



MAHARSHI DAYANAND UNIVERSITY ROHTAK

(A State University established under Haryana Act No. 25 of 1975)

NAAC accredited 'A' Grade

NOTICE INVITING TENDER

Sealed tenders on item basis are re-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 5.00 P.M. on dated 29.12.2014 as mentioned against work. The sealed tenders will be received up to 2:00 P.M. in the office of the Registrar and opened at 3:00 P.M. on the next day (30.12.2014) in the Committee Room of Registrar 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.)	Last Date of sale of tender	Date of opening of tender	Time limit
			Society	Contractor				
1.	Construction of 36 nos. flats (equivalent to Type-IA Houses) including PH & E.I	4,67,00,000/-	4,67,000/-	9,43,000/-	15,000/-	29.12.2014	30.12.2014	18 months
2.	Construction of 12 nos. Faculty flats (equivalent to Type-III Houses) including PH & E.I	2,75,00,000/-	2,75,000/-	5,50,000/-	15,000/-	29.12.2014	30.12.2014	15 months
3.	Construction of Boys Hostel for 300 students including PH & E.I.	12,50,00,000/-	12,50,000/-	25,00,000/-	20,000/-	29.12.2014	30.12.2014	18 months
4.	Construction of Campus Boundary Wall towards Railway Line side	1,60,00,000/-	1,60,000/-	3,20,000/-	15,000/-	29.12.2014	30.12.2014	12 months
5.	Construction of 1 st floor building and renovation of ground floor for Visual Arts Department in the Transport Office premises including PH & E.I	1,86,00,000/-	1,86,000/-	3,72,000/-	15,000/-	29.12.2014	30.12.2014	12 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 construction works during last 5 years (financial year 2009-10 to 2013-14) 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 with stamp.

4. In case tendering receiving / opening day happens to be a holiday, the tenders will be received / opened on next working day at the same time.
5. Validity of tender will be 90 days.
6. Earnest money may be deposited at the time of purchase of the tender or with the sealed tenders. It should be in the shape of Demand Draft in favour of the Executive Engineer, MDU, Rohtak payable at Rohtak. The tenders without earnest money will not be entertained.
7. Contractors shall quote the rate of all items of DNIT separately. The N.S. item rates are to be quoted separately. The tender without item wise rate in DNIT, will be rejected.
8. The rates should be quoted in words as well as in figures and cello tape shall be pasted on the rates quoted by the firm.
9. Conditional tender is liable to be rejected.
10. Any work, here tendered, may be withdrawn from further processing at any stage at the discretion of the competent authority without assigning any reason.
11. 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.
12. Nothing extra whatsoever shall be paid on account of losses, damages done by rains or any other natural calamity.
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. Tender by post / telegraphic/courier shall out rightly be rejected.
16. Exemption of tender fee or earnest money or security will not be permitted in any case.
17. The tender is liable to be rejected if the tender is found in variance of the above conditions or the conditions of the DNIT.

Executive Engineer

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. P.A. to Vice-Chancellor (for kind information of the Vice-Chancellor), M. D. University, Rohtak
6. P.A. to Registrar (for kind information of the Registrar), MDU, Rohtak
7. Divisional Accountant, Engg. Cell, MDU, Rohtak
8. SDE(C-I, II, III) / SDE (Elect.) / SDE (PH) / SDE (Horti.-I, II), MDU, Rohtak
9. H.D.M., Engineering Cell, MDU, Rohtak
10. Notice Board
11. Contractor/Agency/Society: _____

Executive Engineer

DETAILED NOTICE INVITING TENDER

NAME OF THE WORK:- "CONSTRUCTION OF 36 NOS. FLATS (EQUIVALENT TO TYPE-IA HOUSES) INCLUDING PH & E.I."

App. Amount. Rs. 4.67 crore

Earnest Money Rs. 4,67,000/- / Rs. 9,34,000/-

Time Limit: 18 months

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
A. CIVIL WORK					
EARTH WORK					
1	6.6	Earth work in excavation in foundations, trenches, etc in all kinds of soils, not exceeding 2 mtr depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 mtr.	1016.33	%Cum	
2	6.13/ a	Earth filling under floors with surplus ordinary soil or soil containing gravel or kankar upto 40% excavated from foundation and taken only from outside the building plinth in 15cm layers including ramming, watering and consolidating lead upto 30 mtrs.	571.61	% Cum	
3	6.15(a) (i)	Antitermite Treatment (using Aldrin) (a) Pre-construction Work Providing and injection chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filing junction of wall and floor, along with the external perimetre of building, expansion joints surrounding of pipes and conduite etc, complete (plinth area of the building at ground floor only shall be measured) Aldrin Emulsifiable concentrate (0.5%)	1126.32	Sqm	
CEMENT CONCRETE					
4	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	163.15	Cum	
5	10.90	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestals and approach slabs of bridges etc, excluding steel reinforcement but including centring and shuttering, laid in position, complete in all respects.(For work upto 1.5 metres below ground level).	283.98	Cum	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
6	10.86	Cement concrete 1 : 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, griders, stairs, columns,(Square or rectangular) battens and lintels etc. excuding steel reinforcement but including centering and shuttering, laid in position, complete in all respects. Ground floor First floor Second floor Third Floor	140.88 142.81 103.46 25.62	Cum Cum Cum Cum	
7	10.82	Cement concrete 1: 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work in slabs with inculcation not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects. Ground floor First floor Second floor Third Floor & Mumty	146.61 146.61 146.61 31.85	Cum Cum Cum Cum	
8	10.81	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in shelves excluding steel-reinforcement but including centering and shuttering, laid in position complete in all respects.	31.82	Cum	
9	10.89	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in fascias parapets and other thin vertical sections, not covered by Item Nos. 10.82, 10.86 to 10.88 not exceeding 10 cm thickness excluding steel reinforcement but including centring and shuttering, laid in position, complete in all respects	21.38	Cum	
10	10.95	Extra over Item Nos. 10.79 to 10.94, if 1:1 ½:3 mix is used, instead of 1:2:4	1221.62	Cum	
11	18.22	STEEL REINFORCEMENT Cold twisted deformed (ribbed/tor steel) bars for RCC works, where not included in the complete rate of RCC including bending, binding and placing in position complete.	1649.18	Qtl	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
BRICK WORK					
12	11.2	First Class Brick work Laid in Cement Sand Mortar 1:6 In Foundation & Plinth (including duct wall)	313.96	Cum	
13	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meters above plinth level.	920.93	Cum	
14	11.46	11.43cm thick brick wall with every fourth course, reinforced with hoop-iron, laid in 1 : 4 cement sand mortar in super- structure	2356.47	Sqm	
FLOORING					
15	14.1	Base course of floors consisting of 100 mm thick cement concrete 1 : 8 : 16 and 100 mm sand or stone filling	917.28	Sqm	
16	14.4	Screed of 50mm thick cement concrete 1:8:16 to be laid below the floor topping	2001.82	Sqm	
17	14.91	Providing and fixing ceramic tiles/anti skid tiles of size 400mmx400mm or above size of approved make in flooring, laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of tile. Note: Tiles shall be premium quality (first quality) of reputed manufacturer like NITCO, KAJARIA,SOMANI,ORIENT & JOHNSON'S.	290.51	Sqm	
18	14.89	Providing and fixing viterified tiles size 600x600mm of approved make in flooring laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK	2215.00	Sqm	
19	14.90	Providing and fixing viterified tiles size 600x600mm of approved in skirting/dado laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK	310.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
20	14.92	Providing and fixing Ist quality ceramic glazed wall tiles confirming to I.S. 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, riser of steps and dados over 12mm thick bed of cement mortar 1 : 3 coarse and jointed with grey cement slurry, including pointing in white cement mixed with pigment of matching shades complete.			
	a)	Size of ceramic glazed tile 200x300mm	1437.58	Sqm	
21	NS	Coloured Granite Stone tiles 20mm thick in skirting risers of steps, dado walls and pillars laid in 12.5mm thick cement mortar 1 : 3 (1 cement 3 coarse sand) and jointed with neat cement slurry mixed with pigment to match the shade of stone, including rubbing and polishing including labour for fixing dowel pins and cramps if required/ required.	686.00	Sqm	
22	14.49	Marble stone flooring 20mm to 25mm thick slab including matching grains of marble laid in any pattern as specified over base of 12 mm thick cement coarse sand mortar 1 : 3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing (using marble stone slab of size more than 3.38sqm each)			
	(c)	Green Marble			
		Ground floor	221.14	Sqm	
		First floor	153.10	Sqm	
		Second floor	153.10	Sqm	
		Third Floor	61.30	Sqm	
23	14.62	Kotah stone flooring 25mm thick in any pattern as specified over 20 mm thick base of cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing.	433.00	Sqm	
24	14.66	Kotah stone 20 mm thick in skirting risers of steps, dados and wall facing (lining) and pillars laid on 12 mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry, mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps, dowels and pins etc.	34.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
PLASTERING- FINISHING					
25	15.6	12mm thick cement plaster	8467.38	Sqm	
26	15.13	20 mm thick cement plaster 1: 2 in 2 coats work	5644.92	Sqm	
27	15.52	10mm thick cement plaster 1 : 4 under side of ceiling	3022.21	Sqm	
28	16.52	Preparation of plastered surfaces for Oil bound distemper including sand papering the surface, applying one coat of linseed oil, and filling with approved quality filler, consisting of white lead, linbseed oil, varnish amd chalk mittin including finishing the surface to the required finish complete.	15459.02	Sqm	
29	16.57	Distempering with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.	15459.02	Sqm	
30	16.61	Finishing walls with exterior decorative cement based paints such as snowcem, Robbiacem etc. on new work, two coats to give an even shade.	5026.48	Sqm	
31	16.24	Preparation of plastered or concrete surfaces for painting, including sand papering the surface, applying one coat of linseed oil and filling with approved quality filler, consisting of white lead, linseed oil, varnish and chalk mitti including finishing surface to the required finish, complete.	5026.48	Sqm	
ROOFING -WATER PROOFING					
32	13.13	Terracing consisting of tiles 22.86 cm x 11.43 cm x 3.81 cm laid over 87.50 mm mud filling on a layer of 25mm mud plaster and an other layer of mud mortar for laying he tiles, including two coats of bitumen laid hot at 1.65 kg per sqm on top of R.C.C. slab including grouting with cement sand mortar 1 : 3 and top surface to be left clean etc.	972.35	Sqm	
33	15.71	Cement pointing 1:2 flush on flat brick flooring / tile terracing.	972.35	Sqm	
34	13.89 b)	Providing and fixing PVC rain water pipe 6Kg. Pressure of ISI mark in cement mortar during masonry work.			

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		150mm dia PVC bend	858.30	Mtr	
35	13.90 b)	Providng and fixing PVC bend ISI marked 150mm dia PVC bend	30.00	Each	
36	13.50	Top khurra 0.6 m x 0.6 m for rain water pipe in 25 mm thick cement concrete 1:2:4 over 50 mm thick cement concrete 1:8:16	30.00	Each	
37	13.57	Bottom khurra on ground 1:2 m X 0.6 m consisting of brick-on-edge laid in cement mortar 1:3 over 75 mm cement concrete 1:8:16 including 12 mm thick cement plaster 1:3	24.00	Each	
38	13.64	Cement concrete 1:2:4 gola 10cm x 10cm quadrant along junction of roof with parapet wall finished smooth, where specially specified.	332.55	Mtr	
39	15.76	12mm thick cement plaster damp proof couse 1:3 with 2 coats of bitumen at 1.65 Kg per Sqm laid hot and sanded:- Horizontal	409.39	sqm	
40	18.34	Pressed steel sheet frames (Chowkats) consisting of 2 mm thick steel sheet of the specified section, including iron lugs (hold fasts), iron hinges, conforming to P.W.D . Specifications, including bolts for fixing stops,, locknotch, provision for receiving tower bolts, and finished with one coat of ready-mixed paint red lead non-setting primer, of approved quality, fixed in position including the coat of cemnet concrete 1 : 3 : 6, for filling in the frame, and cement concrete 1 : 3 : 6 for lugs complete: -			
	a)	Door and window frame size 89mm x 50mm with 40mm wide single rebate.	842.64	Mtr	
	b)	Door and window frame of size 76 mm x 38 mm with 35 mm wide single rebate	725.00	Mtr	
	c)	Door and window frame size 127mm x 50mm with 40mm wide double rebate.	1324.51	Mtr	
41	17.93	Factory manufacture solid flush door shutter with block board core as per I.S. no. 1659-1969 bonded with water proof type phenol formaldehyde synthetic resin hot pressed conforming to IS 2202 part-I and part II, fixed in position, including iron hinges, screws, chocks/cleats and stops etc (excluding the cost of any fittings other than specified above , but including labour for fixing the same in position)			
	a)	commercial veneering with vertical grains or cross bands and face veneer on both sides commercial facing with laminated core and lipped edges: 35 mm thick	792.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
42	17.90	Factory manufactured panelled door or glazed window, shutters of commercial hard wood, such as hollock, champ, chikrassy and chaplash, etc., (non-coniferous timber other than teak, conforming to I.S. specification No.1003, kiln-seasoned), with 100 mm wide verticle styles, 150 mm wide lock rail, 200 mm wide bottom rail and 100 mm wide other rails, with panels of 15 mm thick, tongued and grooved of commercial hard wood and including cost of iron hinges, screws, chocks / cleats, stops, nails etc., complete, fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position).			
	a)	30mm thick	518.91	Sqm	
43	17.72	Cost of aluminium fittings complete for doors and windows, such as tower bolts, handles, etc., and screws for these fittings (excluding sliding bolt)			
	b)	Double leaf Door & window	786.72	Sqm	
	a)	for single leaf shutter	524.48	Sqm	
44	17.32	Cupboard shutters of commercial hard wood such as hollock, champ, chikrasy and chaplash etc., (non-coniferous timber other than teak conforming to I.S. specification no.1003, kiln seasoned) excluding chowkat but with commercial plywood panels or faced on one side including iron hinges and screws fixed in position (excluding the cost of handles, tower bolts, hasp with stample, but including the labour for fixing the same.			
	b)	25 mm thick	227.00	Sqm	
45	17.83	Providing and fixing sliding bolt with nuts and screws, etc, complete-			
	ii)	Size 250mm x 16mm	324.00	Each	
46	17.73	Providing and fixing six-levers brass 10 cm mortice latch and lock, and a pair of lever handles with necessary screws, etc., complete (Indian make of reputed firm, such as Godrej or equivalent)	120.00	Each	
47	17.79	Providing and fixing helical door spring 150 mm (superior quality) including necessary screws, complete.			
	b)	Iron	192.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
48	17.92	Factory manufactured wire gauze door and window shutters of commercial hard wood such as hollock, champ, chikrassy and chaplash,etc.,(non-coniferous timber other teak,conforming to I.S.specification No.1003, kiln-seasoned),with 100 mm wide verticle styles, 150 mm wide lock rail, 200 mm wide bottom rail, and wire gauze of 140G or 120G designation including cost of iron hinges, screws,chocks/cleats,stops nail etc.,complete fixed in position (excluding the cost of any fittings,other than specified above,but including labour for fixing the same in position)- (style and rails of windows shutter shall be 75 mm wide)			
	i)	30 mm thick	475.00	Sqm	
	ii)	35 mm thick	350.00	Sqm	
49	17.75	Providing and fixing 150mm floor brass door stoppers, with rubber cushion, screws, etc, to suit shutter thickness complete -	480.00	Each	
50	18.12	Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders, grills, grating frames, window guards, iron doors open able or fixed stair case or parapet or any other type of railing, gates and tree guards etc., including cost of screws and welding rods or bolts and nuts complete fixed in position.	123.86	Qtl	
51	18.11	Iron-grated doors, including pintle hinges and arrangements	90.72	Qtl	
PAINTING - POLISHING					
52	16.10	Applying priming coat on steel work consisting of genuine red lead mixed with linseed oil and turpentine oil in equal proportions.	2690.06	Sqm	
53	16.17	Painting two coats excluding priming coat with ready-mixed paint for metallic surfaces in all shades on new steel or iron work.	2690.06	Sqm	
54	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface, knotting and stopping, etc.	5010.00	Sqm	
55	16.3	Painting two coats excluding priming coat with synthetic enamel paint in all shades on new wood work or matallic or plastered or concrete surfaces to give an even shade.	5010.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
56	18.13 / a)	Stair case railing of 40mm internal dia G.I. pipe class 'B' as per I.S. No. 1239 as hard rail using flats and square bars as supporting members and base plate welded as per design specified including cutting, welding rods and complete fixed in position.	18.68	Qtl	
	b)	Parapet railing of 40 mm internal dia G.I. Pipe class 'B' as per I.S. No.1239 as hand rail using flats and square bars as supporting members and base plate welded as per design specified including cutting, welding rods and fixed in position complete in all respect.	27.14	Qtl	
B		PUBLIC HEALTH			
		SANITARY INSTALLATION			
57	30.84	Providing and fixing in position HCI soil waste vent or antisiphonage pipes to ISI specification of E.L.C. manufacture or of any other reputed firm including cutting and wastage etc. and cutting holes in walls, roofs or floor etc. and making good to its original condition but excluding cost of lead jointing.			
	a)	100mm internal diameter	492.00	Mtr	
	b)	75mm internal diameter	996.00	Mtr	
58	30.87	Providing lead caulked joints to HCI pipes and specials conforming to ISI specification of E.L.C. manufacture or any other reputed firm including cost of lead yarn, fuel and tools etc.			
	a)	100mm internal diameter (1.13kg)	480.00	Each	
	b)	75mm internal diameter (0.91 kg)	924.00	Each	
59	30.88	Providing and fixing in position M.S. or heavy flat iron clamps made out of M.S. flat not less than 5mm of the approved design for fixing C.I. Soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting.			
	a)	For 100mm internal diameter pipes.	156.00	Each	
	b)	For 75mm internal diameter pipes.	192.00	Each	
60	30.89	Providing and fixing HCI floor trap ISI marked of the self cleaning design with CP brass hinged grating with frame with or without vent arm and including cement concrete 1:2:4 under and around the floor trap where required upto floor level complete in all respects including cutting and making good the walls and floors etc. minimum depth of water should be 150 mm with a minimum seal of 50mm.			

