

TENDER DOCUMENTS
FOR

CONSTRUCTION OF WASHROOM AT J- BLOCK

JAMIA HAMDARD
HAMDARD NAGAR, NEW DELHI-62

JAMIA HAMDARD
(DEEMED TO BE UNIVERSITY)
HAMDARD NAGAR, NEW DELHI-110062

TENDER NOTICE

Ref. No.JH/Maint. Civil/12/18

Date: 20-10-2018

Jamia Hamdard, New Delhi invites sealed items rate Tenders from reputed contractors registered with Govt. Department such as CPWD, DDA or other Govt. organizations or Jamia Hamdard listed as appropriate class of contractors for the below work. The tender documents and other details are available on the **website: www.jamiahamdard.edu**. Last date of submission of the Tender is 05-11-2018 **up to 3.00 PM**. The Parties/agencies may submit the tender after satisfying themselves eligible for the work as per Terms & Conditions of tender.

Name of work : Construction of washroom at J- Block Jamia Hamdard Campus
Estimated Cost: Rs. 7,01,613.00

Earnest Money: Rs.14,000.00

Tender cost : Rs. 1000.00 only (Non Refundable)

Time Period: 60 days

The Tender dully filled should be dropped in the Tender Box kept in purchase section on or before 05-11-2018 **upto 3.00 PM** along with demand draft of earnest money & Tender fee in sealed envelope clearly specifying the name of work. The D.Ds shall be in favor of Jamia Hamdard payable New Delhi. The tender shall be opened on 05-11-2018 **at 3.30 PM** in presence of available interested parties. Jamia Hamdard reserves the right to reject any or all tenders or split the tenders without assigning any reason.

Registrar

ELIGIBILITY CRITERIA

1. Bidders must be registered/ empanelled with Jamia Hamdard, CPWD, DDA or other Govt. organizations as appropriate class of contractors. Bidders have to submit the up-to date certified copy of the Registration Certificate along with his Tender. The original will have to be produced when demanded for verification.
2. Copies of work orders for similar nature of work of at least one contract of value Rs. 5.61 lakh, or two contracts of similar nature of work of Rs. 4.20 lakh or three contracts of similar natures of works of Rs. 2.80 lakh in last 3 years. Contractors should have executed similar nature of work in prestigious institutional buildings, Universities, hospitals. and produce credentials in support thereof, Certificates of satisfactory completion of works must also be provided.
3. Experience of having successfully completed similar works during last 03 financial years.
4. Average annual financial turn over on said work should be 3.50 lakhs during the immediate last 3 consecutive financial year.
5. The contractor should have IT & excise return acknowledgement for last three years.
6. Complete list of machinery and equipments and details of Technical Manpower along with supporting staff and in house Design capability duly signed and sealed on company's letter head.
7. Copies of completion and Performance Certificates (duly attested) for similar scope of works issued by the officer of the client/Deptt of the rank of Executive Engineer/ equivalent or the Head of the Institution will have to be furnished along with the application. The completion certificate must clearly indicate the following.
 - The date of completion of work with cost of completed work with letters of successful completion. Nature and scope of work, Time period of completion (attache client's list).
 - Similar work means Construction of washroom at J- Block Jamia Hamdard Campus
 - The firms are advised to enclose attested copies of all relevant documents along with valid PAN, GSTN Company turn over, ISO etc. registration and other related documents along with the tender.
 - The firm should have valid PF, ESI, GSTN, WCT if applicable, and Registration in Delhi at the time of prequalification.

Jamia Hamdard reserves the rights to increase or decrease the quantum of work during the execution of work and to accept/reject full/part proposals without assigning any reason thereof.

