

**ICAR- CENTRAL INSTITUTE OF FISHERIES EDUCATION
(DEEMED UNIVERSITY)
FISHERIES UNIVERSITY ROAD, VERSOVA, ANDHERI (WEST)
MUMBAI – 400 061**

F. No. 32(164)/Works/2018-19/NAHEP-6/

Dated: 28/01/2019

TENDER INVITATION NOTICE

Name of the work: RENOVATION OF HOSTEL AND OFFICE AT ICAR-CIFE ROHTAK CENTER, ROHTAK, Regarding

Sealed Tenders are invited from eligible contractors for work titled “**RENOVATION OF HOSTEL AND OFFICE**” AT ICAR-CIFE ROHTAK CENTER, ROHTAK, HARYANA STATE. The tender duly completed in all respects shall be received up to **1500 hrs. on 11/02/2019** and shall be **opened at 1530 hrs. on 11/02/2019**. Quoted rates must be valid for **45 days** from the date of acceptance of the Tender.

Interested contractors may kindly follow our website <http://www.cife.edu.in>.

The Director of the Institute reserves the right to accept or reject any or all Tender without assigning any reasons whatsoever. No correspondence shall be entertained in this regards.

Senior Administrative Officer

**ICAR- CENTRAL INSTITUTE OF FISHERIES EDUCATION
(Deemed University)**

Fisheries University Road, Versova, Mumbai – 400 061

TENDER INVITATION NOTICE

F. No. 32(164)/Works/2018-19/NAHEP-06

Dated: 28/01/2019

To

Name of the work: RENOVATION OF HOSTEL AND OFFICE AT ICAR-CIFE ROHTAK CENTER.

INFORMATION & IMPORTANT DATES FOR BIDDERS

Date for Issue/Publishing the tender: From 28/01/2019 at 11.00 hrs.

Last date for receiving the Tender : Up to 1500 hrs. on 11/02/2019

Date of opening of Tender : At 1530 hrs. on 11/02/2019

**Tenders shall be opened in presence of the
intended tenderers**

Date of completion of Work : 30 days from the date of award of work

Tender Document Charges of(Non-refundable) : Rs.1000/- (Rupees One thousand only) in the form DD drawn in favour of "ICAR Unit CIFE Mumbai".

Earnest Money Deposit (EMD) : Rs. 25,000/- (Rupees Twenty-five Thousand only) in the form of Demand Draft drawn in favour of "ICAR Unit - CIFE, Mumbai"

Senior Administrative Officer

INSTRUCTIONS TO BIDDERS AND CONDITIONS OF CONTRACT

SECTION - A

1. Scope of Works: (See BOQ)

The Director, ICAR-Central Institute of Fisheries Education (CIFE), Mumbai invites sealed quotations for the construction of works as detailed in the table given below:

(a) Brief Description of the Works: **RENOVATION OF HOSTEL AND OFFICE AT ICAR-CIFE, ROHTAK CENTER, ROHTAK, HARYANA STATE**

(b) Approximate value of Works: **Rs. 10,00,000.00 (Rupees Ten Lakhs only)**

(c) Period of Completion of Work: **30 days** from the award of work.

The successful bidder will be expected to complete the works by the intended completion date specified above.

2. Qualification of the bidder:

The bidder shall provide qualification information which shall include the following: -

- 2.1 Total monetary value of construction works performed for each year of the last 3 years
- 2.2 Income tax clearance certificate from the concerned IT circle & copy of PAN CARD
- 2.3 Up to date Report on his financial standing
- 2.4 Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount in each case
- 2.5 A copy of Contractor's valid registration with CPWD/ PWD/ MES/ BSNL/ MTNL/ P & T/ All India Radio/ PSU/ Any Other Govt. Organizations.
- 2.6 Demand Draft of any scheduled bank against EMD and Tender Fee.
- 2.7 Copy of Certificate of Registration for GST, Sales Tax / VAT
- 2.8 Experience of two similar natures of works in last three years with satisfactory completion.
- 2.9 A Photostat copy of blank cheque/bank details for making payment.

