

CIVIL WORK
DETAILED ESTIMATE

Estimate No-KMC/US/...../ Of 202 -2

Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate	
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.								
			Footing	18	1.200	1.200	1.200	31.10		
			Below Tie Beam	8	3.058	0.375	0.250	2.29		
				2	3.929	0.375	0.250	0.74		
				3	26.765	0.375	0.250	7.53		
			Under Ground Reservoir	1	2.50	1.50	1.20	4.50		
		Total					46.16	% Cum	11927.00	
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								
			1/5 th of Excavated Earth					9.23	%Cum	7754.00
3	P.W.D. (Bldg) 2017,5th Corr.16.04.2019 Page 2, Item 1	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)								
				18	1.20	1.20	0.100	2.59		
				8	3.058	0.375	0.100	0.92		
				2	3.929	0.375	0.100	0.29		
				3	26.765	0.375	0.100	3.01		
				1	2.50	1.50	0.100	0.38		
				1	26.765	7.150	0.200	38.27		
				1	15.00	0.582	0.100	0.87		
						46.33	%Cum	131714.00		

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4	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-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.							
			18	1.20	1.20			25.92	
			8	3.058	0.375			9.17	
			2	3.929	0.375			2.95	
			3	26.765	0.375			30.11	
			1	2.50	1.50			3.75	
			1	26.765	2.640			70.66	
			1	15.00	0.582			8.73	
			1	0.871	3.560			3.10	
			2	3.712	1.800			13.36	
			2	29.015	0.500			29.02	
	2	3.712	0.500			3.71			
						200.48	Sqm	361.00	
5	P.W.D. (Bldg) 2017 ,3rd corr. 04.06.2018,p-10	Cement concrete with graded jharma khoa (30 mm. size) excluding shuttering in ground floor and foundation. a) 1:3:6 Proportion							
		outside	18	1.20	1.20	0.075		1.94	
			8	3.058	0.375	0.075		0.69	
			2	3.929	0.375	0.075		0.22	
			3	26.77	0.375	0.075		2.26	
			1	2.50	1.50	0.075		0.28	
			1	26.77	2.64	0.075		5.30	
			2	3.71	0.500	0.075		0.28	
			1	0.871	3.560	0.075		0.23	
			2	3.712	1.800	0.075		1.00	
			2	29.000	0.500	0.075		2.18	
	2	3.712	0.500	0.075		0.28			
						14.66	Cum	4761.00	
6	P.W.D. (Bldg) 2017 ,3rd corr. 04.06.2018,p-10	Cement concrete with graded jharma khoa (30 mm. size) excluding shuttering in ground floor and foundation. a) 1:4:8 Proportion							
			4	0.60	0.40	0.30		0.29	
			1	15.00	0.157			2.36	
						2.65	Cum	4566.00	
7		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.							
		Footing	18	4.80	0.175			15.12	
			18	2.00	0.500			18.00	
		Column	18	1.10	3.75			74.25	

Handwritten notes: 21/05/25, BAE (s) (2)

P.W.D. (Bldg) 2017 Page
42, Item No. 36(a)

Tie Beam	3	27.015	0.60	48.81		
	10	2.879	0.60	17.27		
	2	0.871	0.60	1.05		
	1	3.256	0.60	1.95		
Roof Beam	3	27.015	0.85	68.89		
	10	2.879	0.85	24.47		
	2	0.871	0.85	1.48		
	1	3.256	0.85	2.77		
Slab	1	26.756	3.058	81.82		
	1	3.06	0.621	1.90		
Lintel	12	1.05	0.150	1.89		
	10	0.75	0.150	1.13		
	12	1.50	0.250	4.50		
	10	1.00	0.150	1.50		
For Reservoir	1	2.00	1.000	2.00		
	2	2.00	1.800	7.20		
	2	1.00	1.800	3.60		
				379.42	Sqm	335.00

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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 IS codes.
a) Pakur / Chandil Variety

