

P.W.D., BUILDINGS CONSTRUCTION AND MAINTENANCE CIRCLE, COIMBATORE - 01

SCHEDULE

NAME OF WORK: **Construction of Prefabricated Structure Workshop and Laboratory in Government ITI at Coimbatore in Coimbatore District**

Sl. No.	Approximate Quantity	Description of work.	TNBP. No./ NBC No.	Rate [In figures and in words]	Unit of measure-ment [in figures and in words]	Amount.
1	2	3	4	5	6	7
1	490.00 Cu.m [Four hundred and ninety cubic metres only]	EARTH WORK EXCAVATION for foundation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift upto 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	23 & 24 V, VI S2		1 Cu.m. [One cubic metre]	
2	300.00 Cu.m [Three hundred cubic metres only]	Refilling in Foundation and Basement with excavated earth in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	24&25 NBC Part VI[S2]8		1 Cu.m. [One cubic metre]	
3	135.00 Cu.m [One hundred and thirty five cubic metres only]	Supplying and filling in foundation, basement, etc with FILLING Crushed Stone Sand in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	24&25 NBC Part VI[S2]8		1 Cu.m. [One cubic metre]	
4	412.00 Cu.m [Four hundred and twelve cubic metres only]	Supplying and filling in foundation, basement, etc with GRAVEL with not more than 15 cm thick well watered, rammed and compacted 1m ³ etc. complete complying with standard specification and as directed by the departmental officers.	23 & 24 V, VI S2		1 Cu.m. [One cubic metre]	

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1	2	3	4	5	6	7
5	36.00 Cu.m [Thirty six cubic metres only]	CEMENT CONCRETE 1:5:10 [One Cement, Five Crushed Stone Sand and Ten hard broken stone jelly] using 40 mm gauge hard broken granite stone jelly for FOUNDATION including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification.	28 V, VI S2 [SS.A] VII		1 Cu.m. [One cubic metre]	
6		BRICK WORK in Cement Mortar 1:5 [One Cement and Five crushed stone Sand] using best quality chamber burnt Fly Ash Bricks of size 9" x 4 3/8" x 2 3/4" [23 x 11 x 7cm] for the following including curing etc., complete complying with standard specifications. [Masonry projections wherever necessary for obtaining required elevation shall be done without extra cost].	31 & similar to 31C V, VI [S5] VII			
a]	114.00 Cu.m [One hundred and fourteen cubic metres only]	For Foundation & Basement			1 Cu.m. [One cubic metre]	
b]	103.00 Cu.m [One hundred and three cubic metres only]	In Ground Floor			1 Cu.m. [One cubic metre]	
7	55.00 Sq.m [Fifty five square metres only]	DAMP PROOF COURSE with Cement Mortar 1:4 [One Cement and Four CS sand] 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification.	S38 [S6] & V, VI		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
8	554.00 Sq.m [Five hundred and fifty four square metres only]	Supplying and erecting Shuttering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as COLUMN FOOTINGS, COLUMN PEDESTALS, PLINTH BEAMS, GRADE BEAMS, STAIRCASE STEPS, BED BLOCKS etc. , which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. [Payment for centering shall be given after the concrete is laid]	30&46] V, VI		1 Sq.m. [One square metre]	
9		Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height For plane surfaces as detailed below , in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specification. (Payment for centering shall be given after the concrete is laid).	30[S] 86 86 A V, VI [S3] VII			
a]	310.00 Sq.m [Three hundred and ten square metres only]	RCC FLOOR SLAB, ROOF SLAB, RECTANGULAR BEAMS, ELL BEAMS, LINTELS, LANDING WAIST SLAB, CONAPY SLABS BED BLOCKS etc.,			1 Sq.m. [One square metre]	
b]	487.00 Sq.m [Four hundred and eighty seven square metres only]	FOR RECTANGULAR OR SQUARE RCC COLUMNS TOP AND BOTTOM SLABS OF RCC BOXING TO WINDOWS RCC SUNSHADES etc.,			1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
10		Providing and laying in position, standardised concrete Mix M-20 Grade in accordance with IS:456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/ms and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu'm') 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever necessary without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS standards. (No separate payment will be made by the Department for the excess usage of materials).	30 V,VI [S3] VII.3			
a]	304.00 Cu.m [Three hundred and four cubic metres only]	For Foundation & Basement			1 Cu.m. [One cubic metre]	
b]	63.00 Cu.m [Sixty three cubic metres only]	In Ground Floor			1 Cu.m. [One cubic metre]	

