

ABSTRACT ESTIMATE FOR CIVIL PORTION

NAME OF THE WORK :- CONSTRUCTION OF ROAD SIDE URINAL AT NEW HOWRAH BRIDGE APPROACH ON STRAND BANK ROAD, KOLKATA - 700001, W - 45, BR - V.

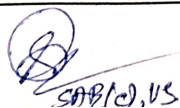
Item	Ref.	Item of Work	Qty.	Unit	Rate Rs. P.	Amount (in Rs.)
1	P.W.D. (Bldg) 2017 Page 1, Item No. 1	Earthwork in excavation of foundation trenches or drains in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing, spreading or stacking the spoils within a lead of 75m as directed. The item includes necessary trimming the sides of trenches levelling dressing and ramming the bottom bailing out water as required complete. Depth of excavation not exceeding 1500 mm.	3.44	% cum	11927.00	410.29
2	P.W.D. (Bldg) 2017 Page 1, Item No. 3(a)	Earthwork in filling in foundation trenches or plinth with good earth in layers not exceeding 150mm. Including watering andramming etc. layer by layer complete (Payment to be made on the basis of measurement of finished quantity of work). With earth obtained from excavation of foundation	0.69	%Cum	7754.00	53.50
3	P.W.D. (Bldg) 2017 Page 2 Item No. 4.A	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm. As directed and consolidating same by thorough saturation with water ramming complete including the cost of supply of sand. (Payment to be made on measurement of finished quantity)	1.69	%Cum	93621.00	1582.19
4	P.W.D. (Bldg) 2017 Page 10 Item No. 2	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75m. In ground floor including roof, upto 150mm Thick	2.63	Cum	939.00	2469.57
5	P.W.D. (Bldg) 2017 Page 21 Item No. 1	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable material at site and in ground floor including roof.	2.20	Cum	447.00	983.40
6	P.W.D. (Bldg) 2017 Page 14 Item No. 1	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand.	15.20	Sqm	358.00	5441.60
7	P.W.D. (Bldg) 2017 Page 23	Cement concrete with graded jharma khoa (30 mm. size) excluding shuttering in ground floor and foundation. a) 1:3:6 Proportion	3.00	Cum	4572.00	13716.00
8	P.W.D. (Bldg) 2017 Page 26, Item No.10 (i)	Ordinary Cement Concrete (mix 1:1.5:3) with graded stone chips (20mm nominal size) excluding shuttering and reinforcement, if any, in ground floor.as per relevant IS codes. Pakur Variety.	3.66	Cum	6047.00	22132.02
9	P.W.D. (Bldg) 2017 Page 42, Item No. 36(a)	Hire and Labour charges for shuttering with centering and necessary staging upto 4m using approved stout, props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns lintels, curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor). 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-in-charge.	41.87	Sqm	335.00	14026.45
10	P.W.D. (Bldg) 2017 Page 43, Item No. 40	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every inter section, complete as per drawing and direction. For works in foundation, basement and upto roof of ground floor/ upto 4.0m. Tor steel/Mild steel.	0.230	MT	57301.38	13179.32
11	P.W.D. (Bldg) 2017 Page 15,	Brick work with 1st class bricks in cement mortar (4:1) a) In foundation and plinth b) In Superstructure & ground floor.	1.47 0.19	Cum Cum	5575.00 5798.00	8195.25 1101.62
12	P.W.D. (Bldg) 2017 Page 17, Item No.14	125mm. Thick brick work with 1st class bricks in cement mortar (1:4) in ground floor	30.31	Sqm	724.00	21944.44

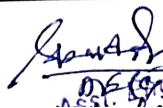
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Uttaran Services Department
K. M. C.

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K. M. C.