Footing	18	1.20	1.20	0.175	4.54	
Pedestal	18	0.50	0.50	0.45	2.03	
Column	18	0.25	0.30	4.10	5.54	
Floor & Roof Beam	20	0.25	0.30	3.129	4.69	
	2	0.25	0.30	3.006	0.45	
	3	0.25	0.30	27.015	6.08	
	2	0.25	0.30	27.015	4.05	
Slab	1	27.015	3.129	0.115	9.72	
	1	3.506	0.871	0.115	0.35	
Lintel	12	1.05	0.25	0.15	0.47	
	10	1.00	0.25	0.15	0.38	
Reservoir	1	2.50	1.50	0.115	0.43	
	2	2.00	1.80	0.075	0.54	
	2	1.00	1.80	0.075	0.27	
	2	3.00	0.450	0.15	0.41	
Total					39.95	Cum 6047.00

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			2	2.56	0.25	3.00	4.44		
			2	2.694	0.25	3.00	4.04		
			2	2.710	0.25	3.00	4.07		
			2	2.574	0.25	3.00	3.86		
			2	27.015	0.25	0.80	10.81		
			2	3.212	0.25	0.80	1.28		
							50.51	Cum	5905.00
12	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-3,l-8	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor.	2	1.50	2.10		6.30		
			8	1.350	2.10		22.68		
			2	1.63	2.10		6.85		
			6	1.25	2.10		15.75		
			2	2.69	2.10		11.30		
			1	3.25	2.10		6.83		
			10	0.75	1.80		13.50		
			2	1.20	2.00		4.80		
		Total					44.57	sqm	736.00
13	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-18,l-46	Cement concrete (1:1.5:3) with graded stone chips 5.6mm. Size with hexagonal square mesh wire netting I.R.C. Fabric mesh or X P.M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scraping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement excluding the cost of wire netting I.R.C. or X P.M. but including cost of all handling and scaffolding complete as per direction of Engineer-in-charge. (a) 37.5mm thick.	2	2.000	1.500		6.00	sqm	593.00
14	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-18,l-46	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.)	2	2.879	0.25		1.44		
			2	2.500	0.25		1.25		
			2	2.440	0.25		1.22		
			2	2.509	0.25		1.25		
			2	3.407	0.25		1.70		
			2	3.006	0.25		1.50		
			2	2.956	0.25		1.48		
			2	2.694	0.25		1.35		
			2	2.710	0.25		1.36		

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			2	2.574	0.25		1.29		
							13.84	sqm	190.00
15	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.							
				Same as Item No 7			379.42	Sqm	24.00
16	P.W.D. (Bldg) 2017,3rd corr. 04.06.2018,p-50,I-1	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Groundfloor). (i) With 1:6 cement mortar (b) 20 mm thick plaster(external) ground floor	2	26.72	3.60		192.3768		
			2	3.71	3.60		26.7264		
			2	26.72	1.650		88.1727		
			2	3.71	1.650		12.25		
		Total					319.53	Sqm	175.00
17	P.W.D. (Bldg) 2017,3rd corr. 04.06.2018,p-50,I-1	(i) With 1:6 cement mortarC)15 mm thick plaster(internal)	2	26.22	0.90		47.20		
			2	3.210	0.90		5.78		
		Total					52.97	sqm	151.00
18	P.W.D. (Bldg) 2017,3rd corr. 04.06.2018,p-50,I-1(ii)c	(ii) With 1:4 cement mortar plaster (c) 10 mm thick	1	26.22	3.210		84.17		
			1	3.25	0.871		2.83		
							87.00	sqm	133.00
19	P.W.D. (Bldg) 2017,3rd corr. 04.06.2018,p-36,I-22	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) With Sand Cement Mortar (1:3) 15 mm thick & 2 mm 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 Above 0.09 Sq.m Toilet wall	2	26.719	2.10		112.22		
			6	2.629	2.10		33.13		
			4	1.50	2.10		12.60		
			16	1.35	2.10		45.36		
			4	1.65	2.10		13.86		
			12	1.25	2.10		31.50		
			10	0.75	1.80		13.50		