Above documents are to be attached along with tender document and placed in a sealed envelope, failing which the tender shall be rejected out rightly:

3. To qualify for award of the contract the bidder:

- 3.1 should have satisfactorily completed as a prime contractor at least one similar work of value not less than Rs. 5,00,000 in the last three years;
- 3.2 should possess valid Civil/electrical license for executing building civil/electrification works (in the event of the works being sub - contracted, the sub-contractor should have the necessary license);
- 3.3 should possess required valid license for executing the water supply/sanitary works (in the event of the works being sub-contracted, the sub-contractor should have the necessary license);

4. Bid Price:

- 4.1 The contract shall be for the whole works as described in the Bill of quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 4.2 **All duties, taxes , GST, and other levies payable by the contractor under the contract shall be included in the total price.**
- 4.3 The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 4.4 The rates should be quoted in Indian Rupees only.

5. Submission of Quotations:

- 5.1 The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the quotation
- 5.2 Each bidder shall submit only one quotation
- 5.3 The quotation submitted by the bidder shall comprise the following
 - (a) Quotation in the format given in **Section - B**
 - (b) Signed Bill of Quantities; and
 - (c) Qualification information form given in **Section - B** duly completed
- 5.4 The bidder shall seal the quotation in an envelope addressed to "**The Director, Central Institute of Fisheries Education, Off Yari Road, Panch Marg, Versova, Andheri (w), Mumbai - 400 061.** The envelope will also bear the following identification:

☉ Quotation for: **RENOVATION OF HOSTEL AND OFFICE AT ICAR-CIFE, ROHTAK CENTER, ROHTAK, HARYANA STATE**

☉ Do not open before **1530 hours on 11.02.2019**

5.5 Quotations must be received in the office of **the OIC (Works), ICAR-CIFE in a sealed envelope and should be dropped in Tender Box at the office of OIC (Works) not later than the time and date given in the letter of invitation.** If the specified date is declared a holiday, quotations shall be received up to the appointed time on the next working day

5.6 Any quotation received after the deadline of submission of quotations will be rejected and returned unopened to the bidder

6. Validity of Quotation:

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

7. Opening of Quotations:

Quotations will be opened in the presence of bidders or their representatives who choose to attend on the date and time and at the place specified in the letter of invitation.

8. Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

9. Evaluation of Quotations:

The Employer will evaluate and compare the quotations determined to be substantially responsive i.e. which

9.1 meet the qualification criteria specified in clause 3 above;

9.2 are properly signed ; and

9.3 conform to the terms and conditions, specifications and drawings without material deviations.

10. Award of contract:

The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.

10.1 Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

10.2 The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.

11. Performance Security:

Within **15 days** of receiving letter of acceptance, the successful bidder shall deliver to the ICAR-CIFE the performance security (either a bank guarantee or a bank draft **in favour of the "ICAR Unit-CIFE" payable at Mumbai** for an amount equivalent of **3 % of the contract price**. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 12.

12. Period of Maintenance:

The period of Maintenance for the work is six months from the date of taking over possession or one full monsoon period / season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the ICAR-CIFE, Mumbai.

- 13.** Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.
- 14.** **Rs.1000/- (Rupees One thousand only)** (non-refundable) towards the cost of Tender Document and **Rs. 25,000.00 (Rupees Twenty five Thousand only)** towards Earnest Money Deposit (EMD) should be paid in the form of crossed demand draft drawn in favour of **"ICAR Unit – CIFE" payable at Mumbai."**
- 15.** The demand draft in original towards EMD and cost of Tender form must be submitted along with the tender document and are to be placed in a sealed envelope, failing which the Tender will be summarily rejected without any communication.
- 16.** The work shall be executed as per specifications mentioned in BOQ and CPWD's DSR
- 17.** 1% water and electrical charges will be recovered from the bill if supplied by the Department.
- 18.** Any other item to be required at site to complete the work will have to be executed and the same shall be paid as per DSR-2016
- 19.** The EMD of unsuccessful bidders will be returned within 15 days from the date of award of work to successful bidder.
- 20.** **The successful bidder has to pay Security Deposit amounting to 3% of the Contract Price.** The security deposit will be released only after six months from the date of successful completion of work.
- 21.** The defect liability period is 6 months. Any defect arising in the defect liability period is to be rectified by the contractor without any extra cost, failing which the same shall be done departmentally at the **"risk and cost"** of the contractor and the amount of expenditure shall be deducted from the security deposit.
- 22.** The quoted rates should be inclusive of cost of material, carriages, whatsoever, storage, watch and ward, wastages, and all applicable taxes etc. The quoted rates shall not be increased under any circumstances.

