract and the Engineer may in his direction cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provision of the Act”.</p>
	<p>CLAUSE 53: The contractor shall duly comply with all the provisions of the Central Government (Regulation and Abolition Act, 1970 (37 of 1970) and the</p>

	<p>Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971 as amended from time to time and all other relevant statutes and statutory provisions concerning payment of wages particularly to workmen employed by the contractor and working on the site of the work. In particular the contractor shall pay wages to each worker employed by him on the site of the work at the rates prescribed under the Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971. If the contractor fails or neglects to pay wages at the sates or makes short payment and the MMRC makes such payment of wages in full or part thereof less paid by the contractor as the case may be, the amount so paid by the MMRC to such workers shall be deemed to arrears of land revenue and the MMRC shall be entitled to recover the same as such from the contractor or deduct the same from the amount payable by the MMRC to the contractor hereunder or from any other amounts payable to him by the MMRC.</p>
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Chapter – IX (c)

Price variation clause

No Price variation shall be paid under this contract.

Chapter IX (d)

Schedule 'A'

CHAPTER : IX – (d)

SCHEDULE ‘A’

Name of work : Repair & Restoration of Thakersey building
(G +3 Heritage II A) structure at Ballard Estate, Mumbai

Schedule showing (approximately) the materials to be supplied from the MMRC’s Stores for works contracted to be executed and the rates at which they are to be charged for.

Particulars	Rate at which the materials will be charged to the contractor	Place of delivery
	Unit Rs. Ps. ----- NIL -----	

Note:

- 1) The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Engineer on the issue of the form prior to the submission of the tender.

- 2) Loading, transportation to work site from the place of delivery, unloading etc., will be contractor’s responsibility for which no extra payment shall be made.

Chapter - X

Schedule 'B' (BOQ) and Specifications

Name of work: Repair & Restoration of Thackersey building (G+3 Heritage II A structure) at Ballard Estate, Mumbai (2nd Call)

Schedule B

All the work shall be carried out following the latest relevant specifications of the Public Works Departments, Maharashtra & MbPT

S. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	SECTION A : GENERAL REPAIRS				
A 1.	Providing and erecting two legged mild steel tubular scaffolding, of width 1200 to 1500 mm largely free standing, using H frames or mild steel tubular pipes of minimum 40 mm diameter, with base plates, fixed or adjustable with necessary clamps, couplers, brackets for projections, joints pins, pullies and other accessories, including steel angle or tubular pipe bracings at adequate intervals, access platforms of metal or timber planks of span not exceeding 2.5 meters, including access ladders with intermediate platforms. The scaffolding is to be suitably braced and anchored to the building using support systems created temporarily at the openings in the walls using vertical and horizontal details on the entire building face, required, and safety platforms at ground level covering the entrances to the building. Item includes Providing and erecting Nylon Net covering fixed to the exterior face of scaffolding including duct tape with safety signage 'work in progress' and 'caution' boards at the ground level and demarcation of entrances to the building. The measurements will be calculated by multiplying the length of the two legged units at the center line of the 1200-1500 mm scaffold unit width x heights of the individual rows. The rates will include for the cross bracing between the rows of the scaffold units. (As directed by Engineer in Charge)	2350	SM	208.77	4,90,610.
	(Bd/V PP-169, It-96)				
A 2.	deleted				

A 3.	Chipping the R.C.C. surface and cleaning the rusted reinforcement and exposed surface by wire brush mechanical device or any other established method and applying rust removing solution of approved make and quality with cotton waste swab to reinforcement and allowing to dry the same for 24 hours, brushing of loose particle and applying 1st coat of rust preventive coating of polymer and cement slurry in 1:1.5 proportion with soft brush without adding water including applying another coat of rust preventing after 4 hours allowing Air Curing for 48 hours etc. including scaffolding etc. complete. (As directed by Engineer in Charge)	35	SM	110.59	3,871.
	(Bd/SS PP-185, It-01)				
A 4.	Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris upto a distance of 50 metres or spreading in the compound and cleaning the site etc. complete. (As directed by Engineer in Charge)	2835	SM	41.41	1,17,397.
	(Bd/L PP-69, It-14)				
A 5.	Removing existing water proofing treatment such as I.P.S./Brick bat coba etc. from terrace/toilet block without damage to structure, levelling and cleaning the surface for providing new specialised water proofing treatment including prearing bell mouth,curing etc complete. (As directed by Engineer in Charge)	50	SM	71.28	3,564.
	(Bd/J PP -51, It-10)				
A 6.	Carefully removing existing waterproofing layers from top of chajjas / projections, and tank tops; cleaning the concrete surface and removing debris from the site complete.	25	SM	237.35	5,934.
A 7.	Pulling down burnt brick masonry (in cement mortar) with plaster including sorting out serviceable bricks and stacking the same and debris separately upto a distance of 50 metres or spreading the debris etc. complete. (As directed by Engineer in Charge)	5	CuM	406.37	2,032.
	(Bd/G PP-44, It-07)				
A 8.	Demolishing RCC work including stacking of steel bars and unserviceable materials separately within a lead of 100 Mtrs. Complete as directed.	30	CuM	1533.70	46,011.

	(MPT SOR 2014 PP-52, It-03)				
A 9.	Carefully cutting down existing flooring coba with t.w planks, joists complete and stacking the timber carefully and carting away the debris complete as directed.	1250	SM	377.61	4,72,013.
A 10.	Providing and fixing in position rebars of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, coping, fins, arches, etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.				0.
b.	T.M.T. bar reinforcement	17.5	M.T.	80961.30	14,16,823.
	Bd/F-17 P-306 (PP-39, It-26)				
A 11.	Providing & applying epoxy resin and hardener in ratio of 2:1 by wt. of Sunepoxy 358 or equivalent as per manufacturers specification after cleaning the existing surface from dust/ loose particle by applying air by air blowers under pressure etc. complete as directed.	830	SM	181.56	1,50,695.
	MPT (SOR 2014 P-106 It. 09)				
A 12.	Providing and applying priming cum bonding coat of polymer of approved make and quality as approved by Engineer-in-charge and cement slurry in 1:1 proportionate by weight to concrete area by brush or any other established method etc. complete. (As directed by Engineer in Charge)	35	SM	121.73	4,261.
	(Bd/SS PP-185, It-02)				
A 13.	Providing and applying 30 mm thick polymer mortar to load carrying R.C.C member in two layers in proportion of 1:5:15 by weight Polymer of approved quality and make, cement and quartz sand with required water cement ratio for desired consistency and applying and finishing by floating, curing after initial setting time etc. as per manufactures specification etc. complete. (As directed by Enginee in Charge)	35	SM	1609.16	56,321.
	(Bd/SS PP-185, It-04)				

A 14a.	Providing internal cement plaster 20 mm thick in single coat in cement mortar 1:4 without neeru finish to stone masonry surfaces in all positions including scaffolding and curing complete. (As directed by Engineer in Charge)	2700	SM	497.45	13,43,115.
	(Bd/L-3 P-368, Pg. 67, IT-03)				
b.	Providing neeru finish to plastered surfaces in all positions including scaffolding and curing complete. (As directed by Engineer in Charge)	2700	SM	83.77	2,26,179.
	Bd/L-10 P-370 (PP-68, It-08)				
c.	Providing 6 mm thick P.O.P. finish in single coat to concrete or brick surfaces in all positions including scaffolding etc. complete. (As directed by Engineer in Charge)	2700	SM	123.79	3,34,233.
	(Bd/L PP-69, It-15)				
A 15.	Providing sand face plaster externally to concrete, stone or brick surfaces using approved screened sand including preparing the base, watering and applying base coat of 15 mm thick in cement mortar 1:4 using Supercorn-100 as melamine based super plastizer 1% by weight of cement, krifib synthetic fibre a additions at 125 gm per bag of cement and Sufumex-100D of Krishna Conchem Products i.e. Natural Amorphous microselliceours admixture @ 2% by weight of cement curing the same for not less than two days and keeping the surface of base coat rough to receive the sand faced treatment not to exceed 8 mm thickness in cement mortar 1:4 and finishing the surface by taking out grains and curing for 14 days and scaffolding etc. complete.	135	SM	839.45	1,13,326.
	(Bd/L-7 P-369 (PP-68, It-6)				

