



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 percentage basis are invited on behalf of the Registrar, MDU, Rohtak from contractors / societies / agencies on approved list of PWD, MES, CPWD, autonomous bodies and State / Centre Govt. undertakings. The tender forms will be issued to the contractors / societies / agencies up to the date of opening of tenders as mentioned against work by 12:00 Noon and will be received up to 2:00 P.M. in the office of the Registrar and opened at 3:00 P.M. on the same day in the Committee Room of 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.)	Date of opening of tender	Time limit
			Society	Contractor			
1.	Construction of Extension of Engineering Cell building for Purchase Store and Transport Office including PH & E.I.	2,36,00,000/-	2,36,000/-	4,72,000/-	15,000/-	19.09.2014	12 months
2.	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/-	19.09.2014	12 months
3.	Construction of footpath in Children Park	8,74,000/-	8,740/-	17,480/-	1,000/-	19.09.2014	02 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 civil 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 is to be deposited at the time of purchase of the tender. It should be in the shape of Demand Draft in favour of the Executive Engineer, MDU, Rohtak payable at Rohtak.
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 otherwise the tender will liable to be rejected.
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 tender is liable to be rejected if the tender is found in variance of the above conditions or the conditions of the DNIT.
14. The University reserves the right to accept or reject or negotiate any of the tender or conditions/items without assigning any reason.
15. Plumbing and E.I. work shall be got done through license holder agencies for the works involving PH / E.I.
16. The agencies shall paste the cello tape on the rates quoted by them.
17. Tender by post / telegraphic/courier shall out rightly be rejected.
18. Exemption of tender fee or earnest money or security will not be permitted in any case.

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:- "EXTENSION OF ENGINEERING CELL BUILDING FOR PURCHASE STORE AND TRANSPORT OFFICE INCLUDING P.H. & E.I. AT MAHARISHI DAYANAND UNIVERSITY, ROHTAK "

App. Amount Rs. 2,36,00,000/-
Earnest Money Rs. 2,36,000/- / Rs. 4,72,000/-
Time Limit: 12 months

Sr. No.	HSR Ref. No/N.S.	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					
A. 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.	514.34	Cum	Per 100 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.	406.00	Cum	Per 100 Cum
B. CEMENT CONCRETE					
3	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	85.79	Cum	Per Cum
4	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	278.82	Cum	Per Cum

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
5	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	88.82	Cum	Per Cum
		First floor	86.25	Cum	Per Cum
		Second floor	59.13	Cum	Per Cum
6	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	121.08	Cum	Per Cum
		First floor	120.48	Cum	Per Cum
		Second floor & Mumty	75.45	Cum	Per Cum
7	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	830.03	Cum	Per Cum
8	9.13	Shuttering for faces of concrete foundations and foundation beams (vertical or bettering)	557.64	Sqm	Per Sqm
C. STEEL REINFORCEMENT					
9	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.	1660.00	Qtl	Per Qtl
10	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.	23.44	Sqm	Per Sqm
D. BRICK WORK					
11	11.2	First Class Brick work Laid in Cement Sand Mortar 1:6 In Foundation & Plinth (including duct wall)	73.53	Cum	Per Cum

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
12	11.8	Frist class Brick work laid in cement Sand mortar 1:6 in First Story up to 4 mtr above plinth level .	462.46	Cum	Per Cum
	b)	Extra upper floor (230mm thick wall)	462.46	Cum	Per Cum
13	11.46	11.43cm thick brick wall with every fourth course, reinforced with hoop-iron, laid in 1 : 4 cemnet sand mortar in super- structure	147.12	Sqm	Per Sqm
E- PLASTERING- FINISHING					
14	15.2	10 mm thcik cement Plaster 1:3	1631.94	Sqm	Per Sqm
15	15.6	12mm thick cement plaster	2146.42	Sqm	Per Sqm
16	15.12	15mm thick cement plaster	1536.76	Sqm	Per Sqm
17	15.52	10 mm thick cement plaster 1:4	2100.00	Sqm	Per Sqm
18	16.57	Distempering with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.	3778.36	Sqm	Per Sqm
19	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	3778.36	Sqm	Per Sqm
20	16.61	Finishing walls with exterior decorative cemetrn based paitns such as snowcem, Robbiacem etc. on new work, two coats to give and even shade	1536.76	Sqm	Per Sqm
21	16.17	Painting two coats excluding priming coat with ready-mixed paint for metallic surfaces in all shades on new steel or iron work.	502.62	Sqm	Per Sqm
22	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface, knotting and stopping, etc.	87.14	Sqm	Per Sqm