23. TDS will be deducted at source from the bill as per rules.
24. The Institute will not supply any tools, equipments, materials storage. The contractor has to make their own arrangement.
25. The EMD submitted by the bidder is liable to be forfeited by the Institute, if the selected firm/bidder fail to commence the work within seven days from the date of receipt of work order.
26. The work shall start within 3 days from the date of award and complete within 30 days failing which a penalty as per prescribed rules / norms of NAHEP shall be imposed. The work must be completed within the specified time period.
27. The material used for renovation must be approved by the officer In-charge (Works)/ site in-charge before using failing which works shall be rejected.
28. The agency has to abide by all rules and regulations pertaining to labour act. The contractor has to take all necessary steps for the welfare measures of labours employed by him at the site.
29. The agency will be fully responsible for providing medical facilities to their labourers in case of any accident, etc. Matters related to labour welfare/problems should be dealt by the contractor only. CIFE, Mumbai shall not be responsible in such matters.
30. Taxes, if any, should be clearly mentioned in the quotation, failing which it will be presumed that the quoted rates are inclusive of all taxes. No additional tax will be allowed if the same is not mentioned in the quotation document.
31. The tenders/bidders in their own interest are instructed to visit the site for understanding the site conditions, nature of work, etc.
32. The Director, CIFE, Mumbai reserves the right to accept or reject any or all tender / all tenders without specifying any reason whatsoever. No correspondence shall be entertained in this regard. The decision of the Director, CIFE, Mumbai shall be final and binding on all concerned in such matters.
33. For any clarification in design or specifications, bidders may contact Principal Investigator, NAHEP project, ICAR-CIFE, Mumbai during office hours on all working days.
34. No additional amount whatsoever shall be paid over and above the quoted amount.
35. Work should be carried out using high standard materials and standard procedure used for construction/renovation of Hostels and office buildings.

SECTION - B

- 1. Format for Qualification Information.**
- 2. Format for Submission of Quotation.**
- 3. Format of Letter of Acceptance.**

QUALIFICATION INFORMATION

1 For Individual Bidders

1.1 Principal place of business: _____

Power of attorney of signatory of Quotation.
[Attach copy]

1.2 Total value of Civil Engineering	2015-16_	_____
construction work performed in the last	2016-17_	_____
three years (in Rs. Lakhs)	2017-18	_____

1.3 Work performed as prime contractor (in the same name) on works of a similar nature over the last three years. (May attached as annexure in the same format)

Particular	Ist Year	IInd Year	IIIrd Year
Project Name			
Name of Employer			
Description of work			
Contract No.			
Value of Contract (Rs. Lakhs)			
Date of issue of work order			
Stipulated time period of the work			
Actual date of completion			
Remarks explaining the reasons of delay/ work completed			

1.4 Existing commitments and on-going works

Sno.	Particulars	Information
1	Description of Work	
2	Place & State	
3	Contract No. and Date	
4	Value of Contract in Rupees in Lakhs	
5	Stipulated period of completion	
6	Value of works remaining to be completed	
7	Anticipated date of completion	

Proposed sub-contracts and firms involved

Section of the Work	Value of sub-contract	Sub-Contractor (Name & Address)	Experience in similar work

1.5 Evidence of access to financial resources to meet the requirement of working capital: cash in hand, lines of credit, etc.

QUOTATION

Description of the works: RENOVATION OF HOSTEL AND OFFICE AT ICAR-CIFE, ROHTAK CENTER, ROHTAK, HARYANA STATE

To:

Subject: **RENOVATION OF HOSTEL AND OFFICE AT ICAR-CIFE, ROHTAK CENTER**

Reference : Letter No.....dated.....from.....