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1	2	3	4	5	6	7
11	396.00 Qtl [Three hundred and ninety six quintals only]	Supplying, fabricating and placing in position MILD STEEL / RIBBED TOR STEEL grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. [Contractor has to make his own arrangements for the supply of steel and binding wire]	97 V, VI[S6] VII[S6] VII.3		1 Qtl. [One quintal]	
12	92.00 Cu.m [Ninety two cubic metres only]	CEMENT CONCRETE 1:5:10 [One cement, Five Crushed Stone Sand and Ten hard broken stone] using 40 mm gauge hard broken jelly for FLOORING including laying, consolidating, finishing, rendering the top surface rough to receive the floor, curing, etc. complete complying with standard specification. [The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers.	28 V, VI S2 [SS.A] VII		1 Cu.m. [One cubic metre]	
13		BRICK PARTITION walls of 11.50 cm thickness using best quality FLY ASH BRICKS of size 230 x 110 x 70mm in Cement Mortar 1:3 [One Cement and Three Crushed Stone Sand] using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers.	31 of TNBP. V,VI[S3] VII			
a]	33.00 Sq.m [Thirty three square metres only]	In Ground Floor			1 Sq.m. [One square metre]	
14	638.00 Sq.m [Six hundred and thirty eight square metres only]	SPECIAL CEILING PLASTERING and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, facia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 [One Cement and Three plastering Sand] 10 mm thick including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers.	56 & 57		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
15	1458.00 Sq.m [One thousand four hundred and fifty eight square metres only]	PLASTERING with Cement Mortar 1:5 [One Cement and Five plastering Sand], 12 mm thick in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	61 V, VI [S4] 3		1 Sq.m. [One square metre]	
16	1258.00 Sq.m [One thousand two hundred and fifty eight square metres only]	Painting two coats of newly plastered wall surface with ready mixed INTERIOR PLASTIC EMULSION PAINT of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt etc., complete complying with standard specification.	61 V, VI.(S4)3		1 Sq.m [One square metre]	
17	839.00 Sq.m [Eight hundred and thirty nine square metres only]	Painting two coats of newly plastered wall surface with ready mixed PLASTIC EXTERIOR EMULSION PAINT of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specifications and as directed by the departmental officers.	61 V, VI [S4] 3		1 Sq.m. [One square metre]	
18	2330.00 Kg. [Two thousand three hundred and thirty kilograms only]	Supplying and fixing M.S.Grill for opening corridor side ladder, Entrance Gate and Name board angles etc., using necessary M.S. flats for inner member and outer members which should be fixed as directed by the departmental officers inclusive cost of providing one coat of best quality red oxide primer.The design of M.S.Grill should be got approved from departmental 'officers before use on work.	Special		1Kg [One kilograme]	
19	126.00 Sq.m [One hundred and twenty six square metres only]	Painting NEW IRON works such as steel doors, windows, ventilators, window bars, balustrades etc., with TWO COATS of best approved first quality and colour of synthetic enamel paint over one coat of red oxide priming coat in all floors including cost of priming coat etc., complete complying with standard specification. [The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.]	61 V, VI [S4] 3		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
20	41.00 Sq.m [Forty one square metres only]	Painting NEW WOOD WORK with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all floors including the cost of primer etc., complete complying with standard specifications and as directed by the departmental officers. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)	61 V, VI [S4] 3		1 Sq.m. [One square metre]	
21	236.00 Sq.m [Two hundred and thirty six square metres only]	Providing and fixing 8 mm thick fully designed perforated calcium silicate board 2'x2' panel tiled false ceiling (Hilux) including supplying and fixing true horizontal level false ceiling with 24mm prelude grid system Using hot dipped galvanised steel section exposed surface chemically cleaned capping prefinished in backed polyester paint wall angle of size 3000x19x19mm used in the periphery of the ceiling fixed to the wall, partition with the help of screws at 600mm c/c. Mainrunner of size 3000x24mm suspended at a 1200mm c/c by using securely fixed to the structural soffit of RCC slab by using 6mm Nylon Rwl plug at every 1200mm(max) and 1200mm long cross tee of size 1200x24mm to interlocked between mainrunner at 600mm c/c(max) to form a grid of size 1200x600mm. 600mm long cross tee of size 600x24mm is inserted to form a grid of 600x600mm and finally laying classic lite regular edge tiles of size 600x600x15mm	Special		1 Sq.m. [One square metre]	
22	255.00 Sq.m [Two hundred and fifty five square metres only]	Paving the floor with best quality Double Charged Vertified Tiles of size 600 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three crushed stone sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	Special		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
23	44.00 Sq.m [Forty four square metres only]	Flooring with best approved quality self designed colour CERAMIC TILES of 305 x 305 x 6 mm size laid over 20 mm thick cement mortar 1:3 (One Cement and Three cs Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works).	41B Generally		1 Sq.m. [One square metre]	
24	85.00 Sq.m [Eighty five square metres only]	DADOOING walls with printed design colour glazed tiles of size 300 mm x 450 mm x 6 mm sizes set in Cement Mortar 1:2 [One Cement and Two CS Sand] 10 mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg/m ² neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.	41 B General		1 Sq.m. [One square metre]	
25	658.00 Sq.m [Six hundred and fifty eight square metres only]	Vacuum dewatering for workshop flooring.	41 B General		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
26	69.00 Sq.m [Sixty nine square metres only]	Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work	Special		1 Sq.m [One square metre]	
27	42.00 Sq.m [Forty two square metres only]	Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators of from the profile the size of outer frame 60mm x 58mm and shutter profile size of 60 x 78mm both profiles are reinforced with GI/1mm 125GSM and 100% corrosion free, the profile are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with all over the edges of frame and shutter. The corners and joints should be welded and cleaned. Radiations pin headed glass 4mm thick should be provided in the louvers. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The ventilator should be got approved from the Executive Engineer before use on work.	81 XII (SS)15		1 Sq.m [One square metre]	

