

MAHARSHI DAYANAND UNIVERSITY ROHTAK

NOTICE INVITING TENDER

Sealed tenders on percentage basis are invited on behalf of the Registrar, MDU, Rohtak from contractors/societies / agencies on approved list of PWD, MES, CPWD, autonomous bodies and State / Centre Govt. undertakings. The tender forms will be issued to the contractors / societies / agencies up to the date of opening of tenders as mentioned against work by 12:00 Noon and will be received upto 2:00 P.M. in the office of the Registrar and opened at 3:00 P.M. on the same day in the Committee Room of Vice-Chancellor office in the presence of the tenderers or their authorized representatives, who may like to be present at that time. **The tender documents may be obtained from the office of the undersigned and the same be deposited in the office of the Registrar by the due date.**

Sr. No.	Name of work	App. Amt. (Rs.)	Earnest Money (Rs.)		Cost of tender form (Rs.)	Date of opening of tender	Time limit
			Society	Contractor			
1.	Construction of Boundary Wall, Retaining Wall, Garage, and Guest Room Block at Holiday Home for MDU at Dhana Chuli, Nainital(Uttarakhand), (including E.I.)	52,00,000/-	52,000/-	1,04,000/-	5,000/-	09.04.2013	06 months

CONDITIONS:-

1. Complete NIT / DNIT (Detailed Notice Inviting Tender) alongwith eligibility criteria/terms & conditions and changes if any can be seen in the office of undersigned on any working day during office hours (9:00 AM to 5:00 PM) or on University Website – www.mdurohtak.ac.in
2. The tenderer will keep in touch with the University Web site for any change in the NIT / DNIT till the last date/revised last date of sale of tender and incorporate such changes in NIT / DNIT and the tender bids.
3. At the time of purchase of tender documents, the contractors should submit the following documents:-
 - (a) Proof of enlistment.
 - (b) Copy of PAN card.
 - (c) Copy of latest income tax return.
 - (d) Successfully work done certificates of similar nature of works in hilly region during last 5 years (financial year 2008-09 to 2012-13) as under:-
 - One certificate of 80% of the estimated cost of this tender.
 - Or
 - Two certificates of 60% of the estimated cost of this tender
 - Or
 - Three certificates of 40% of the estimated cost of this tender

All the above certificates in paras 3(a) to 3(d) above will be self attested and stamped with the stamp of the firm.

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4. In case tendering day happens to be a holiday, the tenders will be received / opened on next working day at the same time.
5. Validity of tenders will be 90 days.
6. Earnest money is to be deposited at the time of purchase of the tender. It should be in the shape of Demand Draft or Deposit at Call in favour of the Executive Engineer, MDU, Rohtak payable at Rohtak.
7. Contractors shall quote the rates of all items of DNIT separately.
8. Conditional tender is liable to be rejected.
9. Any work, here tendered, may be withdrawn from further processing at any stage at the discretion of the competent authority without assigning any reason.
10. Engineer-in-Charge is competent to increase / decrease the quantity of work. In case of decrease of quantity, the contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full.
11. Nothing extra whatsoever shall be paid on account of losses, damages done by rains or any other natural calamity.
12. The tender is liable to be rejected if the tender is found in variance of the above conditions or the conditions of the DNIT.
13. The University reserves the right to accept or reject or negotiate any of the tender or conditions/items without assigning any reason.
14. Plumbing and E.I. work shall be got done through license holder agencies for the works involving PH / E.I.
15. The agencies shall paste the cello tape on the rates quoted by them.
16. Tender by post / courier shall only be accepted if it fulfills the eligibility criteria and contains the tender fees and the earnest money.
17. Exemption of tender fee or earnest money or security will not be permitted in any case.

Executive Engineer

PTO

Endst. No. EE/ 2013 / 1483-1518

Dated: 13.03.2013

A copy of the pre page is forwarded to the following for information and necessary action:-

1. Superintending Engineer, PWD B&R Circles, Rohtak
2. Technical Advisor to VC, MDU, Rohtak
3. Executive Engineer(C-II), MDU, Rohtak
4. Executive Engineer, PWD B&R (Medical College), Rohtak / KUK / HAU. Hisar / GJU, Hisar / CDLU, Sirsa / BPS Women University, Khanpur/ DBSCRU, Murthal
5. Secretary to Vice-Chancellor (for kind information of the Vice-Chancellor), M. D. University, Rohtak
6. P.A. to Registrar (for kind information of Registrar), MDU, Rohtak
7. SDE(C-I, II, III) / SDE (E-I) / SDE (PH) / SDE (Horti.-I, II), MDU, Rohtak
8. Divisional Accountant / H.D.M., Engineering Cell, MDU, Rohtak
9. Notice Board
10. Contractor/Agency/Society: _____

Executive Engineer

DNIT for the work “Construction of Boundary Wall, Retaining Wall, Garage, and Guest Room Block at Holiday Home for MDU at Dhana Chuli, Nainital(Uttarakhand), (including E.I.)”- - E.I.”