GENERAL TERMS AND CONDITIONS

Name of Work: - Construction of washroom at J- block Jamia Hamdard Campus

1. The work shall be carried out following standard and accepted norms of civil engineering practice.
2. The CPWD General Terms and conditions and CPWD specifications with latest amendments & CPWD Manual provisions shall be applicable in execution of the project and shall form part of the contract.
3. The EMD shall be only in the form of Demand Draft drawn in favor of Jamia Hamdard, payable at New Delhi, failing which the Tender will summarily be rejected.
4. The rates shall be inclusive of all duties and cartage etc. No escalation of taxes shall be payable by the Jamia Hamdard during the contract period. GST will be considered as per Govt. norms if applicable.
5. Duly sealed tenders shall be dropped in the tender box placed at the Purchase section.
6. The conditional bids shall not be considered under any circumstances and rejected without any notice or assigning any reasons therefore.
7. All bids once submitted shall be the property of Jamia Hamdard, and bidders will lay no claim whatsoever on the same.
8. Sr. Consultant Jamia Hamdard, reserves the right to reject any or all the tenders in full or in part without assigning any reasons whatsoever, and the decision of the Sr. Consultant in this regard will be binding on all the bidders. Tenderers not complying with any of the provisions stated in this tender document are liable to be rejected.
9. No T & P shall be supplied by the Jamia Hamdard.
10. Income tax shall be deducted from the contractor bill as per Govt. of India rules.
11. Jamia Hamdard welfare fund charges are livable @0.25% of the amount of bill claimed.
12. (i) Security shall be deducted @ 5 % of value of work done and total amount of security shall be released after expiry of the defect liability period of SIX MONTH effective from date of completion.
13. Earnest money deposited by the successful tender shall be converted in to security deposit & is adjustable against the actual amount to be deducted under clause 12 above.
14. The time allowed for completion of work shall be **(60 days)** which shall be reckoned from 02 (Two) day from the date of letter of intent.
15. Time allowed for the work shall be strictly followed otherwise the contractor shall be liable to pay compensation at the rate of **1.0%** of the tendered value of the work per week of delay on the part of the contractor. The decision of Engineer-in-charge about the delay shall be final and binding. However, for any reason beyond the control of the contractor

the extension of time shall be granted upon application submitted by the contractor. No claim for any compensation during the extended period shall be entertained and the Sr. Consultant Jamia Hamdard decision in this regard shall be final.

16. No escalation in any form either of material or labour shall be payable by the University. The bidder shall also absorb any statutory escalation/increase of wages /material cost if any, anticipated during the contract tenure, including extended tenure.
17. All material brought at site shall be as per contract specification & schedule of quantities and shall be got entered in the site book and approved by Engineer-In-charge before being used.
18. Mandatory tests have to be carried out as asked for by the Sr. Consultant/Engineer-In-Charge. Nothing extra shall be paid for such purpose.
19. In case the successful bidder resiles from the offer within one month of the work order, the Security deposit will be forfeited. Similarly if successful bidder fails to commence the work after issue of award letter, the amount of earnest money will also be forfeited.
20. Any violation of instruction/agreement or suppression of facts will attract cancellation of contract without any reference or any notice period and in such case the amount of the contractor security deposit will be forfeited.
21. If agency at any time makes default during currency of work or does not execute any part of the work with due diligence or Commits default in complying with any of the terms and conditions of the contract and does not initiate any remedy for it or takes effective steps for its remedy or Fails to complete the work(s) or items of work within date of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in their behalf by the Engineer-in-Charge. The Engineer- in-Charge without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to the Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.
22. Sr. Consultant, Jamia Hamdard reserves the right to terminate the contract without any reference or any notice period on account of poor workmanship, non-compliance of set norms/specifications for the works, delay in progress of work, violation of any contract provisions by the contractor, failure to start the work at Jamia Hamdard, within 10 days from date of issue of Work order. In such cases the contractor is liable to pay Liquidated Damages @ 5% of tendered value besides security deposit.
23. Decision of Sr. Consultant Jamia Hamdard in regard to interpretation of the terms and conditions and the Agreement shall be final and binding on the Contractor.
24. The Contractor shall be solely responsible for any accident/medical/health related liability/compensation for the personnel deployed by it at Jamia Hamdard . The Jamia Hamdard shall have no liability in this regard.

