

MAHATMA GANDHI MISSION TRUST

**ITEM RATE (WITH MATERIAL)
TENDER DOCUMENT**

**“PROPOSED ADDITION OVER PART THIRD, FOURTH, AND
FIFTH, FLOOR OF SOUTH AND CENTRAL WING, MGM
HOSPITAL BUILDING ON HOSPITAL PLOT, TOWN CENTER
CIDCO AURANGABAD
FOR
MAHATMA GANDHI MISSION TRUST”**

NAME OF THE CONTRACTOR

M/s.
.....
.....
.....

Project Engineer,

**SPACE FORUM ARCHITECTS PVT. LTD.
MGM SITE OFFICE PLOT NO 1, SECTOR 1, KAMOTHE ON
KALAMBOLI JUNCTION NAVI MUMBAI**

MAHATMA GANDHI MISSION TRUST
MGM SITE OFFICE MGM AUDOTORIUM BLDG. JNEC CAMPU CIDCO
AURANGABAD

NAME OF WORK: - “

1. Proposed Addition over part Third floor, Fourth and Fifth of south and central wing of MGM hospital Building Aurangabad

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Issued to: _____

1. “PROPOSED ADDITION OVER PART THIRD, FOURTH FLOOR AND FIFTH OF SOUTH AND CENTRAL WING MGM HOSPITAL BUILDING CIDCO AURANGABAD

1. TENDER NOTICE

The registrar, MGM IHS on behalf of MGM Trust, Navi Mumbai invites online items rate with material, on basis if SOR 2020-2021 of Government of Maharashtra. e- Tender from registered experienced contractors having necessary documents like Income Tax Returns, Experience Certificate, Solvency Certificate, Machinery ownership proof and other statutory registrations etc. as per demand of office for the following works.

Sr. No.	Name of work	Estimated Project civil	Earnest Money. Deposit	Tender Copy Time Period Price
1	Proposed Addition over part Third, Fourth and fifth floor of south and central wing of MGM hospital Building of area 4020.5 sqmt	Rs (INR). 3.577 Cr	Rs. 7.5 lakh	For work 1, 2000.00 For work1. ,180 calendar day

1. Proposed Addition over part Third, fourth and fifth floor of south and central wing of MGM hospital Building having height 3.6mt.

Above structure have RCC frame structure AAC block masonry with side plaster, internal ceiling plaster. Parapet wall and terrace top finishing with brick bat coba.

Tender documents and other details can be obtained from the website, www.mgmuhs.com

From 04-04-2021, 10: 30 hr. to 14-04-2021 16:00 hours. On payment of Rs 2000.00 as tender download price.

The MGM Trust reserves the right of issuing the tenders to the experienced agencies only.

The tender documents completed in all respect accompanied by Earnest Money Deposit (EMD) as above in the form of crossed Demand Draft payable to “MGM Trust Navi Mumbai” should be uploaded up to 14-04-2021 16:00 hr.

Online opening of technical bid will be on 15-04-2021 at 11:00 hours.

At the office of the registrar, MGM IHS, MGM Medical college Campus, on Plot no.1, Sector-1, Kamothe, Navi Mumbai. In the presence of bidders or their authorized representative.

The MGM Trust reserves its right to reject the lowest or any or all tenders without assigning any reason.

Registrar,
MGM Institute of Health Sciences

2. DETAILED TENDER NOTICE TO THE CONTRACTORS

e-tenders are invited by Registrar MGM Institute of Health Sciences, for the work of''

1. Proposed Addition over partthird, fourthand, fifth and sixth of north wing of MGM hospital Building having height 3.6mt.

The estimated cost of the work is

1. MGM HospitalBuilding of area Rs (INR). 3.577 Cr
2. EMD (1) Rs.7.5 lakh . The EMD amount in the form of bank draft or, NEFT to IDBI Bank Account No. 0183104000132763 Navi Mumbai.
3. Completion pried for job , 180 calendar days.
4. e-Tender processing fees : for job : Rs. 2000.
5. Detailed NIT and Tender document can be downloaded from the website www.mgmuhs.com from 04-04-2021, 10:30 Hrs to 14-04-2021 16:00 Hrs.
6. Last date of closing of tender (submission) uploading is 14-04-2021 (16:00 Hrs)
7. Online opening of Technical Bid 15-04-2021 at 11:00 Hrs.

1. Security Deposit :-

- (a) The amount of built-up security deposit will be 5% of the total work allocated to the tenderer.
- (b) Security deposit in the form of EMD (Rs. 7.5 Lakh only) will be paid by approved tenderer on acceptance of tender.
- (c) Balance amount of security deposit to be recovered from bills at 3% of the amount of bill, till total amount of Security Deposit becomes 5% of the cost of project.

2. Tender Rates:-

The tendered should quote the item rates both in figures and in words in the bill of quantity and the total cost quoted at the place provided for in form. No alteration in the form of special conditions will be permitted. The tenders who do not fulfill any of the above conditions or are incomplete in any respect are liable to be summarily rejected. The contractor should particularly note the units on which the rates are based.

- (a) The tendered may in the forwarding letter mention any point that he may wish to make it clear but right is reserved to reject the same or the whole tender if the same becomes a conditional one.

(b) The rates in the Bill of Quantities should be for civil work, no extra amount for carting or transporting will be paid unless specifically mentioned or provided. All the rates are inclusive of all lifts, height and lead overhead, machinery, insurance ,Ceess and ESI for all material and completed items.

(c) The GST shall be extra as applicable.

3. Acceptance of Tender:-

(a) Acceptance of tender will rest with the competent authority that reserves the right to reject any or all tenders without assigning any reasons thereof.

(b) The offer shall remain valid for a period of **180 days** (one hundred eighty days) from the date of opening of tenders.

5. The tenderer whose tender is accepted will have to enter into regular agreement within 7 days from the date of receipt of intimation of the acceptance of the tender and make payment of required security deposit. The tenderer will have to abide by all rules and regulations embodied therein. The amount of Earnest Money shall be forfeited to the Registrar MGM IHS , Navi Mumbai, if after the acceptance of the tender the contractor does not complete the contract documents and fails to pay the initial amount of Security Deposit mentioned above within 7 days of receipt by him of the notification of the acceptance of his tender.

6. The Tenderer shall be assumed to have carefully examined the drawings, conditions & specifications of the contract and to have fully acquainted himself with all details of site location, materials, weather character, site labour conditions and in general all necessary information and data pertaining to the need of work prior to tendering for the work.

7. Submission of Tender :-

The tender should be uploaded in two separate parts A and B. the part A will have following:-

(a) An up to date and valid Income Tax payment copy/ copy of counterfoil of IT return in original or true copy.

(ii) CESS Certificate / document copies showing assessment/payment made as applicable.

(iii) List of similar works done during last three years in Prescribed format (Annexure I) supported by necessary certificates from owners.

(iv) Details of other works tendered and in hand on the date of submission of this tender in prescribed format given in (Annexure II), enclose copies of work order.

(v) Details of Machinery owned by the Tenderer.

(vi) Details of Technical personnel with the tenderer.

(vii) Work program in the form of Bar Chart/CPM network showing timely completion of work.

(x)I. The parts B will have bill of quantities with specification, should be filled it completely in words and figure.

II Photocopy of EMD in the form of bank draft or NEFT paid copy.

- 8) The tender will be liable to be rejected outright if while uploading it:-
1. The tenderer proposes any alternation in the work specified in the tender or in the time allowed for carrying out work or any other conditions.
 2. Any of the pages of the tender are not uploaded.
 - (c) Any erasures are made by him in the tender.
 - (d) All corrections and additions or pasted slips are not initialed by the tenderer.
 - (e) The tenderer in the case of a firm, a partner thereof does not sign and the signature/signatures are not attested by witness on pages of the tender in the space provided for the purpose.
9. This tender notice shall form a part of contract agreement.
10. Part A and Part B of the tender bid must be enclosed with email as two different file in pdf format only. Name of Part A file should **Technical Bid** and Part B file should be **Financial bid**
11. In case of any dispute between the agencies the decision of the Chairman MGM Trust, Navi Mumbai, shall be final and binding on the agencies.
All other conditions remaining same, availability of the following minimum owned key and critical equipment for this work, will have preference in deciding the award.