A 16.	Providing and laying waterproofing treatment of 112 mm average thickness consisting of 12 mm thick layer in Cement Mortar 1:4 with water proofing compound at the rate of 1Kg per bag of cement as base, constructing and laying brick bat coba in cement mortar 1:5 with waterproofing compound at the rate of 1 Kg per bag of cement and having average thickness of 80 mm and finishing with 20 mm thick cement plaster layer in cement mortar 1:4, water proofing compound at the rate of 1 Kg per cement bag, laying in required position flooring of broken China mosaic (broken pieces of China chips) of approved colour and pattern including neat cement float, giving proper slopes, compaction, curing, finishing preparing bell mouth etc. including all lead, lifts and laid to proper slope to drain off water entirely including Watta, Bell head or Champhered portion at the junction of parapet and work upto a height of 300 mm or as directed and covering the whole treatment with ten years' guarantee, on requisite stamp paper etc. complete.	50	SM	1353.49	67,675.
	(Bd/J PP-49, It-04)				
A 17.	Providing & laying cement based waterproofing IPS approx. avg. 50 mm thick over chajjas / projections , tank tops , etc.in CM 1:3 laid to slope and with proper vatas at junction with walls, including finishing smooth with false squares,curing complete. Actual finished area to be measured.	25	SM	863.10	21,578.
A 18.	Providing leak proof treatment by injection grouting method to existing floor without removing tiles of W.C./ Bath with water proofing compound and cement solutions (fine sand, cement etc.) making holes, refilling and making them water tight including, making good the damages, cleaning etc. complete. (As directed by Engineer in Charge)	50	NO.	638.46	31,923.
	(Bd/J PP-36, It-05) (Taken Rates from PWD 2013-14)				

A 19.	Providing and casting in situ dense and impervious cement concrete of trap metal for R.C.C. Slabs and landings above 12.5 cm thickness and up to and inclusive of 15 cm thickness as per detailed drawings and designs including providing and erecting steel Centering and shuttering with strutting, propping etc. and removal of formwork, necessary compaction, finishing the formed surface with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing. Only steel centering and formwork is to be used and no deviation is allowed. Any defect, distresses if seen within 25 years contractor will be held responsible and he will be liable for compensation of losses due to distress/defects observed in the structure. (Excluding steel reinforcement)				
a.	M-20 grade	180	CuM	14452.50	26,01,450.
	Bd/F-8 (c) P-302 (except proportion) (PP-22, It-8)				
A 20.	Providing and casting in situ dense and impervious cement concrete of trap metal for R.C.C. waist slabs, steps and parapet as per detailed drawings for staircases including providing and erecting steel Centering and shuttering with strutting, propping etc. and removal of formwork, necessary compaction, finishing the formed surface with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing. Only steel centering and formwork is to be used and no deviation is allowed. Any defect, distresses if seen within 25 years contractor will be held responsible and he will be liable for compensation of losses due to distress/defects observed in the structure. (Excluding steel reinforcement)				
e.	M-20	1.4	CuM	12657.40	17,720.
	Bd/F-13 P-305 (except proportion) (PP-36, It-22)				
A 21.	Providing and laying in situ plain cement concrete of trap metal for foundation and bedding including bailing out water manually(dewatering), formwork, compacting and curing.				
e.	M-20	24	CuM	7733.67	1,85,608.

	Bd/E-1 P-287 (PP-13, It-01)				
A 22.	Excavation for foundation including removing the excavated materials up to a distance of 50 metres beyond the building area and lift upto 1.50 metres, stacking and spreading as directed including dewatering unless provided elsewhere, preparing the bed for the foundation and necessary backfilling, ramming, watering complete excluding shoring and strutting.				
a.	earth, soil of all types, sand, gravel and soft murum	100	CuM	381.12	38,112.
	Bd/A-1 P-259 (PP-05, It-01)				
b.	hard murum	50	CuM	412.10	20,605.
	Bd/A-2 P-259 (PP-05, It-01)				
A 23.	Providing dry trap/ rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	20	CuM	1168.40	23,368.
	Bd/A-12 P-264 (PP-07, It-09)				
A 24.	Providing and laying in situ plain cement concrete M20 of trap metal for foundation and bedding including bailing out water manually(dewatering), formwork, compacting and curing.	14	CuM	7733.67	1,08,271.
	Bd/E-1 P-287 (PP-13, It-01)				
A 25.	Carefully cutting existing plain cement concrete in pavement, etc. and removing the debris from site.	15	CuM	2157.75	32,366.
A 26.	Providing Second Class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of 2 bars of 6 mm diameter/2 hoop iron strips 25 mm x 1.6 mm at every third course properly bent and bonded at ends, scaffolding, racking out joints and watering etc. complete.	280	SM	1176.65	3,29,462.
	Bd/G-7 P-316 (PP-43, It-05)				
A 27.	Providing Second Class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure as backing in composite masonry including scaffolding, racking out joints and watering etc. complete.	5	CuM	9288.67	46,443.

	Bd/G-6 P-316 (PP-43, It-04)				
A 28 a.	Gently cleaning the surface of the stone masonry with water by gentle brushing with soft nylon brushes as specified. Item to include using water misting employing air water jet using a fine nozzle sprinkling system calibrated to spray a fine mist along the stone surface, without over-wetting followed up by gentle brushing with soft nylon brushers as specified and mild pH balanced surfactants as specified for indicated areas to remove surface dirt, grit, sulphate accretion, lime wash etc. complete. (As directed by Engineer in Charge)	1800	SM	244.69	4,40,442.
	(Bd/SS PP-203, It-52)				
b.	Providing flush grooved pointing to walls With cement mortar 1:3 including scaffolding and curing complete. (As directed by Engineer in Charge)				
i.	Brick masonry.	25	SM	255.45	6,386.
	Bd/L-15 P-372 (PP-68, It-10)				
ii.	Stone masonry.	540	SM	223.93	1,20,922.
	Bd/L-15 P-372 (PP-68, It-10)				
A 29 a.	Providing and fixing well-seasoned Country Teak Wood full length new members like joists, rafters, purlins, etc. in varandah and roof portion including all fixtures and fastenings with one coat of primer etc. complete. Item to include all mouldings and chamfers to be made as per original design indicated by Architects. Item to include using a larger section of wood to get the mouldings and chamfers as per original design, sample to be shown to the Architect for approval before fixing. Item to last application of solignum on the wooden surface. (As directed by Engineer in Charge)	6.5	CuM	100448.56	6,52,916.
	(Bd/SS PP-202, It-49)				
b.	.do - - do - for CTW wood structural elements (round columns, etc.) (square size to be measured)	1.5	CuM	100448.56	1,50,673.
	(Bd/SS PP-202, It-49)				

A 30.	Carefully removing existing primary timber element viz. column, post, beam, etc including necessary temporary supports, cutting, etc and stacking the same as directed.	158	No	1618.31	2,55,693.
A 31.	Carefully removing existing secondary timber element viz. joist, etc including necessary temporary supports, cutting, etc and stacking the same as directed.	50	No	269.72	13,486.
A 32.	Servicing, cleaning , treating existing timber element viz. joists, planks etc and reusing the same and applying 1 coat of approved primer as directed	2	CuM	80915.63	1,61,831.
A 33 a.	Removing existing water proofing treatment such as tarfelt etc. without causing any damage to structure from terrace/roof including cleaning, levelling the surface, lowering down debris/refusal without causing dust nuisance and stacking the debris upto a distance of 50 metres etc. complete. (As directed by Engineer in Charge)	1200	SM	39.11	46,932.
	(BD/J PP-51, It-12)				
b.	Providing and dammering to roof with two coats of bitumen @ 0.32 Kg. per smt on new dungree cloth one coat on each side etc. complete as directed. (As directed by Engineer in Charge)	1200	SM	166.20	1,99,440.
	(Bd/R PP-102, It-09)				
A 34.	Providing structural steel work in rolled sections fixed with connecting plates or angle cleats as in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like as per detailed designs & drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and painting, scaffolding etc. complete.	57.5	MT	93909.07	53,99,772.
	Bd/C-3 P-275 (PP-141, It-06)				
A 35.	.do - - do - for structural steel member (circular hollow sections for columns)	12	MT	137017.13	16,44,206.

A 36.	Removing any kind of debris including loading in truck and conveying to dumping point approved by BMC, unloading, spreading etc. complete. With all leads and lifts. (As directed by Engineer in Charge)	125	CuM	1098.91	1,37,364.
	(Bd/J PP-53, It-16)				
	TOTAL FOR "A" :-				175,41,025.

S. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	SECTION B : PLUMBING DRAINAGE				
	(ALL FITTINGS / PIPES TO HAVE ISI MARK)				
B 1.	Removing 75mm & 110 mm diameter P.V.C./ CI pipe and necessary fittings such as bend, tees etc on siporex wall surface without damaging the Siporex wall surface carefully conveying and stracking in PWD Chowky or as directed by Engineer – incharge etc. complete etc.	515	RM	47.04	24,226.
	(Bd/V PP-171, It-102)				
B 2.	Removing 15mm to 50mm diameter Galvanised Iron Water pipe and necessary fittings such as bend, tees etc on siporex wall surface without damaging the siporex wall surface carefully conveying and stacking in PWD Chowky or as directed by Engineer –in charge etc. complete.	445	RM	34.85	15,508.
	(Bd/V PP-171, It-101)				
B 3.	Carefully making holes in the wall for checking for leakage and remaking / filling the hole with brick pieces in cement mortar to level complete. (excluding plaster).	12	NO.	647.33	7,768.
B 4a.	Providing and fixing ISI 1729/2002 grade 100mm Cast Iron Soil Pipes With lugs including plug bend necessary fittings such as bends, tees, single junction, double junction, slotted vent, offsets on wall or into the ground including filling joints with cement mortar 1:2 proportion fixing on wall by means of galvanised M.S. bracket of 30 x 5 mm plate and 8 mm square rod with G.I. clamp with washer as per design, drawing and as directed to keep pipe 50 mm away from wall including necessary scaffolding and painting the exposed faces with one coat of red lead oil paint and two coats of gray oil paint including removing the existing pipe if necessary and conveying and stacking in PWD Chowky or as directed by Engineer-in-Charge.				
i.	100 mm dia	160	RM	1796.38	2,87,421.