13	P.W.D. (Bldg) 2017 Page 47, Item No. 2	25mm. Thick damp proof course with cement concrete with stone chips (1:1.5:3) [with graded stone aggregate 10 mm nominal size] and admixture of water proofing compound as per manufacture's specification followed by two coat of polymer based paint, (1st coat after 4 to 5 days of concrete laying and 2nd coat just before brick masonry work) as directed (cost of water proofing compound & polymer based paint to be paid separately). (Chequering not required over concrete or painted surface.)	8.78	Sqm	186.00	1633.08
14	P.W.D. (Bldg) 2017 Page 47, Item No. 3	Supplying and laying polythene sheet (150gm/sqm.) over damp proof course or below flooring or roof terracing or in foundation trenches.	41.87	Sqm	24.00	1004.88
15	P.W.D. (Bldg) 2017 Page 64, Item No. 35	Supplying, fitting and fixing 1st quality ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10 mm) fixed with araldite at the back of each tile & finishing the joints with 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 With Sand Cement Mortar (1:3) 15mm thick & 2mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m.				
		(a) Area of each tile upto 0.09 Sq.m				
		Gents & Ladies Block	24.22	Sqm	1102.00	26690.44
		(i) Coloured decorative				
16	P.W.D. (Bldg) 2017 Page 104, Item No. 13	M.S. or W.I. Ornamental grill of approved design joints continuously welded with M.S. W.I. Flats and bars for windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. Grill weighting above 10Kg/sqm. and upto 16Kg/sqm.	0.16	Qntl.	7238.00	1158.08
17	P.W.D. (Bldg) 2017 Page 125, Item No. 14(ii)	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria..(i) 66mm x 90mm	4.80	M	497.00	13262.40
18	P.W.D. (Bldg) 2017 Page 115, Item No. 3(ii)	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. In ground floor.(i) 32 mm thick	1.80	Sqm	2763.00	93.60
19	P.W.D. (Bldg) 2017 Page 145, Item No. 29	Anodised aluminium butt hinges of approved quality manufactured from extruded section conforming to IS specification (I.S. 205/66) and fitted and fixed with cadmium plated screws: 75 x 45 x 2.5mm	6.00	each	52.00	312.00
20	P.W.D. (Bldg) 2017 Page 144, Item No. 26	Anodised aluminium barrel/tower/socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screws: 100mm long x 10mm dia bolt.	4.00	each	53.00	212.00
21	P.W.D. (Bldg) 2017 Page 143, Item No. 24	Iron door ring of approved quality fitted and fixed with nut and washer complete. 75mm dia.	4.00	each	28.00	112.00
22	P.W.D. (Bldg) 2017 Page-192, Item No. 1	Labour for Chipping of concrete surface before taking up Plastering work.	19.90	Sqm	21.00	417.90
23	P.W.D. (Bldg) 2017 Page-189, Item No. 1	Plaster (to wall, floor, ceiling etc) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including, throating nosing and drip course where necessary (ground floor)				
		a) 20 mm thk. Plaster (1:6 cement Mortar)	20.55	Sqm	167.00	3431.85
24		b) 15 mm thk. Plaster (1:4 cement mortar)	15.93	Sqm	161.00	2564.73
25		c) 10 mm thk. Plaster (1:4 cement mortar)	4.78	Sqm	129.00	616.62
26	Sanitary & Plumb. 2017 Page-65,	Supplying, fitting and fixing cast iron 'P' or 'S' trap conforming to IS 3989/1970 and 1729/1964 including lead caulked joints and painting two coats to the exposed surface. (Painting to be paid separately) P trap 100 mm	2.00	Each	948.00	1896.00


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Assistant Engineer (C)
Department


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27	P.W.D. (Bldg) 2017 Page - 200, Item No. 71(b)	Priming one coat on timber plastered surface with synthetic enamel/oil bound primer of approved quality including smoothening surfaces by sand papering etc.	20.71	Sqm	38.00	786.98
28	P.W.D. (Bldg) 2017 Page - 200, Item No. 1(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.	0.99	Sqm	29.00	28.71
29	P.W.D. (Bldg) 2017 Page-200, Item No.2(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.				
		a) On timber or plastered surface, with super gloss (hi-gloss) Two coats (with any shade except white).	20.71	Sqm	81.00	1677.51
		b) On steel or other metal surface with super gloss (hi-gloss) Two coats (with any shade except white).	0.99	Sqm	79.00	78.21
30						
31	Sanitary & Plumb.2010 Page-2, Item No.1.	Supplying, fitting and fixing G.I. Pipes TATA make 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.				
		For Exposed Work:				
		i) 15mm. Dia Medium quality				
		ii) 20mm. Dia Medium quality				
		iii) 25mm. Dia Medium quality	15.00	M	305.00	4575.00
		For Concealed Work:				
		i) 15mm. Dia Medium quality	5.00	M	238.00	1190.00
		iii) 25mm. Dia Medium quality	12.00	M	364.00	4368.00
32						
33						
34	Sanitary & Plumb.2017	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21Kg per sq. cm.				
		A) 25 mm. Dia	1.00	Each	778.00	778.00
		B) 15 mm. Dia	1.00	Each	438.00	438.00
35						
36	Sanitary & Plumb.2017 Page -4, Item	Supplying, fitting and fixing Peet's valve fullway gunmetal standard pattern best quality of approved brand bearing I.S.I. marking with fittings (tested to 21Kg per sq.cm.). 25mm. dia	1.00	Each	912.00	912.00
37	Sanitary & Plumb.2017 Page-6, Item	Supplying, fitting and fixing C.P. Bip cock/stop cock Chromium plated Stop Cock. [Equivalent to code No.513(A) & 513(B) & Model - Tropical/Sumthing Special of ESSCO or similar brand]	6.00	Each	493.00	2958.00
38	Sanitary & Plumb.2017 Page-37, Item No.5	Supplying plastic water storage tank of approved quality with closed top with lid (Black) - Multilayer.				
		b) 500 litre capacity	1.00	Each	2584.00	2584.00
39	Sanitary & Plumb.2017	Labour for hoisting plastic water storage tank upto 1500 litre capacity, upto 1st story from G.L.	1.00	Each	96.00	96.00
40	Sanitary & Plumb.2017 Page-38	Labour for punching hole in plastic water storage tank upto 50mm. Dia.	4.00	Each	19.00	76.00
41	Sanitary & Plumb.2017 Page-41, Item No. 2	Supplying, fitting and fixing white vitreous china best quality approved make wash Basin with C.I. Brackets on 75mm X 75mm X 75mm wooden blocks, C.P. waste fittings of 32mm dia, one approved quality brass C.P. pillar cock of 15mm dia, C.P. chain with rubber plug of 30mm dia, approved quality P.V.C. waste pipe with C.P. nut 32mm. dia, 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages and painting the				
		i) 450mm X 300mm size	2.00	Each	3260.00	6520.00
42	Sanitary & Plumb.2010 Page-80,	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make supplied, fitted and fixed in position with brass screws on 75mm X 75mm wooden blocks complete.				
		(i) 635 mm X 395 mm X 420 mm				
		(ii) 470 mm X 280 mm X 340 mm	2.00	Each	2869.00	5738.00
		(iii) Corner urinal 440 mm X 345 mm X 250 mm				
43	Sanitary & Plumb.2017 Page-80, Item-9	Supplying, fitting and fixing Foot rest for water closet of size 275mm X 125mm. With porcelain of approved make.	2.00	Each	214.00	428.00