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
23	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	87.14	Sqm	Per Sqm
F- FLOORING					
24	14.1	Base course of floors consisting of 100 mm thick cement concrete 1 : 8 : 16 and 100 mm sand or stone filling	653.53	Sqm	Per Sqm
25	14.4	Screed of 50 mm thick cement concrete 1:8:16 to be laid below the topping	2100.00	Sqm	Per Sqm
26	10.45	Cement concrete 1 : 8 : 16 with stone aggregate 40mm nominal size in first story upto 4 meters above plinth level	73.38	Cum	Per Cum
27	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 flor	96.45	Sqm	Per Sqm
		First floor	18.35	Sqm	Per Sqm
		Second flor	18.35	Sqm	Per Sqm
28	14.52	Marble stone 20mm to 25mm thick in risers of step, skirting dado, pillars and wall lining including matching the grains of marble slab in any pattern as specified laid on 12mm thick cement coarsed sand mortar 1 : 3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing, including labour for fixing cramps, pins and dowels etc. (using size of marble slab above 3.38 sqm each)			
	(c)	Green Marble	35.74	Sqm	Per Sqm
29	14.50	Extra for nosing in marble stone for treads	129.60	Mtr	Per Mtr

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
30	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	150.53	Sqm	
31	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	15.05	Sqm Per Sqm	
32	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	397.72	Sqm Per Sqm	
33	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 qaulity) of reputed manufacturer like NITCO,KAJA-RIA,SOMANI,ORIENT & JOHNSONS.	86.99	Sqm Per Sqm	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
34	14.62	Kotah stone flooring 20mm to 40 mm 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.	1284.97	Sqm	Per Sqm
35	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.	128.50	Sqm	Per Sqm
36	14.45	Precast chequered tiles of 20mm thickness in ordinary grey cement without chips laid on 20mm thick bed of cement coarse sand mortar 1 : 3 with neat cement slurry between joints and over the base in floors, treads of steps and landings.	27.67	Sqm	Per Sqm
G. ROOFING -WATER PROOFING					
37	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 the 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.	772.00	Sqm	Per Sqm
38	15.71	Cement pointing 1:2 flush on flat brick flooring / tile terracing.	772.00	Sqm	Per Sqm
39	13.64	Cement concrete 1:2:4 gola 10cm x 10cm quadrant along junction of roof with parapet wall finished smooth, where specially specified.	155.15	Mtr	Per Mtr
40	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 6 Kg. pressure	104.00	Mtr	Per Mtr
41	13.90	Providing and fixing PVC Bend ISI Mark			
	a)	150mm dia PVC Bend	14.00	nos.	Each
	i)	150mm dia PVC Bend (Shoe)	14.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
42	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	51.20	Sqm	Per Sqm
		Vertical	18.72	Sqm	Per Sqm
43	13.50	Top Khurra 0.6m x 0.6m for rain water pipe in 25mm thick cement concrete 1 : 2 : 4 over 50mm thick cement concrete 1 : 8 : 6	14.00	nos.	Each
44	13.66	Providing and lying cinder concrete in cement 1:15 (1 cement and 15 cinder) on terraced roofs & (Ist Storey) laid to slope, including consolidating the same	21.46	Cum	Per Cum
45	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	nos.	Each
H- JOINERY WORK					
46	18.18	Supply and fixing rolling shutters of approved make, M.S. Laths, interlocked together through their entire length, and jointed together, at the end, by the locks mounted on specially designed pipe shaft, with brackets, side guides, 27.5cm long, wire spring grade no. 2, and arrangement for inside and outside locking, with push and pull operation complete, including top cover 0.80mm thick (payment is to be made for the exact size of opening where rolling shutter is to be fixed) :-			
	b)	With 80mm x 1.25mm M.S. Laths	141.93	Sqm	Per Sqm