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		b) with 75mm i/d out let	276.00	Each	
61	30.91	Providing and fixing in position HCI specials for soil, waste, vent or anti-syphonage pipes to ISI marked including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead jointing.			
	a)	For 100mm I/D pipes			
	I)	Heal rest bend.	96.00	Each	
	iv)	Single junction with door 100mm x 100mm x 100mm	48.00	Each	
	xvi)	Cowls	24.00	Each	
	xvii)	Door piece	12.00	Each	
	xxii)	Collars	24.00	Each	
	b)	For 75mm I/D pipes.			
	xviii)	Collars	24.00	Each	
	iv)	Single junction with door 75mmx75mm x75mm	120.00	Each	
	xvii)	Cowls	60.00	Each	
	i)	Heal rest bend	60.00	Each	
62	NS	Providing and fixing in position high quality ISI marked Indian make white vitreous chinaware European water closet suite P or S - trap including one no. superior quality white solid plastic seat and lid (seat cover) 8 Litre capacity PVC low level cistren, 40 mm size, CP brass flush bend and coupling of approved municipal design including cutting and making good the walls and floors with cement concrete 1:2:4 wherever required complete.	72.00	Each	
63	NS	Providing and fixing CP brass spray jet for EWC including CP brass hexa nipple etc.	72	Each	
64	30.41	Providing and fixing in position best indian make (Ordinary) lavatory suites consisting of			
	(a)	White			
	(iv)	Size 550mm x 450mm with one no. tap	72.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
65	NS	Providing and fixing in position best quality stainless steel sink built in draining board of size 600mm x 450mm complete as described in item no. 30.53 above	36.00	Each	
66	30.71	Providing and fixing in position best Indian make bevelled edge 5.5mm thick mirror mounted on asbestos sheet ground fixed in position by means of 4 nos chromium plated brass screws & washers over rubber washers and rawl plug embedded in the wall or chromium plated brass clamps with C.P. brass screws (as required by the Engineer-in-charge) complete including cutting and making good the walls etc.			
	a)	Indian make			
	ii)	600 mm x 450 mm	72.00	Each	
67	30.68	providing and fixing in position best indian make towel rail fixing in with rwls lugs embedded in wall with c.p brass scerws, complete in all respect including cutting and making good the walls etc.			
	b	20mm dia C.P brass adjustable towel ring	72.00	Each	
	e	C.P brass towel ring	36.00	Each	
68	30.77	Providing and fixing CP brass liquid soap container of best quality complete	72.00	Each	
69	NS	Providing and fixing in position high quality heavy pattern CP brass (concealed) stop cock of standard design and of approved make conforming to IS:8931			
	i)	15 mm nominal bore	144.00	Each	
70	NS	Providing and fixing in position approved make PVC pipe connections 375mm long with CP brass nuts and rubber washers complete	144.00	Each	
71	30.114	Providing and fixing in position gully traps fixed in cement concrete 1:4:8 complete with H.C.I. Grating 150mm x 150mm cast iron cover weighing approximately 7.26 kg frame clear opening 399mm x 300mm and outside size 330mm x 330mm and chamber including cost of all brick work in cement mortar 1:5 cement concrete 1:8:16 in foundations and cement concrete 1:2:4 in coping around C.I. cover and frame superior paint of approved manufacture on all C.I. work as per standard design, minimum depth of water should be 150mm with a minimum seal 50mm.			
	d)	150mm internal diameter HCI gully trap.	60.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
72	29.84	Constructing brick masonry inspection chamber size as given below upto 0.60 metre average depth in cement mortar 1:5 lime concrete with 40 percent lime mortar 2:3 in foundation cement concrete 1:2:4 benching 12mm thick cement plaster 1:2 with a floating coat of 1mm thick of neat cement RCC 1:2:4 slab 100mm thick /C.C. topping 50mm thick with 455 mm x455mm /455mm x 610mm inside light duty C.I. inspection chamber cover and frame weight as per ISI specifications painted with 3 coats of black bitumastic superior paint complete as per standard design.			
	c)	Size 600 x 900mm inside (with 455m x455mm cover and frame light duty single seal weighing 20 kgs with RCC slab)	36.00	Each	
73	29.85 (C)	Extra for every 0.30 mtr depth of Inspection Chamber 600x900mm	36.00	Each	
74	NS	Providing and fixing GI pipe complete with GI fittings and clamps including cutting and making good the wall etc. complete to the entire satisfaction of the Engineer-in-Charge.			
	ii)	32 mm dia nominal bore	72.00	Mtr	
	iii)	25 mm dia nominal bore	72.00	Mtr	
	iv)	20 mm dia nominal bore	1728.00	Mtr	
	v)	15 mm dia nominal bore	396.00	Mtr	
75	NS	Providing and fixing in position 15 mm internal diameter CP brass bib cocks of high quality ad conforming to IS specifications with CP brass cap complete to the entire satisfaction of the Engineer-in-Charge.			
	i)	15 mm nominal bore short body	72.00	Nos	
	ii)	15 mm nominal bore long body	216.00	Nos	
76	30.119	Providing and fixing HDPE water storage tanks of Sintex , Diplast, O.K. make with covers/lids marked with IS: 12701 on roof top of buildings including cost of hoisting and placing in position, making connection with inlet and outlet pipes, providing overflow & scour provisions with suitable plug on scour pipe including cost of nipples, washers, flanges for connections in tanks complete in all respects to the satisfaction of Engineer-in-Charge. (except civil work)			
	e)	1000 ltr. capacity	36.00	Nos	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
77	NS	Providing and fixing in position heavy pattern gun metal peet valve ISI marked with hand wheels, on GI pipe lines laid in ground or inside building as per approved drawings, specifications complete to the entire satisfaction of the Engineer-in-Charge.			
	ii)	32mm dia nominal bore	36.00	Nos	
	iv)	20mm nominal bore	36.00	Nos	
78	NS	Providing and fixing GI union in GI pipe including cutting and threading the pipe and making ling screws etc. complete to the entire satisfaction of the Engineer-in-Charge.			
	ii)	32mm dia nominal bore	24.00	Nos	
	iii)	25mm dia nominal bore	24.00	Nos	
79	30.110	Providing and fixing in position automatic brass ball valve in tanks complete to the entire satisfaction of the Engineer-in-Charge.			
	b)	With Plastic ball			
	iv)	32 mm dia nominal bore	36.00	Nos	
80	NS	Providing and fixing in position approved make CP brass stop cock with large size CP brass cap/flange complete to the entire satisfaction of the Engineer-in-Charge.			
	a)	15mm i/d angle valve	72.00	Nos	
81	NS	Providing and fixing shower complete to the entire satisfaction of the Engineer-in-Charge.	36.00	Nos	
C		ELECTRICAL			
82	31.12 (c)	Moulded case circuit breakers			
		Supply and erection of Moulded case circuit breakers on wall or on existing pedestal including bonding to earth and necessary connections :-			
	(i)	15 amp. To 60 amp . 415 V 10 K.A. 3 phase	37 mps/	Each	
	(iv)	300 amp. To 400 amp. 415 V 35 K.A. 3 phase	02 nos.	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
83	31.13	Supply and erection of M.S. angle iron frame duly welded for housing M.S. sheet & main switches etc. on it. 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.			
	(ii)	Size 40 mm x 40 mm x 6 mm	90 mtrs.	Mtr	
84	31.14	Supply and erection of 3 mm thick mild steel sheet duly welded on exiting 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	15 sqm	Sqm	
85	31.15	Supply and erection of sheet steel enclosure 2 pole/3 pole with earth plug and socket suitable for incorporating single pole/triple pole MCB on wall/on exiting pedestal complete with necessary connections etc :-			
	(ii)	S.P.N. enclosure for single pole MCB 20 amp.	NIL	-	
86	31.16	Supply and erection of blanking sheet in exiting distribution board.	144 nos.	Each	
87	31.17	Supply and erection of miniature circuit breaker/isolator 240/415 V in the existing distribution board including making necessary connections :-			
	(a)	Miniature Circuit Breakers of 9 K.A. breaking capacity			
	(ii)	6 amp. To 32 amp. SPMCB	504 nos.	Each	
	(iii)	40 amp. To 63 amp. TPNMCB	37 nos.	Each	
	(iii)	40 amp. To 63 amp. TPMCB	04 nos.	Each	
88	31.18 (M)	Supply and erection of Fittings and Accessories			
	(vii)	Call bell 220/230 Volts A.C. bakelite with double coil.	36 nos.	Each	
	xi)	Bakelite angle / straight button holder large size.	900 nos.	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		xxvi) 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 10 mm dia 30cm long mild steel rod made into suitable suspension hook and erected in RCC 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.	216 nos.	Each	
89	31.21	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required.			
		xxi) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	360 mtrs.	Mtr	
		xxii) Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed.	1100 mtrs.	Mtr	
		xxx) 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.			
		a) PVC pipe 120 mm dia	39 mtrs.	Mtr	
		b) PVC pipe 80 mm dia	50 mtrs.	Mtr	
90	31.22 i)	Earthing with G.I., earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top etc. as required.	74 nos.	Each	
		ii) Extra for using salt and charcoal/coke for pipe earth electrode as required.	74 nos.	Each	
		iv) Earthing with tinned copper earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) etc. complete as required.	04 nos.	Each	
		v) Extra for charcoal or coke and salt for GI plate or copper plate earth electrode.	04 nos.	Each	
		x) Providing and fixing 25 mm x 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode as required.	30 mtrs.	Mtr.	
		xiii) 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.	2000 mtrs.	Mtr.	
		xiv) Providing and fixing 25 mm x 5 mm copper strip on surface or in recess for connections etc. as required with all labour and material.	20 mtrs.	Mtr.	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
	xvii)	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	2000 mtrs.	Mtr.	
91	31.24 ii)	Excavation earth pit 180 cm round at top and 90 cm at bottom 4.5 metres deep and refilling the same in plains including supply of necessary charcoal / coke and salt mixture.	05 nos.	Each	
	iv)	Supply and erection of 60 cm x 60 cm x 6 mm thick galvanised iron plate including necessary bolts and nuts	05 nos.	Each	
	v)	Providing standard watering tank including down pipe and C.I. cover with locking arrangement etc.	05 nos.	Each	
	vi)	Providing and erection of 20 mm x 3 mm thick lighting conductor G.I. tape fixed with suitable G.I. staples of same size.	300 mtrs.	Mtr.	
	vii)	Supply and erection of G.I. tape 32 mm x 6 mm thick from earth electrode directly in ground and surface fixed with G.I. staples of same size.	300 mtrs.	Mtr.	
	viii)	Supply and erection of 25 mm dia-meter 1.5 metre long lighting G.I. tube rod tapered into a point at the top with 16 cm x 16 cm x 3 mm thick G.I. base plate and necessary nuts and bolts with washers.	05 nos.	Each	
	ix)	Providing and fixing testing jhoints made of 20 mm x 3 mm thick G.I. strips 125 mm long with 4 Nos. bolts and nuts with washers complete.	05 nos.	Each	
92	31.26	Supply and erection of under ground cable, loose in existing pipe or trenches complete with necessary connections.			
	xxxiii)	240 Sqmm 3.1/2 Core Cable (Armoured)	400 mtrs.	Mtr.	
	xl)	16 Sqmm 4 core cable (Armoured)	2000 mtrs.	Mtr.	
	xli)	25 Sqmm 4 core cable (Armoured)	25 mtrs.	Mtr.	
93	31.28	Supply and erection of suitable compression type brass cable glands for underground cable:-			
	ii)	10 Sqmm to 16 Sqmm Cable 2 to 4 Core	72 nos.	Each	
	iii)	25 Sqmm to 50 Sqmm Cable 2 to 4 Core	02 nos.	Each	
	vi)	240 Sqmm Cable 3 to 3.1/2 Core	02 nos.	Each	
94	31.35 ix)	Supply and erection of aluminium lugs heavy duty including crimping etc. upto the entire satisfaction of the Engineer-in-charge of the work.			

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		d) 16 Sqmm	1152 nos.	Each	
		e) 25 Sqmm	24 nos.	Each	
		j) 120 Sqmm	02 nos.	Each	
		m) 240 Sqmm	06 nos.	Each	
95	31.36	Wiring in 1.5 sqmm PVC insulated copper conductor cable in 1.6 mm thick conduit pipe.			
		i) Fan point			
		b) Medium point	60 nos.	Each	
		c) Long point	12 nos.	Each	
		ii) Light Point			
		a) Short Point	396 nos.	Each	
		b) Medium point	216 nos.	Each	
		c) Long point	216 nos.	Each	
		iii) Twin Control light point with 2 ways, 5 amp. Single pole switch.			
		b) Medium point	144 nos.	Each	
		c) Long point	144 nos.	Each	
		vi) Call bell point including MS box of size 180 mm x100 mm x 60 mm deep for call bell			
		c) Long point	72 nos.	Each	
		vii) 3-pin 5 amp plug point including earthing the 3rd pin etc.			
		a) Short Point	432 nos.	Each	
		b) Medium point	36 nos.	Each	
		c) Long point	72 nos.	Each	
		viii) 3-pin 15 amp plug point with 4 sqmm PVC insulated copper conductor cable including earthing the 3rd pin etc.			
		a) Short Point	72 nos.	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		b) Medium point	72 nos.	Each	
		c) Long point	360 nos.	Each	
96	31.40	Supply and erection of PVC unsheathed copper conductor cable single core 1100 Volts grade in pipe of suitable size excluding cost and erection of pipe.			
		i) Cable size 1.5 Sqmm (3/0.81mm)	1500 mtrs.	Mtr.	
		ii) Cable size 2.5 Sqmm (3/1.05mm)	7200 mtrs.	Mtr	
		iii) Cable size 4 sqmm (7/0.85 mm)	3000 mtrs.	Mtr	
		v) Cable size 10 sqmm (7/1.35 mm)	150 mtrs.	Mtr	
97	31.12 (d)	Supply and erection of sheet steel enclosure distribution board suitable for MCBs etc. on wall/exisiting board/pedestal with rag bolts including bonding to earth :-			
		v) Distribution board 6 way	72 nos.	Each	
98	31.42	Supply and erection doule pole/ Four pole Residual current circuit breaker (RCCB/ELCB) suitable for operation on 240/415 V, 5Hz. A.C. 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 the Engineer-in-charge of the work.			
		xv) 63A/415V FP ELCB with 30mA sensitivity.	72 nos.	Each	
99	31.44	Supply and erection of PVC conduit pipe ISI marked (medium) recessed in wall/ceiling etc. including cost of PVC bends, inspection box and all other material required to complete the job in all respect upto the entire satisfaction of Engineer-in-charge of work.			
		b) 25 mm dia	1500 nos.	Each	
100	31.45	Supply and erection of copper lugs including crimping etc. upto the entire satisfaction of Engineer-in-charge of the work.			
		a) 1.5 sqmm to 2.5 sqmm	1008 nos.	Each	
		b) 4 sqmm to 6 sqmm	1008 no.	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
	c)	10 sqmm	572 nos.	Each	
101	31.48	Supply and erection of MS saddles and clamps on wall/ RCC parapit for fixing underground cable at a distance of 0.60 metre centre to centre fixed by means of rawl plug including the cost of all labour and material required to complete the job in all respect.	1000 nos.	Each	
102	31.55	Supply and erection of socket size rotary step type Electronic regulator for A.C. ceiling fan Anchor make Deluxe model No. 50440 ISI/SSK make PC 561 operated on 120 / 280 V.A.C supply complete including cutting of existing bakelite sheet and making necessary connection etc. upto the entire satisfaction of the Engineer-in-charge of the work.	216 nos.	Each	
103	31.61	Supply and erection of street light luminer	04 nos.	Each	
	ii)	M.H. 150 watt shreet light.			
104	31.63	Supply installation testing & commissioning of wall free standing floor mounted etc. complete in all respect.	25 sqm	Sqm	
105	31.64	Supply and fixing of copper bus bar	160 kg.	Kg	
106	31.65	Providing and fixing difiting metering .	02 sets	Set	
107	31.68	providing and fixing 9 mtr long pole with top dia etc.	04 nos.	Each	
108	6.6	Earth work in excavation in foundations, trenches, etc.in all kinds of soils, not exceeding 2 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres	600 cum	%Cum	
109	10.26	Cement Concrete 1:8:16 with brick ballast 40mm nominal size in foundation and plinth.	25 cum	Cum	
110	11.4	First class brick laid in cement sand mortar 1:4 in foundation and plinth.	90 cum	Cum	
111	15.5	12 mm thick cement plaster 1:4	1000 sqm	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
112	NS	Supply of 3 phase 4 wire watt house meter 10-60 Amp services make in existing pannel with necessary connection approved in U.H.V.B.N. (H.S.E.B.)	37.00	Each	
113	NS	Cutting of road by machine / manual means for require of size of pipe.	60 mtrs.	Mtr.	
114	NS	Supply & filing river sand in existing pucca trenches.	200 cum	cum	
115	NS	Supply & erection of 1st class brick on existing cables in pucca trench	1200 nos.	Each	

Note:-

- 1 The underground cbale will be used of Havells/Polycabe make. No extra payment will be allowed on this account.
- 2 PVC pipe of 6 Kg. pressure Kasta/Swastik/Supreme make of HSR item no. 31.21 will be used if required. No extra payment will be allowed on this account.
- 3 The materials used for HSR item no. 31.12, 31.15, 31.17 and 31.41 will be used of Standard/Havells make if required and no extra payment will be allowed on this account.
- 4 PVC copper wire 31.38, 31.39 and 31.40 will be used of Havells/Polycable make if required and no extra payment will be allowed on this account.

DETAILED NOTICE INVITING TENDER

NAME OF THE WORK:- "CONSTRUCTION OF 12 NOS. FACULTY FLATS (EQUIVALENT TO TYPE-III HOUSES) INCLUDING PH & E.I. "