	Bd/V-35 P-570 (PP-152, It-28)				
b.	Providing and fixing ISI 1729/2002 grade 75mm dia Cast Iron Waste Water Pipe with lugs necessary fittings such as bends, tees, single junction, double junction, slotted vent, offsets on wall or into the ground including filling joints with cement mortar 1:2 proportion fixing on wall by means by galvanised M.S. bracket of 30 x 5 mm plate and 8 mm square rod with G.I. clamp with washer as per design drawing and as directed to keep pipe 50 mm away from wall including necessary scaffolding and painting the exposed faces with one coat of red lead oil paint and two coats of grey oil paint including removing the existing pipe if necessary and conveying and stacking in PWD Chowky or as directed by Engineer-in-Charge.				
i.	75 mm dia	90	RM	1435.60	1,29,204.
	Bd/V-35 P-570 (PP-153, It-29)				
c.	.---do--do-- for 75mm diam. Vent line.	140	RM	1618.31	2,26,563.
B 5.	Providing and fixing ISI 1729/2002 grade 100 mm dia. Cast Iron Rain Water Pipe with lugs including rain water receiving recess with cast iron grating plug bend, necessary fittings such as offsets, shoe including filling joints with spun yarn soaked in bitumen and cement mortar in 1:2 proportion, fixing on walls by means of Galvanised M.S. Bracket 30 x 5 mm plate and 8 mm square rod with G.I. clam with washer as per design, drawing and as directed to keep pipe 50 mm away from wall including testing, cement concrete 1:2:4 blocks of 30 cm x 30 cm x 30 cm in size including necessary scaffolding and painting the exposed faces with one coat of red lead oil paint and two coats of white oil paint including removing the existing pipe if necessary and conveying and stacking in P.W.D. Chowky or as directed by Engineer-in-Charge.	125	RM	1336.35	1,67,044.
	Bd/V-33 P-567 (PP-152, It-27)				

B 6.	Providing and fixing G.I. pipes (approved quality) and having embossed at every metre as ISI mark and name of the manufacturer to walls, ceilings, floors etc. with screwed sockets, backnuts, elbows, tees, reducers, enlargers, plugs, clamps etc. including necessary drilling in holes in walls/ slabs etc. and remaking good the demolished portion to restore the same in original condition neatly and applying primer and two coats of white oil painting including necessary scaffolding including removing the existing pipe, if necessary and conveying and stacking the same in P.W.D. chowky or as directed etc. complete.				
a.	15 mm diameter medium class having 21.30 mm outer dia. and 1.274 Kg. per meter weight.	250	RM	275.38	68,845.
	Bd/V-5 P-551 (PP-145, It-03)				
c.	25 mm diameter medium class having 33.7 mm outer dia. and 2.252 Kg. per meter weight.	160	RM	313.25	50,120.
	Bd/V-5 P-551 (PP-145, It-03)				
e	40 mm diameter medium class e galvanised iron pipe having 48.3 mm outer dia. and 3.731 Kg. per meter weight.	25	RM	442.99	11,075.
	Bd/V-5 P-551 (PP-145, It-03)				
f.	50 mm diameter medium class having 60.3 mm outer dia. and 5.236 Kg. per meter weight.	10	RM	739.25	7,393.
	Bd/V-5 P-551 (PP- 145, It-03)				
B 7.	Extra for replacing G.I. short wall pieces including making holes and sealing the same (excluding plaster).	28	NO.	539.44	15,104.
B 8.	Re-fixing existing old GI pipes of any size with new fittings, clamps, etc. complete as directed. (MPT SOR 2014 PP-108 It-25)	QRO	RM	103.57	-----
B 9.	Carefully removing and refixing existing C.I. drain pipes with necessary clamps, packing, sealing, etc. complete.	10	RM	701.27	7,013.

B 10.	Providing and fixing gun metal wheel valve gate type (Peet valve) tested by MCGM or bearing ISI mark complete as directed.				
a.	25 mm (1") nominal bore	13	NO.	790.82	10,281.
b.	40 mm (1 ½") nominal bore	5	NO.	2007.79	10,039.
c.	50 mm (2") nominal bore	2	NO.	2371.37	4,743.
	(MPT SOR 2014 PP-73 It-07)				
B 11.	Providing and fixing 10 cm cast iron Nahani Trap with fixed cast iron grating, cast iron plug bend and piece of cast iron pipe upto plug bend etc. complete. (As directed by Engineer in Charge)	48	NO.	1851.57	88,875.
	Bd/V-32 P-567 (PP-151, It-26)				
B 12.	Providing and fixing 15 cm x 10 cm Salt Glazed Stoneware Gully Trap in cement concrete 1:4:8 outside the building including connecting to salt glazed stoneware pipe, brick masonry chamber with cast iron lid grating for the gully trap etc. complete as directed.	9	NO.	2434.16	21,907.
	Bd/V-38 P-572 (PP-155 It-36)				
B 13 a.	Providing and constructing Brick Masonry Inspection Chamber 90 cm x 45 cm and 90 cm to 150 cm in depth including necessary excavation, cement concrete 1:4:8 foundation, cement concrete 1:2:4, 23 cm thick channels, brick masonry, plastering from inside and outside as required in cement mortar 1:3 and airtight cast iron heavy type lid (1 CWT weight) with frame fixed in cement concrete 1:2:4 etc. complete as directed.				
	90 cm x 45 cm and 90 cm to 150 cm in depth	9	NO.	14676.80	1,32,091.
	Bd/V-43 P-575 (PP-156, It-38)				
b.	..-do-- with old cover refixed	1	NO.	12946.50	12,947.
B 14.	Removing chokes in sewer line of dia. 300 mm by manual rodding, mechanical choke removers if necessary, passing metal and coir ball through the drain so as to clean the pipe completely as directed.	60	RM	45.31	2,719.
	(MPT SOR 2014 PP-98 It-41)				

B 15.	Providing and laying Salt Glazed Stoneware pipe including fittings such as bends, tees, single junctions, double junctions, laying, jointing (excluding excavation and refilling the trenches) etc. complete as directed.				
a.	100 mm dia.	20	RM	322.15	6,443.
	Bd/V-39 P-573 (PP-155, It-37)				
b.	150 mm dia.	60	RM	370.17	22,210.
	Bd/V-39 P-573 (PP-155, It-37)				
B 16.	Removal of plants / fungus growth by pulling out root system embedded in masonry, cutting stem and application of high/gur/lime formulation as specified by the Architect or other patented chemical biocide treatment such as biocide 'Glycel' (iso proplamine salt of glyphosate) or other chemical as specified by the Architect etc. complete. (As directed by Engineer in Charge)	50	NO	188.27	9,414.
	(Bd/SS PP-203, It-51)				
B 17.	Carefully cutting & dismantling existing M. S. tanks including shifting to the ground level and stacking the same as directed	5	NO.	3776.06	18,880.
B 18.	Providing & fixing rotomoulded overhead water storage Sintex ISI (or equivalent) tanks with best quality approved brass ball valves, BMC approved C I cover, etc. complete (including transportation, lifting, erection, etc., approx. 2,000 ltr. each).	4	No	21577.50	86,310.
	TOTAL FOR "B" :-				14,44,141.

S. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	SECTION C : PAINTING WORKS				
	NOTE :- Rates for all items to include scaffolding where necessary.				
C 1.	Providing and applying colour wash in three coats to old/ new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface to receive the paint by brushing and brooming down and applying putty etc. complete.				
	a) colour-wash	1000	SM	22.77	22,770.
	Bd/P-2, P-412 (PP-95, It-05)				
C 2a.	Providing and applying one coat of exterior primer for Acrylic latex paint of approved manufacturer including preparing the surface including scaffolding upto ground floor etc. complete. as per manufacturer's specification. (As directed by Engineer in Charge)	4500	SM	29.13	1,31,085.
	(Bd/O PP-93, It-12)				
b.	Providing and applying two coats of exterior Acrylic latex paint of approved colour and shade to the plastered surface as per manufacturer's specification including scaffolding preparing the surface etc. complete. (Excluding primer coat).				
	a) including Scaffolding	100	SM	112.20	11,220.
	(Bd/O P-94, It-13)				
C 3 a.	Providing and applying one priming coat including preparing of the surface by thoroughly cleaning oil, grease, dirt and other foreign matter with wire brushing, fine fire steel wool, and sand paper, scaffolding etc. complete. (As directed by Engineer in Charge)				
i.	over steel and other metal surfaces	300	SM	26.97	8,091.
	(Bd/O P-92, It-7)				
ii.	to wood and wood based surface	3500	SM	30.21	1,05,735.
	(Bd/O P-92, It-7)				

b.	Providing and applying two coats of synthetic enamel paint of approved colour to new/old structural steel work and wood work in buildings and workshops including scaffolding if necessary, cleaning and preparing surfaces by solvent, degreasing and derusting by manual scraping/mechanically by sand blasting/shot blasting flame cleaning/by chemical methods complete. (excluding primer coat)				
ii.	two coats	3800	SM	72.34	2,74,892.
	Bd/O-5 P-405 (PP-91, It-02)				
c.	Providing and applying three coats of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat)	3000	SM	89.55	2,68,650.
	(Bd/O-5 PP-93, It-10)				
C 4.	Providing and applying washable oil-bound distemper of approved quality colour and shade to old/new surfaces in two coats including scaffolding, preparing the surfaces to receive the paint and applying putty (excluding priming coat) complete.				
b.	two coats	1400	SM	54.00	75,600.
	Bd/P-5 P-413 (PP-95, It-02)				
C 5.	Providing and applying french polishing for required finish on previously polished wood including knotting, preparing the surface, scaffolding etc. complete as directed.	200	SM	70.34	14,068.
	Bd/N-1.3 P-399 (PP-89, It-03)				
	TOTAL FOR "C" :-				9,12,111.

S. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	SECTION D :MISCELLANEOUS WORKS				
	AND TOILET RENOVATION WORKS				
D 1a.	Removing carefully existing door shutter (Single) or window shutters (pair) excluding teak wood frame and stacking the same etc. complete as directed.	90	NO.	133.73	12,036.
	MPT (SOR 2014, PP-107 It-15)				
b.	Removing carefully existing door or window wooden frame and stacking the same etc. complete as directed.	90	NO.	122.63	11,037.
	MPT (SOR 2014, PP-107 It-16)				
D 2.	Servicing existing T. W. Window/ door with frame carrying out need based repairs using new CTC timber of matching size , replacing deteriorated brass fittings, broken clear glass panes and refixing the same (all additional fittings, fixtures shall be provided for).	150	SM	1618.31	2,42,747.
D 3.	Providing and fixing country teak wood 30 mm thick double leaves first class windows adopting sections and sizes as given in Standard Specifications Volume-II (1981) with plain glass shutters without ventilators/ fanlights as per detailed drawings including brass oxidised fixtures and fastenings and finishing the wood work with one coat of primer complete. (Without frame and mild steel bars) (As directed by Engineer in Charge)	75	SM	6465.82	4,84,937.
	Bd/T-41 P-502 (PP-117, It-36)				
D 4.	Providing and fixing country cut teak wood louvered window with teak wood frame 60 x 100 mm and glass louvers of approved quality with 16 mm dia. mild steel bars placing of M.S. bar between louvers including finishing wood work and iron work with one coat of primer complete. (As directed by Engineer in Charge)	30	SM	9627.92	2,88,838.
	Bd/T-52 P-509 (PP-118, It-43)				

D 5a.	Removing existing water proofing treatment such as I.P.S./Brick bat coba etc. from terrace/toilet block without damage to structure, levelling and cleaning the surface for providing new specialised water proofing treatment including prearing bell mouth,curing etc complete. (As directed by Engineer in Charge)	225	SM	71.28	16,038.
	(Bd/J PP-51, It-10)				
b.	Providing and laying waterproofing treatment to the mori, bath, w.c. etc. using river sand including smooth plaster in CM (1:3) over a layer of cement slurry and one coat of polycoat SS in flooring and dado including providing necessary brick bat coba in CM (1:3) of required thickness, 25 mm thick IPS (1:2:3) including addition of approved quality waterproofing compound etc. complete as directed (Payment will be made for plan area)	225	SM	858.78	1,93,226.
	(MPT SOR 2014 PP-109, It.35)				
D 6.	Removing the old cement concrete or any type of tiled flooring including levelling the surface, cleaning the site including sorting out serviceable tiles and stacking the same and debris disposing off upto a distance of 50 metres. (As directed by Engineer in Charge)	2700	SM	64.59	1,74,393.
	BD/M (PP-80, It-40)				
D 7.	Providing and fixing plain ceramic tiles of size 300mm x 300mm and above 5 to 6 mm thick for dado and skirting in required position fixed on plaster of cement mortar 1:4, neat cement paste, filling joints with neat cement slurry, curing and cleaning complete.				
a.	300 mm x 300 mm	780	SM	780.51	6,08,798.
	Bd/M-13 P-386 (PP-75, It-15)				
D 8.	Providing and laying glazed tiles of 200 x 100 mm in size and 8 to 9.5 mm thick for flooring in required positions laid on a bed of cement mortar 1:4 including neat cement float, all special required like round, edge tiles, corner cups etc. filling joints with neat cement slurry mixed with approved shade of pigment to match the colour of tiles, curing and cleaning complete.				
a.	white glazed tile	1700	SM	1276.64	21,70,288.

	Bd/M-12 P-385 (PP-74, It-11)				
D 9.	Providing and fixing glazed tiles of 200 x 100 mm in size and about 6.5 mm thick for dado and skirting in required positions fixed on plaster of cement mortar 1:4 including neat cement float, all special required like round, edge tiles, corner cups etc. filling joints with neat cement slurry mixed with approved shade of pigment to match the colour of tiles, curing and cleaning etc. complete.				
a.	white glazed tile	50	SM	1378.75	68,938.
	Bd/M-13 P-386 (PP-74, It-12)				
D 10.	Removing W.C. pans including disconnecting the sanitary and water supply connections, removing and breaking flooring and bed concrete around pans and removing pan carefully and throwing out the refusal outside etc. complete. (As directed by Engineer in Charge)	24	NO.	141.28	3,391.
	Bd/W-8 P-587 (PP-161, It-67)				
D 11.	Providing and fixing Orrisa type glazed earthenware 580 mm x 450 mm water closet pan including trap, cast iron soil and vent pipes upto the outside face of the wall including 100 mm. diameter cast iron plug bend, cement concrete bedding, 10 litres capacity H.D.P.E. flushing cistern with fittings, inlet pipe with stop tap, brackets, 32 mm. diameter galvanised iron heavy type flush pipe with fittings and clamps, painting in gray oil paint to exposed pipes and cutting and making good the walls and floors etc. complete. (Excluding water proofing with brick bat coba)				
a.	white	2	NO.	8672.16	17,344.
	Bd/V-20 P-559 (PP-149, It-18)				
D 12.	Providing and fixing European type coloured glazed earthenware 580mm coupled closet syphonic trap with syphonic low level white glazed 10 litres cistern with black bakelite seat and lid with chromium plated brass hinges including cast iron soil and vent pipes upto the outside face of the wall including 100 mm diameter cast iron plug bend, inlet pipe, stop tap etc. all fittings, cutting and making good walls and floors complete.	22	NO.	10064.41	2,21,417.
	Bd/V-22 P-562 (PP-149, It-17)				

D 13.	Removing old pan and fixing New White Glazed Wash Hand Basin 55 x 40 cm (22" x 16") including removing existing one and disconnecting and reconnecting the existing accessories and making good the damages and deficiencies, if any etc. complete. (As directed by Engineer in Charge)	32	NO.	1160.98	37,151.
	(Bd/V PP-159, It-58)				
D 14.	Deleted.				
D 15.	Providing and fixing machine cut mirror polished green coloured marble slab of required size and about 16 mm to 18 mm thick of approved quality for boxing of windows, door frame of toilets on cement mortar 1:4 including neat cement float, filling joints, rounding and moulding the edges, curing minor polishing rubbing and cleaning etc. complete.	60	SM	1299.88	77,993.
	Bd/M-31 P-392 (PP-82, It-49)				
D 16.	Providing and fixing heavy duty stop cock (C.P) of approved make for toilets and washing place.	56	NO.	485.49	27,187.
D 17.	Providing & fixing heavy duty pillar cock (C.P) of approved make for toilets and washing place.	32	NO.	485.49	15,536.
D 18.	Providing & fixing heavy duty bib tap (C.P) of approved make for toilets and washing place complete as directed.	56	NO.	485.49	27,187.
D 19.	Providing and fixing 24 gauge plain alluminium sheet on the face of door shutter of W.C./Bath including cutting to required size and fixing by screws including making good the damages if any to existing door shutter and frame etc. complete. (As directed by Engineer in Charge)	60	SM	990.84	59,450.
	(BD/T PP-125, It-70)				
D 20.	Removing and resetting Manglore tiled roof including refixing loose battens complete.	1000	SM	82.34	82,340.
	Bd/R-8 P-587 (PP-102, It-11)				