25. The personnel provided by the Contractor will not claim to become the employees of Jamia Hamdard and there will be no Employee and Employer relationship between the personnel engaged by the Agency and Jamia Hamdard.
26. No tent or hut shall be allowed to be put up for workers to stay within the campus. The contractor is deemed to have inspected the site and thoroughly acquainted himself with the site conditions, availability of storage space for materials etc.
27. The Contractor should take extra precaution to ensure that there is absolutely no damage to the surrounding structure/existing system etc. If any damage made by agency, it will be got repaired/replaced/rectified by the agency itself at no extra cost.
28. The Contractor should make special note of the fact that the Renovation/remodeling/repair works are to be carried out in the existing functional building and the agency will adopt necessary barricading / covering of the area under execution with no / least disturbance to adjoining / surrounding areas of the building under use for teaching / research, etc. The Contractor shall depute their own security staff for watch and ward of their materials supplied/ installed at site till the final handing over of the complete work and temporary lockable shed/Almirah etc. shall be arranged by contractor at his own risk and cost. No accommodation/ staff/ lockable space will be provided by Jamia Hamdard under any circumstances.
29. It may here be noted, that the entire staff and labour of the Contractor will follow all the security instructions issued by Jamia Hamdard from time to time and these instructions may include the provisions to make suitable barricades or temporary wall fence to ensure that the labour confines itself to the area of the work only. Serious action will be taken in case any of the contractor's workmen are found to be tampering with the Laboratory equipment and property of the University. Suitable damages will be recovered from the contractor's bills if anyone is found to do so. All decisions of the Engineer-in Charge in respect of the same will be final and binding on the contractor.
30. On completion of all work, Contractor shall remove all surplus materials & leave the site in a broom clean condition, failing which the same shall be done at Agency's risk & cost.
31. The Contractor shall ensure compliance of all statutory laws & bye laws of the central govt./state govt./Municipal authorities related to the employment of their staff and all obligations under Minimum Wage Act, Workman Compensation Act, Provident Fund & Miscellaneous Provision Act, Bonus Act & Contract Labour Act 1970 etc. Jamia Hamdard will not be responsible for such purposes in anyway.
32. Any claim, dispute or difference arising out of or in connection with this agreement and which cannot be settled by mutual consultations, shall be referred to sole Arbitration to be appointed by the Vice Chancellor Jamia Hamdard. The award of the Arbitrator shall be final and binding between the parties as per the Arbitrary Act. The Arbitrator proceeding shall be governed by the Arbitration and Conciliation Act and shall be conducted in Delhi.
33. Shop Drawing:- (i) The shop drawing for all works as required by Engineer-in-charge shall be submitted in quadruplicate at no extra cost by the contractor and in the manner so required by them. The contractor shall proceed with the works only after approval by the Engineer-in-charge. Such drawings shall be coordinated with all disciplines of work

GENERAL CONDITIONS FOR SUBMISSION OF TENDER

1.0 Submission of Tender:

Tenders should be submitted in sealed envelopes. The tender duly filled in sealed condition should be hand delivered in the tender box kept in the Purchase section, Jamia Hamdard. It should not be handed over to any employee of the Jamia Hamdard. No tender shall be accepted later than the time schedule specified. Tender once submitted will remain with the Jamia Hamdard and will not be returned to the bidder.

2 Validity of Tender:

Tender shall be valid for our acceptance without any change in rates and NIT conditions for a period of 30 days from the date of opening of Technical Bid.

Declaration by the Tender

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

SIGNATURE OF TENDERER WITH SEAL DATE:

SPECIAL CONDITIONS OF CONTRACT

1. OWNER :

The name and address of the Owner / Engineer-in-Charge responsible for the preparation of the Contract documents are as follows:-

OWNER:JAMIA HAMDARD , NEW DELHI

2. SITE

2.1 Construction of washroom at J-block Jamia Hamdard Campus.

2.2 CONTRACTOR TO SATISFY HIMSELF ABOUT SITE CONDITIONS

Before tendering, the Contractor shall visit and examine the site and satisfy himself as to the site conditions the correct dimensions of the work and facilities for obtaining the special articles called for in the contract documents and shall obtain generally his own information on all matters affecting the continuation and progress of the works. No extra charge made in consequence of any misunderstanding or incorrect information on any of these points or on the grounds of insufficient description will be allowed.

2.3 POSSESSION

The Contractor shall there upon commence the works and regularly and diligently proceed with the same and complete the same in stages on or before the contract date for completion.

SCOPE OF WORK

3.1 SCOPE

The general character and the scope of work is illustrated and defined by the Schedule of Quantities and Specifications herewith attached.

