

**ESTIMATE FOR CONSTRUCTION OF PUBLIC TOILET (PT) AT~ NEW MUNICIPALITY PUBLIC BUS STAND, IN
WARD NO.-3, UNDER RAIGANJ MUNICIPALITY.
TOILET SEAT 12 NOS, URINAL 18 NOS
MODLE NO.- D**

SL. NO	Item Description & Item No.	Nos	L	B	H	Qty	Total Quantity	Rate	Unit	Ammount
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. (a) Depth of excavation not exceeding 1,500 mm. PWD Building Works schedule Page - 1, Item -2.a									
	Column	18	1.200	1.200	1.000	25.920				
	Ramp	2	2.500	0.375	0.150	0.281				
	Partition wall	1	1.000	0.375	0.150	0.056				
	Boundary wall	2	18.500	0.500	0.375	6.938				
		1	10.500	0.500	0.375	1.969	35.164	11927.00	%Cu.m	4194.01
2	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work).(a) With earth from excavation of foundation. PWD Building PWD Building Works schedule, Page - 1, Item -3.a $\frac{1}{3} \times 35.164 = 11.72 \text{ m}^3$						11.720	7754.00	%Cum	908.77
3	(A) Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity) PWD Building Works schedule, Page - 2, Item -4.a									
		1	12.500	7.400	0.325	30.063	30.063	48741.00	%Cu.m	14653.01
4	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand. PWD Building Works schedule, Page- 14, Item - 1 (Corri. Page-01, Date-04-06-2018)									
		18	1.200	1.200		25.92				
		2	2.500	0.375		1.88				
		1	1.000	0.375		0.38				
		2	18.500	0.500		18.50				
		1	10.500	0.500		5.25				
		2	1.500	1.000		3.000				
		1	12.500	7.400		92.5	147.420	324.00	Sqm	47764.08
5	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. a) Pakur Variety /Chandil Variety PWD Building Works schedule, p-26 Item 10 a (Rate Annlysis) $6 \times 3 \times 1.20 \times 1.20 \times 0.150 = 3.888 \text{ m}^3$ $6 \times 3 \times (1.20 \times 1.20) + (0.250 \times 0.250) / 2 \times 0.150 = 2.028 \text{ m}^3$ $6 \times 3 \times 0.250 \times 0.250 \times 3.90 = 4.387 \text{ m}^3$ $6 \times 2 \times 3.325 \times 0.250 \times 0.250 = 2.494 \text{ m}^3$ $5 \times 3 \times 2.25 \times 0.250 \times 0.250 = 2.026 \text{ m}^3$ $6 \times 2 \times 3.325 \times 0.250 \times 0.150 = 2.993 \text{ m}^3$ $5 \times 3 \times 2.25 \times 0.250 \times 0.150 = 1.266 \text{ m}^3$ $1 \times 12.50 \times 7.40 \times 0.125 = 9.250 \text{ m}^3$									
		18	1.200	1.200	0.150	3.888				
	$6 \times 3 \times (1.20 \times 1.20) + (0.250 \times 0.250) / 2 \times 0.150 = 2.028 \text{ m}^3$					2.028				
		18	0.250	0.250	3.000	3.375				
		12	3.325	0.250	0.250	2.494				
		15	2.250	0.250	0.250	2.109				
		12	3.325	0.250	0.150	1.496				
		15	2.250	0.250	0.150	1.266				
		1	12.500	7.400	0.125	11.563	28.219	5868.25	Cu.m	165596.15
6	Cement concrete with graded jhama khoa (30 mm size) excluding shuttering In ground floor and foundation. (a) 1:3:6 proportion. PWD Building Works schedule, Page -23, Item -B.1.a, (Corri. Page- 09, Date-04-06-2018) Rate Analysis I (Corri. Page-01, Date-04-06-2018) Area of SBFS , Item no 4 . $147.42 \times 0.100 = 14.742$									
							14.742	4242.83	m3	62547.80