App. Amt. Rs. 2.75 crore

Earnest Money Rs. 2,75,000/-/Rs. 5,50,000/-

Time Limit: 15 months

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
A. PROPOSED EXTENSION AT GROUND FLOOR, FIRST FLOOR & SECOND FLOOR (CIVIL)					
A. CIVIL WORK					
EARTH WORK					
1	6.6	Earth work in excavation in foundations, trenches, etc in all kinds of soils, not exceeding 2 mtr depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 mtr.	568.04	%Cum	
2	6.13/ a	Earth filling under floors with surplus ordinary soil or soil containing gravel or kankar upto 40% excavated from foundation and taken only from outside the building plinth in 15cm layers including ramming, watering and consolidating lead upto 30 mtrs.	329.30	%Cum	
3	6.15(a) (i)	Antitermite Treatment (using Aldrin)			
		(a) Pre-construction Work			
		Providing and injection chemical emulsion for preconstructional antitermite treatment and creating a chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling junction of wall and floor, alongwith the external perimetre of building, expansion joints surrounding of pipes and conduite etc, complete (plinth area of the building at ground floor only shall be measured) Aldrin Emulsifiable concentrate (0.5%)	577.00	Sqm	
CEMENT CONCRETE					
4	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	62.47	Cum	
5	10.90	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestals and approach slabs of bridges etc, excluding steel reinforcement but including centring and shuttering, laid in position, complete in all respects.(For work upto 1.5 metres below ground level).	259.90	Cum	
6	10.86	Cement concrete 1 : 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, griders, stairs, columns,(Square or rectangular) battens and lintels etc. excuding steel reinforcement but including centering and shuttering, laid in position, complete in all respects.			
		Ground floor	106.37	Cum	
		First floor	106.37	Cum	
		Second floor	144.26	Cum	
		Third Floor	9.98	Cum	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
7	10.82	Cement concrete 1: 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work in slabs with inculcation not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects.			
		Ground floor		79.08	Cum
		First floor		79.08	Cum
		Second floor		39.54	Cum
		Third Floor & Mumty		9.70	Cum
8	10.81	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in shelves excluding steel-reinforcement but including centering and shuttering, laid in position complete in all respects.	14.25	Cum	
9	10.89	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in fascias parapets and other thin vertical sections, not covered by Item Nos. 10.82, 10.86 to 10.88 not exceeding 10 cm thickness excluding steel reinforcement but including centring and shuttering, laid in position, complete in all respects	9.06	Cum	
10	10.95	Extra over Item Nos. 10.79 to 10.94, if 1:1 ½:3 mix is used, instead of 1:2:4	897.13	Cum	
STEEL REINFORCEMENT					
11	18.22	Cold twisted deformed (ribbed/tor steel) bars for RCC works, where not included in the complete rate of RCC including bending, binding and placing in position complete.	1211.12	Qtl	
BRICK WORK					
12	11.2	First Class Brick work Laid in Cement Sand Mortar 1:6 In Foundation & Plinth (including duct wall)	115.02	Cum	
13	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meters above plinth level.	379.34	Cum	
14	11.46	11.43cm thick brick wall with every fourth course, reinforced with hoop-iron, laid in 1 : 4 cement sand mortar in super- structure	785.56	Sqm	
FLOORING					
15	14.1	Base course of floors consisting of 100 mm thick cement concrete 1 : 8 : 16 and 100 mm sand or stone filling	470.73	Sqm	
16	14.4	Screed of 50mm thick cement concrete 1:8:16 to be laid below the floor topping	951.41	Sqm	
17	14.91	Providing and fixing ceramic tiles/anti skid tiles of size 400mmx400mm or above size of approved make in flooring, laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of tile. Note: Tiles shall be premium quality (first quality) of reputed manufacturer like NITCO, KAJARIA,SOMANI,ORIENT & JOHNSON'S.	161.65	Sqm	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
18	14.89	Providing and fixing viterified tiles size 600x600mm of approved make in flooring laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK	1231.00	Sqm	
19	14.90	Providing and fixing viterified tiles size 600x600mm of approved in skirting/dado laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK	175.00	Sqm	
20	14.92	Providing and fixing Ist quality ceramic glazed wall tiles confirming to I.S. 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades expect burgundy, bottle green, black of any size as approved by Engineer-In-Charge in skirting, riser of steps and dados over 12mm thick bed of cement mortar1 : 3 coarse and jointed with grey cement slurry, including pointing in white cement mixed with pigment of matching shades complete.			
	a)	Size of ceramic glazed tile 200x300mm	688.35	Sqm	
21	14.62	Kotah stone flooring 25mm thick in any pattern as specified over 20 mm thick base of cemnet coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing.	230.00	Sqm	
22	14.66	Kotah stone 20 mm thick in skirting risers of steps, dados and wall facing (lining) and pillars laid on 12 mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry, mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps, dowels and pins etc.	12.00	Sqm	
23	NS	Coloured Granite Stone tiles 20mm thick in skirting risers of steps, dado walls and pilars laid in 12.5mm thick cemnet mortar 1 : 3 (1 cement 3 coarese sand) and jointed withg neat cement slurry mixed with pigment to match the shade of stone, including rubbing and polishing including labour for fixing dowel pins and cramps if required/ required.	361.00	Sqm	
24	14.49	Marble stone flooring 20mm to 25mm thick slab including matching grains of marble laid in any pattern as specified over base of 12 mm thick cement coarse sand mortar 1 : 3 and jointed with white cemnet slurry mixed with pigment to match the shade of marble including rubbing and polishing (using marble stone slab of size more than 3.38sqm each)			
	(c)	Green Marble			
		Ground flor	37.87	Sqm	
		First floor	37.87	Sqm	
		Second flor	37.87	Sqm	
		Third Floor	18.71	Sqm	
PLASTERING- FINISHING					
25	15.6	12mm thick cement plaster	3227.83	Sqm	
26	15.13	20 mm thick cement plaster 1: 2 in 2 coats work	2151.89	Sqm	
27	15.52	10mm thick cement plaster 1 : 4 under side of ceiling	1523.86	Sqm	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
28	16.52	Preparation of plastered surfaces for Oil bound distemper including sand papering the surface, applying one coat of linseed oil, and filling with approved quality filler, consisting of white lead, linseed oil, varnish and chalk mittin including finishing the surface to the required finish complete.	6903.58	Sqm	
29	16.57	Distemping with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.	6903.58	Sqm	
30	16.61	Finishing walls with exterior decorative cement based paints such as snowcem, Robbiacem etc. on new work, two coats to give an even shade.	1517.92	Sqm	
31	16.24	Preparation of plastered or concrete surfaces for painting, including sand papering the surface, applying one coat of linseed oil and filling with approved quality filler, consisting of white lead, linseed oil, varnish and chalk mitti including finishing surface to the required finish, complete.	1517.92	Sqm	
ROOFING -WATER PROOFING					
32	13.13	Terracing consisting of tiles 22.86 cm x 11.43 cm x 3.81 cm laid over 87.50 mm mud filling on a layer of 25mm mud plaster and an other layer of mud mortar for laying he tiles, including two coats of bitumen laid hot at 1.65 kg per sqm on top of R.C.C. slab including grouting with cement sand mortar 1 : 3 and top surface to be left clean etc.	578.48	Sqm	
33	15.71	Cement pointing 1:2 flush on flat brick flooring / tile terracing.	578.48	Sqm	
34	13.89 b)	Providing and fixing PVC rain water pipe 6Kg. Pressure of ISI mark in cement mortar during masonry work. 150mm dia PVC bend	151.00	Mtr	
35	13.90 b)	Providing and fixing PVC bend ISI marked 150mm dia PVC bend	14.00	Each	
36	13.50	Top khurra 0.6 m x 0.6 m for rain water pipe in 25 mm thick cement concrete 1:2:4 over 50 mm thick cement concrete 1:8:16	14.00	Each	
37	13.57	Bottom khurra on ground 1:2 m X 0.6 m consisting of brick-on-edge laid in cement mortar 1:3 over 75 mm cement concrete 1:8:16 including 12 mm thick cement plaster 1:3	14.00	Each	
38	13.64	Cement concrete 1:2:4 gola 10cm x 10cm quadrant along junction of roof with parapet wall finished smooth, where specially specified.	250.96	Mtr	
39	15.76	12mm thick cement plaster damp proof course 1:3 with 2 coats of bitumen at 1.65 Kg per Sqm laid hot and sanded:- Horizontal	409.68	sqm	
40	18.34	Pressed steel sheet frames (Chowkats) consisting of 2 mm thick steel sheet of the specified section, including iron lugs (hold fasts), iron hinges, conforming to P.W.D . Specifications, including bolts for fixing stops,, locknotch, provision for receiving tower bolts, and finished with one coat of ready-mixed paint red lead non-setting primer, of approved quality, fixed in position including the coat of cement concrete 1 : 3 : 6, for filling in the frame, and cement concrete 1 : 3 : 6 for lugs complete: - a) Door and window frame size 89mm x 50mm with 40mm wide single rebate. b) Door and window frame of size 76 mm x 38 mm with 35 mm wide single rebate	440.30	Mtr	
			285.00	Mtr	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		c) Door and window frame size 127mm x 50mm with 40mm wide double rebate.	833.90	Mtr	
41	17.93	Factory manufacture solid flush door shutter with block board core as per I.S. no. 1659-1969 bonded with water proof type phenol formaldehyde synthetic resin hot pressed conforming to IS 2202 part-I and part II, fixed in position, including iron hinges, screws, chocks/cleats and stops etc (excluding the cost of any fittings other than specified above , but including labour for fixing the same in position)			
		a) commercial veneering with vertical grains or cross bands and face veneer on both sides commercial facing with laminated core and lipped edges: iii) 35 mm thick	352.00	Sqm	
42	17.32	Cupboard shutters of commercial hard wood such as hollock, champ, chikrasy and chaplash etc., (non-coniferous timber other than teak conforming to I.S. specification no.1003, kiln seasoned) excluding chowkat but with commercial plywood panels or faced on one side including iron hinges and screws fixed in position (excluding the cost of handles, tower bolts, hasp with staple, but including the labour for fixing the same.			
		b) 25 mm thick	101.00	Sqm	
43	17.90 a)	30mm thick factory manufactured panelled door or glazed window, shutters of commercial hard wood, such as hollock, champ, chikrassy and chaplash, etc., (non-coniferous timber other than teak, conforming to I.S. specification No.1003, kiln-seasoned), with 100 mm wide verticle styles, 150 mm wide lock rail, 200 mm wide bottom rail and 100 mm wide other rails, with panels of 15 mm thick, tongued and grooved of commercial hard wood and including cost of iron hinges, screws, chocks / cleats, stops, nails etc., complete, fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position).	258.38	Sqm	
44	17.72	Cost of aluminium fittings complete for doors and windows, such as tower bolts, handles, etc., and screws for these fittings (excluding sliding bolt)			
		b) Double leaf Door & window	879.12	Sqm	
		a) for single leaf shutter	208.50	Sqm	
45	17.83	Providing and fixing sliding bolt with nuts and screws, etc, complete-			
		ii) Size 250mm x 16mm	64.00	Each	
46	17.73	Providing and fixing six-levers brass 10 cm mortice latch and lock, and a pair of lever handles with necessary screws, etc., complete (Indian make of reputed firm, such as Godrej or equivalent)	156.00	Each	
47	17.79	Providing and fixing helical door spring 150 mm (superior quality) including necessary screws, complete.			
		b) Iron	156.00	Each	
48	17.92	Factory manufactured wire gauze door and window shutters of commercial hard wood such as hollock, champ, chikrassy and chaplash, etc., (non-coniferous timber other than teak, conforming to I.S. specification No.1003, kiln-seasoned), with 100 mm wide verticle styles, 150 mm wide lock rail, 200 mm wide bottom rail, and wire gauze of 140G or 120G designation including cost of iron hinges, screws, chocks/cleats, stops nail etc., complete fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position)- (style and rails of windows shutter shall be 75 mm wide)			
		i) 30 mm thick	150.00	Sqm	
		ii) 35 mm thick	290.00	Sqm	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
49	17.75	Providing and fixing 150mm floor brass door stoppers, with rubber cushion, screws, etc, to suit shutter thickness complete -	156.00	Each	
50	18.12	Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders, grills, grating frames, window guards, iron doors open able or fixed stair case or parapet or any other type of railing, gates and tree guards etc., including cost of screws and welding rods or bolts and nuts complete fixed in position.	54.95	Qtl	
51	18.11	Iron-grated doors, including pintle hinges and arrangements	12.24	Qtl	
PAINTING - POLISHING					
52	16.10	Applying priming coat on steel work consisting of genuine red lead mixed with linseed oil and turpentine oil in equal proportions.	1578.96	Sqm	
53	16.17	Painting two coats excluding priming coat with ready-mixed paint for metallic surfaces in all shades on new steel or iron work.	1578.96	Sqm	
54	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface, knotting and stopping, etc.	2302.00	Sqm	
55	16.3	Painting two coats excluding priming coat with synthetic enamel paint in all shades on new wood work or matallic or plastered or concrete surfaces to give an even shade.	2302.00	Sqm	
56	18.13 / a)	Stair case railing of 40mm internal dia G.I. pipe class 'B' as per I.S. No. 1239 as hard rail using flats and square bars as supporting members and base plate welded as per design specified includingcutting, welding rods and complete fixed in position.	3.67	Qtl	
	b)	Parapet railing of 40 mm internal dia G.I. Pipe class 'B' as per I.S. No.1239 as hand rail using flats and square bars as supporting members and base plate welded as per design specified including cutting, welding rods and fixed in position complete in all respect.	19.99	Qtl	
B PUBLIC HEALTH SANITARY INSTALLATION					
57	30.84	Providing and fixing in position HCI soil waste vent or antisiphonage pipes to ISI specification of E.L.C. manufacture or of any other reputed firm including cutting and wastage etc. and cutting holes in walls, roofs or floor etc. and making good to its original condition but excluding cost of lead jointing.			
	a)	100mm internal diameter	152.00	Mtr	
	b)	75mm internal diameter	284.00	Mtr	
58	30.87	Providing lead caulked joints to HCI pipes and specials conforming to ISI specification of E.L.C. manufacture or any other reputed firm including cost of lead yarn, fuel and tools etc.			
	a)	100mm internal diameter (1.13kg)	140.00	Each	
	b)	75mm internal diameter (0.91 kg)	208.00	Each	
59	30.88	Providing and fixing in position M.S. or heavy flat iron clamps made out of M.S. flat not less than 5mm of the approved design for fixing C.I. Soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting.			
	a)	For 100mm internal diameter pipes.	60.00	Each	
	b)	For 75mm internal diameter pipes.	88.00	Each	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
60	30.89	Providing and fixing HCI floor trap ISI marked of the self cleaning design with CP brass hinged grating with frame with or without vent arm and including cement concrete 1:2:4 under and around the floor trap where required upto floor level complete in all respects including cutting and making good the walls and floors etc. minimum depth of water should be 150 mm with a minimum seal of 50mm.			
	b)	with 75mm i/d out let	60.00	Each	
61	30.91	Providing and fixing in position HCI specials for soil, waste, vent or anti-syphonage pipes to ISI marked including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead jointing. For 100mm I/D pipes			
	a)				
	I)	Heal rest bend.	32.00	Each	
	iv)	Single junction with door 100mm x 100mm x 100mm	16.00	Each	
	xvi)	Cowls	8.00	Each	
	xvii)	Door piece	2.00	Each	
	xxii)	Collars	8.00	Each	
	b)	For 75mm I/D pipes.			
	xviii)	Collars	12.00	Each	
	iv)	Single junction with door 75mmx75mm x75mm	24.00	Each	
	xvii)	Cowls	12.00	Each	
	i)	Heal rest bend	12.00	Each	
62	NS	Providing and fixing in position high quality ISI marked Indian make white vitreous chinaware European water closet suite P or S - trap including one no. superior quality white solid plastic seat and lid (seat cover) 8 Litre capacity PVC low level cistren, 40 mm size, CP brass flush bend and coupling of approved municipal design including cutting and making good the walls and floors with cement concrete 1:2:4 wherever required complete complete to the entire satisfaction of the Engineer-in-Charge.	24.00	Each	
63	NS	Providing and fixing CP brass spray jet for EWC including CP brass hexa nipple etc. complete to the entire satisfaction of the Engineer-in-Charge.	24	Each	
64	30.41	Providing and fixing in position best indian make (Ordinary) lavatory suites consisting of of Lavatory in VITREOUS CHINAWARE size as give below (to the approval of the Engineerin-charge) including china plug for tap hole where necessary ; R.S. or C.I.BRACKETS for building into wall including painting; 32mm C.P.BRASS WASTE WITH C.P. brass chain and rubber plug; 15mm C.P.BRASS SCREW DOWN PILLAR TAP WITH jam nuts or couplings best design (as approved by the Engineer-in-charge) ALL FITTINGS BEST INDIAN MAKE and; to the approval of the Engineer-in-charge. ALL brass work chromium plated and COMPLETE in all respects INCLUDING cutting and MAKING GOOD THE WALLS, FLOORS AND PAINTING OF FITTINGS ETC.			
	(a)	White			
	(iv)	Size 550mm x 450mm with one no. tap	24.00	Each	
65	NS	Providing and fixing in position best quality stainless steel sink built in draining board of size 600mm x 450mm complete to the entire satisfaction of the Engineer-in-Charge.	12.00	Each	
66	30.71	Providing and fixing in position best Indian make bevelled edge 5.5mm thick mirror mounted on asbestos sheet ground fixed in position by means of 4 nos chromium plated brass screws & washers over rubber washers and rawl plug embedded in the wall or chromium plated brass clamps with C.P. brass screws (as required by the Engineer-in-charge) complete including cutting and making good the walls etc.			

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		a) Indian make			
		ii) 600 mm x 450 mm	24.00	Each	
67	30.68	providing and fixing in position best indian make towel rail fixing in with rwls lugs embedded in wall with c.p brass scerws, complete in all respect including cutting and making good the walls etc.			
		b 20mm dia C.P brass adjustable towel ring	24.00	Each	
		e C.P brass towel ring	12.00	Each	
68	30.77	Providing and fixing CP brass liquid soap container of best quality complete	24.00	Each	
69	NS	Providing and fixing in position high quality heavy pattern CP brass (concealed) stop cock of standard design and of approved make conforming to IS:8931 complete to the entire satisfaction of the Engineer-in-Charge.			
		i) 15 mm nominal bore	48.00	Each	
70	NS	Providing and fixing in position approved make PVC pipe connections 375mm long with CP brass nuts and rubber washers complete to the entire satisfaction of the Engineer-in-Charge.	48.00	Each	
71	30.114	Providing and fixing in position gully traps fixed in cement concrete 1:4:8 complete with H.C.I. Grating 150mm x 150mm cast iron cover weighing approximately 7.26 kg frame clear opening 399mm x 300mm and outside size 330mm x 330mm and chamber including cost of all brick work in cement mortar 1:5 cement concrete 1:8:16 in foundations and cement concrete 1:2:4 in coping around C.I. cover and frame superior paint of approved manufacture on all C.I. work as per standard design, minimum depth of water should be 150mm with a minimum seal 50mm.			
		d) 150mm internal diameter HCI gully trap.	12.00	Each	
72	29.84	Constructing brick masonry inspection chamber size as given below upto 0.60 metre average depth in cement mortar 1:5 lime concrete with 40 percent lime mortar 2:3 in foundation cement concrete 1:2:4 benching 12mm thick cement plaster 1:2 with a floating coat of 1mm thick of neat cement RCC 1:2:4 slab 100mm thick /C.C. topping 50mm thick with 455 mm x455mm /455mm x 610mm inside light duty C.I. inspection chamber cover and frame weight as per ISI specifications painted with 3 coats of black bitumastic superior paint complete as per standard design.			
		c) Size 600 x 900mm inside (with 455m x455mm cover and frame light duty single seal weighing 20 kgs with RCC slab)	12.00	Each	
73	29.85 C)	(Extra for every 0.30 mtr depth of Inspection Chamber 600x900mm	12.00	Each	
		B. INTERNAL WATER SUPPLY			
74	NS	Providing and fixing GI pipe complete with GI fittings and clamps including cutting and making good the walls etc. complete to the entire satisfaction of the Engineer-in-Charge.			
		ii) 32 mm dia nominal bore	24.00	Mtr	
		iii) 25 mm dia nominal bore	16.00	Mtr	
		iv) 20 mm dia nominal bore	576.00	Mtr	
		v) 15 mm dia nominal bore	132.00	Mtr	
75	NS	Providing and fixing in position 15 mm internal diameter CP brass bib cocks of high quality and conforming to IS specifications with CP brass cap complete to the entire satisfaction of the Engineer-in-Charge.			

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		i) 15 mm nominal bore short body		24.00	Each
		ii) 15 mm nominal bore long body		72.00	Each
76	30.119	Providing and fixing HDPE WATER STORAGE TANKS of sintex, Diplast , O.K. Supreme make with covers/lids marked with IS:12701 on roof top of buildings including cost of hoisting and placing in position, making connections with inlet and outlet pipes, providing overflow and scour provisions with suitable plug on scour pipe including cost of nipples, washers, flanges for connections in tanks complete in all respects to the satisfaction to the Engineer-in-charge.(Expect civil work). 3 No's = 1000 lt		12.00	Each
77	NS	Providing and fixing in position heavy pattern gun metal peet valve ISI marked with hand wheels, on GI pipe lines laid in ground or inside building as per approved drawings, specifications complete to the entire satisfaction of the Engineer-in-Charge.			
		ii) 32mm dia nominal bore		12.00	Each
		iv) 20mm nominal bore		12.00	Each
78	NS	Providing and fixing GI union in GI pipe including cutting and threading the pipe and making long screws etc. complete to the entire satisfaction of the Engineer-in-Charge.			
		ii) 32mm dia nominal bore		4.00	Each
		iii) 25mm dia nominal bore		4.00	Each
79	30.110	Providing and fixing inposition automatic brass ball valve in tanks			
		b) With Plastic ball			
		iv) 32 mm dia nominal bore		12.00	Each
80	NS	Providing and fixing in positiong approved make CP brass stop cock with large size CP brass cap / flange complete to the entire satisfaction of the Engineer-in-Charge.			
		a) 15mm i/d angle valve		24.00	Each
81	NS	Providing and fixing shower complete to the entire satisfaction of the Engineer-in-Charge.		24.00	Each
		ELECTRICAL WORKS			
82	31.12 (c)	Moulded Case Circuit Breakers Supply and erection of Moulded case circuit breakers on wall or on existing pedestal including bonding to earth and necessary connections :-			
		(i) 15 amp. To 60 amp . 415 V 10 K.A. 3 phase	13 nos.		Each
		(iv) 300 amp. To 400 amp. 415 V 35 K.A. 3 phase	01 no.		Each
83	31.13	Supply and erection of M.S. angle iron frame duly welded for housing M.S. sheet & main switches etc. on it. 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.			
		(ii) Size 40 mm x 40 mm x 6 mm	36 mtrs.		Mtr