			2	3.71	1.00	7.4		
			2	11.50	0.75	17.25		
		Total				286.84	Sqm	1109.00
20	P.W.D. (Bldg) 2017 ,3rd corr. 04.06.2018,p-37,1-26	Supplying & laying 20 mm designer chequered tiles of any shade and of approved quality as per IS: 1237: 1980 laid in patterns as directed in pavement, footpath including necessary underlay 25 mm thick average cement mortar (1:3) complete in all respect with all labour and materials [using cement slurry @ 4.4 kg/Sq.m at back side of tiles. Cement of mortar & slurry will be supplied by the Department. Border concrete if necessary to be paid separately].						
		Front area	1	29.000	0.50	14.50		
			2	4.000	0.50	4.00		
			2	3.120	1.80	11.23		
		Total				29.73	sqm	836.00
21	P.W.D. (Bldg) 2017 Page 104, Item No. 13	(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. ii) Grill weighing above 16 Kg./sq.mtr and above						
		Ventilator	8	0.50	0.45	1.80		
			1	2.00	1.20	2.40		
			2	28.00	0.60	33.60		
			2	3.71	0.60	4.45		
						42.25	Sqm	
						676.03	Kg	
						6.76	Qntl	7238.00
		Total						
22	P.W.D. (Bldg) 2017 ,3rd corr. 04.06.2018,p-37,1-25	Collapsible gate with 40mm.X40mm.X6mm. Tee as top and bottom guide rail 20mm.X10mm.X2mm. Vertical channels 100mm. Apart in fully stretched position 20mm.X5mm. M.S. flats as collapsible bracing properly rivetted and washered including 38mm. Steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete in ground floor.						
			2	1.20	2.00	4.80		
			2	2.00	2.10	8.40		
		Main gate				13.20	Sqm	4330.00

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28	P.W.D. (Bldg) 2017 Page-197, Item- 17	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. In Ground floor (Two Coat) a) Normal Acrylic Emulsion For outside wall area					319.53		
							319.53	Sqm	67.00
29	P.W.D. (Bldg) 2017 Page-200/ ltm.1(a)	(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.					1.80		
		Ventilator	8	0.50	0.45		2.40		
			1	2.00	1.20		4.80		
		Collapsible gate	2	1.20	2.00		8.40		
			2	2.00	2.10		33.60		
			2	28.00	0.60		4.45		
			2	3.71	0.60		55.45	sqm	29.00
		Total							
30	P.W.D. (Bldg) 2017 Page-200/ ltm.2(a), (iv)	(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 : With super gloss (hi-gloss) - (iv) Two coats (with any shade except white)					55.45	Sqm	79.00
		Same as item no 29							
31	P.W.D. (S&P) 2017 Page-41 lt.No.-:1(iii) .	Wash basin vitreous china of approved make (without fittings) supplied, fitted and fixed in position on 75mmX75mmX75 mm wood blocks and C.I. brackets including two coats of painting of C.I. brackets. (iii) 630 mm X 450 mm size	4				4.00	Each	2435.00
32	Page:-43 lt.No.-:9(v) of P.W.D'S Sanitary Schedule.	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. (v) 900 mm long.	8				8.00	Each	147.00
33	P.W.D. (S&P) 2017 Page:-36 lt.No.-:2 .	Supplying, fitting and fixing 10 litre P.V.C. low-own cistern conforming to I.S. specification with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket etc.	4				4.00	Each	1015.00