D 21.	Removing carefully Existing mangalore tiles, ridges and hips from the roof, stacking the serviceable materials properly on ground within a lead of 100 Mtrs., transporting the unserviceable materials away including sorting and cleaning of the materials complete as directed.	1200	SM	113.28	1,35,936.
D 22.	Providing and fixing Manglore tiled roofing with class "AA" tiles including securing the last course of tiles near the eaves with steel flats of 40 mm x 3 mm and 1.22 mm wire, fixing of 25 mm x 12 mm country teak wood sloping battens and fixing 50 mm x 25 mm country teak wood horizontal battens over the sloping battens, all iron work and coaltarring the battens and planning the undersides and battens complete.(excluding ridge and hip tiles)	800	SM	728.24	5,82,592.
	Bd/R-2 P-450 (PP-101, It-02)				
D 23 a.	Providing and fixing country teak wood plank ceiling 20 mm thick planed on the underside, tongued and grooved including iron screws and scaffolding if necessary, including primer coat on underside and one coat of coal tar on upper side complete.	50	SM	2495.56	1,24,778.
	Bd/Q-3 P-421 (PP-97, It-03)				
b.	Providing and fixing Country Teak Wood planking 25 mm thick for roof/ ceiling as per existing details, tongue and grooved including scaffolding if necessary and one coat of primer complete. Item to include all mouldings and chamfers to be made as per original design indicated by Architects. Item to include using a larger section of wood to get the mouldings and chamfers as per original design, sample to be shown to the Architect for approval before fixing. (As directed by Engineer in Charge)	50	SM	2232.50	1,11,625.
	(Bd/T PP-134, It-98)				
D 24.	Providing and fixing country cut teak wood battens 50 mm x 25 mm for Manglore tiled roof work with all iron works, scaffolding etc. complete. (As directed by Engineer in Charge)				
a.	50 mm x 25 mm	600	SM	105.66	63,396.
	BD/R (PP-103, It-18)				

D 25.	Providing and fixing Manglore type ridge and hip tiles class "AA" tiles including scaffolding if necessary, pointing with coloured cement mortar and curing complete.	100	RM	264.64	26,464.
	Bd/R-3 P-450 (PP-101, It-03)				
D 26.	Carefully removing existing eaves gutter and providing & fixing half round eaves gutter at roof edge to gradient using GI sheet 22 G supported by epoxy primer coated MS brackets 25 x 5 mm @ 1 M c/c including necessary stoppers, drain junctions, etc as directed.	110	RM	1348.59	1,48,345.
D 27.	Providing and maintaining temporary platform for protection to pathways from falling debris, dust, water, etc using steel / bamboo framework and runners with planks, plywood, G.I sheets, etc, complete as directed and maintaining the same for the duration of the works complete as directed.	85	SM	647.33	55,023.
D 28.	Providing and maintaining temporary structural platform to support scaffolding above with a working platform which will also protect pathway below from falling debris, dust, water, etc using steel sections as per design with runners and planks, plywood G. complete as directed.	80	SM	1618.31	1,29,465.
D 29.	Providing and fabricating structural steel works with mild steel plates as per detailed design and drawing including fixing in position and welding, riveting, bolting as necessary including oil painting in three coats etc. complete.	1	MT	81002.29	81,002.
	Bd/C-2 P-275 (PP-141, It-07)				
D 30.	Carefully removing existing precast balusters and balustrade Providing and fixing in in position precast railing using precast balusters and balustrades and sealing joints (excluding plaster) complete as directed.	12	SM	4315.50	51,786.

D 31a.	Providing antitermite treatment around the periphery of the existing building as per IS: 6313 (Part III) by excavating trenches of 20 cm width and exposing the sides of the column & plinth beams upto a depth of 300mm & injecting 1% of chiorodane emulsion concentrate at the rate of 2.25 liters per metre and refilling the trenches etc. complete covering 2 years guarantee.	3300	SM	71.63	2,36,379.
	Bd/W (PP-165, It-46) (Taken Rates from PWD 2013-14)				
b.	Providing antitermite treatment to the wooden frames of doors / windows of the existing building as per IS: 6313 (Part- III) by drilling 6 mm dia. Holes at four corners at downward angle of about 450 at junction of wood work and masonry and injecting 150 ml of chloropyrifos or equivalent 5% emulsion concentrate, sealing by filling putty, covering 2 years' guarantee. (As directed by Engineer in Charge)	260	NO.	76.19	19,809.
	Bd/W (PP-164, It-43) (Taken Rates from PWD 2013-14)				
c.	Providing antitermite treatment to the sides of flooring of the existing building as per IS: 6313 (Part- III) by punching holes 16 mm dia. drilled at a distance of 30 cm centre to centre and injecting 150 ml of chloropyrifos or equivalent 5% emulsion concentrate per hole and sealing by filling putty, covering 2 years' guarantee. (As directed by Engineer in Charge)	1630	NO.	18.25	29,748.
	Bd/W (PP-164, It-45) (Taken Rates from PWD 2013-14)				
D 32.	Providing and fixing high level PVC flushing cistern with a pair of CI or mild steel or CP brackets complete with fittings such as GI inlet pipe connection and 32 mm dia GI flush pipe, syphonic arrangement, 15 mm nominal size PVC ball valve with polythene float, lever, pulling arrangement, unions & couplings for connections with inlet, outlet and over-flow pipe with brass mosquito-proof coupling etc. including making holes in walls and reinstating the same, three coats of synthetic enamel paint for the GI, pipes & fittings etc. complete (All fittings and pipes to bear ISI mark or tested by MCGM).				

a.	5 litres capacity (MPT SOR 2014, PP-67 It-07)	24	NO.	2723.08	65,354.
D 33a.	Removing urinal pans with frame including disconnecting the sanitary and water supply connections, removing the same carefully and stacking the serviceable materials as and where directed including throwing the unserviceable materials outside. (As directed by Engineer in Charge)	24	NO.	56.58	1,358.
	Bd/V-8 P-587 (PP-160, It-66)				
b.	Providing and fixing White glazed earthenware half stall type urinal with white H.D.P.E. flushing cistern of 5 litres capacity with fittings, inlet pipe and stop tap, brackets for fixing the cistern, 32 mm diameter galvanised iron heavy type flush pipe with fittings and flushing spreader arrangement etc. complete.				
	half stall	24	NO.	6640.21	1,59,365.
	Bd/V-23 P-562 (PP-149, It-19)				
D 34.	Providing and fixing H.D.P.E. Flushing Tank of approved quality, including removing the existing tank and disconnecting and reconnecting to water supply and drainage pipes and making good the deficiencies etc. complete. (As directed by Engineer in Charge)	24	NO.	2121.33	50,912.
	Bd/V (PP-158, It-50)				
D 35.	Providing and fixing Mirrors of approved Indian quality, copper plated with 10 mm (3/8") thick ply wood backing, in the masonry etc. complete. (As directed by Engineer in Charge)	24	NO.	1007.29	24,175.
	Bd/V (PP-157, It-45)				
D 36.	Providing and fixing C.C.T.W. single leaf second class 22 mm thick plain planked door without ventilator adopting sections and sizes as given in Standard Specifications Volume-II (1981) or as per detailed drawings including chromium plated fixtures and fastenings and finishing the wood work with one coat of primer complete. (Without frame)	10	SM	3954.56	39,546.
	Bd/T-22 P-494 (PP-113, It-13)				

D 37.	Providing and fixing the following fixtures and hardware to the wood work including required screws and other fastenings.				
a.	Eyes and hooks -Anodised Aluminium-200mm	50	NO.	29.13	1,457.
b.	Handles – Anodised Aluminium-150mm	50	NO.	36.68	1,834.
c.	Aldrops -Anodised Aluminium-250mm	50	NO.	185.57	9,279.
d.	Tower bolts -Anodised Aluminium-200mm	50	NO.	59.34	2,967.
e.	Door latches - Anodised Aluminium-300mm	50	NO.	147.81	7,391.
	(MPT SOR 2014, PP-46-47 It-53)				
D 38.	Providing and fixing mild steel grill work for window, ventilator weighing 15 kg per Sqm. as per drawing including necessary welding and painting with one coat(one coat of red lead oil paint and two coats of oil paint of approved shade) of anticorrosive paint etc. complete.	10	SM	1553.69	15,537.
	Bd/U-1 P-537 (PP-141, It-01)				
D 39.	Providing and fixing country teak wood common rafters, purlins and purlin cleats, hip rafters, jack rafters, ridges, wall plates, post plates and posts for roofing etc. including scaffolding if necessary, all iron work and one primer coat complete.	1	CuM	83531.89	83,532.
	Bd/Q-5 P-423 (PP-97, It-05)				
D 40.	Indian marble white with grey veins ('Adanga' variety) 16 to 20 mm thick in divider/urinal partitions of sizes as directed and to be fixed on C.M. (1:3) 12 mm thick backing with brass clips including filling joints with white cement and polishing etc. complete as directed.	80	SM	2236.51	1,78,921.
D 41a.	Removing galvanised iron or asbestos cement sheet roof covering and stacking the same as and where directed in the compound, scaffolding etc. complete.	10	SM	45.08	451.
	Bd/W-8 P-587 (PP-102, It-14) (included in Bd/R)				
b.	Providing and fixing corrugated galvanised iron sheets of 0.80 mm thickness (22 B.W.G.) for roofing without wind ties including fastening with galvanised iron screws and bolts and bitumen washers as per drawings complete.	10	SM	783.24	7,832.
	Bd/R-3 P-450 (PP-101, It-04)				