	(A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : Page - 200 . Item no- 1 (b) (a) On timber or plastered surface : With super gloss (hi-gloss) - (iv) Two coats (with any shade except white)											
34	PWD Building Works schedule, Page -200 . Item no- 2(A)(a)(iv)					6.35	81.00	Sqm	514.35			
35	(a) M.S or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.. (i) Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr. PWD Building Works schedule, P-104 Item-13 A (i) (3rd Corrigendam Page No 91) 2 x 2.00 x 0.750 = 3.00 m2 12 x 0.600 x 0.600 = 4.32 m2 = 7.32 m2 x 10.00 kg = 73.20 kg = 0.731 qtl					0.732	10021.00	Qntl	7335.37			
36	a) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. PWD Building Works schedule, P/200 Item-1(a) 2 x 2.00 x 0.750 = 3.00 m2 12 x 0.600 x 0.600 = 4.32 m2					7.32	29.00	Sqm	212.28			
37	(A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : (b) On steel or other metal surface : (iv) Two coats (with any shade except white) PWD Building Works schedule, P-200 Item-2(b)(iv) 2 x 2.00 x 0.750 = 3.00 m2 12 x 0.600 x 0.600 = 4.32 m2											
		12	0.600	0.600		4.32						
		2	2.000	0.750		3.00	7.320	79.00	Sqm	578.28		
38	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring Pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contrr]e) I (I) With application slurry @1.75 kg/ Sq.m, 20 mm sand cement mortar (1:4) & 2 mm thick cement slurry at back side of tiles, 0.2 kg/ Sq.m white cement for joint filling with pigment. (A) Deep Colour & White PWD Building Works schedule, Page-66 Item-36 (A) (3rd Floor 12.50 x 7.40 = 92.50 m2					92.50	1695.00	Sqm	156232.50		156787.50	
39	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. B) Wall b) Area of each tile above 0.09 Sq.m ii) Other than Coloured decorative including white PWD Building Works schedule, page-64, Item:35.(B.) (b) (ii) (3rd Corrigendam ,Page 36)	2	12.500	2.100		52.50						
		2	7.400	2.100		31.08						
		24	1.600	2.100		80.64	1041.00				244405.28	
		28	1.200	2.100		70.56	234.780	1695.00	Sqm	397952.10		
40	Supplying Fitting and Fixing Black Stone slab used in kitchen slab, alcove wardrobe etc. laid and joined with adhesive cement mortar (1:2) including grinding or polishing as per direction of EIC in Ground Floor (a) Slab thickness 20 - 25 mm PWD S&P Schedule, page-53, item no -17 (a) 2 x7.60 x 0.750 = 11.40 m2					11.20	643.00	642.00	m2	7201.60	7190.40	

	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia., (iii) 600 mm long PWD S&P Schedule, Page No.-43 Item No.-9-iii						10.00	107.00	Each	1070.00
60	Supplying, fitting and fixing approved brand 32 mm dia. P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps. (iv) 1050 mm long each PWD S&P Schedule, Page No.-43 Item No. 10-iv						8.00	91.00	Each	728.00
61	(f) Hand Shower (Health Faucet) with 1mtr Flexible Tube with Wall Hook (Equivalent to Code No. 573 & Model - ALLIED of Jaquar or similar). PWD S&P Schedule, Page No.-3 Item No.- 3 f,						8.00	1251.00	Each	10008.00
62	(a) (i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand). PWD S&P Schedule, Page No.-6 Item No.-7-a-i						15.00	539.00	Each	8085.00
63	(b) (i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar) PWD S&P Schedule, Page No.-6 Item No.-7-b-i						15.00	493.00	Each	7395.00
64	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand). PWD S&P Schedule, Page No.-6 Item No.-7-d-i,						10.00	815.00	Each	6520.00 8150.00
65	Supplying, fitting and fixing pillar cock of approved make. a) (i) CP Pillar Cock - 15 mm. (Equivalent to Code No. 507 & Model - Tropical / Sumthing Special of ESSCO or similar brand). P. No. - 45, Item. No. - 19(a), (PWD Sanitary Plumbing Schedule 2017)						10.00	555.00	Each	4440.00 5550.00
66	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made separately) (a) For Exposed Work PVC Pipes, 25 mm Page No.-12 Item No.-19-i(a), PWD, VOL-II, 2017-18						50.00	177.00	Mtr	7965.00 8850.00
67	(a) (a) For Exposed Work PVC Pipes, 15 mm Page No.-12 Item No.-19-i(a), PWD, VOL-II, 2017-18						20.00	101.00	Mtr	2020.00
68	(b) For Concealed Work PVC Pipes, 15 mm Page No.-12 Item No.-19-i(b), PWD, VOL-II, 2017-18						20.00	137.00	Mtr	2740.00
69	Supplying and fitting fixing of gunmetal wheel valve of approved brand and make tested to 21 Kg per sq. cm. 25 mm dia (E5) PWD S&P Schedule, P-5 It-5,vii),						4.00	778.00	Each	3112.00
70	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer (b) 1000 litre capacity PWD S&P Schedule, page.37, item no-6 (b)						2.00	5128.00	Each	10256.00
71	Labour for hoisting plastic water storage tank. (i) Upto 1500 litre capacity. (a) Upto 1st story from G.L. PWD S&P Schedule, page.37, item no-10 (i)(a)						2.00	96.00	Each	192.00
72	Labour for punching hole in plastic water storage tank upto 50 mm dia. PWD S&P Schedule, (P. No. - 38, Item. No. - 13)						4.00	19.00	Each	76.00
73	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992.(A) (i) Single Socketed 3 Meter Length, (b) 110 mm PWD S&P Schedule, Page No.-68 Item No. 23,(A)(i)(b)						50.00	292.00	Mtr	14600.00
74	(B) Fittings (i) Coupler, (b) 110 mm						16.00	85.00	Each	1360.00
75	(ii) Plain Tee, (b) 110 mm						20.00	85.00	Each	1700.00
76	(iii) Door Tee, (b) 110 mm						10.00	195.00	Each	1950.00