47	18.18	Supply and fixing rolling shutters of approved make, M.S. Laths, interlocked together through their entire length, and jointed together, at the end, by the locks mounted on specially designed pipe shaft, with brackets, side guides, 27.5cm long, wire spring grade no. 2, and arrangement for inside and outside locking, with push and pull operation complete, including top cover 0.80mm thick (payment is to be made for the exact size of opening where rolling shutter is to be fixed) :-			
	c)	Providing and fixing ball bearing, for push and pull type rolling shutters, from 9.20to 12 sqm area	40.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
48	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	838.28	Mtr	Per Mtr
49	17.93	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 or cross bands and face veneer on both sides commercial facing with laminated core and lipped edges:-			
	iii)	35 mm thick	38.73	Sqm	Per Sqm
50	18.30	Supplying and fixing glass panes including special metal sach putty of approved make			
	b)	Glass panes 4mm thick, exceeding 40Sq dm areas	79.43	Sqm	Per Sqm
51	17.71	Cost of iron fittings, complete for doors and windows, such as tower bolts, handles, etc, and screws for these fittings (excluding sliding bolt)-			
	b)	For double leaf shutters	38.73	Sqm	Per Sqm
52	17.75	Providing and fixing 150mm floor brass door stoppers, with rubber cushion, screws, etc, to suit shutter thickness complete -	21.00	nos.	Each
53	17.83	Providing and fixing sliding bolt with nuts and screws, etc, complete-			
	i)	Size 300mm x 16mm	6.00	nos.	Each
	ii)	Size 250mm x 16mm	15.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
54	17.87	Providing and fixing 0.50mm thick aluminium sheet, including cost of necessary screws, etc., Complete-	11.25	Sqm	Per Sqm
55	18.12	Wrought iron and mild steel (using angles, flats, square bars, tees 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.	59.94	Qtl	Per Qtl
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.	8.72	Qtl	Per Qtl
57	11.100	Brick edging 6.83cm wide 11.43 cm deep to plinth protection with ist class brick including grouting with cement sand mortar 1:4	109.60	Mtr	Per Mtr
58	NS i)	Providing and laying / fixing expansion joint in position at floor level comprising of 35mm thick thermocol sheet of 16 gauge density over metal crade, silicon based expansion joint sealant 1½" thick and 35mm wide over thermocol sheet including stone /slab and silicon based expansion joints as sealant complete in all respects including cost of all material and labour required complete to the entire satisfaction of the Engineer-in-Charge.			
		Floor	37.50	Mtr	Per Mtr
	ii)	Providing and laying vertical expansion joint in position in RCC columns haivng 2" thick termocol sheet of 2" thickness and 1'-10.1/2" width with and silicon based expansion joints as sealant 1.1/2" thickness 2" width on top of thermocol sheet and 9" wide GI sheet bolted from both ends @ 12" c/c/ over RCC columns including cost of all material and labour required complete in all respects as per drawings and requirements complete to the entire satisfaction of the Engineer-in-Charge.			
		Vertical	10.80	Mtr	Per Mtr

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
	iii)	Providing and laying in position expansion joints at roof comprising of 2" thick thermocol sheet 16 kg density over metal clade and silicon based expansion joint sealant 1½" thick and 2" width over thermocol sheet including rick cement mortar and again thermocol sheet of same thickness width and density and finally covered with again silicon based expansion joints of ½" thickness etc. including cost of all material and labour required complete in all respects as per drawings and requirements.			
		Roofing	12.50	Mtr Per Mtr	
59	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).			
		30 mm thick	150.00	Sqm Per Sqm	
60	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)			
	a)	30 mm thick	150.00	Sqm Per Sqm	
	b)	35 mm thick	20.00	Sqm Per Sqm	
B		PUBLIC HEALTH SANITARY INSTALLATION			