D 42a.	Removing existing G.I. valley gutter and half round gutter including fitting such outlets angle and stop ends with bracket ,screws to rafter / eaves board including scaffolding etc. complete.	40	SM	269.72	10,789.
b.	Providing and fixing valley gutter of 0.80 mm thickness (22 B.W.G.) plain galvanised iron sheets 90 cm wide with country teak wood planking 20 mm thick including two coats of coal tarring the upper surface of plank (excluding painting to under side of plank)				
ii.	90 cm wide	40	RM	3262.29	1,30,492.
	Bd/R-10 P-455 (PP-101, It-06)				
D 43	Disconnecting, shifting, turning and removing Water Tank for repairs and testing after repairs and fixing in position with all connection etc. complete. (As directed by Engineer in Charge)	1000	100 Litre	26.76	26,760.
	(Bd/V PP-158, It-53)				
D 44	deleted				
D 45.	Carefully removing existing steps including the bedding/ backing material, complete and removing the debris from the site. Exposed surface to be cleaned and prepared to accept new material.	140	No	188.80	26,432.
D 46.	Providing and laying approved quality polished kota stone tread of full width with 3 grooves and chamfered edge complete including necessary bedding mortar, levelling, curing, etc. (basic rate for stone @ Rs 45/- per sft)	140	No	366.82	51,355.
D 47.	Providing and laying approved quality polished kota stone riser of full width complete including necessary backing coat, curing (basic rate for tile @ Rs 42/- per sft)	140	No	299.93	41,990.
D 48.	Providing & laying polished kota flooring of approved shade, size and pattern including cement mortar bedding, joints finished flush in matching colour cement, cutting, rubbing, washing, cleaning, etc. complete as per drawings, details as directed. (Basic rate for Tiles : Rs. 45/- per sft.)	20	SM	1564.37	31,287.

D 49.	Providing and laying approved quality polished kota stone skirting / band upto 125 mm complete including necessary backing coat, curing (basic rate for stone @ Rs 42/- per sft)	85	RM	409.97	34,847.
D 50.	Providing and fixing mild steel grill railing 15 kg per Sq.M. with country cut teak wood hand rail of size 75 x 60 mm and sill of 75 x 25 mm for staircase including fabricating, fixtures, erecting, painting grill work with one coat of anticorrosive paint and polishing the sill, hand rail with French polishing complete.	40	SM	2682.20	1,07,288.
	Bd/U-2 P-537 (PP-141, It-03)				
D 51.	Providing 2nd class teak wood in frames of doors, windows etc. wrought, framed and fixed in position including m.s. hold-fasts, coal tarring the surfaces coming in contact with masonry and concrete etc. complete as directed.	8	Cu.M.	56665.75	4,53,326.
	(MPT SOR 2014 PP-39, It-03)				
	TOTAL FOR "D" :-				82,01,093.

"THACKERSEY HOUSE"

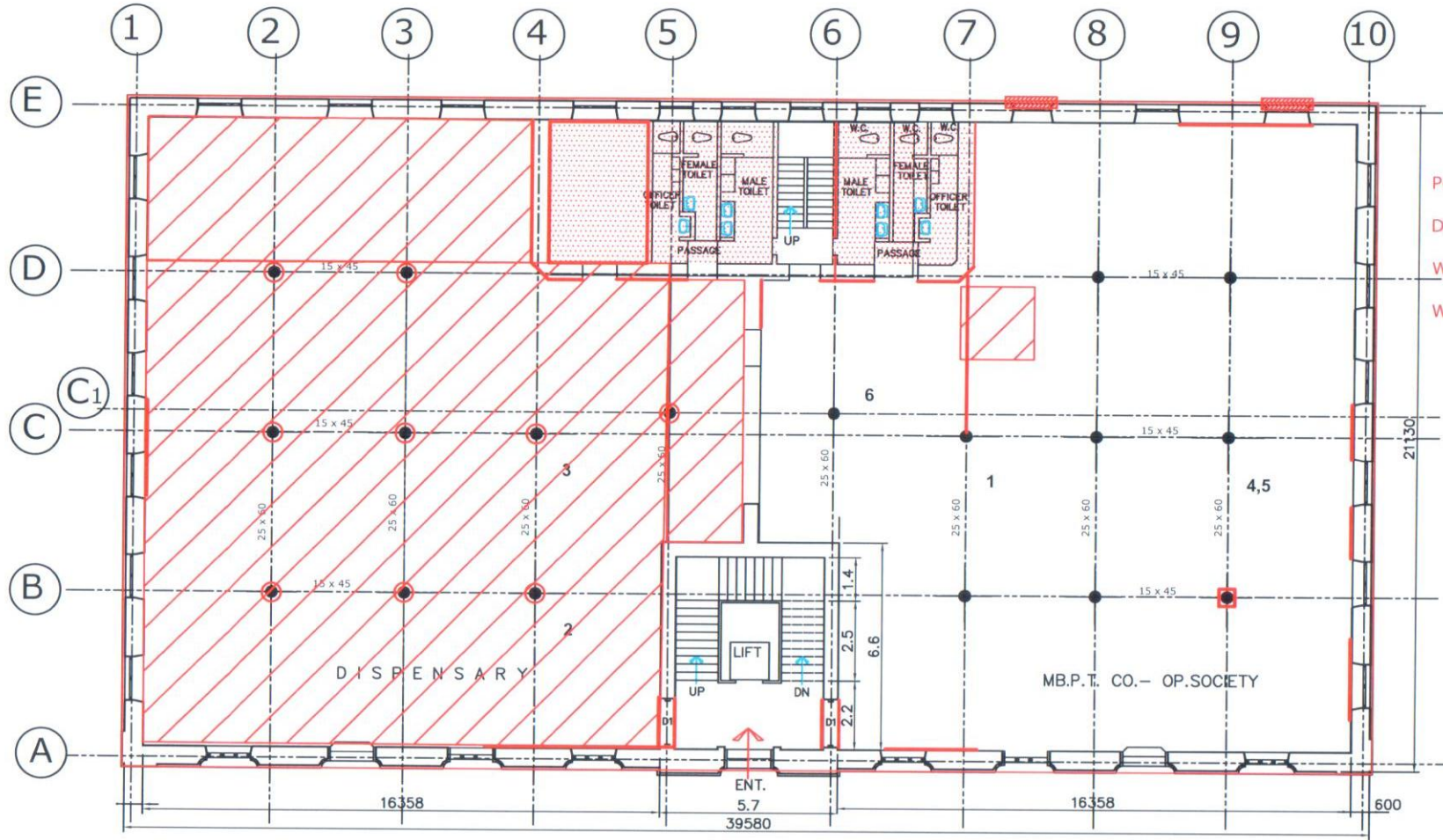
BILL OF QUANTITIES

ESTIMATE

DESCRIPTION	AMOUNT (Rs)
SECTION A - GENERAL REPAIRS	= 175,41,025.00
SECTION B - PLUMBING & DRAINAGE	= 14,44,141.00
SECTION C - PAINTING WORKS	= 9,12,111.00
SECTION D - MISCELLANEOUS AND TOILET RENOVATION WORKS	= 82,01,093.00
ESTIMATED AMOUNT (A)	= 280,98,371.00
<i>Note : The contractor has to offer his percentage rate above / below on this amount (i.e. A)</i>	
Provisional sum (B) <i>For lift up gradation, if required the work will be executed on the basis prepared using PWD DSR (latest version)</i>	= 5,00,000.00
TOTAL ESTIMATED AMOUNT	= 285,98,371.00




Chapter - XI

Drawings:



Perimeter of Column 105 cm.
 Diameter of Column 33 cm.
 Wall thickness - 70 cm.
 Wooden joist - 10x20 cm.