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1	2	3	4	5	6	7
28	46.00 Rm [Forty six running metres only]	Supplying, fabricating and fixing in position of steel frame without bottom frame, of size 100X60mm rectangular section with necessary rebate 30mmX15mm, to host the shutter, using 1.25mm thick (18 guage) CRCA cold rolled frame steel plate confirming to ISI specified ensured of right butt joint riveted hold assembly with nylon insert,not be welded with special purpose hard ware. Proclaimed including phopating as per ISI with rust preventive primer ready to assemble condition for easy installation at site including dismantling,making necessary chipping and holes in RCC columns, walls with power drills to the extent required ,including providing concrete 1:2:4 inside the box curing etc complete.The cost includes the cost of hold fast ,plastic bush, insert receiver,rubber bottom, shock absorber etc complete as directed by the departmental officers in all floors.	Special		1 Rm. [One Running metre]	
29		Supplying and fixing Solid core Particle board flush shutter of nominal thick of 35 mm with Teak ply on both sides and with T.W. lipping alround conforming to IS 2302 including supplying and fixing cost of wind appliances and furniture fittings such as 1no .300 x 12 mm aluminium tower bolt 2 nos. 200x12 mm aluminium tower bolts 1no. 250 x 16 mm aluminium aldrops, 2 nos. 200mm 'D' type aluminium door handle and door stopper with bush etc., complete as directed by the departmental officers.	Special			
a]	17.50 Sq.m [Seventeen square metres and fifty square decimetres only]	Single Leaf			1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
30	12.00 Sq.m [Twelve square metres only]	Supplying and fixing Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter etc., complete.	Special		1 Sq.m. [One square metre]	
31	15.50 Sq.m [Fifteen square metres and fifty square decimetres only]	Supplying and erecting pull and push type rolling shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc., Electrically operated type (exceeding 12m2 area)	Special		1 Sq.m. [One square metre]	
32	27.00 MT [Twenty seven metric tons only]	Supply, Fabrication, Erection, alignment and levels as per approved shop drawing of structural steel work in built up sections comprising of ISMB, ISMC, angle, plates and round bar section etc., Necessary permanent rivets, bolts, washers and nuts, handling, straightening, cutting, drilling holes, welding, sand blasting, shop assembly, transport to erection site, storing, leading to erection site and apply a coat of anti-corrosive yellow primer paint of approved make and two coat of MRF enamel paint prior to erection t complete job in all respect. a) Connection Bolt are E350 GR.8.8 (IS3757) b) Hot Rolled are E250 GR, or Equivalent , Plate Grade E350 and all structural steel confirm to IS2062.c) Specification for Cold formed Light gauge Structural Steel Sections Confirm to IS: 811d) Painting confirm to IS 1477 part 1& 2.The rate is inclusive of design ,shop drawing preparation, submission for approval etc., and also inclusive of any other incidental charges such as lifting using cranes, labour charges for erection, cost of all materials involved and painting two coats over one coat of primer and as directed by the departmental officers.	Special		1 MT [One Metric Ton]	