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34	P.W.D. (Bldg) 2017, 7th corr. 2.2.01.2020, p-1,1-1	Constructing inspection pit of inside measurement 600mm X 600mm X upto 600mm (depth) with 250mm. Thick 1st class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100mm. Thick cement concrete (1:3:6) with stone chips over a layer of Jhama brick flat soling, 15mm. thick (1:4) cement plaster to inside walls and out-side walls upto G.L. and 20mm. 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 100mm. thick R.C.C. slab (1:1.5:3) with stone chips and necessary reinforcement upto 1% and shuttering including 6mm. thick cement plaster (1:4) in all external surfaces of the slab and one 560mm. dia R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earth work 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. With Pakur variety.	5					5.00	Each	7253.00
35	Sanitary & Plumb. 2017 Page-66, 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). iii) 150 mm. Dia	1	15.00				15.00	Metre	334.00
36	P.W.D. (S&P) 2017 P: 81, It: 15(ii)(E2)	Supplying, fitting and fixing beveled 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	9					9.00	Each	484.00
37	Page:-45 It.No.:-19(a)(ii) of P.W.D'S Sanitary Schedule.	Supplying, fitting and fixing pillar cock of approved make. a)(ii) C.P. Pillar Cock Super Deluxe with Aerator-15mm. (Equivalent to Code No. 508 & Model No. Tropical / Sumthing Special of ESSCO or similar brand)	4					4.00	Each	592.00
38	Page:-6 It.No.:-7(a)(ii) of P.W.D'S Sanitary Schedule.	(ii) Chromium plated Bib Cock long body with wall flange with aerator (Equivalent to Code No. 512 & Model -Tropical / Sumthing Special of ESSCO or similar brand)	4					4.00	Each	659.00
39	P.W.D. (S&P) 2017 Page: 6 It.No.:-7(b)(ii) .	(ii) Chromium plated Concealed Stop Cock (Equivalent to Code No. 514(A) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	18					18.00	Each	674.00
40	Page:-29 It.No.:-1 of P.W.D'S Sanitary Schedule.	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778 :2007 .with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longs crew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing material sinany position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. Nos eparate payment will be made for accesories, specials. (a) For exposed work. CPVC pipes Class-1, SDR-II (i) 32mm Dia	4	6.00				24.00	Rm	283.00

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41	Page:-29 It.No.:-1 of P.W.D'S Sanitary Schedule.	(a) For exposed work. CPVC pipes Class-1, SDR-II 25mm Dia	10	5.00			50.00	Rm	208.00
42	P.W.D. (S&P) 2017 Page:-29 It.No.:-1, (b)	(b) For concealed work. (i) CPVC pipes Class-1, SDR-II 15mm Dia	18	3.00			54.00	Rm	140.00
43	Page:-5 It.No.:-5 (vi) of P.W.D'S Sanitary Schedule.	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only). 32 mm dia	2	2.00			4.00	Each	1160.00
44	PWD S&P-2017, Page:-37 It.No.:-6(b) .	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer 1000 litre capacity. (d)	2				2.00	Each	5128.00
45	Sanitary & Plumb.2017 Page-82, Item-22	Supplying, fitting and fixing towel rail with two brackets. C.P. over brass 25mm. Dia and 600mm. Long	12				12.00	Each	430.00
46	Sanitary & Plumb.2017 Page-19, Item No. 20	Supply of high density polythene pipe conforming to IS 4984-1985.A) 6Kg/sq.cm. (Working pressure)Dia75mm	6	3.00			18.00	Each	248.00
47	Sanitary & Plumb.2017 Page-19, Item No. 20	Supply of high density polythene pipe conforming to IS 4984-1985.A) 6Kg/sq.cm. (Working pressure)Dia 100mm	2	3.00			6.00	Each	545.00
48	Sanitary & Plumb.2017 Page-14, Item No.19(III)C	Supply of PVC pipes & fittings Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). (C) Elbow (Dia)80 mm	6				6.00	Each	266.00
49	Sanitary & Plumb.2017 Page-14, Item No.19(III)E	Supply of PVC pipes & fittings Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). (E) Tee (Dia)80 mm	6				6.00	Each	349.00
50	P.W.D. (S&P) 2017 P:-37 It.:-10(A) .	Labour for hoisting plastic water storage tank. (i) Upto 1500 litre capacity.(a) Upto 1st story from G.L	2				2.00	Each	96.00
51	PWD(W.B)- Building Works- P-298 It- 27	Providing and fixing of factory made uPVC Louver window (White Colour) (U value=1.9-1.3 W/m2K, flame resistant, self extinguishing, lead free) comprising of uPVC multi-chambered with wall thickness of 2.3mm (±0.2 mm) duly reinforced with 1.6 mm (±0.2 mm) thick G.I. Section made from roll forming process of required length (shape & size according to uPVC profile). Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. Both vertical sides of the frame, adjustable louver mechanism having one lever shall be fitted with the provision of 4 mm glass. Window frame will be fixed to the wall with 100mm long and 8mm dia for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Fasteners and after fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size, of approved quality complete in all respect as per as per approved drawing & direction of Engineer-in-Charge. a) Louver Window with provision of Exhaust Fan frame of size 67 x 67 mm & Sash / Mullion of	8	0.50	0.50		2.00	sqm	7149.00
52	PWD(W.B)- Building	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick	2	26.22	0.90		47.20		