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
84	31.14	Supply and erection of 3 mm thick mild steel sheet duly welded on exiting 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	05 sqm	Sqm	
85	31.15	Supply and erection of sheet steel enclosure 2 pole/3 pole with earth plug and socket suitable for incorporating single pole/triple pole MCB on wall/on exiting pedestal complete with necessary connections etc :-			
	(ii)	S.P.N. enclosure for single pole MCB 20 amp.	24 nos.	Each	
86	31.16	Supply and erection of blanking sheet in exiting distribution board.	12 nos.	Each	
87	31.17	Supply and erection of miniature circuit breaker/isolator 240/415 V in the existing distribution board including making necessary connections :-			
	(a)	Miniature Circuit Breakers of 9 K.A. breaking capacity			
	(ii)	6 amp. To 32 amp. SPMCB	300 nos.	Each	
	(iii)	40 amp. To 63 amp. TPNMCB	12 nos.	Each	
	(iii)	40 amp. To 63 amp. TPMCB	04 nos.	Each	
88	31.18 (M)	Supply and erection of Fittings and Accessories			
	(vii)	Call bell 220/230 Volts A.C. bakelite with double coil.	12 nos.	Each	
	xi)	Bakelite angle / straight button holder large size.	444 nos.	Each	
	xxvi)	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 10 mm dia 30cm long mild steel rod made into suitable suspension hook and erected in RCC 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.	132 nos.	Each	
89	31.21	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required.			
	xxi)	Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	320 mtrs.	Mtr	
	xxii)	Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed.	1000 mtrs.	Mtr	
	xxx)	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.			
	a)	PVC pipe 120 mm dia	50 mtrs.	Mtr	
	b)	PVC pipe 80 mm dia	70 mtrs.	Mtr	
90	31.22 i)	Earthing with G.I., earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top etc. as required.	26 nos.	Each	
	ii)	Extra for using salt and charcoal/coke for pipe earth electrode as required.	26 nos.	Each	
	iv)	Earthing with tinned copper earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) etc. complete as required.	02 nos.	Each	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		v) Extra for charcoal or coke and salt for GI plate or copper plate earth electrode.	02 nos.	Each	
		x) Providing and fixing 25 mm x 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode as required.	20 mtrs.	Mtr	
		xiii) Providing and laying earth connections from earth electrode with 4.00 mm dia copper wire in 15 mm dia 300 mtrs. G.I. pipe from earth electrode as required.		Mtr	
		xiv) Providing and fixing 25 mm x 5 mm copper strip on surface or in recess for connections etc. as required with all labour and material.	10 mtrs.	Mtr	
		xvii) Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	320 mtrs.	Mtr	
91	31.24 ii)	Excavation earth pit 180 cm round at top and 90 cm at bottom 4.5 metres deep and refilling the same in plains including supply of necessary charcoal / coke and salt mixture.	05 nos.	Each	
		iv) Supply and erection of 60 cm x 60 cm x 6 mm thick galvanised iron plate including necessary bolts and nuts	05 nos.	Each	
		v) Providing standard watering tank including down pipe and C.I. cover with locking arrangement etc.	05 nos.	Each	
		vi) Providing and erection of 20 mm x 3 mm thick lighting conductor G.I. tape fixed with suitable G.I. staples of same size.	200 mtrs.	Mtr.	
		vii) Supply and erection of G.I. tape 32 mm x 6 mm thick from earth electrode directly in ground and surface fixed with G.I. staples of same size.	200 mtrs.	Mtr.	
		viii) Supply and erection of 25 mm dia-meter 1.5 metre long lighting G.I. tube rod tapered into a point at the top with 16 cm x 16 cm x 3 mm thick G.I. base plate and necessary nuts and bolts with washers.	05 nos.	Each	
		ix) Providing and fixing testing jhoints made of 20 mm x 3 mm thick G.I. strips 125 mm long with 4 Nos. bolts and nuts with washers complete.	05 nos.	Each	
92	31.26	Supply and erection of under ground cable, loose in existing pipe or trenches complete with necessary connections.			
		xxxiii) 240 Sqmm 3.1/2 Core Cable (Armoured)	200 mtrs.	Mtr.	
		xl) 16 Sqmm 4 core cable (Armoured)	200 mtrs.	Mtr.	
		xli) 25 Sqmm 4 core cable (Armoured)	600 mtrs.	Mtr.	
93	31.28	Supply and erection of suitable compression type brass cable glands for underground cable:-			
		ii) 10 Sqmm to 16 Sqmm Cable 2 to 4 Core	01 no.	Each	
		iii) 25 Sqmm to 50 Sqmm Cable 2 to 4 Core	24 nos.	Each	
		vi) 240 Sqmm Cable 3 to 3.1/2 Core	01 no.	Each	
94	31.35 ix)	Supply and erection of aluminium lugs heavy duty including crimping etc. upto the entire satisfaction of the Engineer-in-charge of the work.			
		d) 16 Sqmm	32 nos.	Each	
		e) 25 Sqmm	192 nos.	Each	
		j) 120 Sqmm	01 no.	Each	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		m) 240 Sqmm	03 nos.	Each	
95	31.36	Wiring in 1.5 sqmm PVC insulated copper conductor cable in 1.6 mm thick conduit pipe.			
		i) Fan point			
		b) Medium point	108 nos.	Each	
		c) Long point	24 nos.	Each	
		ii) Light Point			
		a) Short Point	132 nos.	Each	
		b) Medium point	12 nos.	Each	
		c) Long point	216 nos.	Each	
		iii) Twin Control light point with 2 ways, 5 amp. Single pole switch.			
		b) Medium point	72 nos.	Each	
		c) Long point	72 nos.	Each	
		vi) Call bell point including MS box of size 180 mm x100 mm x 60 mm deep for call bell			
		c) Long point	12 nos.	Each	
		vii) 3-pin 5 amp plug point including earthing the 3rd pin etc.			
		a) Short Point	228 nos.	Each	
		b) Medium point	12 nos.	Each	
		c) Long point	60 nos.	Each	
		viii) 3-pin 15 amp plug point with 4 sqmm PVC insulated copper conductor cable including earthing the 3rd pin etc.			
		a) Short Point	12 sqm	Sqm	
		b) Medium point	12 sqm	Sqm	
		c) Long point	120 sqm	Sqm	
96	31.40	Supply and erection of PVC unsheathed copper conductor cable single core 1100 Volts grade in pipe of suitable size excluding cost and erection of pipe.			
		i) Cable size 1.5 Sqmm (3/0.81mm)	5000 mtrs.	Mtr.	
		ii) Cable size 2.5 Sqmm (3/1.05mm)	5000 mtrs.	Mtr	
		iii) Cable size 4 sqmm (7/0.85 mm)	3500 mtrs.	Mtr	
		iv) Cable size 10 sqmm (7/1.35mm)	20 mtrs.	Mtr	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
97	31.41	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 the entire satisfaction of the Engineer-in-charge of the work.			
	vi)	8-way, TP&N (Horizontal) (8+24)	12 nos.	Each	
98	31.42	Supply and erection double pole/ Four pole Residual current circuit breaker (RCCB/ELCB) suitable for operation on 240/415 V, 5Hz. A.C. 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 the Engineer-in-charge of the work.			
	xv)	63A/415V FP ELCB with 30mA sensitivity.	12 nos.	Each	
99	31.44	Supply and erection of PVC conduit pipe ISI marked (medium) recessed in wall/ceiling etc. including cost of PVC bends, inspection box and all other material required to complete the job in all respect upto the entire satisfaction of Engineer-in-charge of work.			
	b)	25 mm dia	300 mtrs.	Mtr	
100	31.45	Supply and erection of copper lugs including crimping etc. upto the entire satisfaction of Engineer-in-charge of the work.			
	a)	1.5 sqmm to 2.5 sqmm	264 nos.	Each	
	b)	4 sqmm to 6 sqmm	288 nos.	Each	
	c)	10 sqmm	96 nos.	Each	
101	31.48	Supply and erection of MS saddles and clamps on wall/ RCC parapit for fixing underground cable at a distance of 0.60 metre centre to centre fixed by means of rawl plug including the cost of all labour and material required to complete the job in all respect.	150 nos.	Each	
102	31.55	Supply and erection of socket size rotary step type Electronic regulator for A.C. ceiling fan Anchor make Deluxe model No. 50440 ISI/SSK make PC 561 operated on 120 / 280 V.A.C supply complete including cutting of existing bakelite sheet and making necessary connection etc. upto the entire satisfaction of the Engineer-in-charge of the work.	132 nos.	Each	
103	31.61	Supply and erection of street light luminer M.H. 150 watt street light.	04 nos.	Each	
104	31.63	Supply installation testing & commissioning of wall free standing floor mounted etc. complete in all respect.	25 sqm	Sqm	
105	31.64	Supply and fixing of copper bus bar	90 kg.	Kg	
106	31.65	Providing and fixing difiting metering .	01 set	set	

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
107	31.68	providing and fixing 9 mtr long pole with top dia etc.	04 nos.	Each	
108	6.6	Earth work in excavation in foundations, trenches, etc.in all kinds of soils, not exceeding 2 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres	300 cum	%cum	
109	10.26	Cement Concrete 1:8:16 with brick ballast 40mm nominal size in foundation and plinth.	12 cum	Cum	
110	11.4	First class brick laid in cement sand mortar 1:4 in foundation and plinth.	45 cum	Cum	
111	15.5	12 mm thick cement plaster 1:4	500 sqm	Sqm	
112	NS	Supply of 3 phase 4 wire watt house meter 10-60 Amp services make in existing pannel with necessary connection approved in U.H.V.B.N. (H.S.E.B.) complete to the entire satisfaction of the Engineer-in-Charge.	13 nos.	Each	
113	NS	Cutting of road by machine / manual means for require of size of pipe complete to the entire satisfaction of the Engineer-in-Charge.	30 mtrs.	Mtr.	
114	NS	Supply & filing river sand in existing pucca trenches complete to the entire satisfaction of the Engineer-in-Charge.	100 cum	cum	
115	NS	Supply & erection of 1st class brick on existing cables in pucca trench complete to the entire satisfaction of the Engineer-in-Charge.	6000 nos.	Each	

Note:-

- 1 The underground cable will be used of Havells/Polycable make. No extra payment will be allowed on this account.
- 2 PVC pipe of 6 Kg. pressure Kasta/Swastik/Supreme make of HSR item no. 31.21 will be used if required. No extra payment will be allowed on this account.
- 3 The materials used for HSR item no. 31.12, 31.15, 31.17 and 31.41 will be used of Standard/Havells make if required and no extra payment will be allowed on this account.
- 4 PVC copper wire 31.38, 31.39 and 31.40 will be used of Havells/Polycable make if required and no extra payment will be allowed on this account.

DETAILED NOTICE INVITING TENDER

Name of the work : Construction of Boys Hostel for 300 students capacity in MDU, Rohtak (i/c. PHA Service & EI Services).

App. Amount Rs. 12,50,00,000/-

Earnest Money Rs. 12,50,000/- / Rs. 25,00,000/-

Time Limit: 18 months

Sr. No.	H.S.R Ref. No.	Description	Qty.		Unit	Each Rate to be quoted by the Contractor (Rs.)
1	9.1	Centring and shuttering for flat surfaces such as suspended floors, roofs, landings, chhajjas, shelves etc. inclination not exceeding 25 degree with horizontal.	9409.00	sqm	Per sqm	
2	9.5	Centring and shuttering for faces of walls, partitions, retaining walls, well steinings and the like (vertical or battering) including attached pilasters, buttresses etc.	95.00	sqm	Per sqm	
3	9.7	Centring and shuttering for sides and soffits of beams, haunchings, girders, bressumers and lintels.	8568.00	sqm	Per sqm	
4	9.8	Centring and shuttering for staircases with slopping soffits including risers and stringers.	275.00	sqm	Per sqm	
5	9.9	Centring and shuttering for columns (square or rectangular or polygonal in plan)	5372.00	sqm	Per sqm	
6	9.13	Shuttering for faces of concrete foundations & foundation beams (vertical or battering)	1208.00	sqm	Per sqm	
7	9.17	Centring and shuttering for arches of doors and windows	696.00	Sqm	Per sqm	
8	10.34	Cement Concrete 1:5:10 with brick ballast 40mm nominal size in foundation and plinth	115.00	cum	Per cum	
9	10.39	Cement Concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	641.00	cum	Per cum	
10	10.59	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in first storey upto 4 metres above plinth level.				
	i)	Ist Storey.	50.00	cum	Per cum	
	ii)	2nd Storey.	46.00	cum	Per cum	
	iii)	3rd Storey.	46.00	cum	Per cum	
11	10.66	Design mix cement concrete of grade M-25 with Minimum cement content 410 kg /cum in foundation and plinth	1351.00	cum	Per cum	
12	10.73	Design mix cement concrete of grade M-25 with Minimum cement content 405 kg /cumin first storey upto 4 metres above plinth level.	3614.00	cum	Per cum	
13	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coat of bitumen 20/30 penetration at 1.65 Kg per sqm. Laid hot and sanded	207.00	sqm	Per sqm	

14	11.22	First class brick work laid in cement, stone dust (from crusher) mortar 1:6 in foundation and plinth.	273.00	cum	Per cum	
15	11.27	First class brick work laid in cement, stone dust (from crusher) mortar 1:6 in first storey upto 4 metres above plinth level				
	i)	Ist Storey.	501.00	cum	Per cum	
	ii)	2nd Storey.	486.00	cum	Per cum	
	iii)	3rd Storey.	486.00	cum	Per cum	
	iv)	4th Storey.	48.00	cum	Per cum	
16	11.51	11.43 cm thick brick wall with every fourth course, reinforced with hoop-iron laid in 1:4 cement stone dust (from crushed) mortar in super-structure.				
	i)	Ist Storey.	2240.00	cum	Per cum	
	ii)	2nd Storey.	1942.00	cum	Per cum	
	iii)	3rd Storey.	1936.00	cum	Per cum	
17	13.20	Corrugated asbestos sheet roofing 6mm thick sheet fixed with GI hooks and bolts, limpet and bitumen washers complete, fixed in position, excluding the cost of purlins, rafts and trusses.	99.00	sqm	Per sqm	
18	13.64	Cement concrete 1:2:4 gola 10x10cm quadrant along junction of roof with parapet wall finished smooth , where specified	475.00	Mtr.	P.Mtr.	
19	13.89 (a)	Providing and fixing PVC rain water pipe 6 kg. pressure of ISI mark in cement mortar during masonry work. (a) 100mm dia PVC pipe 6 kg. pressure	327.00	Mtr	P.Mtr.	
20	13.90 (a)	Providing and fixing PVC Bend ISI Mark (a) 100 mm dia PVC Bend.	57	Nos.	Each	
21	14.1	Base course of floors consisting of 100mm thick cement concrete 1:8:16 and 100mm sand filling.	2018.00	sqm	Per sqm	
22	14.4	Screed of 50 mm thick cement concrete 1:8:16 to be laid below the topping				
	i)	2nd storey	1985.00	sqm	Per sqm	
	ii)	3rd storey	1980.00	sqm	Per sqm	
23	14.10	Conglomerate floor 50mm thick cement concrete topping 1:2:4	869.00	sqm	Per sqm	
24	14.44	Precast terrazzo tiles of 20mm minimum thickness in cement as specified below with marble chips of size and colour as required laid on 20mm thick bed of cement course sand mortar 1:3 with neat cement slurry, between joints and over the base in floors, treads of steps and landing including rubbing and polishing.				
	c)	In white cement.				
	i)	Ist storey	1762.00	sqm	Per sqm	
	ii)	2nd storey	1746.00	sqm	Per sqm	

	iii)	3rd storey	1746.00	sqm	Per sqm	
25	14.47	Precast chequered terrazzo tiles 12.5mm thick as specified below with marble chips of size and colour as required, laid on 10mm thick cement coarse sand plaster 1:3 and jointed with neat cement slurry in skirting dado and risers of steps, including rubbing and polishing complete.				
	c)	In white cement.				
	i)	Ist storey	206.00	sqm	Per sqm	
	ii)	2nd storey	205.00	sqm	Per sqm	
	iii)	3rd storey	205.00	sqm	Per sqm	
26	14.62	Kotah Stone flooring 34mm to 40mm thick in any pattern as specified over 12mm thick base of cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing				
	i)	Ist storey	1617.00	sqm	Per sqm	
	ii)	2nd storey	1617.00	sqm	Per sqm	
	iii)	3rd storey	1617.00	sqm	Per sqm	
27	14.66	Kotah stone 20mm thick in skirting risers of steps , dados and wall facing (lining) and pillars laid on 12mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps dowels and pins etc				
	i)	Ist storey	218.00	sqm	Per sqm	
	ii)	2nd storey	218.00	sqm	Per sqm	
	iii)	3rd storey	218.00	sqm	Per sqm	
28	14.92	Providing and fixing 1st quality ceramic glazed wall tiles confirming to I.S. 15622 (thickness to be specified by the manufacturer) of approved make in all colours, except burgundy, bottle green, black of any size as approved by Engineer-in-charge in skirting, risers of steps and dados and jointed with grey cement slurry, including pointing in white cement mixed with pigment of matching shades complete.				
	a)	Size of ceramic Glazed tiles 200x300mm.	2032.00	sqm	Per sqm	
29	15.2 + 15.52 - 15.51	10mm thick Cement plaster 1:3.				
	i)	Ist storey	267.00	sqm	Per sqm	
	ii)	2nd storey	267.00	sqm	Per sqm	

	iii)	3rd storey	266.00	sqm	Per sqm	
30	15.6 + Not II	12mm thick cement plaster 1:5.				
	i)	Ist storey	2640.00	sqm	Per sqm	
	ii)	2nd storey	2640.00	sqm	Per sqm	
	iii)	3rd storey	2640.00	sqm	Per sqm	
31	15.7	12mm thick cement plaster 1:6 on walls.				
	i)	Ist storey	2630.00	sqm	Per sqm	
	ii)	2nd storey	2329.00	sqm	Per sqm	
	iii)	3rd storey	2329.00	sqm	Per sqm	
32	15.12	15mm thick cement plaster 1:6 on the rough side of single or half brick wall				
	i)	Ist storey	3952.00	sqm	Per sqm	
	ii)	2nd storey	3616.00	sqm	Per sqm	
	iii)	3rd storey	3616.00	sqm	Per sqm	
	iv)	4th storey	200.00	sqm	Per sqm	
33	15.52	10 mm thick cement plaster 1:4 under side of ceiling.				
	i)	Ist storey	4283.00	sqm	Per sqm	
	ii)	2nd storey	4283.00	sqm	Per sqm	
	iii)	3rd storey	4282.00	sqm	Per sqm	
34	16.1	Preparation of ply wood surface for painting including sand papering the surface and applying filling with approved quality filler consisting approved quality filler consisting of white lead, linseed oil, varnish and chalk mitti including finishing the surface to required finish complete	8510.00	sqm	Per sqm	
35	16.2	Applying pink primer of aluminium priming coat on wood work including preparation of surface, knotting and surfacing etc .	8510.00	sqm	Per sqm	
36	16.3	Painting two coats excluding priming coat with synthetic enamel paint in all shade on new wood work or metallic or plastered or concrete surface to give an even shade	13750.00	sqm	Per sqm	
37	16.9	Applying Priming coat with metal primer on new steel or iron work including preparation of surface.	5240.00	sqm	Per sqm	
38	16.25	Applying priming coat with ready mixed exterior paint in all shades on newly plastered or concrete exterior surface.	13167.00	sqm	Per sqm	

39	16.52	Preparation of Plastered surfaces for oil bound distemper including sand preparing the surface, applying one coat of linseed and filling with approved quality filler consisting of white lead, linsed oil, varnish and chalk mitti including finishing the surface to required finish complete.	24331.00	sqm	Per sqm	
40	16.57	Distemping with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.	24331.00	sqm	Per sqm	
41	17.78 b)	Providing and fixing 150mm hasps and staples with necessary screws etc complete – aluminum.	601.00	Nos.	Each	
42	16.79 (b)	Providing two coats of exterior acrylic emulsion paint (First Quality)	13167.00	sqm	Per sqm	
43	17.83 b)	Providing and fixing sliding bolt of aluminium with nuts and screws, etc complete.				
	i)	300 x 16 mm size	4	Nos.	Each	
	ii)	250 x 16 mm size	610	Nos.	Each	
44	17.87	Providing and fixing 0.50mm thick Aluminium sheet i/c cost of necessary screw, etc complete.	130.00	sqm	Per sqm	
45	17.90 + Note 17.18(i)	Factory manufactures panelled door or glazed window, shutters of commercial hard wood, such as hollock, champ, chikrassy and chaplash, etc., (non coniferous timber other than teak, conforming to I.S specification No. 1003 kiln seasoned), with 100mm wide verticle styles, 150mm wide lock rail, 200mm wide bottom rail and 100mm wide other rails, with panels of 15 mm thick, tongued and grooved of commercial hard wood and including cost of iron hings, screws, chocks/cleats, stops, nails etc., complete fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position) housed in pressed steel chowkhats.				
	i)	30mm thick.	151.00	sqm	Per sqm	
46	17.92 - Note 17.18(i)	Factory manufactured wire gauge door and window shutters of commercial hard wood such as hillock, champ, chikrassy and chaplash etc. (non coniferous timber other teak, conforming to IS specification No. 1003, kiln seasoned) with 100mm wide vertical styles 150mm wide lock rail 200mm wide bottom rail and 100mm wide other rails, with panels of 15 mm thick , tongued and grooved of commercial hard wood and including cost of iron hings, screws, chocks/cleats, stops, nails etc., complete fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position) housed in pressed steel chowkhats.				
	i)	30mm thick.	151.00	sqm	Per sqm	
	ii)	35mm thick.	991.00	sqm	Per sqm	

47	17.93 (a i) Note 17.18 (i)	Factory manufactured solid flush door shutters, with block board core as per IS 1659:1969 bonded with water proof type phenol formaldehyde synthetic resin, hot pressed, conforming to IS 2202 part I and II, fixed in position, including iron hinges, screws, chocks/cleats and stops, etc (excluding the cost of any fittings other than specified above, but including labour for fixing the same in position. (a) Commercial veneering with verticle grains or cross bands and face venner on both sides commercial facing with laminated core and lipped edges housed in pressed steel chowkhats.				
	i)	25mm thick.	1156.00	sqm	Per sqm	
	ii)	35mm thick.	1255.00	sqm	Per sqm	
48	17.95 + Note i)	Providing and fixing aluminum work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z Sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed with raw plugs and screws or with fixing clips or with expansion hold fasteners, including necessary filling up of gaps at junctions, at top, bottom and sides with required neoprene felt etc. Aluminum section shall be smooth, rust free, straight, mitered and jointed mechanically whenever required including cleat angle, Aluminum snap beading for glazing, panelling, C.P. brass / stainless steel screws, all complete. Powder coated.	1684.00	Kg.	P.Kg.	
49	17.96 + Note i)	Providing and fixing aluminum work for doors, windows, ventilator and partitions with extruded built up standard tubular sections/appropriate Z section and other section of approved make conforming to IS:733 and IS:1285 fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions at top,bottom, and sides with required neoprene felt etc aluminum sections shall be smooth, rust free straight mitered and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing/paneling C.P. brass/stainless steel screws, all complete Shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required including aluminum fitting. Powder coated.	980.00	Kg.	P.Kg.	