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1	2	3	4	5	6	7
33		Supply, Fabrication, Erection, alignment and levels as per approved shop drawing of structural steel work in single section for purlins, tie runners with sag rods, etc., Necessary permanent rivets, bolts, washers and nuts, handling, straightening, cutting, drilling holes, welding, shop assembly, transport to erection site, storing, leading to erection site and apply a coat of anti-corrosive yellow primer paint and MRF enamel paint prior to erection. The rate is inclusive of design ,shop drawing preparation, submission for approval etc., and also inclusive of any other incidental charges such as lifting using cranes, labour charges for erection, cost of all materials involved and painting two coats over one coat of primer and as directed by the departmental officers.	Special			
a]	7.20 MT [Seven metric tons and two hundred kilograms only]	Purlin but with Painted cold rolled steel sections Z Section MET- Z Purlin 150 X 60 x 2.0			1 MT [One Metric Ton]	
b]	2.50 MT [Two metric tons and five hundred kilograms only]	Sag rod			1 MT [One Metric Ton]	

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1	2	3	4	5	6	7
34	101.00 Rm [One hundred and one running metres only]	Supplying and embedding P.V.C rain water pipes of approved quality embedded inside the RC columns/masonry in position or underside of truss/lattice, column sides with all necessary specials like shoes, bends or any other specials required to suit site conditions etc., jointed with suitable adhesive and covering the joints using fibre glass wherever required, the steel collar and PVC Pipes with necessary MS clamps, brackets, bolts and nuts all complete as directed. The rate should including providing M.S pipe sleeve necessary lugs of required dia in concrete in the concrete. The rate is inclusive of any other incidental charges such as labour charges, cost of all materials involved and as directed by the departmental officers. 200 mm Dia PVC Pipe (6k/cm2)	Special		1 Rm. [One Running metre]	
35	95.00 Rm [Ninety five running metres only]	Supply and Fixing of UPVC Rain water Gutter of approved design and drawing including clamping and all others works required to complete the job. The rate is inclusive of any other incidental charges such as labour charges, cost of all materials involved and as directed by the departmental officers.	Special		1 Rm. [One Running metre]	
36	1512.00 Sq.m [One thousand five hundred and twelve square metres only]	Supply & Fixing of Continuous sandwich PUF panels 50 mm thick either as single piece, prefabricated, modular, factory made units which consist of an insulating layer of rigid polyurethane foam between two layers of metal sheets, comprises of PUF bonded between two sheets of Pre-coated GI sheets of 0.5 mm thick to produce straight-to-finish panels with all necessary fixtures to complete the work in all respect. The rate is inclusive of design, shop drawing preparation, submission for approval etc., and also inclusive of any other incidental charges such as lifting using cranes, labour charges for erection, cost of all materials involved and as directed by the departmental officers.	Special		1 Sq.m. [One square metre]	