S. No	Name of Equipment	Size/ Capacity Specification	Nos.
1	Mixer	Half/full bag	1 each
2	Hoist (lift)	Half/full bag load	1 each
3	Vibrator 25/40mm dia niddle (Electrical driven, Diesel driven)		2 each
4	Tyre wheel Trolley		6 Nos
5	Hammer drill (5 kg & 10 kg)		1 each
6	Concrete/steel cutter		1 each

The MGM Trust reserves the right to reject the lowest or any or all tenders without assigning any reasons.

Signature of the Contractor

Registrar MGM IHS
**Issued on Behalf and by the order of
Treasurer, MGM Trust, Navi Mumbai.**

3. GENERAL DESCRIPTION OF WORK

- 2. The project is for the Construction of Proposed** 1. Proposed Addition over part Third, fourth and fifth floor of south and central wing of MGM hospital Building having height 3.6mt.

The scope of work shall consists of removing/ demolition of structural column from parapet wall, and demolition of top layer of masonry work of parapet wall, demolished of RCC structure of slab and disposing the same as directed by the MGM Site Engineer.

The work also includes structural and civil work of proposed lift lobby (1 Nos.) , but excluding electrical, sanitary plumbing and water supply, flooring and door windows work. The scope of work also consist re barring of all diameter i.e. 12 to 25 mm with existing structure for resting of adjoin beam/ slab as directed be MGM site Engineer.

Disposal of Debris in the nearby plotas directed by MGM project engineer.

Signature of Contractor

Engr.MGM

2. INSTRUCTIONS TO TENDERERS

1. e tenders shall be submitted on or before 14-04-2021(16:00 HRS) through etenders@mgmuhs.com. The contractor must super scribe name of the work and contractors name on first page and put date and time before submitting the tender.
2. Tenders will be opened on the day mentioned in the detailed tender notice if possible; otherwise the alternate date and time for the opening will be informed to the tenderer.
3. Hard copy of the Drawings and other details are available to the tenderer's representative for inspection at the MGM site office, Aurangabad on working days during office hours.
4. Right to reject the lowest or any other tender/tenders without assigning any reason is reserved by the owners.
5. In case of proprietary concern the owner or his duly constituted attorney shall sign tender and also attach a copy of power of attorney to the tender. In the case of Partnership Firm/Consortium the tender shall be signed by partners of the firm and the names and addresses of other partners shall be submitted along with the tender. Certified copies of latest partnership deed and the necessary power of attorneys must be enclosed with the tender. In case of a limited or private limited company the tender shall be signed by duly authorized person and a copy of the authorization letter must be attached to the tender. In the case of firms and companies rubber stamps just are put along with the signatures.
6. Tenderer shall submit along with the tender a Bar-Chart showing timely completion of the project.
7. **Tenderer must inspect the site and get completely familiar with the site conditions including floor heights, area for material stacking and area for providing and fixing lift and quote his rates accordingly and no extras will be payable beyond the accepted rates.**

Signature of Contractor

Engr., MGM

2.1.PROFORMA FOR SUBMISSION OF TENDER

To, The Registrar
MGM IHS

- 3. SUB: 1 Proposed** Addition over part Third, fourth and fifth floor of south and central wing of MGM hospital Building having height 3.6mt.

Dear Sir,

1. Having obtained the Tender Documents for the work under reference and having examined the scope of work and Conditions of Contract, we hereby offer to perform, provide, execute, complete and maintain the work in conformity with the Articles of Agreement, General Conditions of Contract, Special Conditions of Contract, detailed drawings and specifications in the amounts as quoted in the accompanying Tender within the stipulated time. We confirm that these works are to be approved by the Architect's and Engineer Incharge Of, MGM Trust, Navi - Mumbai.
2. We have satisfied ourselves as to the location of the site and working conditions, foundation conditions, examined the requirements of Mahatma Gandhi Mission Trust, Navi - Mumbai and have obtained all the information necessary for the successful timely completion of the work.
3. We have submitted to you along with this offer a work program in the form of Bar Chart to complete the work in specified time limit.
4. We have deposited the necessary Earnest Money with you, which amount is not to bear any interest. We hereby agree that this sum shall stand forfeited in the event of your acceptance of our Tender and failure on our part to execute the Contract when called upon to do so within the stipulated time.
5. We understand that you are not bound to accept the lowest Tender or not bound to assign any reasons for rejecting our Tender.
6. We agree to keep our offer open for 365 (three hundred sixty fivedays) days from the date of opening of tender.

With thanks,
Yours faithfully,
Signature of Tenderer
(Authorized Signatory)

4. Terms & Conditions for finishing of 1. Proposed Addition over part Third, fourth and fifth floor of south and central wing of MGM hospital Building having height 3.6mt.

The civil and finishing work of job 1, as describe above includes civil and finishing work of all three floor with part footing foundation plinth beam ,tie beam , super stature and masonry work cooping plaster internal and external plaster construction of parapet wall copping beam, finishing of terrace with brick bed coba terrace structure and additionscaffolding required for construction of upper floor at all floor s and the MGM trust will not pay any extra amount separately against it.

3. The contractor have to arrange to consumable at his own cost such as nails and screws for shuttering and all type of cover block for RCC work of footing, column, beam and slab as specified in the drawing. If oil based putty is required to finish the MS plate shuttering joints, same is to be arrange and apply by the contractor, and the MGM Trust will not pay the extra amount separately against it.

3.3 Mode of measurement

Each item rate will be measured as per unit given in bill of quantity, on page no. ...

- 2 The cut out, open to sky or duct below 9.3 sq.m. i.e. 100 sq.ft. Shall not be deducted for area calculation. But area of 9.4 sq.m. Or above will be deducted from area calculation.
- 3 The work to be carried out on site is strictly in accordance to the drawing provided and as per instruction of Site Engineer.
- 4 All material required for execution of Civil and its finishing work i.e. steel, fe-500 steel binding wire 18 swg, cement 53grade of Birla ACC and Lafarge, **sand**, course sand for masonry work and fine Godavari for internal and external plaster, black trap aggregate, RMC suppler from branded cement company or having own mixing batch plants with minimum 350kg. Cement for RCC M25 per Cubic meter to be arrange by contractor at his own cost.

Water(treated water for construction and portable drinking water for labour) & electricity shall be provided by MGM Trust site office at one point, the further distribution of electricity and water distribution is to be carried out by contractor at his own cost. The MGM trust will provide meter to water supply and electricity supply and contractor have to pay its charges as per standard rate to MGM trust.

The contractor has to arrange to lift up the material at respective place at their own cost.

- 5 The contractor must provide and have all necessary equipments, such as mechanical mixture, lift / winch, pumps drill and mechanical / electrical cutter, centering, shuttering and scaffolding, etc. The contractor also has to provide finishing equipment such as brush, broom or sponge at his own cost. The contractor also has to provide all safety equipments including hamlet, belts, first aid at his own cost.
- 6 The labor camp/labor stay shall be permitted on site/ in the campus in specified area as directed by project engineer.
- 7 The contractor must provide skilled labor on site, so inferior work must be avoided.
- 8 **If contractor delays the project above 60 days of completion, a penalty of Rs. 1,00,000.00 per day shall be applicable to the contractor**
- 9 The contractor shall be responsible for quality of work as per specification and drawing. If any improper work notice on site, the same shall be removed at contractor`s cost and reconstruction of it shall be done by the contractor at his own cost and his material.
- 10 The wastage of material shall be controlled by contractor and it is the responsibility of the contractor.
- 11 The contractor is fully responsible for curing of the job at his own cost. The required man power, pipe and pump are to be provided by contractor at his own cost. If unsatisfactory curing of the job is found on site, then the site engineer shall get it done from other agency and double the cost of the curing shall be recovered from contractor.
- 12 The contractor should appoint a full time site engineer/ site supervisor. The contractor`s site supervisor must report daily to the MGM site in charge.
- 13 The contractor have to respect the MGM Site office and dental college authority daily work schedule in terms of noise disturbance due to equipments or issue of life safety of the occupant while demolition of work. So contractor must obey the MGM Site office authority and should obey the work schedule and must carry out the work without disturbance or he should work in lean period only.
- 14 **It is binding to the contractor, to comply with labor laws with respect to his employees, workers who are engaged for work and, the contractor must show labor records to MGM as and when demanded for the inspection.**
- 15 **The contractor is fully responsible for obtaining and maintaining the labor license. Their insurance and follow up to the other relevant rules shall be responsibility of the contractor.**
- 16 **The contractor is fully responsible for any eventuality, accident or injury, force majeure happens/occurs at site at his own cost and consequences.**
- 17 **The contractor is fully responsible for keeping and maintaining the PF account as per the rule & regulation is the sole responsibility of the contractor at his own cost.**