3.2 EXTENT

The Contractor shall carry out and complete the said work in every respect in accordance with the contract, and with the directions of and to the satisfaction of the _____ Engineer-in-charge and Sr. Consultant , JAMIA HAMDARD .

4.0 CONTRACT DRAWINGS

Drawings forming part of the contract are listed under. Other drawings and details issued and shop drawings approved during the currency of the contract shall also form part of the contract. The Contractor shall keep at least one copy each of drawings, conditions of contract, specifications, instructions and schedule of quantities at the site of works available for reference by any authorized representative Sr. Consultant, **JAMIA HAMDARD /ARCHITECTS**, at all times during the progress of the works.

5.0 TYPE OF CONTRACT

The Contract shall be an item rate contract. The Contractor shall be paid at the contract rates, for the actual quantity of work carried out by him in accordance with the Contract documents as measured.

5.1 SCHEDULE OF QUANTITIES

The quantities given in the Schedule of Quantities are provisional and are meant to indicate the intent of the work and provide a uniform basis for tendering. The Contractor shall be paid for the actual quantity of work executed by him in accordance with Contract Documents at the contract rates.

6.0 WATER AND ELECTRICITY FOR CONSTRUCTION

Water for use at site of work shall be arranged by the contractor. The contractor shall make his own arrangement for any temporary service piping taps as required for his use on the works and shall remove the same on completion. Electricity required for the job shall be made available and shall be charged the contractor may arrange for the same at their own cost. However, necessary piping, valve, wiring, cabling, lamps, switches & sockets, main switches, halogen/tube light fitting and tapping from existing line/connection including labour have to be arranged by the contractor at their own risk & cost.

7.0 PAYMENT OF CONTRACTORS BILL

Subject to the provisions of terms and conditions of the contract, Sr. Consultant, **JAMIA HAMDARD** , shall affect Contract payments against RA Bills shall be released to the contractor as below:

RA Bills: 75% of the recommended payments duly certified by the Engineer-in-Charge within fifteen (15) working days of the submission of the bill and balance within one month of submission of the bills.

Final Bill: Within one (1) months of submission of the Bill with the final completion Certificate and as per the terms and conditions of the Contract.

Note: All Bills are required to be supported by Detailed Measurement Sheet and Analysis of Rates for Extra Items and its approval along with the Bill. The Bills shall be submitted in specified format which should indicate quantities executed in all RA Bills and cumulative Quantities besides current bill quantities along with tendered quantity/unit/rates.

8.0 SCHEDULE OF RATES TO BE INCLUSIVE

Schedule of Rates shall be deemed to include and cover all costs, taxes, octroi, expenses and liabilities of every description and all risks of every kind (FOR Site) to be taken in executing, completing and handing over the work to the Owner by the contractor. The contractor shall be deemed to have known the nature, scope, magnitude and the extent of the works and materials required, through the contract documents may not fully and precisely furnish them. He shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such item of work and materials as may be reasonable and necessary to complete the works. The opinion of the Architects as to the items of work which are necessary and reasonable for completion of work shall be final and binding on the contractor, although the same may not be shown on or described specifically in contract documents.

9.0 Generality of this present provision shall not be deemed to cut down or limited in any way because in certain cases it may and in other cases it may not be expressly stated that the Contractor shall do or perform a work or supply articles or perform services at his own cost or without additional payment or without extra charges or words to the same effect or that it may be stated or not stated that the same are included in and covered by the Schedule of Rates.

10.0 SCHEDULE OF RATE TO COVER CONSTRUCTIONAL PLANT, MATERIALS, LABOUR, ETC.

Without in any way limiting the provisions of the preceding sub-clause the schedule of Rates shall be deemed to include and cover the cost of all constructional plant, temporary works (except as provided for herein specifically) pumps, materials, labour, insurance, fuel, stores and appliances to be supplied by the contractor and all other matters in connection with each item in every respect maintained and as shown or described in the contract documents or as may be ordered in writing during the continuance of the contract.