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37	110.00 Rm [One hundred and ten running metres only]	Supply and fixing of Ridge made out of 0.50mm thick colour coated galvanized steel sheet (JSW sheet brand or equivalent brand) . The both sides will be of 275mm, center angle will be of 120mm and both end drop will be of 30mm. This sheet will be fixed with self-drilling screws. The rate is inclusive of design, shop drawing preparation, submission for approval etc., and also inclusive of any other incidental charges such as lifting using cranes, labour charges for erection, cost of all materials involved and as directed by the departmental officers. All the materials used on work should be got approved by the executive engineer before use on works.	Special		1 Rm. [One Running metre]	
38		Supplying, laying and jointing UPVC pipes (Un-plasticized polyvinyl chloride) UPVC used for (Commercial applications) , water pressure in residential areas do not normally exceed the maximum tolerance (schedule - 80) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using PVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges upto 4 metre height above ground level, etc., complete complying with standard specifications. The UPVC pipes shall be got approved by Executive Engineer before use on works.	Special			
		EXTERNAL WATER SUPPLY - BELOW GROUND LEVEL				
a]	50.00 Rm [Fifty running metres only]	40mm dia pipe			1 Rm. [One Running metre]	

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1	2	3	4	5	6	7
39		Supplying, laying and jointing UPVC pipes (Un-plasticized polyvinyl chloride) UPVC used for (Commercial applications) , water pressure in residencial areas do not normally exceed the maximum tolerance (schedule - 80) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using PVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges upto 4 metre height above ground level, etc., complete complying with standard specifications. The UPVC pipes shall be got approved by Executive Engineer before use on works.	Special			
		Internal Water Supply Arrangements using UPVC pipes				
a]	20.00 Rm [Twenty running metres only]	25mm dia pipe			1 Rm. [One Running metre]	
40		Supplying, laying and jointing UPVC pipes (Un-plasticized polyvinyl chloride) UPVC used for (Commercial applications) , water pressure in residencial areas do not normally exceed the maximum tolerance (schedule - 80) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using PVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges upto 4 metre height above ground level, etc., complete complying with standard specifications. The UPVC pipes shall be got approved by Executive Engineer before use on works.	Special			

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1	2	3	4	5	6	7
		EXTERNAL WATER SUPPLY - ABOVE GROUND LEVEL				
a]	16.00 Rm [Sixteen running metres only]	25mm dia pipe			1 Rm. [One Running metre]	
b]	12.00 Rm [Twelve running metres only]	32mm dia pipe			1 Rm. [One Running metre]	
41		Supplying and fixing in position UPVC unions of heavy duty of approved quality and good variety of various sizes including necessary cutting and threading of UPVC pipes for jointing the union and providing two coats of painting with good variety and approved quality of synthetic enamel paint over one coat of primer in case of pipe line above ground level / one coat of tar in case of below ground level for both internal and external water supply arrangements, etc., complete complying with standard specifications. (The UPVC unions should be got approved by Executive Engineer before use on works).	Special			
a]	5.00 Nos. [Five numbers only]	25 mm dia			1 No. [Each]	
b]	8.00 Nos. [Eight numbers only]	32 mm dia			1 No. [Each]	