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
61	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	26.00	Mtr	Per Mtr
	b)	75mm internal diameter	67.00	Mtr	Per Mtr
62	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)	29.00	nos.	Each
	b)	75mm internal diameter (0.91 kg)	51.00	nos.	Each
63	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.	4.00	nos.	Each
	b)	For 75mm internal diameter pipes.	8.00	nos.	Each
64	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	24.00	nos.	Each
65	30.91	Providing and fixing in position HCI specials for soil, waste, vent or anti-siphonage 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.	2.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
		iv) Single junction with door 100mm x 100mm x 100mm	4.00	nos.	Each
		xvi) Cowls	2.00	nos.	Each
		xvii) Door piece	2.00	nos.	Each
		xxii) Collars	4.00	nos.	Each
		b) For 75mm I/D pipes.			
		xviii) Collars	8.00	nos.	Each
		iv) Single junction with door 75mmx75mm x75mm	8.00	nos.	Each
		xvii) Cowls	4.00	nos.	Each
		i) Heal rest bend	4.00	nos.	Each
66	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	6.00	nos.	Each
67	30.12	Extra over item no. 30.1 to 30.4 and 30.6 Providing and Fixing 8 Lt Capacity low level Vitreous Chinaware cistern complete with flush bend all other necessary fittings instead of C.I. high level cistern complete with fittings.			
		(i) White	6.00	nos.	Each
68	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	9.00	nos.	Each
69	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 to the entire satisfaction of the Engineer-in-Charge.	6.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
70	30.40	Providing and fixing 25mm thick marble portions for different type of urinals.			
	ii)	Large size 835x355mm			
	i)	White colour	9.00	nos.	Each
71	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	9.00	nos.	Each
72	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	6.00	nos.	Each
	e	C.P brass towel ring	3.00	nos.	Each
73	30.77	Providing and fixing CP brass liquid soap container of best quality complete	9.00	nos.	Each
74	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	3.00	nos.	Each
75	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.	21.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
76	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.	4.00	nos.	Each
77	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)	4.00	nos.	Each
78	29.85 C)	(Extra for every 0.30 mtr depth of Inspection Chamber 600x900mm	4.00	nos.	Each
79	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. complete to the entire satisfaction of the Engineer-in-Charge.			
	i)	50mm dia PVC pipe without wire mesh	15.00	Mtr	Per Mtr
	ii)	50mm dia PVC pipe with wire mesh	6.00	Mtr	Per Mtr
B. INTERNAL WATER SUPPLY					

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
80	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	59.00	Mtr	Per Mtr
	iii)	25 mm dia nominal bore	38.00	Mtr	Per Mtr
	iv)	20 mm dia nominal bore	78.00	Mtr	Per Mtr
	v)	15 mm dia nominal bore	36.00	Mtr	Per Mtr
81	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 complete to the entire satisfaction of the Engineer-in-Charge.			
	i)	15 mm nominal bore short body	6.00	nos.	Each
	ii)	15 mm nominal bore long body	12.00	nos.	Each
82	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).			
		3000Ltr. Capacity	2.00	nos.	Each
		1000 Ltr. Capacity	1.00	nos.	Each
83	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	5.00	nos.	Each
	iii)	25mm dia nominal bore	7.00	nos.	Each
	iv)	20mm nominal bore	3.00	nos.	Each
84	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.			

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
		ii) 32mm dia nominal bore	3.00	nos.	Each
		iii) 25mm dia nominal bore	2.00	nos.	Each
85	30.110	Providing and fixing in position automatic brass ball valve in tanks			
		b) With Plastic ball			
		iv) 32 mm dia nominal bore	3.00	nos.	Each
86	NS	Providing and fixing in positioning 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	21.00	nos.	Each
87	NS	Providing and fixing in positioning chromium plated brass screw complete to the entire satisfaction of the Engineer-in-Charge.	3.00	nos.	Each

FIRE EXTINGUISHERS

88		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 certificate from CCE, Nagpur shall be provided.	20.00	nos.	Each
		ii) 9 Ltr WCO ² stored type with fire rating 2A pressure testing 35 kg/cm ² as IS 15683-2006 with 90% discharge in 13 sec (min ^m).	10.00	nos.	Each