50	17.97	Providing and Fixing 12mm Thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to I.S 12823 grade 1 type II in panelling fixed in aluminium doors. Windows Shutters and Partitions frames with C.P Brass/Stainless Steel Screws etc complete(make: Merrino)				
	(b)	Pre - laminated particle board with Decorative Lamination On both Side and balancing lamination On Both Sides	561.00	Sqm	P.Sqm	
51	17.98	Providing and fixing glazing in aluminum door, windows, ventilator shutter and partitions etc. with PVC /neoprene gasket etc complete (cost of aluminum snap beading shall be paid in basic items)				
	a)	With float glass panes of 4.0mm thickness.	202.00	sqm	Per sqm	
	b)	With float glass panes of 5.0mm thickness.	119.00	sqm	Per sqm	
52	17.100	Providing aluminium jali of thickness of 7 mm thick with opening 75 mm x 75 mm of including anodizing and fixing in fra,e with cost of screws etc. complete.	65.00	sqm	Per sqm	
53	18.12	Wrought iron and mild steel (using angles, flats, square bars, tee and channels)ladders, grills, grating frames, window guards, iron doors openable or fixed stair case or parapet or any other type of railing, gates and tree guards etc. including cost of screws and welding rods or bolts and nuts complete fixed in position.	85.00	Qtl.	P.Qtl.	
54	18.22	Fe-500 EQR TMT steel bars for bars RCC, works, where not including rate of RCC including bending, binding and placing in position complete.	6815.00	Qtl.	P.Qtl.	
55	18.30	Supplying and fixing glass panes including special metal sash putty of approved make				
	(a)	Glass panes 3mm thick, exceeding 40 sq m areas	350.00	sqm	Per sqm	
	(b)	Glass panes 4mm thick, exceeding 40sq dm area.	150.00	sqm	Per sqm	
56	18.30 + Chapter 17- Note V	Supplying and fixing glass panes including special metal sash putty of approved make glass panes 4mm thick, exceeding 40 sq m areas	802.00	sqm	Per sqm	
57	18.34	Pressed steel sheet frames (chowkats), consisting of 2mm thick steel sheet of the specified section, including iron lugs (hold fasts), iron hings, confirming to PWD specifications, including bolts for fixing stops, locknutch, provision for receiving tower bolts and finished with one coat of ready mixed paint red lead non setting primer of approved quality, fixed in position including the cost of cement concrete 1:3:6 for filling in the frame, and cement concrete 1:3:6 for lugs complete.				

	i)	Door and window frame of size 89mmx50mm with 40mm wide single rebate	5819.00	Mtr	Per Metre	
	ii)	Door and window frame of size 76x38 mm with 35mm wide single rebate.	5400.00	Mtr	Per Metre	
	iii)	Door and window frame of size 127x50 mm with 35mm wide single rebate.	5720.00	Mtr	Per Metre	
58	24.35 a)	Providing and fixing premoulded bituminous joint filler, for expansion joints, including the cost of sealing compound and primer coat (a) 12 mm wide	77728.00	Mtr	P.Cm. Depth	
59	N.S.	Providing and fixing good quality door buffer.	739.00	Nos.	Each	
60	N.S.	12 mm thick cement plaster 1:4 (1 cement : 4 course sand) mixed with Cicco as per specification complete to the entire satisfaction of Engineer-in-Charge .	692.00	sqm	Per sqm	
61	N.S.	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm 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 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm 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	4494.00	sqm	Per sqm	
		c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. 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 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				

		With average thickness of 120 mm and minimum thickness at khurra as 65 mm				
62	N.S.	Supply and filling of tibba sand in side building in 15 cm layers i/c. watering, ramming, compaction etc. complete as per entire satisfaction of the Engineer-in-Charge of the work.	9696.00	cum	P.Cum	
63	N.S.	Providing and fixing aluminium eye hook 150 mm long including screws etc. complete to the entire satisfaction of Engineer-in-Charge.	280.00	Nos.	Each	
64	N.S.	Providing and fixing MS Tube of different sizes including welding, fixing etc. complete to the entire satisfaction of Engineer-in-Charge.	54844.00	Kg.	P.Kg.	
65	N.S.	Providing and filling of expansion joint (upto 75 mm wide) (Horizontally or Vertically) with Poly-Sulphide sealant (Pidilite or equivalent) as per the following procedure or as recommended by the manufacturer complete in all respect to the satisfaction of Engineer-in-Charge.				
		1. The expansion joint should be made free from dust, oil, greese, moisture etc.				
		2. Backup material like expanded polythylene armour sheet 75-80 mm thick should be inserted in the joint.				
		3. Primer to be applied on both sides of RCC to ensure proper bonding of the sealant.				
		4. Polysulphide sealant to be placed in position after proper mixing. Minimum depth. Of the sealant to be kept as 25 mm or as per manufacturer specifications.				
		Finally the sealant be subjected to tooling.	276.00	Rmt	P.Rmt.	
66	N.S.	Earth work in excavation in foundations, in all kinds of soils, including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling in 15 cm. layers with compaction, including disposal of all surplus soil, as directed within University Campus, ramming of Bottom etc. complete.	7538.00	cum	Per cum	
67	N.S.	Providing and fixing S.S. Clothes hangers 6 No. hook rack with necessary screws etc. complete as per direction of engineer-in-charge.	53	Nos.	Each	
68	NS	Providing and laying foam concrete in sunker portion as per direction of Engineer-in-Charge.	138.00	cum	Per cum	
69	NS	Dewatering sub soil water upto depth of site requirement.	7580.00	sqm	Per sqm	
70	N.S.	Providing and fixing chicken mess including nails with drilling in RCC or brick work on external surface of wall at all level i/c. scaffolding etc. complete in all respected as per instructing of Engineer-in-Charge.	64.00	sqm	Per sqm	
71	NS	Pdg. & fixing tower bolt of aluminium ISI mark with screws etc. as per sample approved complete to the entire satisfaction of Engineer-in-Charge				

	a)	200 mm x 10 mm	1381.00	Nos.	Each	
	b)	150 mm x 10 mm	1804.00	Nos.	Each	
	c)	100 mm x 10 mm	1332.00	Nos.	Each	
72	NS	Pdg. & fixing aluminium handle ISI Mark as per sample approved complete to the entire satisfaction of Engineer-in-Charge				
	i)	125 mm	2752.00	Nos.	Each	
	ii)	100 mm	1200.00	Nos.	Each	
	iii)	75 mm	972.00	Nos.	Each	
73	N.S.	Providing and fixing non skid floor tile size 300 x 300 mm in cement sand mortar 1:3 (1 Cement : 3 C.Sand) completed to the entire satisfaction of Engineer-in-Charge.	456.00	sqm	Per sqm	
74	NS	Pdg. & fixing aluminium door stopper twin including screw etc. complete to the entire satisfaction of Engineer-in-Charge	618.00	Nos.	Each	
75	N.S.	Providing and fixing 350mm wide aluminium sheet 1.25 mm thick act as per dradle for expansion joint at slab level in V shape including bending and cutting to the required size, placing in position & embending in concrete complete in all respect.	109.00	Rmt	P.Rmt.	
76	N.S.	Providing and fixing 20 mm dia hanger rod with GI pipe i/c. clamp etc. in cup board complete to the entire satisfaction of Engineer-in-Charge.	138.00	Mtr	Per Mtr.	

DETAILED NOTICE INVITING TENDER

Name of the work : Construction of Boys Hostel for 300 students capacity in MDU, Rohtak (PHA Service).

Sr. No.	H.S.R Ref. No.	Description	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
<u>Public Health Items</u>					
1	6.10 - 6.12 Note (i)	Excavation of trenches in streets, lanes or in open areas for storm sewer, sewers running by gravity and manholes to full depths as shown in drawings including shoring timbering of poling boards, frame system type, dressing to correct sections and dimensions, according to templates and levels, dewatering, provision for diversion of traffic, cutting trees and bushes etc. night signals, profile, pages, sight rails, boning rods, crossing over trenches for access to the houses, watching fencing etc. fixing and maintenance of caution board refilling of trenches, watering of refill, in 15 cm layers ramming and restoration of unmetalled or unpaved surface soil, from site of work upto a lead of 1 km. in ordinary soil. a) For depths of excavation not exceeding 3 meters below ground level but without timbering.	354.00	Cum	Per cum
2	10.28	Cement concrete 1:8:16 with stone aggregate 40mm nominal size in foundation and plinth.	91.00	Cum	Per cum
3	10.59	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in first storey upto 4 metres above plinth level			
	a)	1st storey	18.00	Cum	Per cum
	b)	2nd storey	19.00	Cum	Per cum
	c)	3rd storey	19.00	Cum	Per cum
4	10.81	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work in shelves excluding steel reinforcement, but including centring and shuttering, laid in position, complete in all respects.	5.00	cum	Per cum
5	11.3	First Class brick work laid in cement sand mortar 1:5 in foundation and plinth	10.00	Cum	P.Cum
6	11.48 (a)	11.43 cm. thick brick wall laid in cement sand mortar 1:4 in super structure	18.00	Sqm	Per sqm
7	15.3 + 15.75	12mm thick cement plaster 1:2 including Cement rendering on plaster 1 mm thick	78.00	Sqm	Per sqm
8	28.18 (b)	Labour for laying jointing fixing and testing G.I./PVC pipeline & special building and testing etc. complete including cutting threading			
	i)	15mm I/d of Pipeline	629	Mtr	P.Mtr.
	ii)	20mm -do-	893	Mtr	P.Mtr.
	iii)	25mm -do-	903	Mtr	P.Mtr.
	iv)	32mm -do-	100	Mtr	P.Mtr.

	v)	40mm -do-	937	Mtr	P.Mtr.	
9	28.19	Labour for laying jointing fixing and testing GI / PVC / WI pipelines and specials tees, bends, socket, elbows etc. in trenches in the ground, cutting, threading and testing etc. complete.				
	f)	50mm I/d	681	Mtr.	P.Mtr.	
10	28.24	Cutting holes upto 23 cem through stone masonry or brick work in cement walls for pipes and making good.				
	a)	11.43 cm thickness of walls.	10	Nos.	Each	
	b)	22.86 cm thickness of walls.	20	Nos.	Each	
11	28.26 (b)	Cutting holes upto 23 cm square for pipes in floor and roofs of cement concrete reinforced concrete or reinforced brick work and making good.				
	c)	150 mm thickness of floor.	10	Nos.	Each	
12	28.28	Fixing galvanised malleable iron holder bats hold fasts to pipe to pipe lines fixed on walls and ceilings including all cuttings to walls and making good to original condition.				
	a)	15mm I/d	550	Nos.	Each	
	b)	20mm I/d	700	Nos.	Each	
	c)	25mm I/d	580	Nos.	Each	
	d)	32mm I/d	160	Nos.	Each	
	e)	40mm I/d	550	Nos.	Each	
13	28.34	Making connection with the existing GI branch main up to 40mm size including cutting and threading pipe etc., complete excluding cost of tee and long screw, but including cartage of material to site	2	Nos.	Each	
14	28.47 (a)	Bailing out water from the trenches for making new connections in fully charges pipe lines size of the main with which connection is to be made. A) Upto 200 mm internal diameter	2	Nos.	Each	
15	29.40	Cutting glazed stoneware pipes and specials chipping and finishing the cut surface to a uniform surface and roughing the part of the pipes, if any entring the sockets of the adjacent pipes complete to the satisfaction of the Engineer-in-Charge of the works				
	b)	150 mm internal dia	450.00	Cut	Per Cut	
	d)	200 mm internal dia	276.00	Cut	Per Cut	
	e)	250 mm internal dia	158.00	Cut	Per Cut	

16	29.84	Constructing brick masonry inspection chamber sizes as given below up to 0.60 metre average depth in 1:5 lime concrete 1:2:4 benching 12mm thick cement plaster. RCC 1:2:4 slab 100mm thick/CC topping 50mm thick with 455mmx455mm/455mmx610mm inside light duty C.I. inspection chamber cover and frame with 3 coats of black bitumatic.				
	c)	Size 600mmx900mm inside (455mm x 455mm cover and frame light duty single seal weighing 20 kg with RCC slab.)	33	Nos.	Each	
17	29.85 (c)	Extra for over 0.30 metre depth of inspection chamber. 600 mm x 900 mm	10.00	Mtr	Per 0.30 mtr. Depth	
18	30.2 (a) (i)	Providing & fixing in position best indian make Indian type Orissa or orya water closet suite complete with 100mm H.C.I. 'P' trap and allother necessary fittings. (a) Size 580 mm (i) White	74	Nos.	Each	
19	30.4	Providing and fixing in position best Indian make European type water closet suit with Non-concealed 'P' or 'S' trap	14	Nos.	Each	
20	30.12	Extra over item No. 30.1 to 30.4 & 30.6 for Prov. & fixing 15 ltr. Cap. Vitreaous china high level cistern complete low level Cistern complete.	14	Nos.	Each	
21	30.13 (i)	Extra over item No. 30.3 to 30.6 for providing and fixing best indian make plastic hygenic seat. i) White plastic seat (solid)	14	Nos.	Each	
22	30.15 (b)	Extra for Prov. & fixing 32mm dia G.I. /C.P. flush pipe complete with accessories instead of 32mm dia galvanised telescopic flush pipe with clips b) 32 mm dia C.P. brass flush pipe.	14	Nos.	Each	
23	30.26 (i)	Providing & fixing in position best Indian make a range of two urinals large back or angular lipped front 610 m high in vitreous china ware with 5 liters capacity best Indian make CI automatic flushing cistern with fittings and flush pipe etc. complete as. (i) White	80	Set	P.Set	
24	30.37 (a) i	Extra for providing and fixing Vitreous automatic flushing Cistern Including fittings and brackets instead of G.I. flushing Cistern Complete (a) 5 Litres Capacity Cistern (i) White	40	Nos.	Each	
25	30.38 (ii)	Extra for providing and fixing standard size C.P. brass flush pipe complete with fittings Instead of G.I. flush pipe complete. (ii) For a range of two urinals	80	Nos.	Each	
26	30.40 (a)	Providing and fixing 25mm thick marble portitions for differet type of urinals (a) Size 375mm x 750mm	40	Nos.	Each	

27	30.42 (v)	Providing & fixing in position best Indian make lavatory suites (With full anti Splash Rim in Vitreous Chinaware) and all other nessary fittings as fully described in item No.30.41. (v) Size 630 mm x 510 mm with one No. tap.	40	Nos.	Each	
28	30.75	Providing and fixing in position 15 mm i/d C.P. brass bib cocks of best quality 9as required by the Engineer-in-Charge)				
	a)	Long body bib cock.	154	Nos.	Each	
	c)	Bib Cock	117	Nos.	Each	
29	30.76 (a) ii	Providing and fixing in position C.P. brass stop cocks (as approved by the Engineer-in-charge) (a) 15mm Stop Cock (ii) Concealed stop cock with flange	65	Nos.	Each	
30	30.82 (b) (ii)	Providing and fixing in position best indian make flexible tube connection. B. C.P. Brass. ii) 15 mm x 375 mm	169	Nos.	Each	
31	30.84	Providing and fixing in position H.C.I. soil waste vent or antisiphonage pipes to I.S.I. specification of E.I.C. manufacture or of any other reputed firm including cutting and wastage etc and cutting holes in walls roofs or floor etc and making good but ecluding cost of lead jointing				
	a)	100 mm internal diameter	331	Mtr	P.Mtr.	
	b)	75 mm internal diameter	490	Mtr	P.Mtr.	
32	30.87	Providing lead caulked joints to H.C.I. pipes and specials conforming to I.S.I. specification of E.I.C. manufacture or any other reputed firm including cost of lead yarn fuel and tools etc.,				
	a)	100 mm internal diameter	370	Nos.	Each	
	b)	75 mm internal diameter	509	Nos.	Each	
33	30.88	Providing and fixing in position M.S. or heavy flat iron clamps M.S. C.I. soil waste complete in all respects including cutting and making good the walls and floors etc., and painting				
	a)	100 mm internal diameter	50	Nos.	Each	
	b)	75 mm internal diameter	62	Nos.	Each	
34	30.89	Providing and fixing H.C.I. floor traps I.S.I. marked of the self cleaning besign with C.P. brass hinged grating with frame with or without vent arm and including cement concrete complete in all respects including cutting and making good the walls and floors etc.				
	b)	with 75 mm i/d outlet	47	Nos.	Each	
35	30.91	Providing and fixing in position HCI specials for soil waste vent or anti syphonage pipes to ISI marked including cutting holes in walls roofs or floors etc and making good but excluding cost of lead jointing for 100 mm dia.				

	a)	For 100 mm I/D Pipes				
	1)	Heal rest bend.	12	Nos.	Each	
	4)	Single junction with door 100mmx100mmx100mm	24	Nos.	Each	
	6)	Single junction plain.	12	Nos.	Each	
	9)	Cowels.	12	Nos.	Each	
	17)	Door piece.	12	Nos.	Each	
	22)	Collars	110	Nos.	Each	
	b)	For 75 mm I/D Pipes				
	1)	Heal rest bend.	16	Nos.	Each	
	4)	Single junction with door 75mmx75mmx75mm	32	Nos.	Each	
	6)	Single junction plain.	16	Nos.	Each	
	13)	Bend with door.	32	Nos.	Each	
	14)	Plain Bend	16	Nos.	Each	
	16)	Door piece.	16	Nos.	Each	
	17)	Cowls	16	Nos.	Each	
	18)	Collars	126	Nos.	Each	
36	30.93 (c)	Providing and fixing lead inlet connection with brass union for finishoing and warning pipes complete in all respect . (c) 15 mm alkathene pipe inlet connections.	129	Nos.	Each	
37	30.95 (a)	Cutting chase in brick walls in cement or in floor for embedding G.I. or H.C.i. pipe lines and making good the same to its original condition. size 75 mm x 75 mm	1422.00	Mtr	Per Metre	
38	30.110 (b) ii	Providing and fixing in position automatic brass ball valves in Tanks (HSR 30.110 (b) (i) (b) With Plastic Ball (ii) 20mm Internal Dia	12	Nos.	Each	
39	30.114	Providing and fixing in position gully traps fixed in cement concrete with HCI grating 150mmx150mm cast iron cover weighing approximately and frame clear opening 300mmx300mm and chamber including cement mortar cement concrete in foundations and cement concrete in coping C.I. with three coats paint C.I. as per standard design	26	Nos.	Each	

40	30.119	Providing and fixing HDPE water storage tanks of Syntex, Diplast, O.K. make with covers / lids marked with IS:12701 on roof top of buildings including cost of hoisting and placing in position making connections with inlet and outlet pipes providing overflow & scour provisions with suitable plug on scour pipe including cost of nippels, washers, flanges for connections in tanks complete in all respects to the satisfaction of Engineer-in-Charge. Except civil Work).				
	b)	3000 Ltr. Capacity.	12	Nos.	Each	
41	N.S.	Providing and fixing gun metal peet valve.				
	a)	40 mm	4	Nos.	Each	
	b)	50 mm	2	Nos.	Each	
42	N.S.	Providing and fixing G.I. Union coupling U / Unik Make.				
	i)	20 mm dia	28	Nos.	Each	
	ii)	25 mm dia	28	Nos.	Each	
	iii)	40 mm dia	20	Nos.	Each	
	iv)	50 mm dia	14	Nos.	Each	
43	N.S.	Providing and fixing CP jet to european make.	14	Nos.	Each	
44	N.S.	Looking glass 10' x 2.1/2' with Teak Wood moulding 75x25mm with 6 mm commercial ply as per entire satisfaction of Engineer-in-Charge.	12	Nos.	Each	
45	N.S.	Supplying GI pipe "B" class TATA / Jindal make.				
	i)	15 mm dia	665	Mtr.	Per Mtr.	
	ii)	20 mm dia	955	Mtr.	Per Mtr.	
	iii)	25 mm dia	956	Mtr.	Per Mtr.	
	iv)	32 mm dia	110	Mtr.	Per Mtr.	
	v)	40 mm dia	995	Mtr.	Per Mtr.	
	vi)	50 mm dia	710	Mtr.	Per Mtr.	

Condition:-

1. List of approved make is attached. Beyond this, IS approved (Approved by the Engineer-in-Charge) to be adopted wherever not mentioned.
2. The quantities may increase upto 10% of DNIT quantity, if required at site.

DETAILED NOTICE INVITING TENDER

Name of the work : Construction of Boys Hostel for 300 students capacity in MDU, Rohtak (E.I.)