- 18 **The contractor must provide following documents to MGM Site office administrative office are Adhaar card / PAN card and GST no. and GST registration copy.**
- 19 The contractor will submit in writing work / time schedule to MGM site office and he must strictly follow it.
- 20 The quoted rates are applicable to all heights and all places. The quoted rates can be applicable to new work in the same campus or any maintenance work of the same building at different level; hence the above quoted rates are applicable and valid up to next 12 months.
- 21 **Time Schedule:** The finishing work of above mentioned project and its scope of work must be completed within 4 calendar months i.e. 120 calendar days including all holidays from the issue of the work order.
- 22 **Payment terms and conditions :**
- 21.1) The contractor shall be paid on account of work executed, under interim certificate issued by site engineer, once in month, against the running bill.
The contractor's bill should be supported by detail measurements and he should submit it to site office. The site office will check the measurements and make record of quantities within three working days. The site office will submit the checked bill to MGM Site office for payment. The period of honoring interim bill/invoice shall be seven working days, from the date of submission to site office.
- 21.2) **The final bill payment:** The final bill payment shall be prepared within one month of hand over respective area and cleaning of site. The final certificate shall be issued within thirty days and same shall be honored within 30 days. Before issue of final payment the contractor shall have to accept the quantities, rates and amounts of each running bill and final bill.
- 23 **Taxes:** The GST, -the GST shall be provided separately on bill payment as per time to time rules & regulation.
- 22.1) **The TDS :** The TDS to be deducted from each running bill as per time to time rules & regulation by the employer.
- 22.2) The other applicable Govt. taxes if any over labor contract shall have to be borne by the contractor at his own cost.
- 22.3) The Employer shall reserved right to deduct the payment of work, which is not up to the mark and which is not as per specification / drawing.
- 24 **Advance :** A lumpsum amount not exceeding 3% to 5% off project cost shall be release as mobilization advance against bank grantee at the time of issue of work order.

23.1 Recovery of advance shall be made by deducting from contractor`s running bill in suitable percentage as decided by project engineer.

25 Refund of security: 50% of security deposit shall be refundable to the contractor after finishing of all work and cleaning of site and while leaving site along with final bill. The remaining 50% shall be release after 365 days or one monsoon whichever is later of finalization of final bill. The 365 days shall be treated as defect liability period and any defect which shall occur in the period shall have to be rectified by the contractor at his own cost.

26 The work shall be subjected to inspection by Trustee of MGM, Directors and Authorized representatives of the employer, so at the time of their site visit, the site must be accessible to them. The site shall be always well clean and well maintain.

That the terms and conditions mention in the work order agreement are acceptable to the contractor and shall be abided and no deviation shall be allowed.

This Tender form, its negotiated rates, and its terms and conditions are from the part of the work order agreement and are binding on both.

5. SPECIFICATION

5.1.1 Excavation and earth work :

The excavation / earth work shall include cleaning the site before the excavation as well as after the excavation.

5.1.2 The excavation shall include shoring, timbering, strutting, etc. for protection of excavated sides, bailing out of surface water due to rains or sub soil water if encountered and dewatering by any pump wherever required until all work below water level is finished to the satisfaction of the Architect / Site In-charge.

5.1.3 Before starting excavation of filling work on site the required building level, plot level and load level should be taken by the contractor and he should get it confirmed from the Site Engineer / Architect. The actual ground level, road level and entire plot level shall be taken by the contractor and the same shall be jointly signed by the contractor and site in-charge / architect.

5.1.4 Filling in plinth with approved excavated soil and / or soil brought from outside shall be filled in 150 thk layer. Each layer should be rammed, watered and compacted with mechanical compactor to the satisfaction of the Site Engineer. Before the item of filling in with soil brought from the outside is operated the contractor shall take prior permission of the Architect and also arrange to take measurements of filled in soil in plinth with excavated stuff from the site, if any.

5.2. Masonry Work

The masonry work both in stone or brick item shall include all work like those in walls, jambs, pillars, mullions, steps, curves, corbels and brackets, etc. including placing of reinforcement at specified intervals.

5.2.1 The masonry work shall be related to building which the contractor is presumed to study. Nothing extra shall be paid on account of its shape, size, location or other difficult circumstances.

5.2.2 The masonry work shall also include for recesses cutouts, etc. in brick work for electrical work, if required.

5.2.3 ?The masonry work over upper typical floor shall be carried out from external site by providing suitable scaffolding, etc.

5.3 Finishing

5.3.1 Plaster herein specified shall apply to all internal and external surfaces where called for. Ceiling plaster shall be completed before commencement of wall plaster. Plastering shall start from top and worked down towards the floor to ensure even thickness and true surface. Plaster about 150 x 150 mm shall be first applied horizontally and vertically at not more than 2000 mm intervals over the entire surface to be plastered to save the gauges. The surface of these gauged areas shall be truly plain or finished plaster surface. The mortar shall be applied in a uniform surface & 1.5 mm more than the specified thickness and be brought to a true surface in line and plump. All corners arises angles and junctions shall be truly vertical or horizontal as the case may be and shall be carefully

- finished. Any plain concrete surface, which is to be plastered, shall be hacked or raked before such a plaster is done.
- 5.3.2 Grooves up to 10 to 12 mm x 8 to 10 mm in internal plaster and grooves upto 20 mm x 6 to 8 mm on external plaster at the junctions of brick work and RCC member / ceiling plaster will be provided for which nothing extra will be paid.
- 5.3.3 Rates quoted for plastering and finishing shall include for jambs, sills, drip mould bends, forming grooves, chamfers, covered angles arises, etc. and such other projections, which shall not be measured separately and paid for.
- 5.3.4 In suspending work at the end of day the plaster shall be left, cut clean to line both horizontally and vertically when recommencing the plastering the edge of the old work shall be scrapped, cleaned and wetted with cement slurry before plaster is applied to the adjacent areas, to enable the two to be properly joined together. Plastering work shall be closed at the end of the day on the body of the surface and not near than 150 mm to any corners or arises. It shall not be closed on the body of the features such as plaster bends and corners horizontal joints in plaster work shall not also occur on parapet top and copings as these invariably lead to leakages.
- 5.3.5 Any cracks which appear in the surface and all portions, which sound hollow when tapped or are round to be soft or otherwise defective shall be cut out in rectangular shape and redone as directed by the engineer in-charge.
- 5.3.6 Terrace finish: terrace herein specified shall be applied to all terrace floor which are exposed to direct sun and rain shall be finished with average 50 mm the PCC in 1:4:8 proportion where aggregate the surface must be well cleaned and watered and wherever found any hairline cracks should be finished with cement slurry, the cement in the PCC or as per manufacturer's specification. The approved manufacturers are M/s. Pidilite Industries for product "permo" by M/s. Snowcem or "Cico" by M/s. Structural Waterproofing Company. The concrete shall be laid as per slope directed towards the rain water pipe and it shall be neatly finished with trowels.
- 5.3.7 Expansion joint at every 1200 to 1500 mm on both directions shall be provided and filled with bitumen filler at the extra cost. The bitumen filler shall be prepared by mixing bitumen, cement and coarse sand 80:1:0.25 (80 kg hot bitumen which shall have melting point at 85° C, 1 kg cement, 0.25 cu.m. of coarse sand).
- 5.3.8 Gola ground corner at joints a chase of 25 mm wide x 75 mm deep shall cut in the parapet wall at the junction of parapet and PCC over slab it shall be filled with cement concrete 1:4:2 with slope 1:5 and exposed surface of the gola shall be plastered with C.M. 1:3.
- 5.3.9 Khurras
The khurras shall be constructed at the edge of rain water pipe before the brick masonry work in parapet walls is taken up it shall be 350 x 350 mm and be formed of PCC in 1:4:8. A PVC sheet 600 x 600 x 400 micron shall be laid under the concrete. The concrete shall have lower surface than the level of adjoining roof surface as approved.

5.4 Specification of Reinforced Cement Concrete Work

5.4.1) Water Cement Ratio

The water ratio shall be carefully controlled throughout the work. This calls for a regular check on the equipment used for measuring water. Only graduated liter can should be used for this purpose.