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
1.	03 mtr.	Supply and erection of M.S. angle iron frame duly welded for housing M.S. sheet & main switches etc. on it, fixed on wall by means of suitable size of rag bolts with cement concrete, duly painted with three coats of approved paint including one coat of red oxide. (i) Size 40mmx40mmx6mm	Rate to be quoted by the Contractor	Per mtr.
2.	01 sqm	Supply and erection of 3mm thick mild steel sheet duly welded on existing M/S. angle iron frame for fixing the main switches etc. as required, duly painted with three coats of approved paint including one coat of red oxide.	Rate to be quoted by the Contractor	Per sqm
3.	10 nos. 02 nos. 01 no.	Miniature Circuit Breaker and Isolator: Supply and erection of miniature circuit breaker/isolater 240/415 V in the existing distribution board including making necessary connections:- (a) Miniature Circuit Breakers of 9 K.A. breaking capacity. (i) 6 amp. to 32 amp. (SP) (ii) 6 amp. to 32 amp. (SPN) (iii) 40 amp. to 63 amp.(TPN)	Rate to be quoted by the Contractor	Each Each Each
4.	6 nos. 8 nos.	Supply and erection of fittings and accessories. (i) Bakelite angle/straight button holder large size (ii) Supply and erection of hexagonal M.S. box 1.60 mm thick having each side 8 cms, 7.5 cms deep, top covered with M.S. lid by means of screws including 10mm dia 30 cm long mild steel rod made into suitable suspension hook and erected in R.C.C. slab for erection of fan, the bottom covered with 3 mm thick Bakelite sheet with suitable holes, painting etc. complete with all labour and material required to complete the job.	Rate to be quoted by the Contractor	Each Each

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
5.	05 mtr.	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required:- (i) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness on surface	Rate to be quoted by the Contractor	Per mtr.
	05 mtr.	(ii) Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness on surface		Per mtr.
	40 mtr.	(iii) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed		Per mtr.
	40 mtr.	(iv) Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed		Per mtr.
	05 mtr.	(v) Supply and erection of PVC pipe of 6 kg. pressure, laid 1 metre below ground level complete, including digging refilling of the trench with jointing etc:- PVC pipe 65 mm dia		Per mtr.
6.	3 nos.	(i) Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	Rate to be quoted by the Contractor	Each
	20 mtr.	(ii) Providing and laying earth connections from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode as required.		Per mtr.
	10 mtr.	(iii) Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.		Per mtr.
7.	30 mtr.	Supply and erection of underground cable 1 metre below ground level covered with sand and bricks including necessary connections, digging and refilling of trenches:- (i) 10 Sqmm 2 Core Cable (Armoured)	Rate to be quoted by the Contractor	Per mtr.
	30 mtr.	(ii) 25 Sqmm 4 Core Cable (Armoured)		Per mtr.

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
8.	30 mtr.	Supply & erection of underground cable, loose in existing pipe or trenches complete with necessary connections:- (i) 10 Sqmm 2 Core Cable (Armoured)	Rate to be quoted by the Contractor	Per mtr.
	30 mtr.	(ii) 25 Sqmm 4 Core Cable (Armoured)		Per mtr.
9.	2 nos.	Supply and erection of suitable compression type brass cable glands for underground Cable:- (i) 10 Sqmm to 16 Sqmm Cable 2 to 4 Core	Rate to be quoted by the Contractor	Each
	1 nos.	(ii) 25 Sqmm to 50 Sqmm Cable 2 to 4 Core		Each
10.	24 nos.	Wiring for light point, fan point, exhaust fan point, call bell point, light plug point with 1.5 mm ² F.R. PVC insulated copper conductor single core cable, recessed steel conduit with modular switch 6 amp., modular socket 5 pin 6 amp. with modular base cover & plate, G.I. Box and earthing the 3 rd pin with copper conductor single core as required and complete points in all respect (after 10 mtr. wire and steel conduit pipe paid extra). (a) Short Point upto 3 meter	Rate to be quoted by the Contractor	Each
	24 nos.	(b) Medium Point upto 6 meter		Each
	20 nos.	(c) Long point upto 10 meter		Each
11.	2 nos.	Wiring for power plug points with 4 mm ² F.R. PVC insulated copper conductor single core cable, recessed steel conduit with earthing the 3 rd pin with F.R. PVC copper conductor cable 4 mm ² including required size of G.I. Box with 6 pin 16 amp. modular switch 16 amp., modular socket with base cover & plate complete in all respect (after 10 mtr. wire and steel conduit pipe paid extra). (a) Short Point upto 3 meter	Rate to be quoted by the Contractor	Each
	4 nos.	(b) Medium Point upto 6 meter		Each
	4 nos.	(c) Long point upto 10 meter		Each