Sr. No.	H.S.R Ref. No.	Description	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
1	6.6	Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres.	600	Cum	Per 100 cum
2	10.26	Cement concrete 1 : 8 : 16 with brick ballast 40 mm nominal size in foundation and plinth.	40	Cum	Per cum
3	11.4	First class brick work laid in cement sand mortar 1 : 4 in foundation and plinth.	150	Cum	Per cum
4	15.5	12 mm thick cement plaster 1 : 4	1250	Sqm	Per sq mtr
5	31.12	(A) Main Switches. Supply and erection of metal clad switches / B.D.B.s with rag bolts on wall or on existing angle iron board/pedestal including bonding to earth and necessary connections : (xv) Tripple pole switch with neutral link 63 amp. 415 Volts (Cat. B) (xvi) Tripple pole switch with neutral link 100 amp. 415 Volts (Cat. A) (xvii) Tripple pole switch with neutral link 200 amp. 415 Volts (Cat. A) (xviii) Tripple pole switch with neutral link 300/320 amp. 415 Volts (Cat. A)	4 17 12 2	Nos	Each
6	31.12	(C) Moulded case circuit breakers Supply and erection of moulded case circuit breaker on wall or on existing pedestal including bonding to earth and necessary connections: (ii) 100 amp to 220 amp 415 V 10 K.A. 3 Phase (iii) 250 amp 415 V 10 K.A. 3 Phase (iv) 300 amp to 400 amp 415 V 35 KA 3 Phase	1 4 2	No. Nos Nos	Each Each Each

7	31.13	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. (ii) Size 40 mm x 40 mm x 6 mm	150.00	Mtr	Per mtr.
8	31.14	Supply and erection of 3 mm 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.	45.00	Sqm	Per Sqm
9	31.15	Supply and erection of sheet steel enclosures 2 pole /3 pole with earth plug and socket suitable for incorporating single pole / triple pole MCB on wall / on existing pedestal complete with necessary connections etc. (ii) S.P.N. enclosure for single pole MCB 20 Amp.	14	Nos	Each
10	31.16	Supply and erection of blanking sheet in existing distribution board.	62	Nos	Each
11	31.17	Supply and erection of miniature circuit breaker / isolator 240 / 415 V in the existing distribution board including making necessary connections. 230 Miniature Circuit Breakers of 9 K.A. breaking capacity. (ii) 6 amp to 32 amp SP MCB (ii) 6 amp. to 32 amp SPN MCB (iii) 40 amp to 63 amp TPN MCB	1069 12 61	Nos Nos Nos	Each Each Each
12	31.18	(M) Supply and erection of Fittings and Accessories: (xi) Bakelite angle/straight button holder large size (xxii) Erection only of 1 x 40 watts or 2 x 40 watts 1220 mm long / 1 x 20 watts or 2 x 20 watts 610 mm long fluorescent tube with fittings by means of 2 nos. 20 mm diameter conduit pipe 1.60 mm thickness conduit pipe with spring loaded brass flange at both ends including 0.75 sqmm (24/0.20 mm) PVC copper flexible cable for connecting the tube to the adjacent light point including cost of conduit pipe flanges PVC flexible cable and petty material required for the same (upto ½ metre length of pipe).	813 99	Nos Nos	Each Each

		(xxiii) Extra for additional length of 20 mm dia conduit pipe for hanging of fitting (for item no. xxi, xxii).	99.00	Mtr	Per mtr.	
		(xxiv) Erection only of 1 x 40 watts or 2 x 40 watts 1220 mm long / 1 x 20 watts or 2 x 20 watts 610 mm long fluorescent tube fittings directly on wall including necessary connections with 0.75 sqmm (24/0.20 mm) PVC copper flexible cable for connecting the tube with the adjacent light point.	528	Nos	Each	
		(xxvi) 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 100 mm dia 30 cm long mild steel rod made into suitable suspension hook and erected in RCC 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.	435	Nos	Each	
		(xxxiii) Pdg. one extra junction box with 0.55 meter long 20 mm dia conduit pipe for the erection of fluorescent tube fitting complete with all required labour and material.	99	Nos	Each	
13	31.2	(O) Erection and carriage of Fans.				
		(i) Erection of ceiling fan complete with necessary earthing of fan and regulator including carriage from local railway station / goods transport / PWD store to the site of work.	435	Nos	Each	
		(iii) Erection of exhaust fan complete with necessary earthing of fan and regulator including carriage from local railway station / Goods transport / PWD store to the site of work.	46	Nos	Each	
		(v) Making suitable hole in the wall upto 450 mm sweep exhaust fan including finishing the same and fixing of wire mesh duly fixed with Deodar wook frame of section 40 mm x 25 mm thick.	46	Nos	Each	
14	31.21	Pipe laying Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required:				

		(xv) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness on surface.	100.00	Mtr	Per mtr
		(xvi) Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness on surface.	100.00	Mtr	Per mtr
		(xxi) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	500.00	Mtr	Per mtr
		(xxii) Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed.	6500.00	Mtr	Per mtr
		(xxx) 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.:			
		(a) PVC pipe 120 mm dia	100.00	Mtr	Per mtr
		(b) (b) PVC pipe 80 mm dia	100.00	Mtr	Per mtr
		(c) © PVC pipe 65 mm dia	100.00	Mtr	Per mtr
15	31.22	Earthing 230Earthing with G.I. earth pipe 4.5 mtr long and 40 mm dia with masonry enclosures on the top tec. as required.	2	Nos	Each
		(ii) Extra for using salt and charcoal / coke for pipe earth electrode as required.	2	Nos	Each
		(iv) Earthing with tinned copper earth plate 600 mm x 600 mm x 3 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. complete as required.	14	Nos	Each
		(v) Extra charcoal or coke and salt for G.I. plate or copper plate earth electrode.	14	Nos	Each
		(x) Pdg. and fixing 25 mm x 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode as required.	200	Mtr	Per mtr

		(xiii) Pdg. & 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.	220.00	Mtr	Per mtr
		(xiv) Pdg. and fixing 25 mm x 5 mm copper stirp on surface or in recess for connections etc. as required with all labour and material.	200.00	Mtr	Per mtr.
		(xvii) Pdg. and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	260.00	Mtr	Per mtr.
16	31.24	Galvanised iron. (ii) Excavation earth pit 180 cm round at top and 90 cm at bottom 4.5 meteres deep and refilling the same in plains including supply of necessary charcoal/coke and salt mixture.	12	Nos	Each
		(iv) Supply and erection of 60 cm x 60 cm x 6 mm thick galvanised iron plate including necessary bolts and nuts to G.I. tape.	12	Nos	Each
		(v) Providing standard watering tank including down pipe and C.I. cover with locking arrangement etc.	12	Nos	Each
		(vi) Supply and erection of 20 mm x 3 mm thick lightening conductor G.I. stapples of same size.	1540.00	Mtr	Per mtr
		(vii) Supply and erection of G.I. tape 32 mm x 6 mm thick from earth electrode directly in ground and surface fixed wit G.I. stapples of same size.	460.00	Mtr	Per mtr.
		(viii) Supply and erection of 25 mm dia metre 1.5 metre long lightening G.I. tube rod tapered into a pint at the top with 16 cm x 6 cm x 3 mm thick G.I. base plate and necessary nuts and bolts with washers.	12	Nos	Each
17	31.26	Supply and erection of underground cable, loose in existing pipe or trenches complete with necessary connections: (iv) 10 sq mm 2 core cable armoured (xxviii) 70 sqmm 3 ½ core cable armoured (xxix) 95 sqmm 3 ½ core cable armoured (xxxi) 150 sqmm 3 ½ core cable armoured	600.00 100.00 400.00 300.00	Mtr Mtr Mtr Mtr	Per mtr. Per mtr. Per mtr. Per mtr.

		(xxxv) 400 sq mm 3½ core cable armoured	400.00	Mtr	Per mtr.	
		(xli) 35 sqmm 4 core cable armoured	20.00	Mtr	Per mtr.	
18	31.28	Supply and erection of suitable compression type brass Cable glands for underground cable: (ii) 10 sq mm to 16 sq mm cable 2 to 4 core (iii) 25 sq mm. to 50 sq mm Cable 2 to 4 core (iv) 70 sq mm to 95 sq mm 3 to 3½ core (v) 120 sq mm to 185 sq mm cable 3 to 3½ core (vii) 300 sq mm to 400 sq mm cable 3 to 3½ core	12 2 27 4 1	Nos Nos Nos Nos Nos	Each Each Each Each Each	
19	31.31	Supply and erection of metal clad bus bar chamber made from 1.6 mm thick M.S. sheet fixed with rag bolts on wall or on existing pedestal/angle iron frame including bonding to earth, detachable top and bottom painting and necessary connections etc. (Copper bars duly tinned). (ii) 100 amp. 4 bars of 55 cm each (cross section 25 mm x 3 mm), chamber overall size 60 cm x 45 cm x 18 cm. (iv) 200 amp. 4 bars of 55 cm each (cross section 25 mm x 5 mm), chamber overall size 60 cm x 45 cm x 18 cm. (v) 200 amp. 4 bars of 100 cm each (cross section 25 mm x 5 mm), chamber overall size 1.10 cm x 45 cm x 18 cm. (viii) 300 amp. 4 bars of 100 cm each (cross section 40 mm x 5 mm), chamber overall size 1.10 cm x 55 cm x 23 cm.	11 4 4 2	Nos Nos Nos Nos	Each Each Each Each	
19	31.35	(i) Supply of M.S. pipe (B-Class) for suspensin rod of ceiling fan including threading if required. (a) 15 mm dia (iii) Supply and erection of caution notice plate in three languages. (iv) Supply and erection of shock restoration chart in glass frame. (vii) Supply and erection of 75 mm x 75 mm x 60 mm deep M.S. box for telephone and inter-communication system including 2 pin 5 amp socket including cost of bakelite sheet.	350 22 1	Nos Nos Nos	Each Each Each	

		(ii) Cable size 2.5 sqmm (3/1.05 mm) (iii) Cable size 4 sqmm (7/0.85 mm) (iv) Cable size 6 sqmm (7/1.05 mm) (v) Cable size 10 sqmm (7/1.35 mm) (vi) Cable size 16 sqmm (7/1.70 mm) (vii) Cable size 25 sqmm (7/2.14 mm) (viii) Cable size 35 sq mm (7/2.52 mm)	12440.00 5500.00 700.00 100.00 100.00 100.00 100.00	Mtr Mtr Mtr Mtr Mtr Mtr Mtr	Per mtr. Per mtr. Per mtr. Per mtr. Per mtr. Per mtr. Per mtr.	
22	31.41	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 the entire satisfaction of the Engineer-in-charge of the work. (v) 4-way, TP&N (Horizontal) (8+12) (vi) 8-way, TP&N (Horizontal) (8+24)	 2 59	 Nos Nos	 Each Each	
23	31.44	Supply and erection of PVC conduit pipe ISI marked (Medium) recessed in wall / ceiling etc. including cost of PVC bends, inspection box and all other material required to complete the job in all respect upto the entire satisfaction of the Engineer-in-charge of work. (b) 25 mm dia.	 4500.00	 Mtr	 Per mtr.	
24	31.45	Supply and erection of copper lugs including crimping etc. upto the entire satisfaction of Engineer-in-charge of work. (a) 1.5 sqmm to 2.5 sqmm (b) 4 sqmm to 6 sqmm © 10 sqmm (d) 16 sqmm (e) 25 sqmm (f) 35 sqmm	 1420 774 120 120 120 124	 Nos Nos Nos Nos Nos Nos	 Each Each Each Each Each Each	

25	31.48	Supply and erection of MS saddles and clamps on wall/RCC parapit for fixing underground cable at a distance of 0.60 meter centre to centre fixed by means of rawl plug including the cost of all labour and material required to complete the job in all respect.	2500	Nos	Each	
26	31.55	Supply and erection of socket size rotary step type electronic regulator for AC ceiling fan 'Anchor' make Deluxe Model no. 50440 ISI / SSK make PC 561 operated on 120/280 V A.C. supply complete including cutting of existing Bakelite sheet and making necessary connections etc. upto the entire satisfaction of the Enginee-in-charge of the work.	435	Nos	Each	
27	31.63	Supply, installation, testing and commissioning of Wall / free floor mounting dust & vermin proof compartmentalized cubical panel made out of 2 mm thick CRCA sheet, required hardware 3 mm thick Bakelite sheet provided all along the bus bar and cable alley separating switches compartment and supporting suitable channel duly painted by 2 coat of Zine / Red oxide primer followed by 2 coats of powder coating in grey or required shade after rinsing . The panel having PU / Neoprene rubber gasket of not less than 3 mm thickness separate detachable gland plate MS base channel hinged door with inter locking arrangement for equipment / switch wear. Transparent acrylic sheet shall be provided in front of bus bar compartment to prevent direct access to bus bar Bakelite sheet 3 mm thick for separately cable alley to BBC from switch chamber Extended solid copper bars up to cable alley shall be provided for outgoing connection which shall be paid as extra items. Side walls and cable alley compartments shall be having bolted type doors with detachable extension type structure. The panel will be complete with control wiring (copper) and fuse protection (Only outer area on all sides shall be measured).	12.00	Sqm	Per sqmtr.	
28	31.64	Supplying and fixing of copper bus bar duly tinned by means of SMC/DMC type insulator high tensile nuts and bolts spring washers fixing to same in existing panel including bending, cutting in required shape and size and insulation with colour coding heat shrinkable PVC insulation complete in all respect.	300	Kg.	Per Kg.	
29	31.65	Providing and fixing digital metering equipment for LT	1	Set	Per Set	

		cubical panel consisting of 96 mm x 96 mm 0-500 V voltmeter with selector switch. Amp meter (of required ratio				
30	N.S. 1	Supply and erection of C.T. meter in existing panel with necessary connection of required size of copper wire with all satisfaction of the Engineer-in-charge of the work. (Secure	1	No.	Each	
31	N.S. 2	Supply and erection of LED fitting 150 watt on existing M.S. angle iron frame etc. on the terrace of the building Philips / Link Lite / Wipro make (JMS product).	12	Nos.	Each	
32	N.S. 3	Supply and erection of M.S. cable box made of M.S. sheet 1.60 mm thickness square type for various types of TPN switches on existing M.S. angle iron frame including welding, cutting & fixing complete in all respect with all satisfaction of the Engineer-in-charge of the work. (a) For TPN switches 63 Amp. (b) For TPN switches 100 Amp. (c) For TPN switches 200 Amp. (d) For TPN switches 300 Amp.	4	Nos.	Each	
			17	Nos.	Each	
			12	Nos.	Each	
			2	Nos.	Each	
33	N.S. 4	Supply and fixing modular type information outlet RJ-45, Cat. 6 Data, front plate and switches and metal box 1.60 mm thickness on surface or recess including connection etc.	302	Nos.	Each	
34	N.S. 5	Supply, laying, termination, testing & commissioning of 4 pair UTP Cat. 5 E PVC insulated, PVC sheathed tinned copper conductor cable in existing surface / recessed steel conduit as required with all satisfaction of the Engineer-in-charge of the work. Polycab make	1000.00	Mtr	Per mtr.	
35	N.S. 6	Supplying & drawing pair 0.50 sqmm FR PVC insulated copper conductor un-armoured telephone cable in existing pipe / recessed / on surface complete Polycab make in all respect and satisfaction of the Engineer-in-charge on the work.	500.00	Mtr	Per mtr.	
36	N.S.7	Supply and erection of Co2 type fire extinguisher of capacity 4.5 kg. ISI mark as per IS 933 for B & C class of fire. The fire extinguisher is to be erected on the existing walls by	2	Nos	Each	
37	N.S.8	Supply and erection of rubber mat size 1 mtr. x 2 mtr., 12 mm thick of superior quality and of standard make to be laid in floor in the H.T. room in front of panels and transformer.	2	Nos	Each	

38	N.S.9	Providing and fixing in position approved shock treatment chart written in Hindi and English duly framed in wood frame with glass complete as required as per I.E.	1	Nos	Each	
39	N.S.10	Supply and erection of ACB of capacity 1000 Amp. 4 pole mechanically interlocked horizontal draw out manually operated complete with voltage release shunt trip with channel curb 4 nos. (NC + NO) auxiliary contact 4 pole manually operated horizontal draw out type fully interlocked air circuit breaker cubical.	1	Nos	Each	
40	N.S.11	Supply and filling of river sand in existing trench for underground H.T. cables as per entire satisfaction of the Engineer-in-charge.	60.00	Cum	Per cum.	
41	N.S.12	Supply and erection of 1 st class bricks on existing cable in trench as per entire satisfaction of the Engineer-in-charge.	9200	Nos	Each	
42	N.S.13	Holing / drilling of road by machine for laying required size of PVC pipe / C.I. pipe as per entire satisfaction of the Engineer-in-charge.	50.00	Mtr	Per mtr.	
43	N.S.14	Providing and fixing precast RCC (1:1½:3) cable route marker of size 0.75 mtrs. Deep / 0.25 mtrs. Width x 0.15 mtrs. thick. 0.25 mtrs. Below top of side wall and proper embedded in wall. The writing words, H.T. CABLE on the three side of route markers including arrow on two sides with approved make of enamel paint of red colour including white colour Apex of approved make with 6 nos. vertical tor steel bars 12 mm dia as per instructions and as per entire satisfaction of the Engineer-in-charge.	15	Nos	Each	
44	N.S.15	Supply and erection of tibba sand in existing trenches free from rock etc.	80.00	Cum	Per cum.	

Note :

- 1 The underground cable will be used of Havells / Polycabe / Plaza make. No extra payment will be allowed on this account.
- 2 PVC pipe of 6 Kg. pressure Kasta / Swastik / Supreme make of HSR item no. 31.21 will be used if required. No extra payment will be allowed on this account.
- 3 The materials used for HSR item no. 31.12, 31.15, 31.17 and 31.41 will be used of Standard/Havells/Indoasian make if required and no extra payment will be allowed on this account.
- 4 PVC copper wire 31.38, 31.39 and 31.40 will be used of Havells / Polycabe / Standard make if required and no extra payment will be allowed on this account.
- 5 Air Circuit Breaker of all capacity / sizes will be used of ABB / Simens / L & T / Indoasian make and no extra payment will be allowed on this account

DETAILED NOTICE INVITING TENDER**NAME OF THE WORK:- 'CONSTRUCTION OF BOUNDARY WALL TOWARDS RAILWAY SIDE AT MDU ROHTAK'****APPROX. LENGTH = 1700 MTR****App. Amt. Rs.1.60 Crores
Earnest Money Rs. 1,60,000/Rs. 3,20,000/
Time Limit: 02 months**

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Rate to be quoted by the Contractor (Rs.)
A.		EARTH WORK			
1	21.1	Providing under reamed cast in situ piles using controlled concrete grade M-20 designed mix, 3.5 m deep including boring and getting out the soil and disposal upto a lead of 100m including cost of steel reinforcement jointing the tiles with main bars with welding and also all T&P complete in all respects:-			
	3	250mm dia under reamed pile	374.00	Each	
	III)	Extra For Every Additional 1 mt Length of Pile, over length mentioned in item no. 21.1			
	(b)	250mm dia	561.00	Each	
2	NS	Extra Ever item no 21.1 for Providing Additional Blub in Under Pile	748.00	Each	
3	10.79	cement concrete 1 : 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work but excluding steel-reinforcement centering and shuttering in foundation and plinth	214.20	Per Cum	

1. CONSTRUCTION OF BOUNDARY WALL TOWARDS RAILWAY SIDE AT MDU ROHTAK

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Rate to be quoted by the Contractor (Rs.)
4	10.86	Cement Concrete 1 : 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20 cm thickness (straight and curved) beams, girders, stairs, columns, (square or rectangular) battens and lintels etc. excuding steel reinforcement but including centring and shuttering, laid in	384.03	Per Cum	
5	10.87	Cement concrete 1 : 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work for walls (10cm to 20 cm thickness) stright and curved excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects.	499.80	Per Cum	
6	10.95 (B)	Extra Over Item No. 10.79 to10.94 if 1:1.1/2:3 Mix Used Instead of 1.2.4	1,098.03	PerCum	
7	18.22	Cold Twisted Deformed (Ribbed / Tor Steel) Bars For RCC Works ,Where not included in the Complete Rate of R C C included Bending and Placing in Position Compllete	1,093.95	Per Qtl	
8	10.59	Cement concrte 1.2.4 with stone aggregate 20mm nomintl size in first story upto 4 meters above plinth level	35.70	Per Cum	
9	9.1	Centering & Shuttring for flat surface s such as suspended floors, roofs, landings, chhajjas, shelves etc. inclination not exceeding 25 degree with horizontal	357.00	Per Sqm	

1. CONSTRUCTION OF BOUNDARY WALL TOWARDS RAILWAY SIDE AT MDU ROHTAK

Sr. No.	HSR Ref. No	Description of item	Qty	Unit	Rate to be quoted by the Contractor (Rs.)
10	NS	Providing and laying cement blocks masonry size 600x300mm with 200mm thick ACC block in super structure above plinth level upto floor V level in cement motor 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6mm dia M.S. bars at every third course of masonry work.	111.52	Per Cum	
11	26.25	Fixing glass pieces, on top of walls	1,700.00	Per Mtr	
12	6.26	Clearing jungle including uprooting of rank vegetation,grass brush wood,trees and saplings of girth upto 30cm measured at a height of 1 metre above ground	10,200.00	Per %Sqm	

DETAILED NOTICE INVITING TENDER

NAME OF THE WORK:- Construction of 1st floor building and renovation of ground floor for Visual Arts Department in the Transport Office premises including PH & E.I

App. Amt. Rs. 1.86 crore
Earnest Money Rs.1,86,000/- / Rs. 3,72,000/-
Time Lir 12 months

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
A. GROUND FLOOR RENOVATION WORK OF EXISTING TRANSPORT OFFICE FOR THE PROVISION OF VISUAL ART DEPARTMENT.				
A. DISMENTLING WORK				
1	8.25	Dismantling cement conglomerate / terrazo floors 25mm to 50mm thick without concrete base	498.00 Sqm	
2	8.26	Dismantling cement conglomerate/terrazzo Floors 25mm to 50mm thick without concrete base	342.00 Sqm	
3	8.32 (a)	Scraping of white wash and colour wash	1038.00 Sqm	
4	8.32(c)	Scraping of cement plaster	260.00 Sqm	
5	8.8 b)	Dismantling second class mud roofing with brick tiles , precast CC tiles or stone slabs	758.00 Sqm	
6	8.8 g)	Demolishing mud phaska in tile terracing	76.00 Cum	
7	8.24	Removing rolling shutters including top cover,brackets and side guides etc.complete.	10.00 Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
EARTH WORK				
8	6.6	Earth work in excavation in foundations, trenches, etc in all kinds of soils, not exceeding 2 mtr depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 mtr.	15.00 %cum	
B. PLAIN & REINFORCED CEMENT CONCRETE INCLUDING CENTERING & SHUTTERING				
9	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	10.00 Cum	
10	10.90	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestals and approach slabs of bridges etc., excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects (For work upto 1.5 metres below ground level).	1.00 Cum	
11	10.81	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in shelves excluding steel-reinforcement but including centering and shuttering, laid in position complete in all respects. Ground floor	5.00 Cum	
12	10.95/A	Extra over item Nos. 10.75 to 10.94 if no 1:1.1/2:3 mix is instead 1 : 2 : 4	6.00 Cum	
C. STEEL REINFORCEMENT				

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
13	18.22	Cold twisted deformed (ribbed/tor steel) bars for RCC works, where not included in the complete rate of RCC including bending, binding and placing in position complete.	8.00 Qtl	
D. BRICK WORK				
14	11.2	First Class Brick work Laid in Cement Sand Mortar 1:6 In Foundation & Plinth	7.00 Cum	
15	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meters above plinth level	1.00 Cum	
16	11.46	11.43 cm thick brick wall with every fourth course, reinforced with hoop-iron, laid in 1:4 cement sand mortar in super-structure.	10.00 Sqm	
E. PLASTERING-FINISHING				
17	15.6	12mm thick cement plaster 1 : 5 on walls	750.00 Sqm	
18	15.11	15mm thick cement plaster 1:5 on the rough side of single or half brick wall.	474.00 Sqm	
19	15.52	10mm thick cement plaster 1:4 om under side of ceiling	684.00 Sqm	
20	16.79(B)	Painting two coats with ready-mixed exterior paint in all shades on newly plastered or concrete surface of walls	927.00 Sqm	
21	16.24	Preparation of plasterd or concrete surface for painting, including sand papering the surface ,applying one coat of linseed oil and filling with approved quality filler, consisting of white lead, linseed oil, vanish and chalk mitti including finish surface to the required finish, complete	1870.00 Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
22	16.25	Applying priming coat with cement primer in all shades on newly plastered or concrete exterior surfaces.	1870.00 Sqm	
23	16.57	Distempering with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.	3553.20 Sqm	
F. FLOORING				
24	14.1	Base course of floors consisting of 100 mm thick cement 1:8:16 and 100 mm sand or stone filling.	72.00 Sqm	
25	14.9	Conglomerate floor 40 mm thick cement concrete topping 1:2:4	103.00 Sqm	
26	14.89	Providing and fixing vitrified tiles size 600x600mm of approved make in flooring laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade to tiles.	77.00 Sqm	
Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK				
27	14.91	Providing and fixing ceramic tiles/anti skid tiles of size 400mmx400mm or above size of approved make in flooring, laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of tile.	30.00 Sqm	
Note: Tiles shall be premium quality (first quality) of reputed manufacturer like NITCO,KAJA-RIA,SOMANI,ORIENT & JOHNSONS.				