In case of ordinary cement concrete the maximum value of water cement ratio shall be 0.50 and in the case of controlled concrete the water cement ratio as determined by the mix design shall be strictly adhered to. Concrete shall be frequently tested by slump cone test. While determining the amount of mixing water, moisture contents of aggregates shall be taken into account. Any additional quantity of water, if used to improve the workability shall be accompanied by an equal quantity of cement without any extra cost. However, such additional use of water shall be subject to approval of the Architects.

The contractor shall provide the mixer operation, two standard measures one of 5 liter and the other of 1-liter capacity for measuring the water to be added to the mix.

5.4.2) Mixing

All concrete, whether plain or reinforced, ordinary or controlled, shall be mixed in a standard type concrete mixer, having a minimum drum speed of 60 peripheral meters per minute. Materials for concrete shall be deposited into the drum while it is in rotation. After all other ingredients are put in the drum, water shall be added in measured quantities and mixing continued for at least two minutes to result in a concrete of a uniform color and consistency. Mixing of cement concrete which has partially set shall never be allowed.

5.4.3) Transportation

Concrete shall be placed in its final position within 20 minutes of mixing. The contractor shall arrange his mixer position and adopt a method of transportation so as to ensure that this period is not exceeded under any circumstances. Transportation shall be smooth and free from jolting so that there is no segregation or loss from jolting so that there is no segregation or loss of any of the ingredients.

5.4.4) Preparation before concreting

The inside surface of the forms against which concrete is to be placed shall be clean and free from dried or hardened spattering or coatings of concrete. The forms shall be well wetted before placing concrete.

5.4.5) Placing

Such methods of conveying, handling and placing the concrete shall be employed that no mortar will be lost and that the concrete as placed is dense and uniform throughout, with no lack or excess of mortar at any place. Concrete should not be dropped from a height greater than 2 meters. A properly constructed chute shall be used in such cases where it is necessary to exceed this height. Depositing a large quantity of concrete at a

point and spreading it to a long distance manually or with vibrators will not be permitted.

Concrete shall be of such consistency that no appreciable amount of water is forced to the top by vibration. This generally requires that the upper concrete be of a drier mix than the main body of concrete. Honeycombing due to cement adhering to reinforcement, etc. shall be avoided by using extra rich mix for initial pour.

Concrete must be thoroughly worked into the forms so that they are entirely filled, reinforcing bars adequately the mass of concrete. Placing shall be carried out by hand prodding as well as vibrators in a manner directed by the Architects' Engineer. The full depth of any lift shall be placed in our pour. When casting beams or deeper sections, the Architects' Engineer shall not place concrete in layers unless permitted by the Architects.

5.4.6) Compaction and Consolidation

Each layer of concrete shall be compacted fully before the succeeding layer is placed and separate batches shall follow each other so closely that the succeeding layer shall be placed and fully compacted before the layer immediately below has taken its initial set.

Concrete shall be thoroughly consolidated, during and immediately after depositing by vibrating the concrete internally by means of mechanical vibration. Adequate number of power driven vibrators shall be used to ensure full compaction of concrete within 10 minutes of placing. The vibrators shall be of a type and make approved by the Architects' Engineer and shall be operated according to the manufacturer's instructions. If immersion vibrators are used, these shall be inserted at places not exceeding $\frac{1}{2}$ meter apart until it is immersed to the full depth of concrete. Wherever possible shutter vibrators shall be used and the contractor shall design his shuttering so that it can withstand such vibration.

Trained operators who shall carry out the given instructions regarding the method of using vibrators shall operate vibrators.

Vibration shall be commenced as soon as one batch of concrete has been placed and shall be carried out intermittently until the entire section being poured has been thoroughly vibrated. The vibrating element shall be inserted into the concrete at the point of deposit and in areas of freshly placed concrete. The time of vibration at one point shall be of sufficient duration to accomplish thorough consolidation, complete embedment of the reinforcement, the production of smooth surface free of honeycombing and air bubbles, and to work the concrete into all corners of the forms. However, care shall be taken to ensure that the concrete is not over vibrated so as to cause segregation. Vibration shall not continue to the extent that pools of grout are formed.

Points of vibration shall be spaced within the radius over which

the forms in order to effectively vibrate the surface of the concrete nearest to the face of the forms. The vibration shall not be dissipated to lateral motion, but shall be concentrated in vertically consolidating the concrete. The vibrating element shall be inserted in the concrete mass to sufficient depth and allowed to vibrate. It shall be withdrawn completely from the concrete before being inserted at another point.

Mechanical vibration shall be supplemented by ridding and working with hand tools to ensure full consolidation around the reinforcement and at all edges and corners.

A sufficient number of spare vibrators shall be kept readily accessible to the place of deposition of concrete to assure adequate vibration in case of breakdown of those in use.

Walking on concrete shall not be permitted for at least 24 hours after it has been placed in position, or for such additional length of time as the Architects' Engineer may direct.

5.4.7) Curing

Curing of concrete shall commence immediately after stripping of forms. All exposed concrete shall be covered with Hessian, sand or similar material, which shall be kept continuously, wet for a period of at least 15 days after casting. The top surface of slabs and other horizontal surfaces shall be cured by impounding water in cement mortar bunds. The ceilings of slab shall be frequently sprayed with water until the end of the period specified for curing. After removal of Hessian or sand etc. all concrete surfaces shall be kept wet by applying water at intervals for a further period as specified.

5.4.8) Construction Joints

Construction joints shall be made only where shown on the drawings or approved by the Architects' Engineer. All laitance shall be removed from the concrete before it is allowed to fully harden. Scrubbing the concrete surface with wire and bristle brushes and washing down to expose the aggregate clearly shall effect the removal. However, care shall be taken to avoid dislodgement of particles of aggregate.

If the concrete has been allowed to harden excessively, the surface shall be chipped over its whole surface to a depth of at least 10 mm and thereafter thoroughly washed. Before fresh concrete is added on the construction joints, the surface of the old concrete shall be thoroughly wetted and covered with a thin layer of cement mortar of equivalent mix. When a construction joint is formed provision shall be made for interlocking with the succeeding layer by the embedment of saturated wooden block or strips beveled on four sides to facilitate their removal. The wooden pieces shall be loosened and removed before the concrete has fully hardened in such a manner as to avoid injury to the concrete.

At the end of any day's work or run of concrete, the concrete shall be finished off against temporary shutter stop which shall be vertical

and securely fixed. This stop shall be removed as soon as the weather permits.

No separate payment shall be allowed to the contractor for forming construction joints as described above or chipping and cleaning them or covering with mortar prior to concreting.

5.4.9) Inserts

The contractor shall fix all necessary inserts such as steel plates, pipe sleeves, bolts, etc. and make provision of holes, pockets, dowels, etc. in the shuttering of concrete work to enable subsequent fixing of supports, brackets, ceilings, precast members, etc. as indicated in the drawings, called for in the documents or as required by the Architects' Engineer. Nothing extra over and above the provision as per the priced schedule of quantities shall be paid to the contractor on this account.

5.4.10) Cracks

If any cracks develop in the concrete construction, which in the opinion of the Architects' Engineer may be detrimental to the strength of the construction, the contractor at his own expense shall test the structural element in question. If under these tested loads the cracks shall develop further the contractor at his own expense shall dismantle the construction, cart away the debris, replace the construction and carry out all consequential work there to at no extra cost.

If the cracks are not detrimental to the stability of the construction in the opinion of the Architects' Engineer, the contractor at his own expense shall grout the concrete with pneumatically applied mortar and also at his own expense and risk shall make good all other building works such as plaster, molding, surface finish of floors, roofs, ceilings, etc. which in the opinion of the Architects' Engineer have such cracks. The repair work shall be carried out to the satisfaction of the Architects' Engineer. The decision of the Architects' Engineer as to the extent of the liability of the contractor in the above matter shall be final and binding on the contractor. Should any concrete be found honeycombed or in any way defective, such concrete shall, on the instructions of the Architects' Engineer, be cut out by the contractor and made good at his own expense.

5.4.11) Supervision

All concreting work shall be done under strict supervision of the qualified and experienced representatives of the contractor as well as those of the Architects Engineer.

The contractor's engineer and Supervisor who are in-charge of concrete work, whether plain or reinforced, shall be skilled in this class of work and shall superintend personally all the concreting work and pay special attention to the following: -

- (a) Proportioning, mixing and quality testing of the materials with particular control on the water cement ratio.
- (b) Laying of material in place and thorough compaction of the concrete to ensure solidity and freedom from voids and honeycombing.

concrete indicated in Architects' drawings. The shuttering plates used will be made of steel sheets strengthened at the edges and in middle to prevent sagging or any deflection when concrete is laid. These plates will be free from any deformity or dents and should fit with each other properly without any space or groove being left between adjacent plates to avoid any leakage of concrete slurry. If any concrete projects out between plates this will be neatly cut away.