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
12.	250 mtr. 300 mtr. 50 mtr.	Wiring for circuit/submain with the following sizes of F.R.PVC insulated copper conductor single core cable in existing conduit pipe with necessary connection:- (i) 1.5 Sqmm (ii) 2.5 Sqmm (iii) 4 Sqmm	Rate to be quoted by the Contractor	Per mtr. Per mtr. Per mtr.
13.	1 no. 1 no.	Supply and erection of double door sheet steel enclosure distribution board suitable for MCBs and ELCBs etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect upto to the entire satisfaction of the Engineer-in-charge of the work. (i) 8-way, SP&N (Horizontal) (ii) 8-way, TP&N (Horizontal) (8+24)	Rate to be quoted by the Contractor	Each Each
14.	1 no. 1 no.	Supply and erection double pole/Four pole Residual current circuit breaker (RCCB/ELCB) suitable for operation on 240/415 V, 5Hz, AC, supply installed in existing sheet steel enclosures including making necessary connections and bonding to earth with all labour and material required to complete the job in all respect upto the entire satisfaction of Engineer-in-Charge of the work. (i) 25A/240V DP ELCB with 30mA sensitivity. (ii) 63A/415V FP ELCB with 30mA sensitivity.	Rate to be quoted by the Contractor	Each Each
15.	04 nos.	Supply and fixing exhaust fan 380 mm (15") dia heavy duty Orient make complete with louver shutter and petty material required to complete the work upto the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
16.	21 nos.	Supply and erection of 1 x 28 watt tube fitting with tube road Philips make TMS 122 M, 1 X TL- 528 watt EBT, including connections and other petty material material required to complete the work upto the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each

DETAILED NOTICE INVITING TENDER

Name the work :- “Construction of Boundary Wall, Retaining Wall, Garage, and Guest Room Block at Holiday Home for MDU at at Dhana Chuli, Nainital(Uttarakhand), (including E.I.)”

App. Amt. Rs. 52,00,000/-
Earnest Money Rs. 52,000/- / 1,04,000/-
Time Limit: 6 Months

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
1.	100 cum	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil	Rate to be quoted by the Contractor	Per cum
2.	40 cum	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)	Rate to be quoted by the Contractor	Per cum
3.	75 cum	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Rate to be quoted by the Contractor	Per cum
4.	75 sqm	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	Rate to be quoted by the Contractor	Per sqm

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Sr. No.	Qty.	Description	Rate (Rs.)	Unit
5.	10 cum	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 : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Rate to be quoted by the Contractor	Per cum
6.	40 cum	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. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Rate to be quoted by the Contractor	Per cum
7.	10 cum	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 up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Rate to be quoted by the Contractor	Per cum
8.	50 sqm 350 sqm 50 sqm 50 sqm 100 sqm	Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete Suspended floors, roofs, landings, balconies and access platform Shelves (Cast in situ) 5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers Columns, Pillars, Piers, Abutments, Posts and Struts	Rate to be quoted by the Contractor	Per sqm Per sqm Per sqm Per sqm Per sqm

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
9.	82 cum	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Rate to be quoted by the Contractor	Per cum
10.	175 cum	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)	Rate to be quoted by the Contractor	Per cum
11.	1.50 cum	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	Rate to be quoted by the Contractor	Per cum
12.	02 cum	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with : Hollock wood	Rate to be quoted by the Contractor	Per cum
13.	200 sqm	Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface. 25 mm thick	Rate to be quoted by the Contractor	Per sqm
14.	90 sqm	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	Rate to be quoted by the Contractor	Per sqm

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
15.	65 sqm	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1 st 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), including grouting the joints with white cement and matching pigments etc., complete.	Rate to be quoted by the Contractor	Per sqm
16.	85 sqm	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 liter 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.	Rate to be quoted by the Contractor	Per sqm
17.	210 sqm	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	Rate to be quoted by the Contractor	Per sqm
18.	82 sqm	Half brick masonry 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. Cement mortar 1:4 (1 cement :4 coarse sand)	Rate to be quoted by the Contractor	Per sqm
19.	250 sqm	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	Rate to be quoted by the Contractor	Per sqm

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
		Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 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.		
20.	7000 kg	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Cold twisted bars	Rate to be quoted by the Contractor	Per kg
21.	200 kg	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Rate to be quoted by the Contractor	Per kg
22.	60 sqm	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover	Rate to be quoted by the Contractor	Per sqm