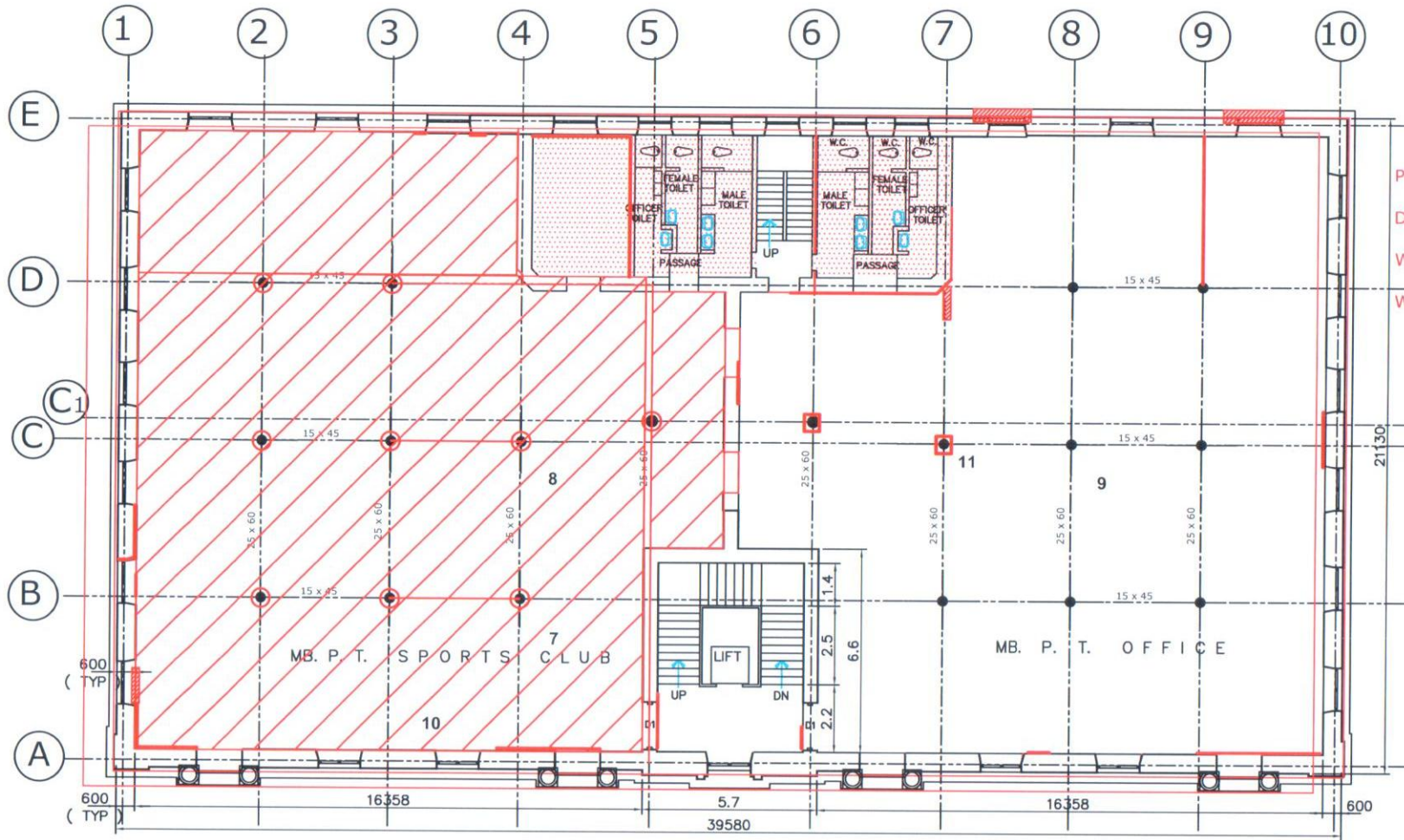
INDICATIVE GROUND FLOOR LAYOUT OF THACKERSEY HOUSE AT BALLARD ESTATE, MUMBAI.

-  REPLACEMENT WITH RCC
-  RESTORATION OF CEILING
-  COLUMNS TO BE REPLACED WITH STEEL SECTION






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 SURVEYORS VALUERS & REHAB ENGINEERS
 ARBITRATORS

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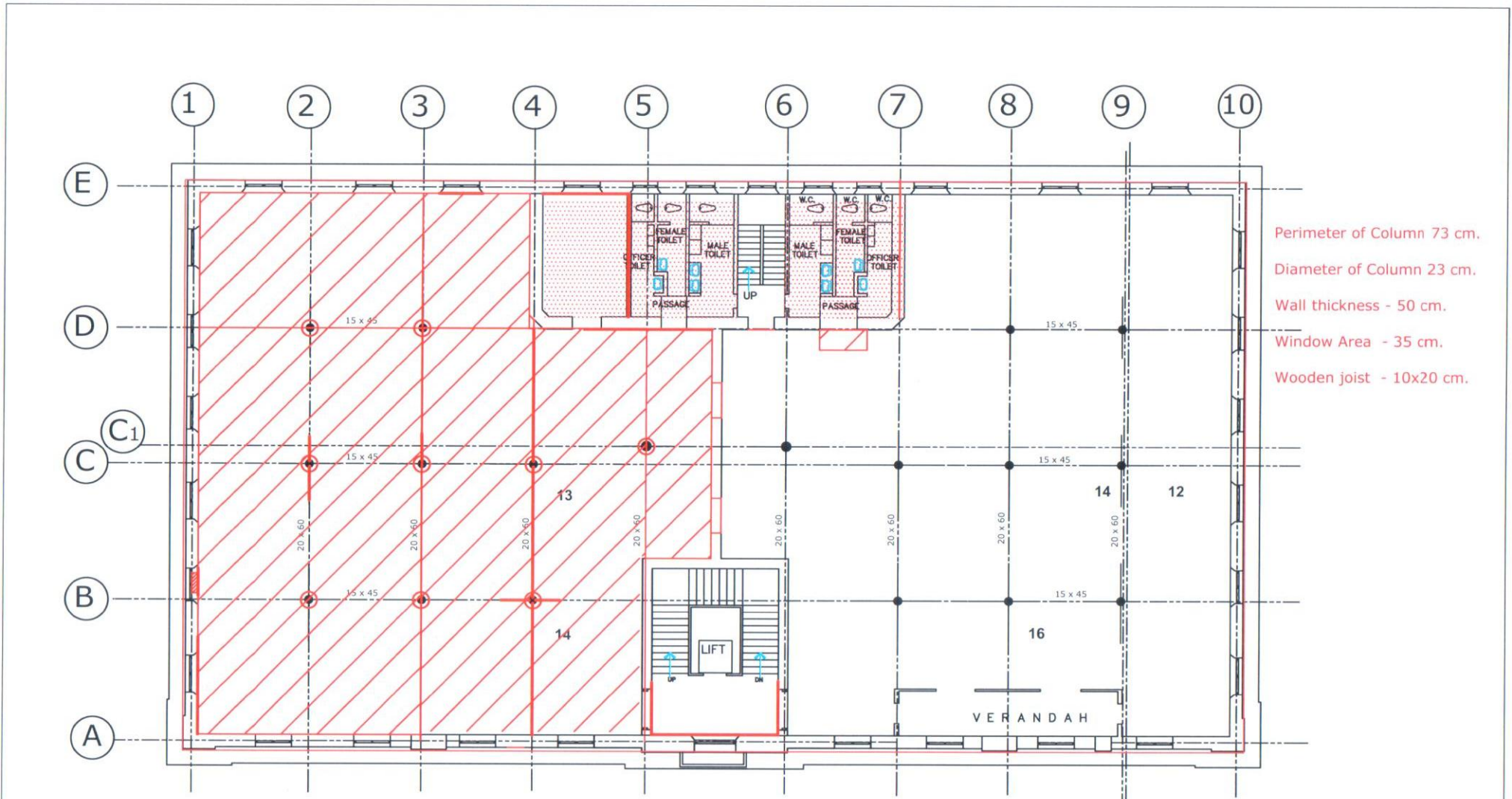
Perimeter of Column 88 cm.
 Diameter of Column 28 cm.
 Wall thickness - 70 cm.
 Wooden joist - 10x20 cm.

**INDICATIVE FIRST FLOOR LAYOUT OF
 THACKERSEY HOUSE AT BALLARD ESTATE, MUMBAI.**

-  REPLACEMENT WITH RCC
-  RESTORATION OF CEILING
-  COLUMNS TO BE REPLACED WITH STEEL SECTION






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 ARBITRATORS



Perimeter of Column 73 cm.
 Diameter of Column 23 cm.
 Wall thickness - 50 cm.
 Window Area - 35 cm.
 Wooden joist - 10x20 cm.