The contractor shall be required to produce working drawings showing the general construction of formwork and panels with details such as nail positions and holes for supports that may be required. Nail heads shall be positioned as instructed by the Architects' Engineer. Grooves and chamfers shall be formed as shown on the drawings without any extra cost.

Any holes for the supports, which the contractor may need shall be approved by the Architects. All such holes shall be subsequently filled in carefully so as to match with the other surface. Walls, columns, etc. shall generally be cast to the full height in one operation and the formwork shall be put in accordingly. If permitted by the Engineer In charge, these may be completed in two or more heights when the form work shall be carefully and correctly raised for further height so as to ensure a neat joint without disturbing the pattern. The contractor at no extra cost also shall provide any groove desired by the Architects at the joint or on the soffit of the slab.

5.4.16) Coating for Shuttering

A mould release agent, which is non-staining and gives a high quality finish, shall be used. This may be Reebol made by Fosroc Chemical (India) Ltd. Bangalore, or Formal made by Qualcrete India Pvt. Ltd. Calcutta, or other type of chemicals applicable and specified.

5.4.17) Measurements and proportioning of

Concrete materials

This shall be as laid down generally for RCC work. In no case extra dust or sand or additional quantity of water shall be allowed with the intention of getting better finish, which shall only be obtained by erecting centering as specified above and proper vibrating of the mix after placing. In no case the slump limit specified for RCC work shall be exceeded.

5.4.18) Preparation for placing concrete

Special care is essential to see that all saw dust, chips, nails or any other foreign material is washed out or otherwise removed from the shuttering. In no case any nail, screws shall be allowed to be sticking out of the shuttering.

5.4.19) Mechanical Vibration

All concrete for exposed concrete work shall be vibrated, using needle vibrators 3/32 mm. Surface or through vibrators may be permitted to used for thin slabs. External vibrators for walls may be allowed but this shall be done carefully to safeguard and displacement of the shuttering. Vibrators shall only be operated by skilled labour. Over or under vibration shall not

be permitted. Any spillage or leakage, which is unavoidable and which flows down the exposed concrete surfaces shall be immediately washed away with clean water and grass brush before setting. All finishing to the top surface of exposed concrete members shall be finished to desired surface while concrete is still green.

5.4.20) Construction Joints

Break or construction joints shall not be allowed in exposed concrete work. In case such joints cannot be avoided these shall be left at places previously permitted by the Architects.

5.4.21) Curing and protection of concrete

Curing will be done with clean water so as not to disfigure the concrete. All exposed concrete work shall be properly protected by alkathene film, gunny bag, wooden boards, etc. so that surfaces or edges are not damaged, disfigured or discolored, till the entire construction is handed over, at no extra cost, and the contractor is deemed to have considered this in quoting his rates. All such damages shall be set right or replaced by the contractor at his own cost.

5.4.22) Removal of shuttering

Striking and removing of formwork for exposed concrete shall be done very carefully without damaging the surface or edges. All such damages shall be set right or replaced by the contractor at his own cost.

PART – B

(Page 23- 35)

DETAIL SUMMARY OF BOQ COST OF PROPOSED ADDITION OVER 3rd, 4th & 5th FLOOR OF MGM HOSPITAL BUILDING AT N - 6, CIDCO AURANGABAD FOR MAHATMA GANDHI MISSION TRUST (AS PER SOR 2020-2021)					
S. no	Description	UNIT	Area in Sq.mt	Rate Per Sq.m.	Amount
(A)	CIVIL WORK				
1	Estimated cost of civil work of 3rd floor : Including All RCC work, AACB masonry, internal, external cement plaster	Sq.mt.	929.00		
2	Estimated cost of civil work of 4th floor : Including cost of RCC work, AACB masonry, parapet wall, internal	Sq.mt.	1,515.50		
3	Estimated cost of civil work of 5th floor and terrace floor staircase tower and OH tank : Including cost of RCC work, AACB masonry, parapet wall, internal	Sq.mt.	1,576.00		
		<u>SUBTOTAL (A)</u>			

BOQ OF CIVIL WORK OF PROPOSED ADDITION OVER 3rd FLOOR OF MGM HOSPITAL BUILDING AT N - 6, CIDCO AURANGABAD FOR MAHATMA GANDHI MISSION TRUST					
3rd FLOOR					
S.N o.	ITEM DESCRIPTION	UNIT	RATE (Excluding GST)	QTY	AMOUNT
	(AS PER SOR 2020-2021)				
1	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.	Cubic meter		164.00	
2	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete.	Cubic meter		17.78	
3	Removing brick bat coba including stacking the spoils as directed with all leads, lifts etc, complete.	Cubic meter		227.25	
12	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		38.88	
13	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		78.39	

14	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		130.94	
15	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		3.16	
17	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 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 etc. complete. (Excluding reinforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		2.80	
18	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, 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	Metric Tone		30.50	

	required complete.				
19	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	Cubic metre		18.89	
20	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 placed at every third course, properly bent and bonded at ends scaffolding, raking out joints and watering etc. complete.	Sq. meter		589.75	
21	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Cubic metre		64.57	
22	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Sq. meter		125.94	
24	Providing water proofing plaster in WC and bath 20mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 kg per bag of cement of approved make and manufacturer and curring (and filling joints of nahani trap and any outlet by properly) etc . complete	Sq. meter		48.48	
25	Providing waterproofing in W.C. and bath including brick bat coba in all position including In Rs. providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortor 1:3 with waterproofing compound 1	Sq. meter		40.00	

	Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete				
26	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete	Sq. meter		1126.27	
27	Providing internal cement plaster 20mm thick in single coat in C:M 1:5 with out neeru finish to concrete, bricksurface in all position scaffolding curring etc all complete	Sq. meter		1591.50	
28	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15 mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete.	Sq. meter		722.48	
29	Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	Sq. meter		225	
				TOTAL	

BOQ OF CIVIL WORK OF PROPOSED ADDITION OVER 4th FLOOR OF MGM HOSPITAL BUILDING AT N - 6, CIDCO AURANGABAD FOR MAHATMA GANDHI MISSION TRUST					
4th FLOOR					
S. No.	ITEM DESCRIPTION	UNIT	RATE (Excluding GST)	QTY	AMOUNT
	(AS PER SOR 2020-2021)				
1	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		64.31	
2	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		112.44	
3	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/	Cubic metre		205.19	

	concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
4	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		6.17	
5	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		0.00	
6	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 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 etc. complete. (Excluding reinforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		2.80	

7	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, 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.	Metric Tone		47.00	
8	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	Cubic metre		23.49	
9	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 placed at every third course, properly bent and bonded at ends scaffolding, racking out joints and watering etc. complete.	square metre		769.58	
10	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Cubic metre		110.07	
11	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	square metre		277.07	
12	Providing water proofing plaster in WC and bath 20mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 kg per bag of cement of approved make and manufacturer and curring (and filling joints of nahani trap and any outlet by properly) etc . complete	Square metre		65.16	

13	Providing waterproofing in W.C. and bath including brick bat coba in all position including In Rs. providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete	Cu. metre		44.20	
14	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete	Square metre		1545.09	
15	Providing internal cement plaster 20mm thick in single coat in C:M 1:5 with out neeru finish to concrete, bricksurface in all position scaffolding curring etc all complete	Square metre		2790.01	
16	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15 mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete.	Square metre		997.38	
17	Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	Square metre		370	
		TOTAL			

6, CIDCO AURANGABAD FOR MAHATMA GANDHI MISSION TRUST					
5th FLOOR					
S.N o.	ITEM DESCRIPTION	UNIT	RATE (Excluding GST)	QTY	AMOUNT
	(AS PER SOR 2020-2021)				
12	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		78.20	
13	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		128.51	
14	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With	Cubic metre		222.25	

	fine aggregate (Crushed sand VSI Grade)				
15	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		6.17	
16	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		18.63	
17	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite /granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 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 etc. complete. (Excluding reinforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Cubic metre		5.53	
18	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars,	Metric Tone		51.40	

	binding with wires or tack welding and supporting as required complete.				
19	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	Cubic metre		23.49	
20	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 placed at every third course, properly bent and bonded at ends scaffolding, raking out joints and watering etc. complete.	Sq. meter		776.41	
21	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Cubic metre		190.36	
22	Providing Autoclaved Aerated Concrete Block masonry of Ecolite or equivalent make conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	Sq. meter		277.07	
24	Providing water proofing plaster in WC and bath 20mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 kg per bag of cement of approved make and manufacturer and curring (and filling joints of nahani trap and any outlet by properly) etc . complete	Sq. meter		65.16	
25	Providing waterproofing in W.C. and bath including brick bat coba in all position including In Rs. providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1	Cu. metre		44.20	

