

Malaviya National Institute of Technology Jaipur

Notice inviting Tender

Name of Work: Renovation of Residential quarters by Fixing of tiles, including change of sanitary & Water supply lines in WCs , Bathroom & Kitchens

Sealed Tenders are invited on behalf of Director, Malaviya National Institute of Technology (MNIT), Jaipur from eligible contractors. Sealed technical and financial bids should be submitted in separate envelopes with technical bid marked as envelop 1 and financial bid marked as envelop 2. Financial bid of only those parties shall be opened who qualify in technical bid. Both the technical and financial bids, sealed separately should be enclosed in single enclosure.

- Estimated cost of work is Rs. 15.00 Lakh (Rupees Fifteen Lakh Only)
- Completion period : 04 Months
- Earnest money – Rs. 30,000/- (Rupees Thirty Thousand only) shall be enclosed along with technical bid (envelope 1).

Important Dates

1. Last date of sale of bid documents: 09.03.09 ; 12:00 Noon
2. Last date for bid submission: 09.03.09 by 2.00 PM
3. Technical bids to be opened on: 09.03.09 at 3.30 PM
4. Financial bid of qualified parties to be opened on: 16.03.09 at 3:30 PM

Bid documents can be obtained from the Office of Executive Engineer, Estate Section, MNIT Jaipur on the submission of a written application and payment of a non-refundable **Demand Draft** in favour of **Registrar, Malaviya National Institute of Technology, Jaipur** payable at **Jaipur / Cash of Rs. 500/-** on all working days or can be downloaded from our web site and should be submitted along with a DD for Rs. 500/-. Bids are to be submitted to

Executive Engineer

Estate Section

Malaviya National Institute of Technology

JLN Marg, Jaipur 302 017

Contractors/Firm fulfilling the following criteria will be eligible for participating in the bid.

1. Yearly average financial turnover on construction works of the contractor for last 3 financial years should be at least Rs. 15 lakhs.

2. Firm/Contractor have completed at least one similar work amounting to Rs. 12 lakhs or at least 2 similar works each amounting to Rs. 09 lakhs or at least 4 similar works each amounting to Rs. 06 lakhs, in last 3 years. The works must be of similar nature involving complete works such as civil works, tiling work, sanitary & water supply related works etc. of public sector undertakings/ Institutions (Govt./semi-sponsored Institutes/reputed MNCs/organizations).
3. Contractor/firm should submit the sales tax/VAT certificates along with the bid/application.
4. Contractor/firm should submit the copy of PAN card along with the bid/application.
5. Preferably valid registration certificate of appropriate class from CPWD /PWD /MES / RAILWAYS /Govt./SEMI - GOVERNMENT ORGANIZATIONS.
6. List of major works of similar nature having completed satisfactorily during last three years with supporting documents.
7. Certificate of best two works of similar nature (completed by the firm) to be submitted along with phone numbers/addresses of respective officers of the department/client to be given. The Institute has right to take assessment of the said concerned works in order to open financial bids.

Supporting documents in regard to the above mentioned points should be included in Technical bid. Only price schedule with rates should be included in financial bid. The institute reserves the right to accept/reject any or all tenders without assigning any reason thereof. Institute also reserves the right to award the additional similar work for other residential quarters to other bidders on the lowest rates.

Executive Engineer.