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WORKS- P-198 It- 5								
			2	3.210	0.90			5.78
			1	26.22	3.210			84.17
			1	3.25	0.871			2.83
		Total						139.98
								sqm
								122.00
53	P.W.D. (Bldg) 2017 Page 14 Item No. 1,3rd corr. 04.06.2018,p-80,l-1	Supplying and laying true to line and level Anti-Skid, Full Body, Homogeneous & Granular finish Vitrified Tiles conforming to IS:15622-2006 & IS 4457-2007 and testing shall be made in accordance with IS:13630 [Non- modular sizes for tiles with Skid resistance > 0.5, Mohr's hardness > 5.0, Staining resistance: Class-1, Water Absorption: E < 0.5%], MOR > 35 N/sq.mm in Internal area of building e.g. Toilet Block, Passage, Corridor, Accessible Open Terrace etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg./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						
			1	26.765	2.629			70.37
			1	4.250	0.850			3.61
								73.98
								sqm
								1589.00
54	PWD(W.B)2017- Building Works- P-62 It- 32	Supplying, fitting & fixing granite slabs 15mm to 18 mm. thick with uniform texture & without decorative veins in columns, wall, fascia etc. with 15 mm 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. Area of each Granite slab > 0.6 upto 1.0 square metre. [Using cement slurry at back side of granite @ 4.4 kg/sq.m & white cement slurry for joint filling @ 1.8 kg/sq.m]						
		Inside	5	1.20	0.50			3.00
		out side	2	2.00	0.75			3.00
			2	27.02	0.30			16.21
			2	3.71	0.30			2.23
			2	4.50	0.60			5.40
		TOTAL						29.84
								sqm
								2317.00
55	Sanitary & Plumb.2017 Page-79, Item No. 2	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc.(b) With 'S' trap	2					2.00
								Each
								1512.00

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56	Sanitary & Plumb.2017 Page-79, Item No. 2	Supplying, fitting and fixing Orissa pattern water closet in white glazed vitreous chinaware of approved make in position complete excluding 'P' or 'S' trap (excluding cost of concrete for fixing). (ii) 530 mm X 410 mm	2				2.00	Each	1522.00
57	Sanitary & Plumb.2017 Page-80, Item No. 7	Supplying, fitting and fixing Squating plate with integral flushing in white vitreous chinaware of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately). (i) 450 mm X 350 mm	4				4.00	Each	881.00
58	Sanitary & Plumb.2017 Page-80, Item No. 7	Supplying, fitting and fixing in position C.I. manhole/ pit cover with rim. (ii) 450 mm X 100 mm X 25 kg (approx.)	1				1.00	Each	2035.00
59	K.M.C. FAIR RATE approved by D.G.(Bustee), dt-20.10.14	Decorative relief work of artistic nature on exposed surface of cement concrete, plaster or brick work etc. on the surface sketch drawn by artist including preparing the base by rough plaster of sand, cement (1:3) with water proofing compound including oil paint (Two Coats of approved shade, colour over a coat of primer) and applying two coats of decorative cement based paint to the rest portion of the back and other miscellaneous work complete including all materials, labours, scaffolding etc. as per direction of Engineer-in-Charge.	1	4.00	2.000		8.00	Sqm	3281.14
60	PWD(W.B)2017- Building Works- P-67 It- 38(iii)	Supplying, fitting & fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design, fixing in customize design as per direction of Engineerin- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge. [At Ground Floor] aligned/ CAD Design Type iii) Mural	2	3.000	2.000		12.00	Sqm	3614.00
61	Sanitary & Plumb.2017 Page-88, Item No. 3	Construction of septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (1:4) including two 560mm 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 15mm thick cement plaster (4:1) to outside wall upto 200mm below G.L. floor finished with 25mm thick grey artificial stone over 100mm 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 @5% by weight of cement with all costs of labour and materials. iii) For 50 User (Pakur Variety)	1				1.00	Each	89678.00