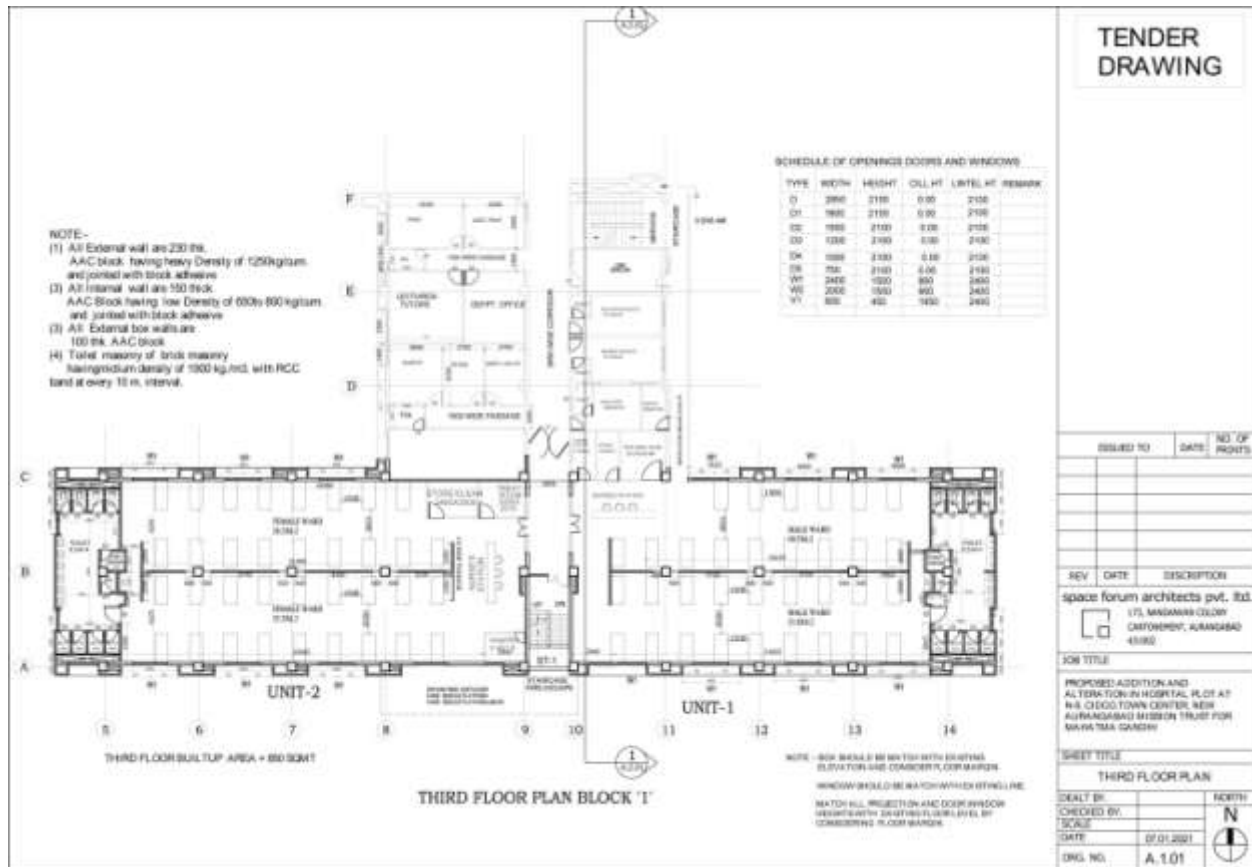
	Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete				
26	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete	Sq. meter		1573.28	
27	Providing internal cement plaster 20mm thick in single coat in C:M 1:5 without neeru finish to concrete, bricksurface in all position scaffolding curring etc all complete	Sq. meter		2891.66	
28	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15 mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete.	Sq. meter		1960.64	
29	Providing and fixing chicken mesh of 22 gauges, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	Sq. meter		370	
			TOTAL		

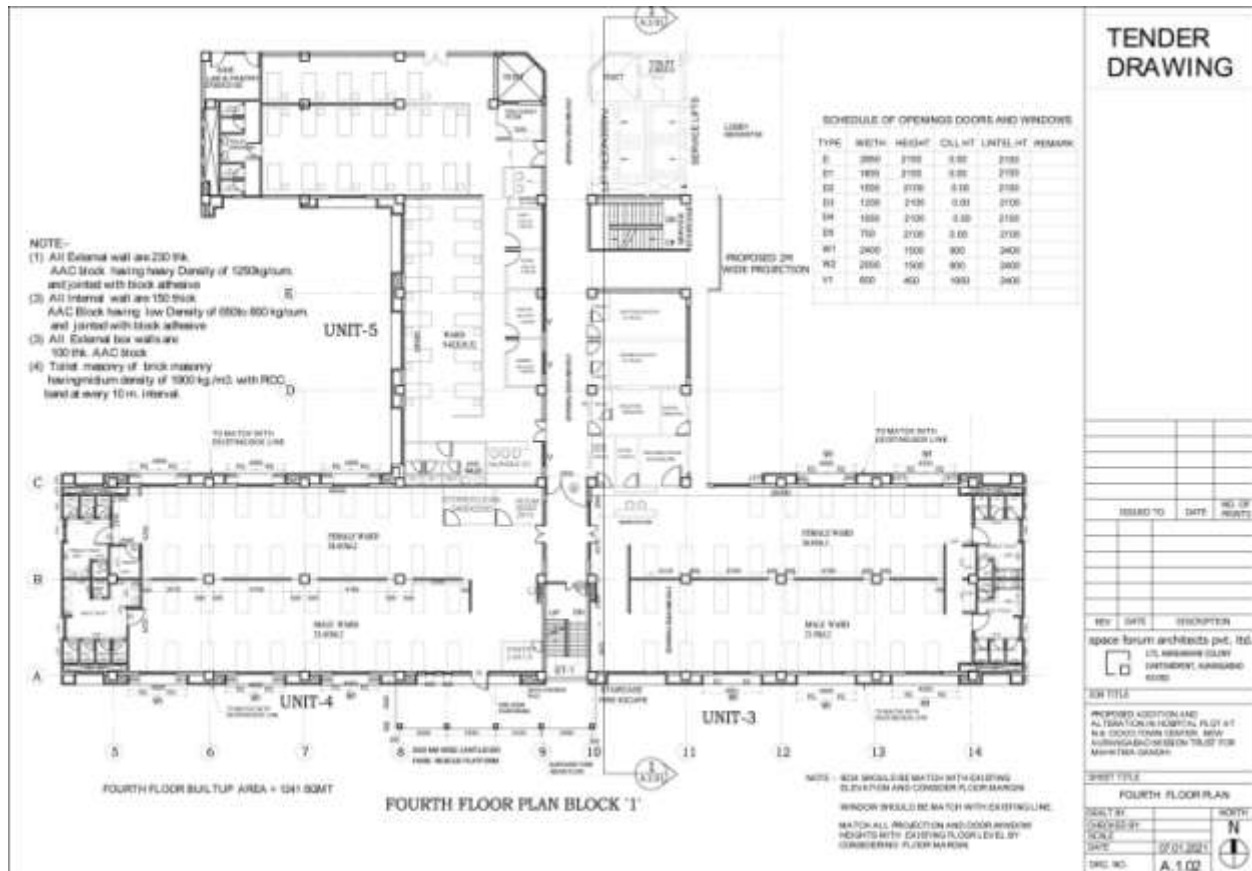
Tender form filled with reasonable rates and uploaded.
For Mahatma Gandhi Mission trust