Schedule – H

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

ESTATE DEPARTMENT

Terms and Conditions of contract

1. The tenderer shall have to clearly mention in bold letters the name of the work on the top of the sealed envelope containing tender document. The tender should preferably be submitted in the printed envelope of the tenderer otherwise he shall have to print his rubber seal stamp on the envelope. The tender document shall be submitted by the tenderer along with his printed covering letter of the firm.
2. The attested copies of the following documents must be submitted by the tenderer along with his tender document:
 - (A) Yearly average financial turnover on construction works of the contractor for last 3 financial years should be at least Rs. 15 lakhs.
 - (B) Firm/Contractor have completed at least one similar work amounting to Rs. 12 lakhs or at least 2 similar works each amounting to Rs. 09 lakhs or at least 4 similar works each amounting to Rs. 06 lakhs, in last 3 years. The works must be of similar nature involving complete works such as civil works, tiling work, sanitary & water supply related works etc. of public sector undertakings/ Institutions (Govt./semi-sponsored Institutes/reputed MNCs/organizations).
 - (C) Contractor/firm should submit the sales tax/VAT certificates along with the bid/application.
 - (D) Contractor/firm should submit the copy of PAN card along with the bid/application.
 - (E) Preferably valid registration certificate of appropriate class from CPWD /PWD /MES / RAILWAYS /Govt./SEMI - GOVERNMENT ORGANIZATIONS.
 - (F) List of major works of similar nature having completed satisfactorily during last three years with supporting documents.
 - (G) Certificate of best two works of similar nature (completed by the firm) to be submitted along with phone numbers/addresses of respective officers of the department/client to be given. The Institute has right to take assessment of the said concerned works in order to open financial bids.
3. Earnest money @ 2 % as mentioned in the tender form, in the form of D.D. in favour of Registrar, MNIT, Jaipur should be enclosed with tender submitted to the institute. Tenders submitted without earnest money shall not be entertained.

4. Sealed tenders shall be dropped (envelop 1 & 2) in the locked tender box placed in the office of the Executive Engineer, Estate Section, MNIT up to 2.00 PM on 09.03.2009. Tenders received after the above date and time shall not be entertained.
5. Technical bids shall be opened in the office of Executive Engineer, Estate Section at 3.30 PM on 09.03.2009 in the presence of the contractors or their authorized representatives, those who remain present at that time. Financial bids of eligible firms shall be opened at 3:30 PM on 16.03.2009.
6. Conditional tenders shall not be considered.
7. The tenderers are advised to first inspect the site of work and fully understand very carefully about the conditions of site so as to give superior quality work to institute before submitting tender & include all lead lift etc. for the materials / labour in his percentage to be quoted on the rates as given in the Schedule 'G' / the rates to be offered by him for the Non – DSR items. The work shall have to be carried out in accordance with the C.P.W.D. detailed specifications & measurements laid down thereon to the entire satisfaction of Engineer In-Charge of the work.
8. The work shall have to be started within ten days from the date of issue of work order. In case, if the work is not started within above period, the earnest money shall be forfeited.
9. If the pro-rata progress of the work is not found satisfactory, the work shall be got done from another agency / contractor at the risk & cost of the contractor.
10. The work shall have to be completed within the period as specified in the NIT.
11. The sample of the materials to be used by the contractor shall be deposited in advance with Engineer In-Charge & be got approved by him before use.
12. The Contractor shall adopt all safety measures, which are essential for the execution of the work. The Institute shall not be responsible for any mis-happening if occurred while executing the work, this may please be noted very carefully. The contractor is advised to have the insurance of his staff / workers against any mis-happening while attending the work at his own level.
13. The contractor or his authorized person shall submit weekly progress report of the work executed by him to the Engineer In-Charge of the work.
14. Water and electricity consumption charges for the work will be recovered @ 2 % (1% for each water and electricity of the billed amount from the contractor's bill, if these are supplied by the institute.
15. The MNIT reserves all rights to club or divide works and / or accept or reject any or all the tenders without assigning any reason.
16. The quantities of the items mentioned in the G- Schedule can be increased or decreased depending on the prevailing site conditions.
17. All the works narrated in G-schedule shall be got executed as per relevant IS code and guidelines of CPWD works manual, amended up to date.