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62	PWD(W.B)2017- Building Works - P-261 It- 9(iv)	Supplying and Planting of different plant / trees (Supplying well grown plants bushy and healthy, minimum height as specified i.e. exposed height including all leads & lift, carriage, handling, manuring, applying pesticide and fertilizer etc. iv) Rangon hi-breed healthy plant.	120				120.00	Each	23.00
63	PWD(W.B)2017- Building Works - P-261 It- 9(vi)	vi) Duranta healthy plant of big size	80				80.00	Each	25.00
64	PWD(W.B)2017- Building Works- P-109 It- 22	Supplying, fitting and fixing Stainless Steel railing consist of 38mm dia and 900mm height vertical balustrade at every two alternative steps, 50mm dia top rail, 3 (three) nos 19mm dia horizontal Strainless steel pipe and base/cover plate with Strainless Steel GRADE 304 containing 7.5% nickle (Interior Grade) Brushed/Mat finish, complete as per direction of the Engineer-in-charge. Weight of Strainless Steel railing per metre 6.5 Kg (approx)							
			2	2			4	Mtr.	5974.00
65	PWD(W.B)2017- Building Works- P-243 It- 9-xiv	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.							
		ii) 4mm thick coloured / tinted / smoke glass.	8	0.5	0.6		2.4		
			4	0.6	0.6		1.44		
							3.84	Sqm	468.00
66	PWD(W.B)2017- Building Works- P-115 ,It- 3-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 monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria..							
		(ii) 66mm x 70mm	10	4.35			43.5	Mtr.	497.00
67	PWD(W.B)2017- Building Works- P-125 ,It- 14-i	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 monolitaheic 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	10	0.75	1.8		13.5	Sqm	2763.00
68	Sanitary & Plumb.2017 Page-4, Item No. 3-d	Chromium plated Hand shower with Flexible Tube & fittings(Equivalent to Code No. Hsh-1937 & (Equivalent to Code No. 5037 & Model - Florentine of Jaquar or similar).).	2				2	Each	2390.00
69	Sanitary & Plumb.2017 Page-4, Item No. 3-iii	(iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model- Tropical / Sumthing Special of ESSCO or similar brand).	2				2	Each	309.00

NAME OF WORK:-CONSTRUCTION OF MORDERN PAY AND USE TOILET AT SALT LAKE METRO STATION(BESIDE APPOLO HOSPITAL)

WATER SUPPLY WORK

DETAILED ESTIMATE

Estimate No-KMC/US/...../ Of 202 -2

Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
1	P.W.D. (S&P) 2017 Page 49, It 1d(ii)	Labour for boring tube well of required dia. by water jet system through any type of soil strata including hire and labour charges for boring pipes, scaffolding, tools and plants as necessary and taking out them and lowering pipes, strainers, blind pipe etc. and fitting and fixing the same complete including bucket washing and other incidental works in the connection. The tube well should have a minimum 50 mm gap in between the outside of the tubewell pipe and the bore. (d) For depth upto 150 metre for 50 mm dia. tube well with top enlargement of 100 mm dia. (ii) 100 mm dia. boring etc. top enlargement							
		Footings	1	32.00			32.00		
		Total					32.00	Metre	426.00
2	P.W.D. (S&P) 2017 Page 49, It 1d(ii)	Labour for boring tube well of required dia. by water jet system through any type of soil strata including hire and labour charges for boring pipes, scaffolding, tools and plants as necessary and taking out them and lowering pipes, strainers, blind pipe etc. and fitting and fixing the same complete including bucket washing and other incidental works in the connection. The tube well should have a minimum 50 mm gap in between the outside of the tubewell pipe and the bore. (d) For depth upto 150 metre for 50 mm dia. tube well with top enlargement of 100 mm dia. (ii) 50 mm dia. boring etc.							
			1	70			70.00	Metre	287.00
3	M.I.C Item M-46.4 Dated 23.06.2017	Carrying etc Store Material Viz Pipe,Strainer,Pump Etc From from store to work site. (1)For depth upto 100M							
			1				1.00		
							1.00	Lump Sum	1097.25