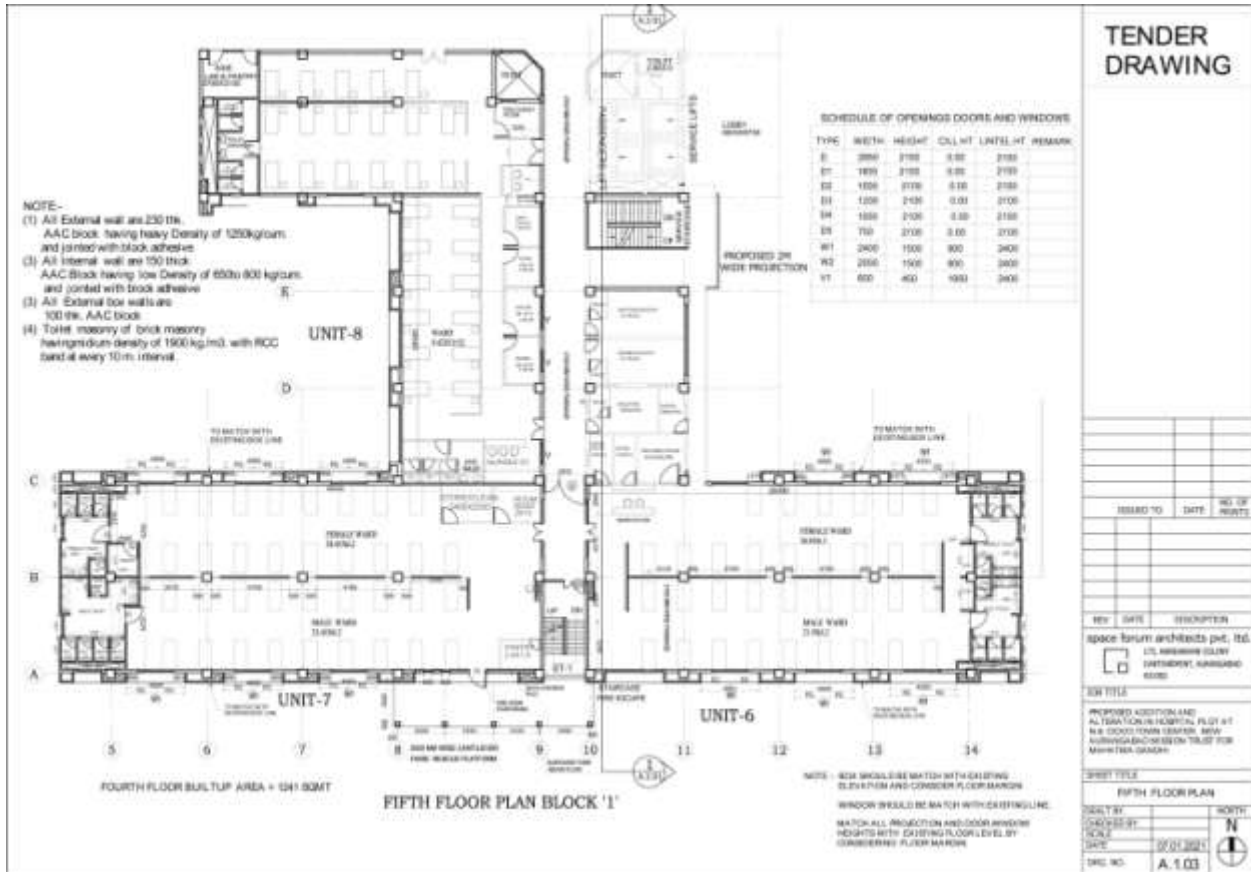
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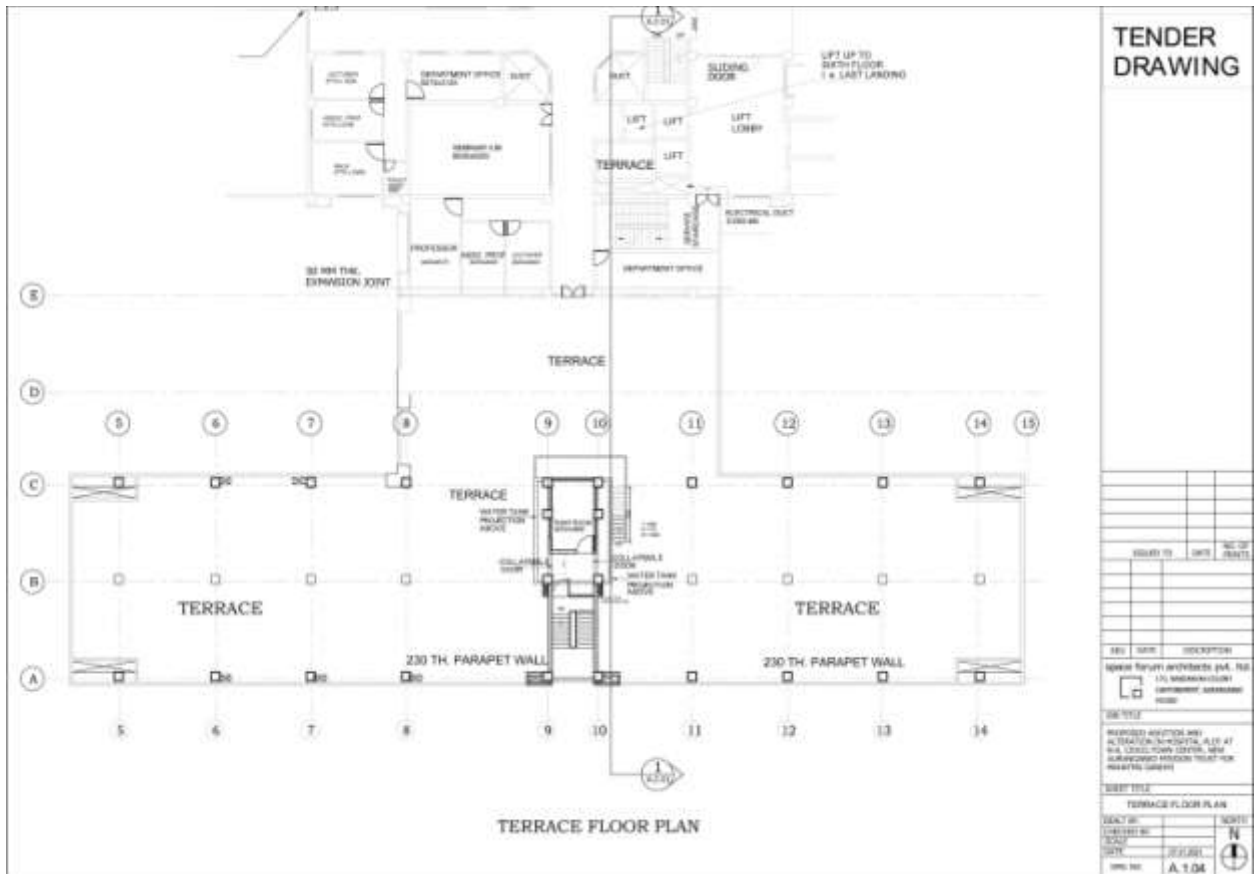
Witness -I