Sir,

We offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed therewith **at (%) percentage above / below/at par the estimated cost/rates, i.e., for a total Contract Price of -**

Rs. _____ [in figures]

Rs. _____ [in words].

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

Yours faithfully,

Authorized Signature: _____ Date: _____

Name & Title of Signatory: _____

Name of Bidder: _____

Address: _____

BILL OF QUANTITIES

Renovation of Office and Hostel at CIFE Lahli, Rohtak.						
N/W						
SLNo	Description	Qty.	Unit	Rate	Amount	DSR No.
1	EARTH WORK					2
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					2.8
1.1.1	All kinds of soil.	30.00	cum	166.40	4992.00	2.8.1
1.2	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 upto 1.5 m.	30.00	cum	125.75	3773.00	2.25
1.3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1.50	cum	917.75	1377.00	2.27
2	CONCRETE WORK					4
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					4.1
2.1.1	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).	6.00	cum	4209.05	25254.00	4.1.10
2.2	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 necessary excavation, levelling & dressing & finishing the top smooth.	84.00	sqm	450.35	37829.00	4.17
3	REINFORCED CEMENT CONCRETE					5
3.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					5.1
3.1.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	1.10	cum	6215.35	6837.00	5.1.2

3.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :					5.2
3.2.1	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.50	cum	7145.80	3573.00	5.2.2
3.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	8.50	cum	7390.80	62822.00	5.3
3.4	Centering and shuttering including strutting, propping etc. and removal of form for:					5.9
3.4.1	Foundations, footings, bases of columns, etc. for mass concrete	15.00	sqm	193.95	2909.00	5.9.1
3.4.2	Suspended floors, roofs, landings, balconies and access platform	37.00	sqm	422.30	15625.00	5.9.3
3.4.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers	47.00	sqm	342.90	16116.00	5.9.5
3.4.4	Columns, Pillars, Piers, Abutments, Posts and Struts	8.00	sqm	467.85	3743.00	5.9.6
3.5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					5.22
3.5.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	375.00	Kg	56.60	21225.00	5.22.6
3.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					5.22A
3.6.1	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	920.00	Kg	56.60	52072.00	5.22A.6
4	BRICK WORK					6
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					6.1
4.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	18.00	cum	4970.30	89465.00	6.1.1

4.2	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 :					6.4
4.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	17.00	cum	5582.85	94908.00	6.4.2
5	WOOD AND P.V.C. WORK					9
5.1	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :					9.63
5.1.1	200x10 mm	4.00	each	51.05	204.00	9.63.2
5.1.2	150x10 mm	6.00	each	44.10	265.00	9.63.3
5.1.3	100x10 mm	4.00	each	31.40	126.00	9.63.4
5.2	Providing and fixing ISI marked 85x42 mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.	2.00	each	78.15	156.00	9.64
5.3	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :					9.66
5.3.1	100 mm	8.00	each	22.65	181.00	9.66.2
5.3.2	75 mm	2.00	each	19.15	38.00	9.66.3
5.4	Providing and fixing to existing door frames.					9.118
5.4.1	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (\pm 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	3.00	sqm	2154.75	6464.00	9.118.3

5.5	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	15.00	metre	438.75	6581.00	9.119
6	STEEL WORK					10
6.1	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.	48.00	kg	58.45	2806.00	10.1
6.2	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.					10.5
6.2.1	Using M.S. angles 40x40x6 mm for diagonal braces	2.00	sqm	2870.25	5741.00	10.5.1
6.3	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).					10.11
6.3.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	33.00	kg	113.60	3749.00	10.11.1
6.4	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.					10.13
6.4.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	18.00	kg	74.05	1333.00	10.13.1