18. Compensation for delay : The time allowed for carrying out the work as entered in the tender, shall be strictly observed by the Contractor and shall be reckoned from the 10th day after the date of written order to commence the work is given to the Contractor. If the Contractor does not commence the work within the period specified in the work order, he shall stand liable for the forfeiture of the amount of Earnest Money and Security Deposit. Besides, appropriate action may be taken by the Engineer-in-Charge/competent authority to debar him from taking part in future tenders for a specified period or black list him. The work shall, throughout the stipulated period of completion of the contract, be proceeded with all due diligence, time being essence of the contract, on the part of the Contractor. To ensure good progress during the execution of work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month (save for special jobs), to complete 1/8th of the whole of the work before 1/4th of the whole time allowed under the contract has elapsed, 3/8th of the work before 1/2 of such time has elapsed and 3/4th of work before 3/4th of such time has elapsed. If the contractor fails to complete the work in accordance with this time schedule in terms of cost in money, and the delay in execution of work is attributable to the contractor, the contractor shall be liable to pay compensation to the Government at every time span as below: -

A.	Time Span of full stipulated period	1/4th	1/2th	3/4th	Full
B.	Work to be completed in terms of money	1/8th (Rs.)	3/8 th (Rs.)	3/4 th (Rs.)	Full (Rs.....)
C.	Compensation payable by the contractor for delay attributable to contractor at the stage of :	Delay up to one fourth period of the prescribed time span = 2.5% of the work remained unexecuted Delay exceeding one fourth period but not exceeding half of the prescribed time span = 5% of the work remained unexecuted. Delay exceeding half of the prescribed but not exceeding three fourth of the time span= 7.5% of the work remained unexecuted Delay exceeding three fourth of the prescribed time span = 10% of the work remained unexecuted			

Note : The compensation, levied as above, shall be recoverable from the Running Account Bill to be paid immediately after the concerned time span. Total compensation for delays shall not exceed 10 percent of the total value of the work.

The contractor shall, further, be bound to carry out the work in accordance with the date and quantity entered in the progress statement attached to the tender.

In case the delay in execution of work is attributable to the contractor, the span wise compensation, as laid down in this clause shall be mandatory. However, in case the slow progress in one time span is covered up within original stipulated period, then the amount of such compensation levied earlier shall be refunded. The Engineer-in-Charge shall review the progress achieved in every time span, and grant stagewise extension in case of slow progress with compensation, if the delay is attributable to contractor, otherwise without compensation.

However, if for any special job, a time schedule has been submitted by the Contractor

before execution of the agreement, and it is entered in agreement as well as same has been accepted by the Engineer-in-charge, the Contractor shall complete the work within the said time schedule. While granting extension in time attributable to the Government, reasons shall be recorded for each delay.

19. In Case the contractor is unable to complete the work due to unavoidable circumstances / justified reasons, he should apply to the Director well in time for extension of time with the request to waive the liquidated damage/ penalty charges which is at the discretion of the Director, MNIT, Jaipur.
20. The security deposit @ 10 % of total bill amount raised at different stages shall be deducted & will be released after 6 months from the date of actual completion of the total work allocated, only if the work is found satisfactory. If any deficiency is found with in the above period the same shall be made good by the contractor to the satisfaction of the Institute.
21. Institute reserves the right to award the additional similar work for other residential quarters to other bidders on the lowest rates.

REGISTRAR

I / We have read the above mentioned Terms and conditions at S. No. 1 to 21 very carefully and hereby agree to execute the work on the percentage/rates offered by I/we in enclosed G-schedule and on the above terms & conditions in addition to the conditions of contract laid down by the CPWD.

Signature of the Contractor-----

Name of the Contractor -----

Address-----

Phone / Mobile No. -----

Seal of the Contractor

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

ESTATE DEPARTMENT

SCHEDULE AND SPECIFICATIONS

1	Name of Work	Renovation of Residential quarters by Fixing of tiles, including change of sanitary & Water supply lines in WCs , Bathroom & Kitchens
2	Estimated Cost of the Work	Rs. 15.00 Lakh
3	Completion Period	04 Months
4	Cost of Tender Document	Rs. 500.00
5	Earnest Money	Rs. 30000.00
6	Last Date of Sale of Tender Document :	09.03.09; upto 12:00 Noon
7	Last date for bid submission:	09.03.09 by 2.00 PM
8	Technical bids to be opened on	09.03.09 at 3.30 PM
9	Financial bid of qualified parties to be opened on:	16.03.09 at 3:30 PM