Witness -II









TENDER DRAWING

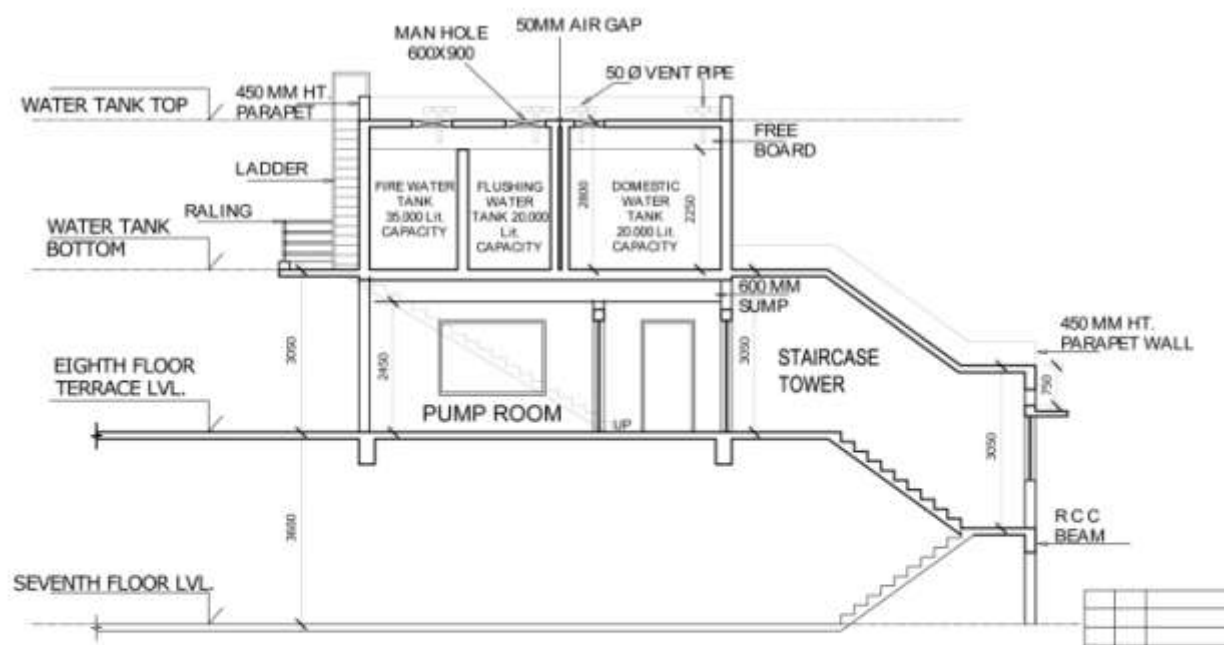
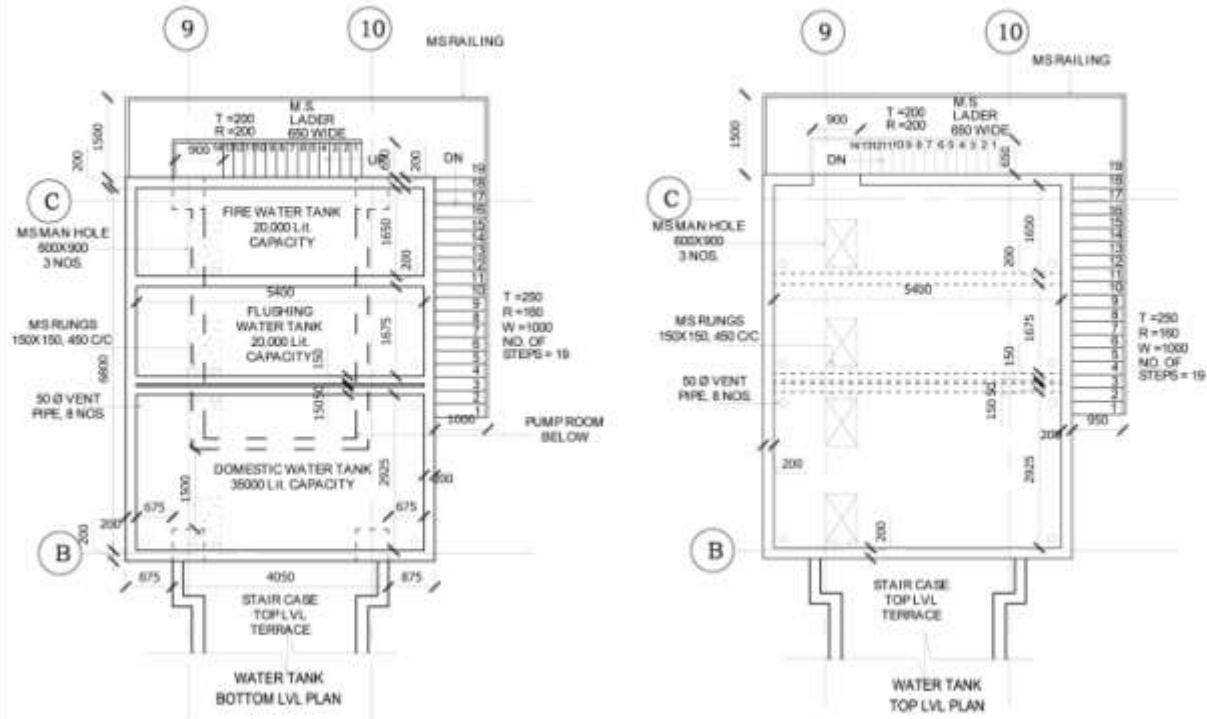
NO.	DATE	DESCRIPTION

DESIGNED BY: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

PROJECT: [Project Name]
 LOCATION: [Location]
 DATE: [Date]

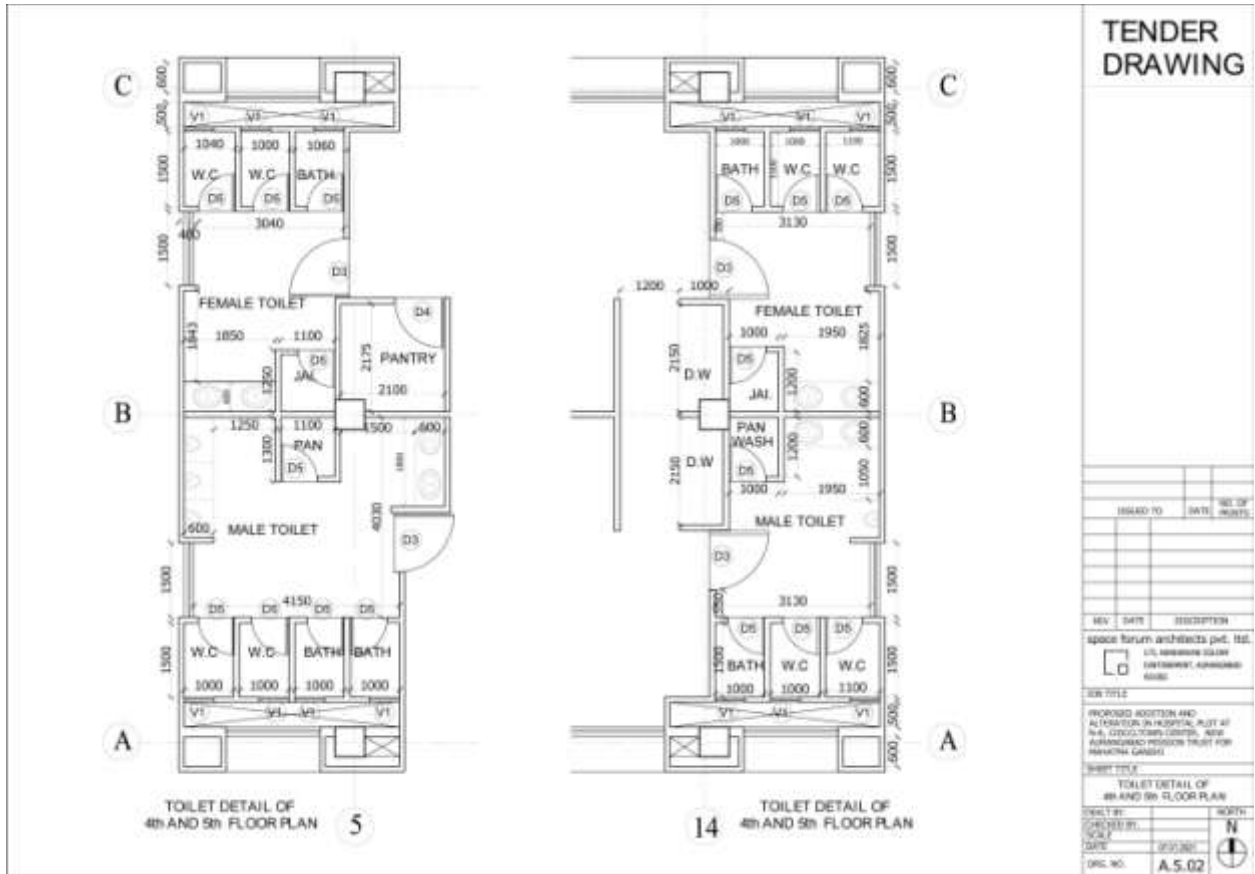
SHEET TITLE		NORTH
TERRACE FLOOR PLAN		
SCALE:		
DATE:		
CITY:		
NO.:	A.1.04	

TENDER DRAWING



SECTION THROUGH WATER TANK

REV.	DATE	DESCRIPTION
PREPARED BY: ARCHITECT/ENGINEER CHECKED BY: ARCHITECT/ENGINEER DATE: 20/11/2023 DRAWING NO: A-401		



TENDER DRAWING

REV.	DATE	DESCRIPTION

space forum architects pvt. ltd.
 U-4, SECTOR-29, GATEWAY, ANANDAPURAM
 CHENNAI - 600088

SHEET TITLE
 TOILET DETAIL OF 4th AND 5th FLOOR PLAN

SCALE
 1:50

DATE
 05/02/2011

DRG. NO.
 A.5.02

ORTH
 N