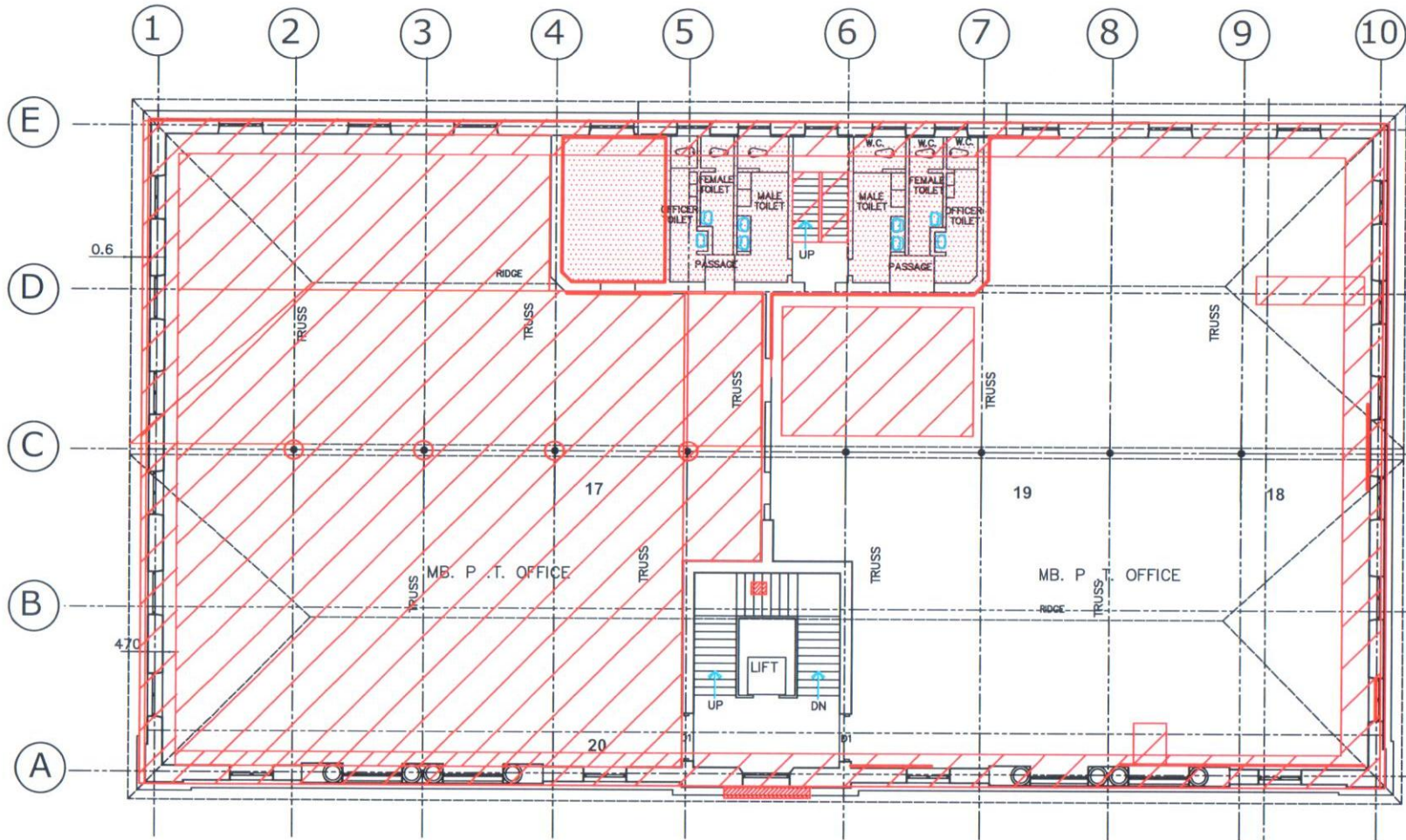
INDICATIVE SECOND FLOOR LAYOUT OF THACKERSEY HOUSE AT BALLARD ESTATE, MUMBAI.

-  REPLACEMENT WITH RCC
-  RESTORATION OF CEILING
-  COLUMNS TO BE REPLACED WITH STEEL SECTION






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 ARBITRATORS

C S R / 1046 / AD - 03



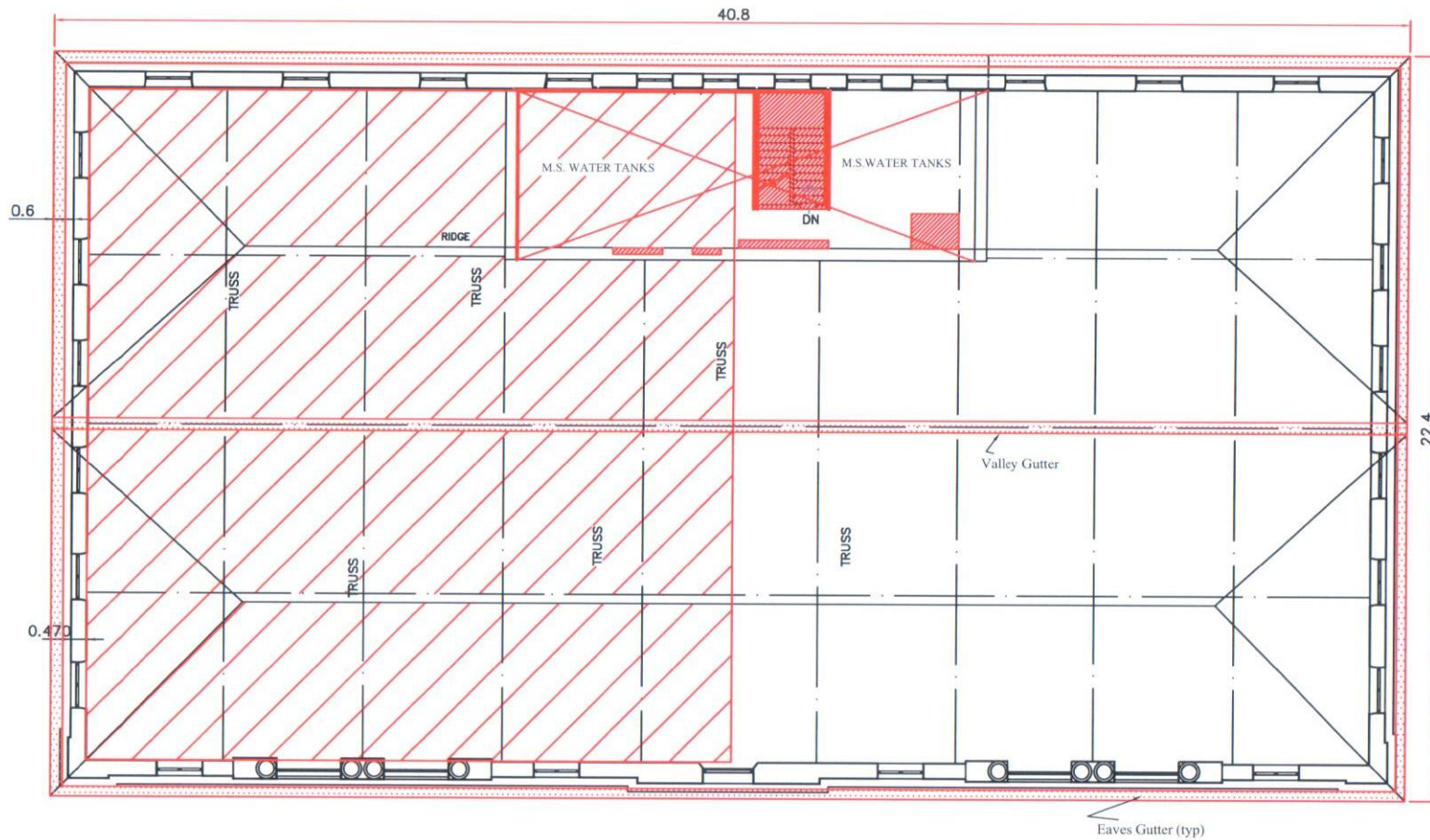
Perimeter of Column 57 cm.
 Diameter of Column 18 cm.
 Wall thickness - 50 cm.
 Wooden joist - 10x20 cm.

INDICATIVE THIRD FLOOR LAYOUT OF THACKERSEY HOUSE AT BALLARD ESTATE, MUMBAI.




-  REPLACEMENT WITH RCC
-  RESTORATION OF CEILING
-  COLUMNS TO BE REPLACED WITH STEEL SECTION



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 SURVEYORS VALUERS & REHAB ENGINEERS
 ARBITRATORS



**INDICATIVE ROOF LAYOUT OF
THACKERSEY HOUSE AT BALLARD ESTATE, MUMBAI.**

-  REPLACEMENT WITH RCC
-  RESTORATION OF CEILING
-  COLUMNS TO BE REPLACED WITH STEEL SECTION



Doshi & Co.
 CHARTERED ENGINEERS ARCHITECTS
 SURVEYORS VALUERS & REHAB ENGINEERS
 ARBITRATORS

C S R / 1046 / AD - 05