6.5	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :					10.3
6.5.1	4.0 mm thick glass panes	9.50	sqm	689.05	6546.00	10.30.1
7	FLOORING					11
7.1	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.	12.00	sqm	555.25	6663.00	11.4
7.2	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.					11.6
7.2.1	18 mm thick	4.00	sqm	350.05	1400.00	11.6.1
7.3	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.	22.00	sqm	744.80	16386.00	11.36
7.4	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	4.50	sqm	822.45	3701.00	11.39
8	ROOFING					12
8.1	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:					12.19

8.1.1	With common burnt clay F.P.S. (non-modular) brick tiles of class designation 10	35.00	sqm	426.70	14935.00	12.19.1
9	FINISHING					13
9.1	12 mm cement plaster of mix :					13.4
9.1.1	1:4 (1 cement: 4 coarse sand)	100.00	sqm	180.85	18085.00	13.4.1
9.2	15 mm cement plaster on rough side of single or half brick wall of mix:					13.5
9.2.1	1:4 (1 cement: 4 coarse sand)	45.00	sqm	209.65	9434.00	13.5.1
9.3	6 mm cement plaster of mix :					13.16
9.3.1	1:3 (1 cement : 3 fine sand)	38.00	sqm	143.80	5464.00	13.16.1
9.4	White washing with lime to give an even shade :					13.37
9.4.1	New work (three or more coats)	50.00	sqm	17.25	863.00	13.37.1
9.5	Finishing walls with Acrylic Smooth exterior paint of required shade :					13.46
9.5.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	133.00	sqm	96.05	12775.00	13.46.1
9.6	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in- charge (payment for providing grooves shall be made separately).	300.00	sqm	582.60	174780.00	13.72
9.7	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :					13.73
9.7.1	15 mm wide and 15 mm deep groove	1000.00	metre	34.40	34400.00	13.73.1
10	SANITARY INSTALLATIONS					17

10.1	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:					17.1
10.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	each	3494.20	6988.00	17.1.1
10.2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					17.7
10.2.1	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	2.00	each	1817.35	3635.00	17.7.4
10.3	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	each	817.95	1636.00	17.31
10.4	Providing and fixing soil, waste and vent pipes :					17.35
10.4.1	100 mm dia					17.35.1
10.4.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	7.00	metre	921.65	6452.00	17.35.1.2
10.4.2	75 mm diameter :					17.35.2
10.4.2.1	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	6.00	metre	794.55	4767.00	17.35.2.2
10.5	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :					17.36
10.5.1	75 mm dia. pipe	10.00	each	72.95	730.00	17.36.1
10.5.2	100 mm dia. pipe	10.00	each	85.95	860.00	17.36.2
10.6	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					17.38
10.6.1	75 mm dia.					17.38.2
10.6.1.1	Sand cast iron S&S as per IS- 3989	4.00	each	317.85	1271.00	17.38.2.2
10.7	Providing and fixing heel rest sanitary bend					17.4
10.7.1	100 mm dia.					17.40.1
10.7.1.1	Sand cast iron S&S as per IS - 3989	2.00	each	370.95	742.00	17.40.1.2
10.7.2	75 mm dia.					17.40.2
10.7.2.1	Sand cast iron S&S as per IS - 3989	4.00	each	312.05	1248.00	17.40.2.2
10.8	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					17.43

10.8.1	100x100x100 mm					17.43.1
10.8.1.1	Sand cast iron S&S as per IS - 3989	2.00	each	623.00	1246.00	17.43.1.2
10.9	Providing and fixing trap of self-cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :					17.6
10.9.1	100 mm inlet and 75 mm outlet					17.60.2
10.9.1.1	Sand cast iron S&S as per IS - 3989	4.00	each	1072.80	4291.00	17.60.2.1
10.1	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					17.73
10.10.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	2.00	each	390.20	780.00	17.73.1
11	WATER SUPPLY					18
11.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. INTERNAL WORK - EXPOSED ON WALL					18.7
11.1.1	20 mm nominal outer dia. Pipes	5.00	metre	179.95	900.00	18.7.2
11.2	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.					18.8
11.2.1	20 mm nominal outer dia. Pipes	20.00	metre	284.85	5697.00	18.8.2
11.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. EXTERNAL WORK					18.9
11.3.1	20 mm nominal outer dia. Pipes	100.00	metre	149.30	14930.00	18.9.2
11.4	Providing and fixing brass stop cock of approved quality :					18.16

