

TENDER SCHEDULE**AVALPOONDURAI TOWN PANCHAYAT****Name of work: Construction of a toilet at Ward.No:4,Solipalayam Harijana Colony in Avalpoondurai Town Panchayat.****Estimate Amount Rs.15,00,000/-**

SL. NO.	Quantity In Figures and Words		DESCRIPTION OF WORK	TNDSS NO& MORTH Specifications No	Rate In Rupees		Unit in figure and words	Amount in Rupees
					Figure in Rupees	Words in Rupees		
1	2		3	4	5	6	7	8
1			Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murram, gravel,stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand,or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering and baling out water and cleaning and levelling the site etc.,complete Earthwork Excavation				1M ³ (One Cubic Metre)	
a	30.40	M3	Footing					
b	31.00	M3	Plinth					
2	4.60	M3	Supplying and filling in foundation and basement with Crushed Stone Sand (M-Sand) in layers of not more than 15cm thick well rammed watered and compacted etc., complete complying with standard specification.- M Sand filling				1M ³ (One Cubic Metre)	
3	9.50	M3	Plain Cement Concrete 1:4:8 (one cement four fine aggregates and eight coarse aggregates) using 40mm size ISS HBG metal including cost and conveyance of all materials to site and including for the mixing, laying and labour charges and all incidental charges such as water providing etc., complete as per standard specification				1M ³ (One Cubic Metre)	

4	49.30	M2	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, 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) - Centering 1				1M ² (One Square Metre)	
5			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) - Centering 2	TNDSS No.30 & 86			1M ² (One Square Metre)	
a	56.20	M2	For plane surfaces such as slab, beam, etc.					
b	35.60	M2	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.					

6			Reinforced Cement Concrete 1:1½:3 Mix (One part cement, one and half part sand and three part of aggregate)using 20mm size ISS HBG metal machine crushed from approved quarry including cost and conveyance of all materials to site, loading and unloading charges and labour charges for mixing, laying and curing but excluding cost of reinforcement etc. Complete with std. Specifications.				1M ³ (One Cubic Metre)	
a	2.95	M3	Basement					
b	9.10	M3	Ground floor					
7	2000.00	Kg	Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors.				1 Kg (One Kilo Grame)	
8			Brick work in CM 1:5 (one cement & five sand) using II class ground moulded bricks of size 8'3/4"X43/8"X 2 3/4" including finishing, curing, etc., complete complying with standard specification.-				1M ³ (One Cubic Metre)	
	8.60	M3	Basement					
	25.10	M3	Ground floor					
9	2.00	M3	Honeycomb brick work in cm 1:5 mix, using best country bricks including cost and conveyance of all materials to site and all other labour charges etc., Complete as per std Specifications.				1M ³ (One Cubic Metre)	
10	14.80	M3	Supplying and filling in foundation and basement with Good earth in layers of not more than 15cm thick well rammed watered and compacted etc., complete complying with standard specification.- Basement filling				1M ³ (One Cubic Metre)	
11	362.30	M2	Plastering with cement mortar (1:5) 12mm ,thick in all floors including cost and conveyance of all materilas to site and labour charges etc,complete as per standard specifications (S.I.306)				1M ² (One Square Metre)	
12	54.50	M2	Plastering with cement mortar (1:3) 10mm thick in all floors including cost and conveyance of all materials to site and labour charges etc, complete complying with standard specifications (S.I.309				1M ² (One Square Metre)	
13	1.00	Nos	Supplying and fixing of Man hole cover				1 No (One Number)	