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
28	14.92	Providing and fixing Ist quality ceramic glazed wall tiles confirming to I.S. 15622 (thickness to be specified by the manu-facturer) of approved make in all colours, shades expect burgundy, bottle green, black of any size as approved by Engineer-In-Charge in skirting, riser of steps and dados over 12mm thick bed of cement mortar1 : 3 coarse and jointed with grey cement slurry, including pointing in white cement mixed with pigment of matching shades compele.		
	a)	Size of ceramic glazed tile 200x300mm	136.00 Sqm	
29	14.49	Marble stone flooring 20mm to 25 mm thick slab including matching grains of marble laid in any pattern as specified over base of 12 mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing (using marble stone slab of size more than 0.38 sqm each)	313.00 Sqm	
30	14.62	Kotah stone flooring 20 mm to 40 mm thick in any pattern as specified over 12 mm thick base of cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing.	273.00 Sqm	
31	14.66	Kotah stone 20 mm thick in skirting risers of steps, dados and wall facing (lining) and pillars laid on 12 mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry, mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps, dowels and pins etc.	27.30 Sqm	
32	14.90	Providing and fixing vitrified tiles size 600x600mm of approved in skirting/dado laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles.		

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
		Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK	49.00 Sqm	
33	NS	Coloured Granite Stone tiles 20mm thick in skirting risers of steps, dado walls and pilars laid in 12.5mm thick cement mortar 1 : 3 (1 cement 3 coarse sand) and jointed with neat cement slurry mixed with pigment to match the shade of stone, including rubbing and polishing including labour for fixing dowel pins and cramps if required/ required. Granite of any colour and shade Area of slab over 0.50 sqm Ground floor	13.00 Sqm	
34	NS	Providing edge moulding to 18 mm 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)	15.00 Mtr	

G. ALUMINIUM WORK- JOINERY WORK

35	17.95	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate z sections and other sections conforming to Is: 733 and IS : 1285 (2 mm thick) fixed with rawplugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/paneling, C.P.brass/stainless steel screws, all complete.		
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Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
I)		For fixed portion (anodised aluminium transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	2,722.00	kg	
36	17.96	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate z sections and other sections conforming to Is: 733 and IS : 1285 (2 mm thick) fixed with rawplugs and scrwes or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/paneling, C.P.brass/stainless steel screws, all complete. Shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required including alouminium fitting.	1,199.00	kg	
37	17.98	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): b) With float glass panes of 5.0 mm thickness	154.00	Sqm	
38	17.97	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete b) Pre-laminated particle board with decorative lamination on both sides	12.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
39	17.99	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, marked for doors including cost of cutting floors, as required embeddeing in floor and cover plates with brass pivot and single piece M.S. sheet outer box .			
	a)	With stainless steel cover plate	12.00	Each	
40	17.100	Providing and fixing jali of thickness 7mm thick with opening- 75mmx 75mm of including anodizing and fixing in frame with cost of screws etc. complete.	152.00	Sqm	
41	17.73	Providing and fixing six-levers brass 10 cm mortice latch and lock, and a pair of lever handles with necessary screws, etc., complete (Indian make of reputed firm, such as Godrej or equivalent)	17.00	Each	
42	17.72	Cost of aluminium fittings complete for doors and windows, such as tower bolts,handles,etc., and screws for these fittings (excluding sliding bolt)			
		Single leaf shutters	91.00	Sqm	
		Double leaf shutters	136.00	Sqm	
43	17.82	Supplying and fixing hydraulic door closer, I.S.I.mark, with necessary screws, etc., complete.	5.00	Each	
44	17.75	Providing and fixing 150mm floor brass door stoppers, with rubber cushion, screws, etc, to suit shutter thickness complete.	16.00	Each	

B PROPOSED CONSTRUCTION /EXTENSION OF GROUND FLOOR AND FIRST FLOOR OF TRANSPORT OFFICE FOR PROVISION OF VISUAL ART DEPARTMENT

A. EARTH WORK

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
45	6.6	Earth work in excavation in foundations, trenches, etc in all kinds of soils, not exceeding 2 mtr depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 mtr.	294.00 %cum	
46	6.13/ a	Earth filling under floors with surplus ordinary soil or soil containing gravel or kankar upto 40% excavated from foundation and taken only from outside the building plinth in 15cm layers including ramming, watering and consolidating lead upto 30 mtrs.	81.00 %cum	
47	6.15	Providing and injecting chemical emulsion for pre construction at anti-termite treatment and creating a chemical barrier under and around the column pits, wall trenches, basement, excavation, top surface of plinth filling junction of walls and floors, along external perimeter of building, below tile terracing on top roofs, expansion joints, surrounding of pipes and conduits etc. complete (plinth area of the building at ground floor only shall be measured for payment) Hepta Chlor Emulsifiable concentrate as per IS 6439 or Chlorodone Emulsifiable concentrate as per IS 2682 any other approved chemical of approved concentration; as per approved specifications and as directed by Engineer-in-charge; including cost of all materials, labour, leads, lifts and delifts for all materials, machinery, T&P and all type of water arrangements, complete in all respects to the entire satisfaction of the Department/Project Consultant. (contractor to give minimum 10 years guarantee for this item)	162.06 Sqm	
B. PLAIN & REINFORCED CEMENT CONCRETE INCLUDING CENTERING & SHUTTERING				
48	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	45.00 Cum	

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
49	10.90	Cement concrete 1:2:3 with stone aggregate 20mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestals and approach slabs of bridges etc., excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects (For work upto 1.5 metres below ground level).	75.00 Cum	
50	10.86	Cement concrete 1 : 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, griders, stairs, columns,(Square or rectangular) battens and lintels etc. excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects.		
		A. SQUARE OR RECTANGULAR COLUMNS		
		Ground floor	8.00 Cum	
		First floor	8.00 Cum	
		B, BEAMS AND LINTELS		
		Ground floor	16.00 Cum	
		First floor	83.00 Cum	
		C. STAIRS		
		Ground floor	6.54 Cum	
		First floor	6.54 Cum	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
51	10.82	Cement concrete 1: 2 : 4 with stone aggregate 20mm nominal size for reinforced concrete work in slabs with inculcation not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects.			
		Ground floor	34.00	Cum	
		First floor	151.00	Cum	
52	10.89	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in fascias parapets and other thin vertical sections, not covered by Item Nos. 10.82, 10.86 to 10.88 not exceeding 10 cm thickness excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects.			
		Ground floor	8.00	Cum	
		First floor	24.00	Cum	
53	10.81	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in shelves excluding steel-reinforcement but including centering and shuttering, laid in position complete in all respects.			
		Ground floor	1.00	Cum	
		First floor	2.00	Cum	
54	10.95(a)	Extra over item Nos. 10.75 to 10.94 if no 1:1.1/2:3 mix is instead 1 : 2 : 4)	423.08	Cum	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
55	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65 kg per sqm laid hot and sanded.	13.00	Sqm	
C. STEEL REINFORCEMENT					
56	18.22	Cold twisted deformed (ribbed/tor steel) bars for RCC works, where not included in the complete rate of RCC including bending, binding and placing in position complete.	550.00	Qtl	
D. BRICK WORK					
57	11.2	First Class Brick work Laid in Cement Sand Mortar 1:6 In Foundation & Plinth	61.00	Cum	
58	11.7	First class Brick work laid in cement Sand mortar 1:6 in First Story up to 4 mtr above plinth level .			
		Ground floor	34.00	Cum	
		First floor	272.00	Cum	
59	11.46	11.43cm thick brick wall with every fourth course, reinforced with hoop-iron, laid in 1 : 4 cement sand mortar in super- structure			
		Ground	44.00	Sqm	
		First floor	209.00	Sqm	
E. PLASTERING-FINISHING					

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
60	15.2	10 mm thick cement Plaster 1:3	1170.00 Sqm	
61	15.6	12mm thick cement plaster	1496.00 Sqm	
62	15.12	15mm thick cement plaster 1:6 on the rough side of single or half brick wall.	997.00 Sqm	
63	15.52	10mm thick ceiling plaster 1:4	1117.00 Sqm	
64	16.79(b)	Providing two coats of exterior acrylic emulsion paint.	1000.00 Sqm	
65	16.25	Applying priming coat with cement primer in all shades on newly plastered or concrete exterior surfaces.	5302.00 Sqm	
66	16.24	Preparation of plasterd or concrete surface for painting, including sand papering the surface ,applying one coat of linseed oil and filling with approved quality filler, consisting of white lead, linseed oil, vanish and chalk mitti including finish surface to the required finish, complete	5849.43 Sqm	
67	16.3	Painting two coats excluding priming coat with synthetic enamel paint in all shades on new wood work or metallic or plastered or concrete surfaces to give an even shade	4302.00 Sqm	
68	16.57	Distempering with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.	4849.43 Sqm	
69	16.9	Applying priming coat with metal primer on new steel or iron work including preparation of surface.	285.00 Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
70	16.11	Painting one coat with ready mixed paint for metallic surfaces in all shades on old steel or iron work.	285.00	Sqm	
F. FLOORING					
71	14.1	Base course of floors consisting of 100 mm thick cement concrete 1 : 8 : 16 and 100 mm sand or stone filling.	386.00	Sqm	
72	14.4	Screed of 50 mm thick cement concrete 1:8:16 to be laid below the topping.	982.00	Sqm	
73	14.89	Providing and fixing vitrified tiles size 600x600mm of approved make in flooring laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK			
		Ground floor	197.00	Sqm	
		First floor	130.00	Sqm	
74	14.91	Providing and fixing ceramic tiles/anti skid tiles of size 400mmx400mm or above size of approved make in flooring, laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of tile. Note: Tiles shall be premium quality (first quality) of reputed manufacturer like NITCO,KAJA-RIA,SOMANI,ORIENT & JOHNSONS.			
		Ground floor	52.00	Sqm	
		First floor	82.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
75	14.92	Providing and fixing Ist quality ceramic glazed wall tiles confirming to I.S. 15622 (thickness to be specified by the manu-facturer) of approved make in all colours, shades expect burgundy, bottle green, black of any size as approved by Engineer-In-Charge in skirting, riser of steps and dados over 12mm thick bed of cement mortar1 : 3 coarse and jointed with grey cement slurry, including pointing in white cement mixed with pigment of matching shades compele. a) Size of ceramic glazed tile 200x300mm Ground floor (Approx) First floor (Approx)			
			181.00	Sqm	
			328.00	Sqm	
76	14.49 Ci	Marble stone flooring 20mm to 25 mm thick slab including matching grains of marble laid in any pattern as specified over base of 12 mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing (using marble stone slab of size more than 0.38 sqm each). Green Marble - Baroda green marble Ground floor (90.0+12.00) First floor (122.00+16.00)			
			102.00	Sqm	
			138.00	Sqm	
77	14.90	Providing and fixing vitrified tiles size 600x600mm of approved in skirting/dado laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1.3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note : Tile shall be of premium quality (first quality) of reputed manufacturer like NITCO, KAJA-RIA, SOMANI, ORIENT, JOHNSONS & RAK Ground floor First floor			
			18.05	Sqm	
			17.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty Unit	Each Rate to be quoted by the Contractor (Rs.)
78	Ns	Coloured Granite Stone tiles 20mm thick in skirting risers of steps, dado walls and pilars laid in 12.5mm thick cement mortar 1 : 3 (1 cement 3 coarse sand) and jointed with neat cement slurry mixed with pigment to match the shade of stone, including rubbing and polishing including labour for fixing dowel pins and cramps if required/ required. Granite of any colour and shade Area of slab over 0.50 sqm Ground floor First floor	 41.00 Sqm 41.00 Sqm	
79	NS	Providing edge moulding to 18 mm 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).	178.00 Mtr	
G. ALUMINIUM WORK- JOINERY WORK				
80	17.95	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate z sections and other sections conforming to Is: 733 and IS : 1285 (2 mm thick) fixed with rawplugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/paneling, C.P.brass/stainless steel screws, all complete.		
I)		For fixed portion (anodised aluminium transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	4086.00 kg	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
81	17.96	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate z sections and other sections conforming to Is: 733 and IS : 1285 (2 mm thick) fixed with rawplugs and scrwes or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/paneling, C.P.brass/stainless steel screws, all complete. Shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required including alouminium fitting.	2313.00	kg	
82	17.98	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.0 mm thickness	181.00	Sqm	
83	17.97	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete (b) Pre-laminated particle board with decorative lamination on both sides	32.38	Sqm	
84	17.99	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, marked for doors including cost of cutting floors, as required embeddeing in floor and cover plates with brass pivot and single piece M.S. sheet outer box . With stainless steel cover plate	19.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
85	17.82 b	Supplying and fixing hydraulic door closer, I.S.I.mark, with necessary screws, etc., complete I.S.I. designation No.II (size of door 701 mm to 850 mm)	10.00	Each	
86	17.75	Providing and fixing 150mm floor brass door stoppers, with rubber cushion, screws, etc, to suit shutter thickness complete -	16.00	Each	
87	17.100	Providing and fixing jali of thickness 7mm thick with opening- 75mmx 75mm of including anodizing and fixing in frame with cost of screws etc. complete	167.28	Sqm	
88	17.83	Providing and fixing sliding bolt with nuts and screws, etc, complete-	20.00	Each	
	b)	Aluminium			
	ii)	size 250mm x 16mm			
89	17.73	Providing and fixing six-levers brass 10 cm mortice latch and lock, and a pair of lever handles with necessary screws, etc., complete (Indian make of reputed firm, such as Godrej or equivalent)	19.00	Each	
90	17.72	Cost of aluminium fittings complete for doors and windows, such as tower bolts,handles,etc., and screws for these fittings (excluding sliding bolt)			
		Single leaf shutters	119.00	Sqm	
		Double leaf shutters	221.00	Sqm	

H. ROOFING- WATER PROOFING

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
91	13.13	Terracing consisting of tiles 22.86 cm x 11.43 cm x 3.81 cm laid over 87.50 mm mud filling on a layer of 25mm mud plaster and an other layer of mud mortar for laying he tiles, including two coats of bitumen laid hot at 1.65 kg per sqm on top of R.C.C. slab including grouting with cement sand mortar 1 : 3 and top surface to be left clean etc.	927.00	Sqm	
92	15.71	Cement pointing 1:2 flush on flat brick flooring tile terracing.	927.00	Sqm	
93	13.64	Cement concrete 1:2:4 gola 10cm X 10cm quadrant along junction of roof with parapet wall finished smooth, where specially specified.	248.00	Mtr	
94	13.50	Top khurra 0.6 m x 0.6 m for rain water pipe in 25 mm thick cement concrete 1:2:4 over 50 mm thick cement concrete 1:8:16	20.00	Each	
95	13.57	Bottom khurra on ground 1:2 m X 0.6 m consisting of brick-on-edge laid in cement mortar 1:3 over 75 mm cement concrete 1:8:16 including 12 mm thick cement plaster 1:3	20.00	Each	
96	13.89	Providing and fixing PVC rain water pipe 6Kg. Pressure of ISI mark in cement mortar during masonry work.			
	(b)	150mm dia PVC pipe 6kg. Pressure	152.00	Mtr	
97	13.90	Providing and fixing PVC Bend ISI Mark			
		150mm dia PVC Bend	20.00	Each	
		150mm dia PVC Bend (Shoe)	20.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
98	15.76	12mm thick cement plaster damp proof course 1:3 with 2 coats of bitumen at 1.65 Kg per Sqm laid hot and sanded.			
	i)	Horizontal	99.00	sqm	
	ii)	Vertical	38.00	sqm	
99	13.66	Providing and lying cinder concrete in cement 1:15 (1 cement and 15 cinder) insunken portion of toilets or any other location as approved by the department.	30.00	cum	
100	18.34	Pressed steel sheet frames (Chowkats) consisting of 2 mm thick steel sheet of the specified section, including iron lugs (hold fasts), iron hinges, conforming to P.W.D . Specifications, including bolts for fixing stops,, locknotch, provision for receiving tower bolts, and finished with one coat of ready-mixed paint red lead non-setting primer, of approved quality, fixed in position including the coat of cement concrete 1 : 3 : 6, for filling in the frame, and cement concrete 1 : 3 : 6 for lugs complete: -			
	a)	Door and window frame of size 89mm x 50mm with 40 mm wide single rebate	50.00	Mtr	
101	17.93	35 mm thick Factory manufactured solid flush door shutters, with block board core as per IS: No. 1659-1969 bonded with water proof type phenol formaldehyde synthetic resin, hot-pressed, conforming to IS: 2202 part-I and II, fixed in position, including iron hinges, screws, chocks/cleats and stops, etc. (excluding the cost of any fittings other specified above, but including labour for fixing the same in position.			
	a)	Commercial vennering with vertical grains orf cross bands and face veneer on both sides commercial facing with laminated core and lipped edges:-			
	iii)	35 mm thick	40.00	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
17.90		Factory manufactured panelled door or glazed window, shutters of commercial hard wood, such as hollock, champ, chikrassy and chaplash, etc., (non-coniferous timber other than teak, conforming to I.S. specification No.1003, kiln-seasoned), with 100 mm wide vertical styles, 150 mm wide lock rail, 200 mm wide bottom rail and 100 mm wide other rails, with panels of 15 mm thick, tongued and grooved of commercial hard wood and including cost of iron hinges, screws, chocks / cleats, stops, nails etc., complete, fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position).			
a)		30 mm thick	30.00	Sqm	
17.92		Factory manufactured wire gauze door and window shutters of commercial hard wood such as hollock, champ, chikrassy and chaplash, etc., (non-coniferous timber other than teak, conforming to I.S. specification No.1003, kiln-seasoned), with 100 mm wide vertical styles, 150 mm wide lock rail, 200 mm wide bottom rail, and wire gauze of 140G or 120G designation including cost of iron hinges, screws, chocks/cleats, stops nail etc., complete fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position)- (style and rails of windows shutter shall be 75 mm wide)			
a)		30 mm thick	30.00	Sqm	
b)		35 mm thick	20.00	Sqm	
102	14.62	Kotah stone flooring 20 mm to 40 mm thick in any pattern as specified over 12 mm thick base of cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing.	679.26	Sqm	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
103	14.66	Kotah stone 20 mm thick in skirting risers of steps, dados and wall facing (lining) and pillars laid on 12 mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry, mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps, dowels and pins etc.	47.00	Sqm	
104	18.3	Structural steel work in angles, tees and flats rivetted including cutting fixing all gusset plates, bolts, nuts, rivets, etc. with hoisting and erecting in position: -	29.87	Qtl	
105	NS	Providing fixing 6 mm thick polycarbonate sheet complete to the entire satisfaction of the Engineer-in-Charge.	3066.60	Sft	

2 INTERNAL SERVICES

i)