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1	2	3	4	5	6	7
c]	6.00 Nos. [Six numbers only]	40 mm dia			1 No. [Each]	
42		Supplying and fixing in position of the following UPVC SPECIALS(Heavy type) of approved quality and good variety excluding the fixing charges but including necessary cutting and threading of UPVC pipes for jointing the UPVC specials and providing two coats of painting with good quality and approved variety of synthetic enamel paint in the case of pipe line above ground level and one coat of tarring in the case of pipe line below ground level etc., complete.	Special			
		UPVC ELBOW				
a]	10.00 Nos. [Ten numbers only]	25mm dia			1 No. [Each]	
b]	10.00 Nos. [Ten numbers only]	32mm dia			1 No. [Each]	
c]	10.00 Nos. [Ten numbers only]	40mm dia			1 No. [Each]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
		UPVC TEE				
d]	9.00 Nos. [Nine numbers only]	25mm dia			1 No. [Each]	
e]	8.00 Nos. [Eight numbers only]	32mm dia			1 No. [Each]	
f]	9.00 Nos. [Nine numbers only]	40mm dia			1 No. [Each]	
		UPVC COUPLING				
g]	8.00 Nos. [Eight numbers only]	25mm dia			1 No. [Each]	
h]	8.00 Nos. [Eight numbers only]	32mm dia			1 No. [Each]	
i]	8.00 Nos. [Eight numbers only]	40mm dia			1 No. [Each]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
		UPVC REDUCER				
j]	7.00 Nos. [Seven numbers only]	32x25mm dia			1 No. [Each]	
k]	7.00 Nos. [Seven numbers only]	25x20mm dia			1 No. [Each]	
l]	7.00 Nos. [Six numbers only]	20x15mm dia			1 No. [Each]	
		UPVC HEX NIPPLE				
m]	10.00 Nos. [Ten numbers only]	25mm dia			1 No. [Each]	
43	10.00 Nos. [Ten numbers only]	Supplying and fixing in position 15 mm dia brass CP SCREW DOWN TAP of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including cutting and threading wherever necessary. [Taps should be got approved by the Executive Engineer before use on the works]	Special		1 No. [Each]	
44		Supplying and fixing in position first quality and approved variety of Gun metal WHEEL VALVE / GATE VALVE with BIS make of the 20mm dia including cost of shellac, thread balls, etc., complete complying with standard specifications [for both internal and external water supply arrangements]. The valves to be used on work shall be got approved by the Executive Engineer before use on work.	Special			

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
a]	1.00 No. [One number only]	40mm dia GM GATE VALVE			1 No. [Each]	
b]	1.00 No. [One number only]	32mm dia GM GATE VALVE			1 No. [Each]	
45	2.00 Nos. [Two numbers only]	Supplying and fixing in position best quality and approved make Indian made white glazed earthenware wash hand basin of size 550 x 400mm (without pedestal) with a pair of cast iron brackets, including cost 15mm dia brass CP pillar tap, 32mm dia "B" class GI waste pipe with rubber plug and chain, 15mm dia GM wheel valve, 15mm brass nipple, 15mm dia nylon connection, 32mm dia CP brass waste coupling including fixing of wash basin using CI brackets on to the wall in position with TW plugs and screws, rubber washers, white lead and giving necessary water supply connection and painting the brackets with two coat of painting over a priming coat of anti-corrosive paint including testing for leakages etc., complete complying with standard specification and as directed by the departmental officers. (The wash hand basin and specials should be got approved by the Executive Engineer before use on works).	Special		1 No. [Each]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
46	4.00 Nos. [Four numbers only]	Supplying and fixing in position INDIAN WATER CLOSET (Oriya type) of size 580 x 440mm white glazed earthen ware of approved quality and brand with "P" or "S" trap conforming to BIS with sand cushion and forming flooring alround the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two cs sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to PVC pipes (including the cost of 110mm dia PVC pipe for a length of 600mm) by dismantling brick masonry wall / reinforced cement concrete roof / floor slab and making good the dismantled portion to the original condition with leakages etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Executive Engineer before use on works).	Special		1 No. [Each]	
47	2.00 Nos. [Two numbers only]	Supplying and fixing in position White / Colour glazed European Water Closet of best quality and approved make with 100 mm "P" or "S" trap connecting with CI pipe of 110mm dia / PVC pipe of 100mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelin low level flushing tank with a pair of CI brackets, etc., complete with all fittings such as 15mm brass ball valve with polythene float with brass handle, union, coupling connected by means of 40mm white PVC flush hand using Indian adopter joint including all internal fittings.such as 15mm brass connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe including cost of 600mm length of 110mm dia PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition etc. complete complying with standard specifications. (The EWC and flushing tank wiht all accessories should be got approved by the Executive Enginer before use on works).	Special		1 No. [Each]	