14	49.10	M2	White washing two coats with freshly burnt shell lime white in colour in all floors including cost of lime and other materials brushes scaffolding charges etc.complete complying with standard specification and as directed.				1M ² (One Square Metre)	
15	302.40	M2	Painting the new walls two coats over one coat of priming with best Emulsion paint of approved colour and quality including preparation of surface and finishing neatly etc., complete complying with standard specification and as directed by the department officers etc., complete complying with standard specifications.				1M ² (One Square Metre)	
16	12.60	M2	Painting two coats new iron work for doors, windows and ventilators using iron bars, window grills weld mesh screen in opt courtyard etc., with two coat synthetic enamel paint and approved quality and color including priming coat in all floors. The rate is inclusive of cost of all materials, labour brushes and scaffolding charges etc., complete complying with standard specifications.				1M ² (One Square Metre)	
17	78.60	M2	Paving the floor with design antiskid ceramic tiles (colour and shade as directed) of size 305mm x 305 mm x 6mm in all floor aver a base layer of cement mortar 1:3 (one cement and three sand) 20 mm thick laid in situ and pointed with same coloured cement.				1M ² (One Square Metre)	
18	7.08	M3	Weathering course concrete with broken brick jelly of 20 mm gauge in pure slacked lime (no sand to be added) over roof slab the proportion of brick jelly to lime being 32 to 12.5 by volume and laid over In a single layer and consolidated require designed and finished thickness by beating the concrete with wooden beaters of approved pattern , keeping the surface constantly welded springing lime jiggery water asper standard specification and as directed by the departmental officers.				1M ³ (One Cubic Metre)	

19	59.10	M2	Finishing the top of roof with one course of machine pressed tiles of size 20 x 20 x 2 cm laid in cement mortar (One of cement and three of sand) mixing with water proofing compound conferment ISS at 2% weight of cement used and pointed with same waterproofing compound mixed with red oxide etc., complete with standard specification				1M ² (One Square Metre)	
20	21.30	M2	Finishing the top of floor with Granolithic Finish with CC 1: 2: 4 (one cement, two sand & four HBG jelly) using chips of grade 10 mm and below for 25mm thickness and rubbed smooth etc, complete as per standard specification				1M ² (One Square Metre)	
21	95.30	M2	Dadoing walls with Glazed tiles of sizes 305mm X200mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.				1M ² (One Square Metre)	
22	12.60	M2	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 paneling 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 rebate for housing the shutter and should have provision to fix AL drops, tower bolt hinges and lock plates inclusive of cost of all materials etc. complete complying with thew standard specifications.				1M ² (One Square Metre)	

23	2.78	M2	Providing and fixing louvered ventilator fabricated from roll formed sections made of galvanized steel colour coated or reported they still as per IS 513 D quality galvanized as per IS 277 with the zinc of 120 grams per sqm) with the total coated thickness of Paint specification: court at sections should be with primer court of epoxy primer of 5-7 microns thick, Finish painted with polyester paint of 12 - 16 microns thick, Dimensions of the sections: the section for external frame should be 57 mm x 33 mm Fixing details: the section should be cut to length joint with profile to profile component Accessories: glass holding planes made of glass filled nylon Glass: louveres to be provided with 4 mm pin headed glass Grill: ventilator should be provided with grill made of 10 mm square MS bar to 12 mm x 5mm flat at 4 inch intervals. Total grill unit should be powder coated and fix it to ventilator frame with screws. The frames should be fixed to brick or concrete / Masonry walls and floor by means of self expanding screws				1M ² (One Square Metre)	
24	100.00	Kg	Supplying and fixing of M.S.Grill Gate of approved design using necessary mild steel flats for inner and outer members which should be fixed to Gate frames inclusive of priming coat of best approved quality red oxide primer etc., complete complying with standard specifications.				1 Kg (One Kilo Grame)	
			PLUMBING WORKS					
25			Supplying and fixing in position best approved of BIS quality PVC Waste water pipes having a pressure of 6 kg. / sq.cm including cost of special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 6.0 meter pipe length, etc., complete complying with standard specification.				1RM (One Running Metre)	
	40.00	RM	110mm dia pipe					
	40.00	RM	90mm dia pipe					

26	1.00	No	Supply and delivery and fixing of HDPE tank as per IS 12701 / 1996 including loading,unloading, transportation and labour charges for fixing of the GI pipes and specials for pipe connection works including cutting, threading and fixing charges etc.,				1No (One Number)	
27			Supplying and fixing in position first quality and approved variety of Gun metal Gate Valve / Wheel Valve with BIS make of the following 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.				1No (One Number)	
	2.00	No	25mm Gun metal Gate Valve					
	2.00	No	32mm Gun metal Gate Valve					

28			Supplying and fixing in position 15mm dia brass CP screw down tap / Pillar tap (heavy duty) 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)				1No (One Number)	
	6.00	No	SD Tap					
	6.00	No	Pillar Tap					
29			Supplying, laying and jointing PVC pipes (having working pressure 10 kg. / sq.cm) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing PVC 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, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.				1RM (One Running Metre)	
	60.00	RM	25mm dia					
	30.00	RM	32mm dia					