106	30.84	Providing and fixing in position HCI soil waste vent or antisiphonage pipes to ISI specification of E.L.C. manufacture or of any other reputed firm including cutting and wastage etc. and cutting holes in walls, roofs or floor etc. and making good to its original condition but excluding cost of lead jointing.			
	a)	100mm internal diameter	153.00	Mtr	
	b)	75mm internal diameter	201.00	Mtr	
107	30.87	Providing lead caulked joints to HCI pipes and specials conforming to ISI specification of E.L.C. manufacture or any other reputed firm including cost of lead yarn, fuel and tools etc.			
	a)	100mm internal diameter (1.13kg)	137.00	Each	
	b)	75mm internal diameter (0.91 kg)	140.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
108	30.88	Providing and fixing in position M.S. or heavy flat iron clamps made out of M.S. flat not less than 5mm of the approved design for fixing C.I. Soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting.			
	a)	For 100mm internal diameter pipes.	53.00	Each	
	b)	For 75mm internal diameter pipes.	60.00	Each	
109	30.89	Providing and fixing HCI floor trap ISI marked of the self cleaning design with CP brass hinged grating with frame with or without vent arm and including cement concrete 1:2:4 under and around the floor trap where required upto floor level complete in all respects including cutting and making good the walls and floors etc. minimum depth of water should be 150 mm with a minimum seal of 50mm.			
	a)	with 75mm i/d out let	61.00	Each	
110	30.91	Providing and fixing in position HCI specials for soil, waste, vent or anti-syphonage pipes to ISI marked including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead jointing.			
	a)	For 100mm I/D pipes			
		I) Heal rest bend.	17.00	Each	
		iv) Single junction with door 100mm x 100mm x 100mm	16.00	Each	
		xvi) Cows	8.00	Each	
		xvii) Door piece	4.00	Each	
		xxii) Collars	16.00	Each	
	b)	For 75mm I/D pipes.			
		xviii) Collars	18.00	Each	
		iv) Single junction with door 75mmx75mm x75mm	20.00	Each	
		xvii) Cows	9.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		i) Heal rest bend	9.00	Each	
111	NS	Providing and fixing in position high Quality ISI marked Indian make white vitreous chinaware Idouble syphonic European water closet suite P or S trap including one no. superior quality white solid plastic seat and lid seat cover 8 litre capacity low lvl pvc cistern with brass fitting , including cutting and making good the walls floor s with cement concrete 1:2:4 wherever required complete	9.00	Each	
112	30.2	Providing and fixing in position best indian make (to the approval of the Engineer-in-charge). Indian type Orissa or Orya water closet suite for sinking into floor. With raised foot treads complete with 100mm H.C.I. 'P' trap with or without vent as required and all other necessary fitting as fully described in item no. 30.1 above.			
	(a)	size 580mm			
	(i)	White	15.00	Each	
113	NS	providing and fixing in position approved make cp brass paper holder fixed on wall with cp brass screws including cutting and making good the wall complete in respects.	9.00	Each	
114	NS	Providing and fixing in position high quality ISI marked Indian make white vitreous chinaware lavatory suits (wash basin) counter top oval shaped of 460 mm dia with approved make ISI marked CP brass pillars tap, 32 mm dia CP brass waste, GI 'B' class waste pipe embedded in wall upto floor trap, cutting and making good the walls and floor with cement concrete 1:2:4 complete (Counter will be paid in respective items of civil work).	30.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
115	NS	Providing and fixing in position high quality ISI marked Indian make white vitreous chinaware flat back half stall urinal of 610x400x380mm size with approved make ISI marked automaticclosing push cock, spider, stainless steel pipe, pairs of Ci special type bracket for urinals, 32mm CP brass waste dome grating, CP brass flush pipe, including painting of fittings, cutting and making good the walls and floors with cement concrete 1:2:4 complete in all respects.	18.00	Each	
116	30.40	Providing and fixing best quality vitreous chinaware partition plate			
	b)	Large size 835x355mm			
	i)	White colour	12.00	Each	
117	30.115	Providing and fixing in position best indian make vitreous chianware channel of size 600x150mm including laying and fixing cement concrete 1:2:4 complete.			
	ii)	Single Colour	18.00	Each	
118	30.71	Providing and fixing in position best Indian make bevelled edge 5.5mm thick mirror mounted on asbestos sheet ground fixed in position by means of 4 nos chromium plated brass screws & washers over rubber washers and rawl plug embedded in the wall or chromium plated brass clamps with C.P. brass screws (as required by the Engineer-in-charge) complete including cutting and making good the walls etc.			
	(a) (ii)				
	a)	Indian make			
	ii)	600 mm x 450 mm	12.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
119	NS	Providing and fixing in position approved make 5.5mm thick mirror size 2400x600mm with 6mm thick hard board ground and 25mm wide teak wood beeding around the mirror fixed on wall with CP brass screws and washer including cutting and making good the walls complete as per approved drawings.	6.00	Each	
120	30.77	Providing and fixing CP brass liquid soap container of best quality complete	18.00	Each	
121	NS	Providing and fixing in position high quality heavy pattern CP brass (concealed) stop cock of standard design and of approved make conforming to IS:8931 15 mm nominal bore	12.00	Each	
122	NS	Providing and fixing in position approved make PVC pipe connections 375mm long with CP brass nuts and rubber washers complete	72.00	Each	
123	NS	Providing and fixing CP brass spray jet for EWC including CP brass hexa nipple etc complete in all respects.	9.00	Each	
124	30.114	Providing and fixing in position gully traps fixed in cement concrete 1:4:8 complete with H.C.I. Grating 150mm x 150mm cast iron cover weighing approximately 7.26 kg frame clear opening 399mm x 300mm and outside size 330mm x 330mm and chamber including cost of all brick work in cement mortar 1:5 cement concrete 1:8:16 in foundations and cement concrete 1:2:4 in coping around C.I. cover and frame superior paint of approved manufacture on all C.I. work as per standard design, minimum depth of water should be 150mm with a minimum seal 50mm.			
	d)	150mm internal diameter HCI gully trap.	7.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
125	29.84	Constructing brick masonry inspection chamber size as given below upto 0.60 metre average depth in cement mortar 1:5 lime concrete with 40 percent lime mortar 2:3 in foundation cement concrete 1:2:4 benching 12mm thick cement plaster 1:2 with a floating coat of 1mm thick of neat cement RCC 1:2:4 slab 100mm thick /C.C. topping 50mm thick with 455 mm x455mm /455mm x 610mm inside light duty C.I. inspection chamber cover and frame weight as per ISI specifications painted with 3 coats of black bitumastic superior paint complete as per standard design.			
	c)	Size 600 x 900mm inside (with 455m x455mm cover and frame light duty single seal weighing 20 kgs with RCC slab)	9.00	Each	
126	29.85	Extra for every 0.30 mtr depth of Inspection Chamber 600x900mm	5.00	Each	
127	NS	Providing and fixing in position approved make ISI marked 50mm dia PVC pipes and specials including PVC filter wrapped with brass wire mesh of required length as per drawing for drain out water from the sunken portion of toilet including cutting and making good the wall complete..			
	i)	50mm dia PVC pipe without wire mesh	30.00	Mtr	
	ii)	50mm dia PVC pipe with wire mesh	20.00	Mtr	
128	NS	Providing and fixing GI pipe complete with GI fittings and clamps including cutting and making good the walls etc.			
	i)	40 mm dia nominal bore	50.00	Mtr	
	ii)	32 mm dia nominal bore	56.00	Mtr	
	iii)	25 mm dia nominal bore	79.00	Mtr	
	iv)	20 mm dia nominal bore	155.00	Mtr	
	v)	15 mm dia nominal bore	119.00	Mtr	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
129	NS	Providing and fixing in position 15 mm internal diameter CP brass bib cocks of high quality and conforming to IS specifications with CP brass cap complete in all respect.			
	i)	15 mm nominal bore short body	28.00	Each	
	ii)	15 mm nominal bore long body	10.00	Each	
130	30.119	Providing and fixing HDPE WATER STORAGE TANKS of sintex, Diplast, O.K. Supreme make with covers/lids marked with IS: 12701 on roof top of building including cost of hoisting and placing in position, making connections with inlet and outlet pipe, providing overflow and scour provisions with suitable plug on scour pipe including cost of nipples, washers, flanges for connections in tanks complete in all respects to the satisfaction to the Engineer-in-Charge.(Except civil work).			
		2000 Ltr. Capacity	2.00	Each	
		1000 Ltr. Capacity	4.00	Each	
131	NS	Providing and fixing in position heavy pattern gun metal peet valve ISI marked with hand wheels, on GI pipe lines laid in ground or inside building as per approved drawings, specifications.			
	i)	40mm dia nominal bore	2.00	Each	
	ii)	32mm dia nominal bore	4.00	Each	
	iii)	25mm dia nominal bore	7.00	Each	
	iv)	20mm nominal bore	10.00	Each	
132	NS	Providing and fixing GI union in GI pipe including cutting and threading the pipe and making long screws etc. complete			
	i)	40mm dia nominal bore	3.00	Each	
	ii)	32mm dia nominal bore	4.00	Each	
	iii)	25mm dia nominal bore	4.00	Each	

Sr. No.	HSR Ref. No & NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
133	30.110	Providing and fixing inposition automatic brass ball valve in tanks			
	b)	With Plastic ball			
	iii)	40 mm dia nominal bore	6.00	Each	
134	NS	Providing and fixing in positiong approved make CP brass stop cock with large size CP brass cap / flange complete to entire satisfaction of the Engineer-in-Charge.			
	a)	15mm i/d angle valve	72.00	Each	
	b)	15mm i/d cancelled stop cock	12.00	Each	
	d.	FIRE EXTINGUISHERS			
135		Providing and fixing with brackets wall mounted / ceiling mounted Fire Extinguishers as per details below ;			
	i)	CO2 Fire Extinguisher of 4.5 Kg capacity fitted with screw down type high pressure control valve with 1.0 M long rubber braided discharge hose with horn. The Body shall be CCE approved with IS:2878 marking and supplied with initial charge of CO2 gas. The valve shall conform to IS:3224. The extinguisher shall be assembled from brand new seamless cylinder. Every cylinder's manufacturer's serial number and test certifiacte from CCE, Nagpur shall be provided.	6	Each	
	ii)	9 Ltr WCO ² stored type with fire rating 2A pressure testing 35 kg/cm2 as IS 15683-2006 with 90% discharge in 13 sec (min ^m).	3	Each	

DETAILED NOTICE INVITING TENDER

NAME OF THE WORK:- " Construction of 1st floor building and renovation of ground floor for Visual Arts Department in the Transport Office premises including PH & E.I"

App. Amount Rs.
Earnest Money Rs. _____
Time Limit: _____

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
ELECTRICAL WORKS					
1	31.12 (a)	Main Switches Supply and erection of metal clad switches / B.D.B.S. with rag bolts on wall or on existing angle iron board / pedestal including bonding to earth and necessary connections.			
	xvii)	Triple pole switch with neutral link 200 amp 415 volts	1 nos.	Each	
2	31.12 c)	Supply and erection of moulded case circuit breaker on wall or on existing pedestal including bonding to earth and necessary connections.			
	ii)	100 Amp to 220 Amp 415 V 10 KA 3 phase	3 nos.	Each	
3	31.13	Supply and erection of M.S. angle iron frame duly welded for housing M.S. sheet & main switches etc. on it. 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.			
	(ii)	Size 40 mm x 40 mm x 6 mm	42 Mtr	Per Mtr	
4	31.14	Supply and erection of 3 mm thick mild steel sheet duly welded on exiting 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	5 Sqm	Per Sqm	

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
5	31.15	Supply and erection of sheet steel enclosures 2 pole /3 pole with earth plug and socket suitable for incorporating single pole / triple pole MCB on wall/ on existing pedestal complete with necessary connections etc.			
	ii)	SPN enclosure for single pole MCB 20 Amp.	10 nos.	Each	
6	31.16	Supply and erection of blanking sheet in existing distribution board.	28 nos.	Each	
7	31.17	Supply and erection of miniature circuit breaker/isolator 240/415 V in the existing distribution board including making necessary connections :-			
	(a)	Miniature Circuit Breakers of 9 K.A. breaking capacity			
	(ii)	SP MCB 6 amp. To 32 amp.	97 nos.	Each	
	(iii)	TPN MCB 40 Amp to 63 Amp	7 nos.	Each	
	(iii)	TP MCB 40 Amp to 63 amp.	1 nos.	Each	
8	31.18	Supply and erection of Fittings and Accessories			
	(vii)	Call bell 220/230 Volts A.C. bakelite with double coil.	10 nos.	Each	
	xi)	Bakelite angle / straight button holder large size.	55 nos.	Each	
	xxii)	Erection only of 1x40 watts or 2x40 watts 1220 mm long/1x20 watts or 2x20 watts 610 mm long fluorescent tube with fittings by means of 2 Nos. 20 mm dia meter 1.60 mm thickness conduit pipe with spring loaded brass flanges at both ends including 0.75 sqmm (24/0.20 mm) PVC copper flexible cable for connection the tube to the adjacent light point including cost of conduit pipe flanges. PVC flexible cable and petty material required for the same (Upto 1/2 meter length of pipe)	100 nos.	Each	
	xxiii)	Extra for additional length of 20 mm dia conduit pipe for hanging of fitting (for item no. xxi, xxii)	50 Mtr	Per Mtr	

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		xxiv) Erection only of 1x40 watts or 2x40 watts, 1220 mm long/1x20 watts or 2x20 watts, 610 mm long fluorescent tube fitting directly on wall including necessary connections with 0.75 sq mm (24/0-20 mm) PVC copper flexible cable for connecting the tube with the adjacent light point	25 nos.	Each	
		xxvi) 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 10 mm dia 30cm long mild steel rod made into suitable suspension hook and erected in RCC 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.	66 nos.	Each	
		xxxiii) Providing one extra junction box with 0.55 meter long 20 mm dia conduit pipe for the erection of fluorescent tube fitting complete with all required labour and material.	91 nos.	Each	
9	31.20	Erection and carriage of fan			
		i) Erection of ceiling fan complete with necessary earthing of fan and regulator including carriage from local railway station/Goods transport/PWD store the the site of work	86 nos.	Each	
		iii) Erection of exhaust fan complete with necessary earthing of fan and regulator including carriage from local railway station/Goods transport/PWD store to the site of work	17 nos.	Each	
10	31.21	Supply and erectionj of pipe for wiring purposes including bends, inspection box etc.			
		xxi) Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	175 Mtr	Per Mtr	
		xxii) Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed.	350 Mtr	Per Mtr	
		xxx) 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.			
		c) PVC pipe 65 mm dia	30 Mtr	Per Mtr	

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
10A	31.22	Earthing with G.I., earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top etc. as required.	10 nos.	Each	
		i)			
		ii)	10 nos.	Each	
		xiii)	200 Mtr	Per Mtr	
		xvii)	240 Mtr	Per Mtr	
11	31.26	Supply and erection of under ground cable, loose in existing pipe or trenches complete with necessary connections.			
		xi)	70 Mtr	Per Mtr	
		xli)	150 Mtr	Per Mtr	
		xliii)	250 Mtr	Per Mtr	
12	31.28	Supply and erection of suitable compression type brass cable glands for underground cable:-			
		ii)	8 nos.	Each	
		iii)	6 nos.	Each	
13	31.31	Supply and erection of metal of clad bus bar chamber made from 1.6 mm thick M.S. sheet fixed with rag bolts on wall or on existing pedestal / angle iron frame including bonding to earth, detachable top and bottom painting and necessary connections etc. (copper bars duly tinned)			
		ii)	1 nos.	Each	
14	31.35	Supply of M.S. pipe (B-class) for suspension rod of ceiling fan including threading if required.			
		i)			

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
		a) 15 mm dia	55 Mtr	Per Mtr	
		xi) Supply of erection of aluminium lugs heavy duty including crimping etc. uppto the entire satisfaction of the Engineer-in-charge of the work.			
		d) 16 Sqmm	24 nos.	Each	
		e) 25 Sqmm	8 nos.	Each	
		g) 50 Sqmm	16 nos.	Each	
15	31.36	Wiring in 1.5 sqmm PVC insulated copper conductor cable in 1.6 mm thick conduit pipe.			
		i) Fan point			
		b) Medium point	19 nos.	Each	
		c) Long point	47 nos.	Each	
		ii) Light Point			
		a) Short Point	29 nos.	Each	
		b) Medium point	19 nos.	Each	
		c) Long point	154 nos.	Each	
		iii) Twin Control light point with 2 ways, 5 amp. Single pole switch.			
		b) Medium point	5 nos.	Each	
		c) Long point	5 nos.	Each	
		vi) Call bell point including MS box of size 180 mm x100 mm x 60 mm deep for call bell			
		c) Long point	16 nos.	Each	
		vii) 3-pin 5 amp plug point including earthing the 3rd pin etc.			
		a) Short Point	60 nos.	Each	
		c) Long point	22 nos.	Each	
		viii) 3-pin 15 amp plug point with 4 sqmm PVC insulated copper conductor cable including earthing the 3rd pin etc.			
		c) Long point	37 nos.	Each	

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
16	31.40	Supply and erection of PVC unsheathed copper conductor cable single core 1100 Volts grade in pipe of suitable size excluding cost and erection of pipe.			
	i)	Cable size 1.5 Sqmm (3/0.81mm)	500 Mtr	Per Mtr	
	ii)	Cable size 2.5 Sqmm (3/1.05mm)	2000 Mtr	Per Mtr	
	iii)	Cable size 4 sqmm (7/0.85 mm)	600 Mtr	Per Mtr	
	v)	Cable size 10 sqmm (7/1.35 mm)	20 Mtr	Per Mtr	
	vi)	Cable size 16 Sqmm (7/1.70 mm)	10 Mtr	Per Mtr	
17	31.41	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 the entire satisfaction of the Engineer-in-charge of the work.			
	v)	4-Way TP&N (Horizontal) (8+12)	1 nos.	Each	
	vi)	8-Way TP&N (Horizontal) (8+24)	5 nos.	Each	
	x)	8-Way TP&N (Vertical) (8+24)	1 nos.	Each	
18	31.42	Supply and erection double pole / Four pole Residual current circuit breaker (RCCB/ELCB) suitable for operation on 240/415 V, 5 Hz. 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 the Engineer-in-charge of the work.			
	xv)	63 A/415 V FP ELCB with 30 mA sensitivity.	18 nos.	Each	
19	31.44	Supply and erection of PVC conduit pipe ISI marked (medium) recessed in wall/ceiling etc. including cost of PVC bends, inspection box and all other material required to complete the job in all respect upto the entire satisfaction of Engineer-in-charge of work.			
	b)	25 mm dia	200 Mtr	Per Mtr	

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
20	31.45	Supply and erection of copper lugs including crimping etc. upto the entire satisfaction of Engineer-in-charge of the work.			
	a)	1.5 sqmm to 2.5 sqmm	120 nos.	Each	
	b)	4 sqmm to 6 sqmm	74 nos.	Each	
	c)	10 sqmm	24 nos.	Each	
	d)	16 Sqmm	16 nos.	Each	
21	31.48	Supply and erection of MS saddles and clamps on wall/ RCC parapit for fixing underground cable at a distance of 0.60 metre centre to centre fixed by means of rawl plug including the cost of all labour and material required to complete the job in all respect.	400 nos.	Each	
22	31.55	Supply and erection of socket size rotary step type Electronic regulator for A.C. ceiling fan Anchor make Deluxe model No. 50440 ISI/SSK make PC 561 operated on 120 / 280 V.A.C supply complete including cutting of existing bakelite sheet and making necessary connection etc. upto the entire satisfaction of the Engineer-in-charge of the work.	86 nos.	Each	
23	NS	Supply & filing river sand in existing trenches etc.	72 Cum	Per Cum	
24	NS	Supply & erection of 1st class brick on existing cables in pucca trench	4600 nos.	Each	
25	NS	Cutting of road by machine / manual means for fixing of required of size of PVC pipe.	10 Mtr	Per Mtr	
26	6.6	Earth work in excavation in foundations, trenches, etc.in all kinds of soils, not exceeding 2 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres	200 Cum	Per 100 Cum	
27	10.26	Cement Concrete 1:8:16 with brick ballast 40mm nominal size in foundation and plinth.	16 Cum	Per Cum	

Sr. No.	HSR Ref. No / NS	Description of item	Qty	Unit	Each Rate to be quoted by the Contractor (Rs.)
28	11.4	First class brick laid in cement sand mortar 1:4 in foundation and plinth.	60 Cum	Per Cum	
29	15.5	12 mm thick cement plaster 1:4	400 Sqm	Per Sqm	
30	N.S.	Providing and fixing precast RCC (1: 1½: 3) cable route marker of size 0.75 mtr. deep / 0.25 mtr. width x 0.15 mtr. thick 0.25 mtr. below top of side wall and proper embedded in wall. The writing words, H.T. cable on three sides of route markers including arrow on two sides with approved make of enamel paint of red colour including white colour Apex of approved make 6 nos. horizontal stirrups of tor steel bar 8 mm dia and 6 nos. vertical tor steel bar 12 mm dia as instruction and as per entire satisfaction of the Engineer-in-Charge of the work.	5 nos.	Each	

Note:-

- 1 The underground cable will be used of Havells/Polycabe make. No extra payment will be allowed on this account.
- 2 PVC pipe of 6 Kg. pressure Kasta/Swastik/Supreme make of HSR item no. 31.21 will be used if required. No extra payment will be allowed on this account.
- 3 The materials used for HSR item no. 31.12, 31.15, 31.17 and 31.41 will be used of Standard/Havells make if required and no extra payment will be allowed on this account.
- 4 PVC copper wire 31.38, 31.39 and 31.40 will be used of Havells/Polycabe make if required and no extra payment will be allowed on this account.