EXECUTIVE ENGINEER

Malaviya National Institute of Technology Jaipur
Estate Section

Name of Work :- Renovation of Residential quarters by Fixing of tiles, including change of sanitary & Water supply lines in WCs , Bathroom & Kitchens

G- Schedule

S. N.	Description of Items	Unit	Rate	Qty	Amount
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.				
a	1:3:6 or richer mix	cum		20	
b	1:4:8 or leaner mix	cum		20	
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
	In cement mortar	cum		40	
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	Of area 3 sq. metres and below	each		40	
4	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				
	Of area 3 sq. metres and below	each		40	
5	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	kg		384	
6	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles 10 mm to 25 mm	sqm		180	
7	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead:				
	Thickness upto 40 mm	sqm		20	
8	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
a	15 mm to 40 mm nominal bore	metre		280	
b	Above 40 mm nominal bore	metre		42	

S. N.	Description of Items	Unit	Rate	Qty	Amount
9	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes and lead at site within 50 metre lead as per direction of Engineer-in-charge:				
	Upto 150 mm diameter	metre		180	
10	Dismantling of W.C. including flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each		20	
11	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm		437.5	
12	Demolishing C.C. /R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials upto a lead of 1000m, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	cum		10	
13	Providing and laying Ceramic matt finish/non skidding floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of Kajaria / Nitco make in all colours, shades, except White, Ivory, Grey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	sqm		132	
14	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of Kajaria / Nitco 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 sum including pointing in white cement mixed with pigment of matching shade complete.	sqm		284	
15	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum		1.725	
16	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in :				
	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm		72	

S. N.	Description of Items	Unit	Rate	Qty	Amount
17	Providing and fixing upto floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 Cement : 3 fine sand) on exposed surfaces complete.				
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	cum		8	
18	12 mm cement plaster of mix :				
	1:6 (1 cement : 6 fine sand)	sqm		16	
19	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	each		10	
20	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 testing of joints complete as per direction of Engineer in Charge.				
a	15 mm nominal outer dia .Pipes.	metre		268	
b	25 mm nominal outer dia .Pipes.	metre		78	
21	Making connection of G.I. distribution branch with G.I. / CPVC main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
	25 to 40 mm nominal bore	each		16	
22	Fixing water meter and stop cock in G.I./ CPVC pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	each		5	
23	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 of Jaguar continental/Clarion make				
	15 mm nominal bore.	each		12	
24	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet ISI mark :				
	100 mm diameter	each		10	
25	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	Flexible pipe				
	32 mm dia	each		10	
26	Providing and fixing 100 mm sand cast Iron grating for gully trap.	each		10	

S. N.	Description of Items	Unit	Rate	Qty	Amount
27	Providing and fixing soil, waste and vent pipes :				
	100 mm dia.				
	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	metre		40	
28	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 :				
	100 mm dia pipe	each		10	
29	Providing and fixing G.I. Union in G.I. pipe /CPVC pipe including cutting and threading the pipe and making long screws etc. complete (New work)				
a	15 mm nominal bore	each		15	
b	25 mm nominal bore	each		5	
30	Providing and fixing C.P. brass long nose bib cock of of Jaguar continental/Clarion make conforming to IS standards and weighing not less than 810 gms.				
	15 mm nominal bore.	each		32	
31	Providing and fixing C.P. brass long body bib cock of of Jaguar continental/Clarion make conforming to IS standards and weighing not less than 690 gms.				
	15 mm nominal bore	each		30	
32	Providing and fixing C.P. brass stop cock (concealed) of standard design and of of Jaguar continental/Clarion make conforming to IS:8931.				
	15 mm nominal bore.	each		10	
33	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931(Jaguar continental/Clarion make)				
	15 mm nominal bore	each		10	
34	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern 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 Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	each		5	