30			Supplying, laying and jointing PVC pipes (having working pressure 10 kg. / sq.cm) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing PVC 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 up to 4 meter height above ground level, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.				1RM (One Running Metre)	
	20.00	RM	32mm dia					

31			Supplying PVC Specials (with working pressure 10 kg. / sq.cm.) in water supply arrangements (both in internal and external water supply arrangements)					
			Coupler				1No (One Number)	
	8.00	No	25 mm Dia					
	8.00	No	32 mm Dia					
			Elbow				1No (One Number)	
	8.00	No	25 mm Dia					
	8.00	No	32 mm Dia					
			BEND				1No (One Number)	
	8.00	No	25 mm Dia					
	8.00	No	32 mm Dia					
			Tee				1No (One Number)	
	8.00	No	25 mm Dia					
	8.00	No	32 mm Dia					
			End Cap				1No (One Number)	
	8.00	No	25 mm Dia					
	8.00	No	32 mm Dia					
			Reducer				1No (One Number)	
	2.00	No	20 mm x 15 mm					
	8.00	No	25 mm x 20 mm					
			Reducer Tee				1No (One Number)	
	2.00	No	20 mm x 15 mm					
	2.00	No	25 mm x 20 mm					
	2.00	No	32 mm x 25 mm					

			Reducer Elbow				1No (One Number)	
	2.00	No	20 mm x 15 mm					
	2.00	No	25 mm x 20 mm					
			Jet Nipple				1No (One Number)	
	2.00	No	25 mm Dia					
	2.00	No	32 mm Dia					
32			Supplying and fixing in position PVC specials of the following dia and types of approved quality confirming to BIS and providing leak proof joints including fixing to the walls and giving connection to the PVC soil stacks, dismantling the masonry or RCC works and re-doing the dismantled portion to original condition etc., complete complying with standard specifications. (The PVC specials should be got approved by the Executive Engineer before use on works).					
			PVC Elbow				1No (One Number)	
	8.00	No	110mm dia					
	2.00	No	75mm dia					
			PVC Elbow with Door				1No (One Number)	
	8.00	No	110mm dia					
	2.00	No	75mm dia					
			PVC Tee				1No (One Number)	
	8.00	No	110mm dia					
	2.00	No	75mm dia					
			PVC Tee with Single Door				1No (One Number)	
	2.00	No	110mm dia					
	2.00	No	75mm dia					
			PVC "Y" with Single Door				1No (One Number)	
	2.00	No	110mm dia					
	2.00	No	90mm dia					

33	4.00	No	Supplying and fixing in position best quality and approved make Indian made white / colour glazed earthenware wash hand basin of size 550 x 400mm (with 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).				1No (One Number)	
34	10.00	No	Supplying and fixing in position C.P. Towel rail 600mm long and 20mm dia with brackets of same materials including cost of teak wood plug and C.P. Screws etc. complete complying with standard specification.				1No (One Number)	
35	10.00	No	Supplying and fixing in position C.P. Soap tray of size 150 x 150mm including cost of teak wood plug and C.P. screws. etc. complete complying with standard specification.				1No (One Number)	
36	4.00	No	Supplying and fixing in position Indian make bewelled edge mirror of size 600 x 450mm quality including cost of Rawal plugs, brass screws. etc. complying with standard specification.				1No (One Number)	

37	8.00	No	Supplying and fixing in position Indian Water Closet (Oriya type) of size 580 x 440mm White/Color glazed earthen ware of approved quality and brand with "P" or "S" trap conforming to BIS with Sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two Sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to CI soil pipes (including the cost of 100mm dia CI 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).				1No (One Number)	
38	2.00	No	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 100mm dia / PVC pipe of 110mm 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 liters capacity PVC / 12.5 liters 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.				1No (One Number)	

39	4.00	No	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 masonry 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.)				1No (One Number)	
40	10.00	No	Supplying and fixing position CI Nahani Trap / Floor Trap of the following sizes with best stainless steel 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 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)				1No (One Number)	
41	20.00	RM	Providing & fixing PVC RAIN WATER DOWNFALL PIPE of the following dia with necessary T.W.Clamps Plugs, Shoes,Bemds, other clamps, screws nails etc.,complete complying with standard specification. The rate is inclusive of cost of removable iron gratings of appropriate size. The size of Teak Wood plugs used is 150X25mm in front & 200x75mm in rear (wall side) with a depth of 110mm. The pipe is to be fixed by means of "U" clamps at the centre of pipes to be fixed.110mm dia PVC Pipe [4 Kg/SqCm]				1RM (One Running Metre)	
			ELECTRICAL WORKS					