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
23.	250 sqm	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	Rate to be quoted by the Contractor	Per sqm
24.	800 sqm	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	Rate to be quoted by the Contractor	Per sqm
25.	1000 sqm	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Rate to be quoted by the Contractor	Per sqm
26.	20 sqm	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Rate to be quoted by the Contractor	Per sqm
27.	08 sqm	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge. 30 mm thick shutters	Rate to be quoted by the Contractor	Per sqm
28.	15 sqm	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws : Kiln seasoned and chemically treated hollock wood	Rate to be quoted by the Contractor	Per sqm
29.	10 sqm	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	Rate to be quoted by the Contractor	Per sqm

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
30.	16 sqm	Providing and fixing to existing door frames. 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 (± 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 (± 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.	Rate to be quoted by the Contractor	Per sqm
31.	06 Nos.	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, leaving 10 mm gap for thermal expansion. 110 mm bend	Rate to be quoted by the Contractor	Each
32.	25 mtrs.	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	Rate to be quoted by the Contractor	Per mtr.
33.	16 Nos.	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 250x16 mm	Rate to be quoted by the Contractor	Each
34.	200 sqm	Applying priming coat : With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Rate to be quoted by the Contractor	Per sqm

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
35.	250 sqm	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Rate to be quoted by the Contractor	Per sqm
36.	400 sqm	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	Rate to be quoted by the Contractor	Per sqm
37.	150 sqm	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), including pointing the joints with white cement and matching pigment etc., complete.	Rate to be quoted by the Contractor	Per sqm
38.	390 sqm	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Rate to be quoted by the Contractor	Per sqm
39.	02 Nos.	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, 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 : W.C. pan with ISI marked white solid plastic seat and lid	Rate to be quoted by the Contractor	Each
40.		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	Rate to be quoted by the Contractor	

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
	02 Nos.	walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests		Each
41.	105 mtrs.	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. 75 mm diameter	Rate to be quoted by the Contractor	Per mtr.
	105 mtrs.	110 mm diameter		Per mtr.
42.	90 mtrs.	18.10 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 15 mm dia nominal bore	Rate to be quoted by the Contractor	Per mtr.
	140 mtrs.	20 mm dia nominal bore		Per mtr.
	50 mtrs.	25 mm dia nominal bore		Per mtr.
43.	10 Nos.	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 : White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Rate to be quoted by the Contractor	Each
44.		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass	Rate to be quoted by the Contractor	

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
	01 No.	including painting of fittings and cutting and making good the walls and floors wherever required : Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern		Each
45.	36 Nos.	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore 15mm nominal bore	Rate to be quoted by the Contractor	Each
46.	04 Nos.	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	Rate to be quoted by the Contractor	Each
47.	14 Nos.	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	Rate to be quoted by the Contractor	Each
48.	10 Nos.	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Rate to be quoted by the Contractor	Each
49.	5 Nos. 6 Nos. 2 Nos.	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 15 mm nominal bore 20 mm nominal bore 25 mm nominal bore	Rate to be quoted by the Contractor	Each Each Each
50.	4 Nos. 2 Nos.	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore 25 mm nominal bore	Rate to be quoted by the Contractor	Each Each
51.	40 Nos.	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	Rate to be quoted by the Contractor	Each

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
52.	13 Nos.	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete Semi rigid pipe 32 mm dia	Rate to be quoted by the Contractor	Each
53.	60 Nos.	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately) : 150 mm diameter	Rate to be quoted by the Contractor	Each
54.	08 nos.	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 : 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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Rate to be quoted by the Contractor	Each
55.	10 Nos.	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.	Rate to be quoted by the Contractor	Each

Sr. No.	Qty.	Description	Rate (Rs.)	Unit
56.	02 Nos.	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated alluminium rod with L.P./ H.P.H.D. plastic ball 20 mm nominal bore, 120 mm long, weighing not less than 198 gms	Rate to be quoted by the Contractor	Each
57.	100 cum	Supplying and filling of good earth under floors complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Per cum
58.	43 sqm	Cost of alluminium fitting doors and windows such as handle, tower bolt etc. best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Per sqm
59.	200 sqm	Providing and fixing alluminium sheet 3 mm thick with screw, nails etc. best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Per sqm
60.	04 Nos.	Providing and fixing in position C.P. Shower with revolving joints best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
61.	04 Nos.	Providing and fixing C.P. brass towel rod 600 mm long best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
62.	10 Nos.	Providing and fixing C.P. brass towel ring best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
63.	02 Nos.	Providing and fixing PVC water tank 2000 liters capacity single layer best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
64.	04 Nos.	Providing and fixing electric water heater 50 liters capacity of copper tank best quality ISI make complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
65.	02 Nos.	Providing and fixing C.P. Jet heavy duty with pipe complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each
66.	15 Nos.	Providing and fixing C.P. Jali heavy duty 100 mm dia complete to the entire satisfaction of Engineer-in-Charge.	Rate to be quoted by the Contractor	Each