17	ix) Bend 45°, (b) 110 mm					10.00	89.00	Each	890.00
78	xi) Door Bend (T.S.), (b) 110 mm					7.00	147.00	Each	1029.00
79	xvi) Pipe Clip, (b) 110 mm					30.00	21.00	Each	630.00
80	xvii) W.C. Connector (150 mm long) 125 X 110(W/WC Ring) 75 mm								
81	xxxi) Plain Floor Trap with Top tile & Strainer 75 mm					10.00	142.00	Each	1420.00
82	L) Rubber Ring, (b) 110 mm					14.00	144.00	Each	2016.00
83	C) Rubber Lubricant 500 ML					30.00	17.00	Each	510.00
84	D) Solvent Cement 250 ML					1.00	187.00	500 ML	187.00
						1.00	103.00	250 ML	103.00
85	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in total pipeline including specials. (B) Under ground, (ii) 110 mm dia. PWD S&P Schedule, (P. - 74, Item. No. - 24 (B))					50.00	84.00	Mtr	4200.00
86	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. A) UPVC Pipes: (i) 75 mm. Dia. PWD S&P Schedule, (P. - 212, Item. No. - 21 (A)(i), (B),(c),(l) & (B), (d),(l), Pwd volume- I, 2017)					30.00	188.00	Mtr	5640.00
87	B) UPVC Fittings: c) Bend 87.5 degree (i) 75 mm. Dia.					6.00	84.00	Mtr	504.00
88	B) UPVC Fittings: d) Shoe (i) 75 mm. Dia.					2.00	78.00	Mtr	156.00
89	Constructing Inspection pit of inside measurement 600mm X 600mm X upto 600mm (depth) with 250 mm thick 1st class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100 mm thick cement concrete (1:3:6) with stone chips over a layer of jhama brick flat soling, 15 mm thick (1:4) cement plaster to inside walls and out-side walls upto G.L. and 20 mm thick (1:4) plaster to bottom of the pit, providing necessary invert with cement concrete (1:3:6) with stone chips as per direction, neat cement finishing to entire internal surfaces, top of the pit covered with 100 mm thick R.C.C. slab (1:1.5:3) with stone chips and necessary reinforcements upto 1% and shuttering including 6 mm thick cement plaster (1:4) in all external surfaces of the slab and one 560 mm dia. R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earthwork in excavation in all sorts of soil, filling sides of the pit with earth and removing spoils after work complete in all respect with all costs of labour and materials. (JSW/JSPL/SHYAM/SRMB/ELECTROSTEEL/SSL) PWD S&P Schedule, S.P.87, Item No-1(i), 7th Corrigenda Volume ii					9.00	7248.00	Each	65232.00
90	Construction of septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (1:4) including two 560 mm dia. R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the 100mm thick R.C.C. (1:1.5:3) top slab with necessary fittings, 20mm thick cement plaster (4:1) with neat cement finish to the internal surfaces and 15 mm thick cement plaster (4:1) to outside wall upto 200 mm below G.L. floor finished with 25 mm thick grey artificial stone over 100 mm thick R.C.C. (1:1.5:3) bottom slab including supplying, fitting and fixing all necessary specials, fittings, S.W. tees, C.I. foot rest etc. including excavation earth in all sorts of soil, shoring, bailing out and pumping out water as necessary, ramming, dressing the bed and refilling the sides of the tanks with earth, removing spoils, filling up the chamber with clear water, removing foreign materials from the chamber and including constructing attached inspection pit as per approved drawing and connecting all necessary pipes, joints etc. with internal plaster work and artificial stone flooring is to be done with admixture of water proofing compound @ 0.5% by weight of cement with all costs of labour and materials. (ii) For 50 users A) With Pakur variety, (JSW/JSPL/SHYAM/SRMB/ELECTROSTEEL/SSL) PWD S&P Schedule, S.P.88, Item No-3(ii)(A) 7th Corrigenda Volume ii					1.00	48162.00	Each	89678.00
91	Construction of circular soak well 2.5 metre deep in all types of sandy soils with dry brick work upto 1.6 metre from the bottom having 150 mm intermediate cement brick work (1:4) band all round and cement brick work (1:4) upto 0.90 metre from top with 20mm thick cement plastering (1:4) to inside face upto the depth of cement brick work, 15mm thick cement plaster (1:4) on outer face from top of the well upto G.L. and 6 mm thick cement plaster (1:4) on top of the R.C.C. cover slab including filling bottom 1.00 metre of inside of the well with brick metal (50 mm to 63 mm size) including R.C.C. cover slab of 100 mm thick with cement conc (1:1.5:3) with stone chips with necessary reinforcement and shuttering including one 560 mm dia. R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the cover slab with necessary fittings, making necessary arrangements for pipe connections, excavation of well including shoring, dewatering and removing the excess earth from the premises as per direction complete in all respect with all costs of labour and materials. With 250 mm thick dry brick work and 250 mm thick cement brick work (1:6) and 1.00m inside dia (Other than SAIL/TATA/RINL) S.P.89, Item No-4 7th Corrigenda Volume ii					1.00	16621.00	Each	16621.00