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Executive Engineer (G)
Services Department
19/12/25

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K. M. C.

44	Sanitary & Plumb.2017 Page-81.	Supplying, fitting and fixing 18 mm thick marble partition slab with chawk doongri marbel square cut, both sides polished with two front corners rounded and edges polished.	0.45	Sqm	1426.00	641.70
45	P.W.D. (Bldg) 2017	Neat cement punning about 1.5mm. Thick in wall dado, window, sills, floors, drain etc.	4.00	Sqm	34.00	136.00
46	Sanitary & Plumb.2017 Page-64, Item No. 16	Supplying fitting and fixing with cement jointing (3:1) salt glazed stoneware pipe including excavation of earth upto 1.50m depth in all sorts of soil both mixed or unmixed and refilling(but excluding concreting at bottom and sides).				
		iv) 100 mm. Dia	12.00	M	294.00	3528.00
		iii) 150 mm. Dia	8.00	M	334.00	2672.00
47	Sanitary & Plumb.2017 Page-19	Supply of high density polythene pipe conforming to IS 4984-1985. A) 6Kg/sq.cm. (Working pressure) Dia 75mm	3.00	M	248.00	744.00
48	P.W.D. (PLUMBING) 2017 Page - 87, Item No. 1	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	1.00	Sqm	7149.00	7149.00
49	P.W.D. (Bldg) 2017 Page - 202,	Supplying, fitting and fixing in position C.I. manhole/ pit cover with rim. a) Round (i) 450 mm X 100 mm X 21 kg (approx.)	1.00	Sqm	3526.00	3526.00
50	P.W.D. (Bldg) 2017 Page 62. Item No. 31	Supplying, fitting & fixing granite tiles 10mm to 12mm. thick in columns, wall, facia etc. with 15 thick [avg] cement mortar (1:2) including making suitable arrangements to hold the stones properly by brass / copper hooks including pointing in cement mortar (1:2) (1 white cement : 2 marble dust) with admixture of pigment matching the stone shades all complete as per direction of the Engineer-in-charge including cost of all materials, labours, scaffolding, staging ,curing and roughening of concrete surface complete. [Using cement slurry at back side of tiles@ 4.4 kg/sq.m &white cement slurry for joint filling @ 1.8 kg/sq.m]	5.80	Sqm	1755.00	10179.00
51	P.W.D. (Bldg) 2017 Page 64. Item No. 35	Supplying, fitting and fixing 1st quality ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones(10 mm) fixed with araldite at the back of each til & finishing the joints with cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface,if necessary or by sybthetic adhesive & grout materials etc.				
		FLOOR				
		(b) Area of each tile above 0.09 Sq.m				
		Gents & Ladies Block				
		i) Coloured decorative	6.38	SQM	910.00	5805.80
Sub-Total cost of works(A)						226255.14
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Asst/Engineer (C)
Uttaran Services Department
K. M. C.

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Executive Engineer (Civil)
Uttaran Services Department
K. M. C.

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19/12/25
Dy. Chief Engineer (Civil)
Uttaran Services Department
K. M. C.

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D. G.
Uttaran Services Department
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