Contractor

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No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
48	4.00 Nos. [Four numbers only]	Supply and fixing in position of best Indian make white / colour glazed earthenware lipped mouth flat back urinal of best quality and approved make of size 430mm x 260mm x 350mm with GI pipe, 32mm dia bell mouth PVC connection and waste pipe, 15mm dia GI pipe of required length, 15mm dia GM wheel valve, 15mm dia brass nipple 2 Nos., and fixing the urinals in position with necessary TW plugs, clamps, screws, etc., including dismantling masnory and re-doing the same to the original condition, etc., including painting the pipe with two coats of best quality approved synthetic enamel paint over one coat of red oxide primer and checked without any leakage etc. complete complying with standard specifications and as directed by the departmental officers. (The urinal should be got approved by the Executive Engineer before use on works.)	Special		1 No. [Each]	
49	6.00 Nos. [Six numbers only]	Supplying and fixing position PVC NAHANI TRAP / Floor Trap of 100 x 75 mm sizes with best PVC gratings of approved brand and quality, fixed over a bed of brick jelly lime concrete 1:2:5 (One part of lime, two part of cs sand and five part of 40mm gauge brick jelly) and finished with Cement Mortar 1:3 (One Cement, Three sand) including dismantling masonry works wherever found necessary and making good the dismantled portions to the original condition and giving connection to the CI / PVC pipes, etc., complete complying with standard specification. (The Nahani Trap should be got approved by the Executive Engineer before use on works)	Special		1 No. [Each]	
50		Supplying and fixing in position best quality PVC SOIL / WASTE PIPES of various dia having 6 kg / sq.cm. pressure BIS mark and providing leak proof joints using PVC adhesives including fixing to the wall with special PVC / MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry.	Special			