b) EXTERNAL PUBLIC HEALTH WORKS

(i) SEWERAGE

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
89	6.10	Excavation for trenches in streets, lanes on in open area for storm sewer, sewers running by gravity to full depth including dressing to correct sections and dimensions including refilling of trenches watering of refill in 15cm layers, ramming and restoration of unmetalled or unpaved surface to original conditons etc. complete.			
	a)	for depth of excavation not exceeding 3 mtr below ground level	68.00	Cum	Per 100 Cum
90	29.40	Providing SALT GLAZED STONE WARE PIPES GRADE 'A' IN STANDARD LENGTH OF 600MM EACH PIPE MARKED WITH IS: 651 and their loweing, cutting, jointing and testing as described in HSR item No. 29,38,29,39,29,40 including the cost of jointing materials as well as carriage, loading unloding, stacking, handing, re-handing etc. complete in all respects to the satisfaction to the Engineer-in-charge.			
	a)	200 mm i/d	80.00	Mtr	Per Mtr
91	10.34	Cement concrete 1:5:10 with brick ballast 40mm nominal size laying all round SW pipes including bed concrete as per standard design.	5.60	Cum	Per Cum
92	NS	Making connections of sewer line wih existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix complete to the entire satisfaction of the Engineer-in-Charge.	1.00	nos.	Each
93	29.90 (iv)	Construction of rectangular standard brick masonry manhole chamber to standard drawing on SW pipe sewer or storm water upto the required depth in 1:5 cement sand mortar 1:6:12 in bed and sides of pipe sewer and cement concrete 1:2:4 IN BENDING 12mm thick cement plaster 1:2 with floating coat neat cement RCC slab 180 mm thick fixing CI manhole cover and frame etc complete.			
	iv)	On 200mm internal dia pipe sewer	2.00	nos.	Each
94	29.94	Providing and fixing SFRC MANHOLE COVERS AND FRAMS MARKED WITH IS: 12592 including setting the same to correcre lines and levels in 1:2 cement sand mortar over manhole including carriage loading, unloading stacking handling rehandling etc. compele in all respects to the satisfaction of Engineer-in-charge.			
		Type : Extra Heavy Duty Set (EHD-35) 560 mm Clear opening.	2.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
95	NS	Providing and fixing CI foot rest embedded in cement concrete block 1:3:6 complete to the entire satisfaction of the Engineer-in-Charge.	8.00	nos.	Each
	(ii)	EXTERNAL WATER SUPPLY			
96	6.8	Excavation for pipelines running under pressure in trenches and pits, in open areas, whereas disposal of surplus earth is done alongwith the alignment including trimming and dressing sides, levelling of beds of trenches to correct grade, cutting joint holes, cutting trees and bushes, etc. refilling consolidation and watering of refill in 15cm layers and restoration of unmetalled or unpaved surface to its original condition, including the cost of dewatering of rain water, diversion of traffic, night signals, fixing caution boards, watching, fencing etc. and outside the town in ordinary soil:			
	a)	Without timbering & shoring upto 1.5 mtr depth.	70.00	Cum	Per 100
97	NS	Providing & fixing 'B' class GI pipe lines Jindal make and specials 'U U' make ISI marked at all heights complete in all respects with specials such as tees, bends, elbows, sockets, unions, clamps, nipples, reducers, etc. in ground (excluding excavation) including cutting, chasing and making them good wherever required in trenches to correct alignment and gradient including cutting, wastage, threading, jointing and testing of pipe lines including painting two coats with anti corrosive paint and laying of sand around the pipe complete to the entire satisfaction of the Engineer-in-Charge.			
	a)	65 mm internal dia	120.00	Mtr	Per Mtr
98	NS	Providing and fixing gun metal peet valves with hand wheels on GI pipe line complete to the entire satisfaction of the Engineer-in-Charge.			
	a)	65 mm internal dia	1.00	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
99	NS	Constructing masonry chamber 30x30x50 cm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement : 5 fine sand) for stop cock including cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete to the entire satisfaction of the Engineer-in-Charge.	1.00	nos.	Each
100	28.53	Providing and fixing BRASS/GUN METAL FERRULES BY DRILLING AND TAPPING A.C./PVC PIPE LINES of all diameters and connections including cost of M.S. Clamp (Heavy) with welded socket/Saddle piece including carriage, loading , unloading etc. complete in all respects to the satisfication of Engineer-in-Charge.(Excavation will be paid separately. 10mm i/d ferrule on 100mm i/d pipes	1.00	nos.	Each

DETAILED NOTICE INVITING TENDER

NAME OF THE WORK:- "EXTENSION OF ENGINEERING CELL BUILDING FOR PURCHASE STORE AND TRANSPORT OFFICE INCLUDING P.H. & E.I. AT MAHARISHI DAYANAND UNIVERSITY, ROHTAK "

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

Sr. No.	HSR Ref. No/N.S.	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.			
	xv)	Triple pole switch with neutral link 63 Amp 415 Volts (Cat "B")	1	no.	Each
	xvii)	Triple pole switch with neutral link 200 amp 415 volts (Cat "B")	4	no.	Each
2	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	70	Mtr	Per mtr
3	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	8	Sqm	Per sqm
4	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	236	nos.	Each
	(iii)	40 amp. To 63 amp. TPNMCB	16	nos.	Each