92	Supplying, fitting and fixing towel rail with two brackets. (a) C.P. over brass (ii) 25 mm dia. and 600 mm long S&P Schedule, Page No 82, Item No- 22 (a)(ii) PWD							16.00	430.00	Each	6880.00	
93	Supplying, fitting and fixing bevelled edged mirror 5.5 mm thick silver red as per I.S. 3438 / 1965 together with brass C.P. hinges. (ii) 600 mm X 450 mm PWD							6.00	484.00	Each	2904.00	
94	Supplying, fitting and fixing soap holder. (b) Fibre glass Sanitary and Plumbing work schedule P-82, It-18(b)							10.00	58.00	Each	580.00	
95	Supplying, fitting and fixing glass shelf with aluminium guard rails. (a) Ordinary type with 5.5 mm sheet glass (i) 450 mm X 125 mm Sanitary and Plumbing work schedule P-81, It-16(a)(i)							5.00	341.00	Each	1705.00	
											2327715.29	2160334.26
Add S.G.S.T. @										9%	209494.38	194435.55
Add C.G.S.T. @										9%	209494.38	194435.55
Cost Of Civil Work											2746704.04	2549266.0
Add Labour welfare cess @										1%	27467.04	25492.66
Total Amount Including Labour welfare cess											2774171.08	2574758.7
Add Contengency @3%											83225.13	76477.98
Total Amount Including L.W.C. and contengency											2857396.21	2651236.7
Say Rs.											2857396.00	2651237.0

A
02-05-25
Sub-Assistant Engineer
Raiganj Municipality
Uttar Dinajpur

1.00
21/05/25
Junior Engineer
Dinajpur Division
M.E. Directorate
Deptt. of U.D.M.A.
Govt. of West Bengal

MAY BE VETTED

[Signature]
21-05-2025
Assistant Engineer
Dinajpur Division
M. E. Directorate
Deptt. of U.D.M.A.
Govt. of West Bengal

[Signature]
Chairperson
Bord of Administrators
Raiganj Municipality

VETTED

[Signature]
21-05-25
Executive Engineer
Dinajpur Division
M.E. Directorate
Deptt. of U.D.M.A.
Govt. of West Bengal