11.0 SCHEDULE OF RATES TO COVER ROYALTIES, RENTS, PROVIDEND FUND, AND CLAIMS

The Schedule of Rates shall be deemed to include and cover the cost of all royalties and fees for all articles, processes, protected by letters, patent or otherwise incorporated in or used in connection with the works, also all royalties, rents and other payments in connection with obtaining materials of whatsoever kind for the works and shall include an indemnity to Sr. CONSULTANT , JAMIA HAMDARD which the contractor hereby give against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation or the use on the works of any such articles, processes or materials. Octroi or other Municipal or local Board charge, if levied on materials, equipment or machineries to be brought to site and removed from site for use on work or after completion of the work, shall be borne by the contractor. The contractor should be registered for Provident Fund and would be required to make the deductions on the salaries paid to the workers and deposit the same to the concerned department.

12.0 SCHEDULE OF RATES TO COVER TAXES AND DUTIES

No exemption or reduction of customs duties, excise duties sales tax, VAT or any part duties, transport carriages, stamp duties or Central or State Government or other body including one company or dues, taxes or charges (from or of anybody including the company), whatsoever will be granted or obtained all of which expenses shall be deemed to be included in and cover by the Schedule of rates. The contractor shall also obtain and pay for all permits, or other privileges necessary to complete work. In case where SR. CONSULTANT, JAMIA HAMDARD, wishes to avail Tax/Duty exemptions as applicable to the contractors shall comply with the instructions from SR. CONSULTANT, JAMIA HAMDARD.

13.0 SCHEDULE OF RATES TO COVER RISKS OF DELAY

The schedule or Rates shall be deemed to include and cover the risk of all possibilities of delay and interference with the contractor's conduct of the works which occur from any cause including orders of SR. CONSULTANT , JAMIA HAMDARD, in the exercise of his powers and on account of extension of time granted due to various reasons and for all other possible or probable causes of delay.

14.0 SCHEDULE OF RATES CANNOT BE ALTERED

For work under unit rate basis, no alteration will be allowed in the schedule of rates by reason of works or any part of them being modified, altered, extended, diminished or omitted. The schedule of rates are fully inclusive rates which have been fixed by the Contractor and agreed to by SR. CONSULTANT , JAMIAHAMDARD and cannot be altered.

1 Ordinary Portiant Cement	L&T ,Ultra Tech,ACC, or other brads approved by the Architect
2 Steel Reinforcement Bars	TISCO,SAIL RINL,Rathi udyog Ltd.
3 Structural Steel Sections	TISCO, SAIL RINL, Supreme...
4 Stone Aggregate (Blue/Black)	Sohna, Pali or other Approved
5 Water proof Shuttering	Century, Green, Duro/Haryana Plywood
6 Paints/O.B.D	ICI, Asian, Berger, Nerolac
7 Water proof Paint	Apex(Asian),Super Snowcem (kellick Nixon),
8 White Cement	Birla,JK Cement
9 Waterproofing	Structural Water proofing Co,Dr.Fixit,Overseas Water Proofing
10 Silicon Sealants	Dow Corning/GE
11 Glass and mirror	Saint Gobain/Guardian/Asahi
12 The Adhesives	Weber, Lafarge, Keisel, Balendura
13 Expansion joint covers	CS,Inpro
14 Glass	Saint Gobain, Guardian, Glaverbel,
15.Vitrified tiles	Kajaria double charged
16. Armstrong ceiling	Armstrong
17. Other material of work which are not enlisted	As per approval of Engineer In-charge of work

Bill of Quantities
For

Construction of washroom at J-block Jamia Hamdard Cmapus

Schedule of Quantities:

S.No.	Description of work	Qty	Unit	Rate	Amount
1.	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead up to 50 m and lift up to 1.5 m, as directed by Engineer-in-charge. All kinds of soil	9.75	Cum		
2	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil, Pipes, cables etc, not exceeding 80 mm dia. All kinds of soil, Pipes, cables etc, not exceeding 80 mm dia.	40.00	Mtr		
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	8.00	Cum		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
a	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	1.00	Cum		
b	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	1.00	Cum		
5	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including	17.00	Sqm		

	necessary excavation, levelling & dressing & finishing the top smooth.				
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	24.00	Cum		
7	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)	32.00	Sqm		
8	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	14.00	Sqm		
9	Providing and fixing aluminium sliding door bolts, ISI marked anodized (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. comp. 300x16 mm	7.00	Each		
10	Providing and fixing aluminium tower bolts, ISI marked, anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or	7.00	Each		