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
5	31.18 (M)	Supply and erection of Fittings and Accessories			
	(vii)	Call bell 220/230 Volts A.C. bakelite with double coil.	2 nos.	Each	
	(viii)	Electric buzzer 200/230 volts A.C. bakelite with double coil.	2 nos.	Each	
	xi)	Bakelite angle / straight button holder large size.	42 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.	228 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.	237 nos.	Each	
6	31.21	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.	320 Mtr	Per mtr	
	xvi)	Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness on surface.	70 Mtr	Per mtr	
	xxi)	Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	100 Mtr	Per mtr	
	xxii)	Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed.	500 Mtr	Per mtr	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
	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	40 Mtr	Per mtr	
7	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.	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. (but without charcoal or coke and salt) etc. complete as required.	2 nos.	Each	
	v)	Extra for charcoal or coke and salt for GI plate or copper plate earth electrode.	2 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.	40 Mtr	Per 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.	40 Mtr	Per 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 Mtr	Per mtr	
	xvii)	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	30 Mtr	Per mtr	
8	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.	4 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	4 nos.	Each	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
		v) Providing standard watering tank including down pipe and C.I. cover with locking arrangement etc.	4 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.	170 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 with G.I. staples of same size.	170 Mtr	Per 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.	4 nos.	Each	
		ix) Providing and fixing testing joints made of 20 mm x 3 mm thick G.I. strips 125 mm long with 4 Nos. G.I. bolts and nuts with washers complete.	4 nos.	Each	
9	31.26	Supply and erection of under ground cable, loose in existing pipe or trenches complete with necessary connections.			
		iv) 10 sqmm to 2 Core cable (Armoured)	250 Mtr	Per mtr	
		xxix) 95 Sqmm to 3.1/2 Core Cable (Armoured)	400 Mtr	Per mtr	
		xxxiii) 240 Sqmm 3.1/2 Core Cable (Armoured)	200 Mtr	Per mtr	
		xli) 25 Sqmm 4 core cable (Armoured)	25 Mtr	Per mtr	
10	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	8 nos.	Each	
		iii) 25 Sqmm to 50 Sqmm Cable 2 to 4 Core	2 nos.	Each	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
		iv) 70 Sqmm to 95 Sqmm Cable 3 to 3.1/2 Core	4 nos.	Each	
		vii) 300 Sqmm to 400 Sqmm Cable 3 to 3.1/2 Core	1 no.	Each	
11	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)			
		iv) 200 Amp 4 bars of 55 cm each (cross section 25 mm x 5 mm) chamber over all size 60 cm x 45 cm x 18 cm.	4 nos.	Each	
		x) 400 amp 4 bars of 100 cm each (cross section 50 mm x 5 mm), chamber over all size 1.10 m x 55 cm x 23 cm.	1 no.	Each	
12	31.35 i)	Supply of M.S. pipe (B-class) for suspension rod of ceiling fan including threading if required.			
	a)	15 mm dia	140 Mtr	Per mtr	
	xi)	Supply of erection of aluminium lugs heavy duty including crimping etc. upto the entire satisfaction of the Engineer-in-charge of the work.			
	e)	25 Sqmm	8 nos.	Each	
	g)	50 Sqmm	4 nos.	Each	
	i)	95 Sqmm	12 nos.	Each	
	j)	120 Sqmm	1 nos.	Each	
	m)	240 Sqmm	3 nos.	Each	
13	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	16 nos.	Each	
	ii)	Light Point			