11.4.1	20 mm nominal bore	4.00	each	280.40	1122.00	18.16.2
11.5	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					18.18
11.5.1	20 mm nominal bore	2.00	each	327.05	654.00	18.18.2
11.6	Providing and fixing uplasticised PVC connection pipe with brass unions :					18.21
11.6.1	45 cm length					18.21.2
11.6.1.1	20 mm nominal bore	4.00	each	82.90	332.00	18.21.2.2
11.7	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.					18.48
11.7.1	Circular tank	600.00	per litre	7.25	4350.00	18.48.A
11.8	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :					18.49
11.8.1	15 mm nominal bore	2.00	each	371.70	743.00	18.49.1
11.9	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					18.51
11.9.1	15 mm nominal bore	2.00	each	492.55	985.00	18.51.1
11.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					18.52
11.10.1	15 mm nominal bore	2.00	each	545.95	1092.00	18.52.1
11.11	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					18.53
11.11.1	15mm nominal bore	4.00	each	475.70	1903.00	18.53.1
12	DRAINAGE					19
12.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :					19.1
12.1.1	100 mm diameter	13.00	metre	216.25	2811.00	19.1.1
12.2	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 :					19.2
12.2.1	100 mm diameter S.W. pipe	13.00	metre	622.95	8098.00	19.2.1

12.3	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:					19.4
12.3.1	100x100 mm size P type					19.4.1
12.3.1.1	With common burnt clay F.P.S. (non-modular) bricks of class designation 7.5	2.00	each	1602.40	3205.00	19.4.1.1
12.4	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					19.7
12.4.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :					19.7.1
12.4.1.1	With common burnt clay F.P.S. (non-modular) bricks of class designation 7.5	2.00	each	8634.10	17268.00	19.7.1.1
13	WATER PROOFING					22

13.1	<p>Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for underground structures as directed by Engineer-in-Charge and consisting of : (i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. (iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.</p>					22.1
13.1.1	Using rough kota stone.	3.30	sqm	1017.55	3358.00	22.1.1

14	<p>Providing & laying courses of rehabilitation repair work of damaged/ spoiled concrete of chajjas, lintels, sunshades, balconies, parapets, slabs and other similar RCC works up to floor five level excluding cost of required centering, shuttering and scaffolding, consisting of following operations as per directions of Engineer-in-Charge.</p>					
	<p>i) 1st course of applying two coats of acrylic polymer based bonding/ anticorrosive coating as per manufacturers specifications (Acrocote CP-100 @ 2.40 kg per Sqm or equivalent) on concrete surface and reinforcement.</p>					
	<p>ii) 2nd courses of providing and fixing fibre reinforced mesh and placing 35 mm (average) thick cement concrete 1:1:5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 10 mm maximum size or washed coarse sand) modified with acrylic polymer based bonding agent as per manufacturers specifications (Acrosupaflo @ 575 ml/bag of cement or equivalent including the final finish with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) modified with acrylic polymer based bonding agent as per manufacturers specifications (concrete @ 2 Kg/ bag of cement or equivalent)</p>					
	<p>iii) 3rd course of acrylic polymer based ant carbonation coating with manufacturers recommended admxd dose in cement mixed (Acrocrete @1.00 Kg/Sqm mixed with cement @ 1.90 Kg/ Sqm or equivalent) with minimum quantity of additional water to make mix workable over the finished surface. (Finished surface shall be measured for payment)</p>					

		40	Sqm	1700.9	68036.00/-	
	Total				945726.00/-	
	Cost index above DSR Item @ 3.95 %				37356/-	
	Grand Total				983082/-	

Gross Total: Rs. 9,83,082.00

We agree to execute the works in accordance with the approved drawings and technical specifications at ----- **percentage above / below / at par** of the estimated rates i.e. for a total contract price of Rs. ----- (amount in figures)
 (Rupees-----
 -----only (amount in words)

Signature of Contractor