42	1.00	No	Earthling as per ISI Specification with an earth electrode of 2.1mt class 'B' GI pipe of dia not less than 40mm and with 20mm dia copper earth flat of size 125mm x50mmx6mm, with funneling arrangement using charcoal, common salt, G.I.reducer, check nuts etc., and masonry work and providing RCC cover slab 38mm thick for the Brick masonry including cost of steel and fabrication of reinforcement etc., complete in all respects as directed by the departmental officers. (SD 233)				1No (One Number)	
43	20.00	RM	Supplying and run off 8 SWG copper wire on walls or below ground level with necessary 'U' nails, earth work excavation and refilling & including the cost of all materials etc., complete in all respects as directed by the departmental officers.(SD 75)				1RM (One Running Metre)	
44	30.00	RM	Supply and run off 2 of 2.50sqm PVC insulated single core unsheathed copper conductor cable of 1100 V grade with ISI mark confirming to IS:694/1990 with continuous earth connection by means of 1.50 sqm PVC insulated single core unsheathed copper conductor cable confirming to IS:694/1990 in suitable PVC rigid pipe 1.8mm thick concealed in wall for mains including the cost of PVC pipes and specials, cables, cement, brass screws, T.W plugs, saddles and labour etc., complete in all respects as directed by the departmental officers. (derived from SD 55)				1RM (One Running Metre)	
45	30.00	RM	Supply and run off 2 of 1.5 sqmm PVC insulated single core unsheathed copper conductor cable of 1100 V grade with ISI mark confirming to IS:694/1990 with continuous earth connection by means of 1.50 sqm PVC insulated single core unsheathed copper conductor cable confirming to IS:694/1990 in suitable PVC rigid pipe 1.8mm thick concealed in wall for mains including the cost of PVC pipes and specials, cables, cement, brass screws, T.W plugs, saddles and labour etc., complete in all respects as directed by the departmental officers. (derived from SD 54)				1RM (One Running Metre)	

46	1.00	No	Supply and fixing of TNEB meter Board suitable for 32 A Three phase service connection with 32A fuse unit(500V)32A neutral link and earth link (1" x 1/8" Copper flat) on T.W plank of size 600mm x450mm x 19mm with supportingT.W.reepers of 1" thick oneither sider with painting withsuitable bolt and nuts for fixingthe TW plank on wall withearth connection and interconnection with 7/20 PVCinsulated copper wire from EBmeter to fuse unit. SD 127)				1No (One Number)	
47	30.00	Rm	Supply and run of 4 core 16 Sq.mm PVC Armoured cable of 1100 V grade with ISI mark.(Part E r) V				1RM (One Running Metre)	
48	30.00	Rm	Supply and run of 4 core 10 Sq.mm PVC Armoured cable of 1100 V grade with ISI mark.(Part E c) V				RM (One Running Metre)	
49	11.00	No	Wiring with 2 x 1.5 sqmm (22 /0.3) PVC insulated single core unsheathed copper conductor cable of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories inflush with wall with 3mm thick hylum sheet cover with TW switch box and 5A F.T. switch with continuous earth wire connection of 14 SWG TC wire for making good of the concealed portion with suitable colour for PVC concealed light point / Fan point (For Electronic regulator). SD 23				1No (One Number)	

50	11.00	No	Wiring with 2 x 1.5 sqmm (22 /0.3) PVC insulated single core unsheathed copper conductor cable of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories in flush with wall with 150 x 100 x 113 mm TW switch box with 3mm hylum sheet cover for 5A 3 pin non inter locking CS plug with continuous earth wire connection of 14 SWG TC wire and making good of the concealed portion with suitable colour for concealed PVC plug point. SD 38				1No (One Number)	
51	11.00	No	18 W LED Tubelight for T8 Fitting Single side (15- e)				1No (One Number)	
52	4.00	No	Supplying and fixing 12" (30cm dia) light duty Exhaust fan including cost of all materials,labour, lead, lift, etc complete				1No (One Number)	