	shade, with necessary screws etc. complete : 250x10 mm				
11	Providing and fixing aluminium handles, ISI marked, anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	14.00	Each		
12	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1100.00	Kg		
13	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	250.00	Kg		
14	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix: 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	21.00	Sqm		
15	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	135.00	Sqm		
16	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey	21.00	Sqm		

	cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.				
17	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat: With common burnt clay F.P.S.(non modular) brick tile of class designation 10	28.00	Sqm		
18	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design In 75x75 mm deep chase:	30.00	Mtr		
19	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement: 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2.00	Each		
20	Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden karries or R.C.C. battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete : Red sand stone slab , 40 to 50 mm thick	30.00	Sqm		
21	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	85.00	Mtr		
22	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382,	40.00	Each		

	leaving 10 mm gap for thermal expansion. Single tee without door 110x110x110 mm				
23	Bend 87.5°, 110 mm bend	20.00	Each		
24	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified. 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified	53.00	Sqm		
25	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)	30.00	Sqm		
26	15 mm cement plaster on the rough side of single or half brick wall of mix 1:6 (1 cement: 6 fine sand)	75.00	Sqm		
27	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	21.00	Sqm		
28	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	10.00	Cum		
29	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china	4.00	Each		

	Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests				
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
a	15 mm nominal outer dia Pipes	30.00	Mtr		
b	20 mm nominal outer dia Pipes	35.00	Mtr		
31	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore	1.00	Each		
32	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank	2000.00	Ltr.		
33	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long, weighing not less than 88	8.00	Each		
34	Providing and fixing PTMT stop cock of approved quality and colour. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms	4.00	Each		
35	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	4.00	Each		
36	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	4.00	Each		
38	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved	4.00	Each		

	quality and colour. 15 mm nominal bore with 30cm length				
39	Cutting holes up to 30x30 cm in walls including making good the same: With common burnt clay F.P.S. (non modular) bricks	4.00	Each		
40	Providing & fixing PVC pipe on wall face unplasticised - PVC moulded fittings/accessories for unplasticised rigid PVC rain water pipe conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leveling 10 mm gap for termal expansion. 100 mm diameter	40.00	Mtr		
41	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : 100 mm diameter S.W. pipe	40.00	Mtr.		
42	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	1.00	Each		
43	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	6.00	Each		
44	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than	18.01	Sqm		

	10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured.				
44	Applying a priming coat with ready mixed water based interior primer of approved brand (Asian paints ,ICI Dulux ,Nerolac & Berger)make including necessary tools & paints and scaffolding /jhoola up to all hights	29.75	Sqm		
45	Filling putty making surface using ready made powder base putty of approved brand Birla putty. JK wall putty or as approved by the engineer in charge etc. complete on walls surface interior including sand papering after filling the putty making the surface smooth for applying the finishing painting coat including necessary centering & shuttering and scaffolding lup to all heights complete	120.75	Sqm		
46	Distempering with oil bound washable distemper (acrylic) of approved make and brand (Asian Paints, ICI Dulx, Nerolac & Berger) to give an even shade such as blue green buff and all other required shades including using of color stainer of approved brand for making of required shades with brushes etc, completes				
a	Old work (two or more coats)	0.00	Sqm		
b	New work (three or more coats)	29.75	Sqm		
47	Finishing walls with premium Acralic smooth exterior paint with silicone additives like Apex weather shield etc .of approved brand and manufacturer (Asian paints ,ICI Dulex & Berger paints)of required shades .				
a	New work (three or moor coats) over and including base coat of water based exterior primer of same brand applied of same brand applied including necessary tools & plans and Scaffolding /Jhoola up to all hight.	91.00	Sqm		

48	Painting with synthetic enamel paint of approved brand and make (Asian paint, ICI Dulux ,Nerolac & Berger paint)to give an even shade such as blue green buff and all other requirement shades including using of colors stainer of approved brand for making of require shades with brushes etc complete including necessary cent ring and shuttering and scaffolding up to all hight.				
a	Old work(two or mre coats)	0.00	Sqm		
b	New work (three or more coats)	30.00	Sqm		
	Total amount				

Total amount in words:-

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