S. N.	Description of Items	Unit	Rate	Qty	Amount
35	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern 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 :				
	W.C. pan with ISI marked white solid plastic seat and lid	each		5	
36	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
	Granite of any colour and shade				
	Area of slab over 0.50 sum.	sqm		24	
37	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	Granite work.	metre		20	
38	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.	metre		20	
39	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	each		5	
40	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin of Jaguar continental/Clarion make :				
	32 mm dia	each		10	
41	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink with drain board				
	510x1040 mm bowl depth 250mm.	each		5	

S. N.	Description of Items	Unit	Rate	Qty	Amount
42	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
	Flat back wash basin of size 630x450mm.	each		10	
	Providing and fixing Waste Coupling for wash basin and sink, of approved quality and colour.				
43	Waste coupling 31mm of 79mm length and 62mm breadth weighing not less than 45gms.	each		10	
44	Providing and fixing soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	each		10	
45	Providing and fixing towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.				
	600 MM long towel rail with all fitting complete in all respect.	each		10	
46	25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm \pm 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm 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 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' 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.	sqm		15	
47	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance \pm 1mm) with wall thickness 2.0mm \pm 0.2mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm \pm 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge				
	Extruded section Profile size 48x40 mm.	metre		49.6	

S. N.	Description of Items	Unit	Rate	Qty	Amount
48	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and rivetted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of other fittings except necessary hinges or pivots complete as per approved design. (Sectional weight of only steel members shall be measured for payment without weight of glass and other fittings).	kg		30	
49	Providing and laying vitrified floor tiles in different sizes with water absorption's less than 0.08% and conforming to IS : 15622 of approved make (Naveen / NITCO / Kajaria / Asian /Jhonson make, size 600 mm x 600 mm and thickness 10 mm) in all colours and shades, laid with tile admixture (Roff Pidilite or equivalent) including filling of joints by water proofing tile grout (Fevimate, Roofie, Untile or equivalent) specially for adhesive with graded granuals, polymer and stable pigment fine finished including cleaning of joints etc., after leveling the floor by cement mortar (1:4) as desired, complete in all respect as per direction of Engineer In charge to give superior quality finishing.				
	Size of Tile 60x60 cm	sqm		440	
50	Dismantling door shutters and refixing same in position again after fixing of tiles by cutting in height as per site conditions	Each		40	
51	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm		120	
52	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
53	25 mm thick.	sqm		84	

S. N.	Description of Items	Unit	Rate	Qty	Amount
54	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm		48	
55	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
	In 75x75mm deep chase	metre		540	
56	<p>Providing and laying integral cement based water proofing treatment including preparation of surface by removal of old surface treatment already provided, as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>a) Applying a slurry coat of neat cement using 2.75 kg/sum. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.</p> <p>b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs</p> <p>c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sum of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.</p> <p>d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.</p> <p>e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. A certificate of 5 year guarantee shall be provided by firm. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p>				
	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	sqm		164	
57	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
	Ordinary cement without any pigment.	sqm		372	

S. N.	Description of Items	Unit	Rate	Qty	Amount
58	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm		112	
59	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				
	Old work (one or more coats)	sqm		54	
60	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade including base coat :				
	Two or more coats on new work	sqm		72	
	Total In Rupees =				
	In Word =				

Total Amount of the Work in Rupees =

In Words

EXECUTIVE ENGINEER

I /We hereby agree to execute the work on the rates as mentioned above by me/us in the G - Schedule and on the enclosed Terms and conditions of contract of the Institute.

**Signature of the contractor with seal
Address.....**

Phone/Mobile

Opened by us on

Tender stands at the total amount of Rupees

Dr. A.K.Vyas

Dr. Mahesh K. Jat

K. K. Agarwal

Sumit Khandelwal

Suresh Chandra