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
	contd...	RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications. [The PVC pipes should be got approved by the Executive Engineer before use on works]. The rate for earth work excavation will be measured and paid separately in the cases where the pipe lines are proposed to laid below ground level.				
a]	16.00 Rm [Sixteen running metres only]	75 mm dia PVC Pipe			1 Rm. [One Running metre]	
b]	84.00 Rm [Eighty four running metres only]	110 mm dia PVC Pipe			1 Rm. [One Running metre]	
51		Supplying and fixing in position P.V.C Specials as for following of various sizes of best approved quality confriming to I.S.S. and providing leak proof joints including fixing to walls and giving connection to the P.V.C. soil stacks, with necessary dismantling the brick masonry / RCC floor or roof slab and redoing the distrubed portions to original condition etc,. complete complying with standrad specification as directed by the departmental officers.	Special			
a]	3.00 Nos. [Three numbers only]	110 dia PVC Plain Elbow			1 No. [Each]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
b]	3.00 Nos. [Three numbers only]	110mm dia PVC Plain Bend			1 No. [Each]	
c]	6.00 Nos. [Six numbers only]	110mm dia PVC Door Elbow			1 No. [Each]	
d]	2.00 Nos. [Two numbers only]	75mm dia PVC Plain Elbow			1 No. [Each]	
e]	2.00 Nos. [Two numbers only]	75mm dia PVC Plain Bend			1 No. [Each]	
f]	2.00 Nos. [Two numbers only]	75mm dia PVC Door Elbow			1 No. [Each]	
52	4.00 Nos [Four numbers only]	Supplying and fixing in position INDIAN MAKE BEVELLED EDGE MIRROR of approved quality and brand PVC/ Fibre Glass framed 600 x 450 x 5.5mm thick mirror, shelf type with hard board backing of approved colour fixed with brass screws, rawl plug, etc., complete complying with standard specification. (The mirror should be got approved by the Executive Engineer before use on woks)	Special		1No [Each]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
53	4.00 Nos [Four numbers only]	Supplying and fixing best approved best quality brass CP SOAP TRAY of size 150 x 100mm including cost of teak wood plugs, brass screws, etc., complete complying with standard specifications. (The soap tray should be got approved by Executive Engineer before use on works).	Special		1No [Each]	
54	4.00 Nos [Four numbers only]	Supplying and fixing approved best quality CP Towel Rail 600mm long and 20mm dia with brackets of same materials including cost of teak wood plugs and CP screws, etc., complete complying with standard specifications. (The tower rail should be got approved by Executive Engineer before use on works).	Special		1No [Each]	
55	1.00 No. [One number only]	Supplying and erecting of 1 H.P. ISI make single phase slow speed selfpriming MONOBLOCK PUMPSET single phase electro motor having I.S.I. mark with suitable base plate with necessary accessories with conforming to I.S.I. Specification with A.C. 200 / 220 Volts 50 Cycles, 2880 RPM Single phase Monoblock Pumpset with Suction delivery of size 1" X 1" having ISI mark single phase Starter with Switch and wooden switchboard,pilot lamp, 1" dia G.M.Gate Valve, 3 / 20 Copper wire to a length of 6m including supplying of G.I. Pipe 'B' class for suction delivery, Foot Valve etc., complete and as directed by the departmental officers as per standard specification.	Special		1 No. [Each]	
56	1.00 No [One number only]	Supplying and fixing of PVC ready made WATER TANK of 1000 Litre capacity of best and approved quality with ISI specification and having inlet,outlet, overflow and clearing pipe arrangements and labour charges for fixing in position with all necessary accessories and transporting at site of work etc., complete complying as directed by the departmental officers.	Special		1 No. [Each]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
57		Construction of INSPECTION CHAMBER of following clear sizes including earth work excavation, CC 1:5:10 of 10 cm thick and brick work in Cement Mortar 1:5 [One cement and Five M-Sand] using best quality of second class Fly Ash Bricks of size 9" x 4 3/8" x 2 3/4" with Plastering with Cement Mortar 1:3 [One Cement and Three M-Sand] 12 mm thick to inner and outer sides and wearing coat 1:3:6 [One Cement, Three M-Sand and Six Aggregate] 15 cm thick and covered with precast slab 5 cm thick etc., complete complying as directed by the departmental officers as per standard specification.	Special			
a]	9.00 Nos. [Nine numbers only]	0.60m X 0.60m			1 No. [Each]	
58	983.00 Sq.m [Nine hundred and eighty three square metres only]	Providing ANTI-TERMITE treatment to soil adjacent under building foundation, plinth periphery of the building by application of chemicals of ISI 6313-1981 part I to IV in stages to suit the progress of work as per the detailed specification (Measurements taken for the plinth area for the purpose of payment) including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc., complete complying with the standard specification and as directed by the departmental officers.	Special		1 Sq.m. [One square metre]	

Contractor

No of Correction:-
No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1

1	2	3	4	5	6	7
	contd...	Stage.I. spraying anti- termite treatement chemicals solution for foundation concrete surface laying the foundation concrete bottom and sides of the foundation. Stage.II. Spraying anti-termite chemical solution to the grade beam level, spraying for the grade beams, brick, masonry in superstructure in contact with the back fill earth. Stage.III. Spraying anti-termite treatment, chemicals solution on sand for the flooring before laying the flooring zone, Treatment has tobe carried out by making crow bar holes at an interval of 12" to a depth of 8" on the sand filling in basement and after levelling operation is over. Stage.IV. Spraying anti-termite treatment chemicals solution around the building (out side) by making crow bar holes at an interval of 12" to a depth of 8" in the periphery of building and chemical poured inside the holes and closed after the treatement.				
Basic Value						
Add GST @12%						
Grand Total						
Total No of Items in the Schedule 58 (FIFTY EIGHT Items Only)						

Contractor

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No of Over Writtings:-

Sd/-----
Superintending Engineer,PWD
Buildings [C and M] Circle,
Coimbatore-1