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
		a) Short Point	54 nos.	Each	
		b) Medium point	40 nos.	Each	
		c) Long point	260 nos.	Each	
		iii) Twin Control light point with 2 ways, 5 amp. Single pole switch.			
		b) Medium point	3 nos.	Each	
		c) Long point	3 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	4 nos.	Each	
		vii) 3-pin 5 amp plug point including earthing the 3rd pin etc.			
		a) Short Point	198 nos.	Each	
		b) Medium point	60 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.			
		c) Long point	72 nos.	Each	
14	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 Mtr	Per mtr	
		ii) Cable size 2.5 Sqmm (3/1.05mm)	2500 Mtr	Per mtr	
		iii) Cable size 4 sqmm (7/0.85 mm)	1000 Mtr	Per mtr	
		v) Cable size 10 sqmm (7/1.35 mm)	50 Mtr	Per mtr	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
		vi) Cable size 16 Sqmm (7/1.70 mm)	20 Mtr	Per mtr	
		vii) Cable size 25 Sqmm (7/2.14 mm)	20 Mtr	Per mtr	
		viii) Cable size 35 Sqmm (7/2.52 mm)	20 Mtr	Per mtr	
15	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)	4 nos.	Each	
		vi) 8-Way TP&N (Horizontal) (8+24)	12 nos.	Each	
16	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	100 Mtr	Per mtr	
17	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	192 nos.	Each	
		b) 4 sqmm to 6 sqmm	264 nos.	Each	
		c) 10 sqmm	120 nos.	Each	
		d) 16 Sqmm	12 nos.	Each	
		e) 25 Sqmm	12 nos.	Each	
		f) 35 Sqmm	12 nos.	Each	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
18	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.	300 nos.	Each	
19	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.	228 nos.	Each	
20	NS	Supply and erection of square type M.S. cable box suitable for various size of Main switches made of 1-60 mm thick M.S. sheet including cutting, welding, panting, fixing, making hole for gland and petty material required to complete job.			
	a)	Suitable for 400 A /415 V TPN Switches	1 nos.	Each	
	b)	Suitable for 200 A /415 V TPN Switches	4 nos.	Each	
21	NS	Supply and erection of 400 Amp TP switch with neutral link 415 volts with 3 Nos. HRC fuses fixed on MS angle iron frame, ecessary connection other petty material, double break havells, standard make	1 nos.	Each	
22	NS	Cutting of road by machine / manual means for fixing of required of size of PVC pipe.	15 Mtr	Per mtr	
23	NS	Supply & filing river sand in existing trenches etc.	36 cum	Per cum	
24	NS	Supply & erection of 1st class brick on existing cables in pucca trench	2300 nos.	Each	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
25	NS	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	
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.	84 cum	Per 100 cum	
27	10.26	Cement Concrete 1:8:16 with brick ballast 40mm nominal size in foundation and plinth.	10 cum	Per cum	
28	11.4	First class brick laid in cement sand mortar 1:4 in foundation and plinth.	30 cum	Per cum	
29	15.5	12 mm thick cement plaster 1:4	200 Sqm	Per sqm	
30	31.18 (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 condduit 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)	200 nos.	Each	
	xxiii)	Extra for additional length of 20 mm dia conduit pipe for hanging of fitting (for item no. xxi, xxii)	100 Mtr	Per mtr	
	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	70 nos.	Each	

Sr. No.	HSR Ref. No/N.S.	Description of item	Qty.	Unit	Each Rate to be quoted by the Contractor (Rs.)
31	31.20 (i)	Erection of ceiling fan complete with necessary earthing of fan and regulator including carriage from local railway station/Goods transport/PWD store the site of work	228 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	42 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/Polycable make if required and no extra payment will be allowed on this account.

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 lvi 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	Main Switches			
	(a)	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	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.

DETAILED NOTICE INVITING TENDER

DNIT for the work “Construction of Foot path in children park in MDU, Rohtak”

App. Amt. Rs. 8,74,000/-
Earnest Money Rs. 8,740/- Rs. 17,480/-
Time Limit: 02 months

Sr. No.	HSR Ref. No./N.S.	Description	Qty.	Unit	Individual Rate to be quoted by the contractor (Rs.)
1.	6.6	(B) (i) Earth work in Excavation of Foundations in Trenches Earth work in excavation in foundations, trenches, etc in all kinds of soils, not exceeding meters 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 with in a lead up to 30 me	190 cum	Per 100 cum	
2.	10.26	(D) Cement Concrete: Cement concrete 1:8:16 with brick ballast 40mm nominal size in foundation and plinth.	190 cum	Per cum	
3.	10.132	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in pavement, roads, taxi-tracks and run ways, laid to required slope and camber, including consolidation, finishing and tamping complete	142.50 cum	Per cum	
4.	9.13	Shuttering for faces of concrete foundation and foundation beams (vertical or battering)	193.23 sqm.	Per sqm.	