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AE(C)
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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
4	P.W.D. (S&P) 2017 Page 55, It 23	Collecting sample of water for bacteriological and chemical test from any depth at any time during execution of work including hire and labour charges for tools and plants and sterilising the equipments, paying all charges and fees, testing etc. complete in all respect as per direction.							
		outside	1				1.00		
							1.00	Lump Sum	1231.00
5	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.							
			1	2.00	2.000	0.600	2.400		
							2.400	%Cum	11927.00
6	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-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.							
		Total	1	2.00		2.000	4.000	Sqm	361.00
7	P.W.D. (Bldg) 2017 ,3rd corr. 04.06.2018,p-10	Cement concrete with graded jhama khoa (30 mm. size) excluding shuttering in ground floor and foundation. a) 1:3:6 Proportion							
			1	2.00	2.00	0.100	0.4000		
							0.400	Cum	4761.00
8	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-3,1-8	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor.							
		Total	1	6.00	0.6000		3.60	sqm	736.00
9	P.W.D. (Bldg) 2017 3rd corr. 04.06.2018,p-23,1-4(ii)	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour. In ground floor. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement							

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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
			1	2.00	2.00		4.00	sqm	273.00
							4.00		
10	P.W.D. (Bldg) 2017,3rd corr. 04.06.2018,p-50,1-1	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Groundfloor). (i) With 1:4 cement mortar C) 15 mm thick plaster (internal)	1	6.00	1.20		7.20	sqm	167.00
		Total					7.20		
11	P.W.D. (Bldg) 2017 ,p-192,1-15	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 cu.m per 100 sq.m.	1	6.00	1.200		7.20	sqm	34.00
							7.20		
12	P.W.D. (Bldg) 2017,3rd corr. 04.06.2018,p-10,1-27	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes.	1	2.00	2.0000	0.10	0.4000	Sqm	4060.00
		Total					0.4000		
13	UDMA.WATER SUPPLY WORKS.WEF_05101 8 4-1.12.ii	Supplying sign-board made of 25 mm thick sal plank with frame on all side of sal batten 50 mm x 32 mm with nailed on post 3.15m x 100mm x 100mm and fitting fixing such with digging holes of dia 300 mm and depth 750 mm in all sorts of soil and repacking and consolidating the gap around the post with cement concrete (1 : 3 : 6) painting 2 coats including cost of nails, bolts and nuts etc. complete in all respect as per direction of the Engineer-in-charge. Payment of concrete and painting to be made separately. (ii) 900 mm. x 600 mm. size of board.	1				1.00	Each	813.00
		Front area					1.00		
		Total							
14	UDMA.WATER SUPPLY WORKS.WEF_05101 8 3-1.1	Hire and labour charges for coir rope fencing 25 mm dia rope single on 120 mm dia bamboo posts 1.40 m above G.L and 600 mm below G.L, 1.50 m apart including digging holes complete.	4	8.00			32.00	Metre	17.00
		Total					32.00		

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Sl. No	Sch. Item	Description of Item	No	L	B	Ht.	Quantity	Unit	Rate
15	UDMA WATER SUPPLY WORKS.WEF_05101 B 2-15	Cutting & picking up existing metalised black top portion of road surface to an average depth of 300 mm by using Jack hammer with all necessary tool and plant including reeving the serviceable materials & stacking within a lead of 75 mtr. all complete as per direction of the Engineer-in-Charge.							
			1	2.00	2.00	0.10	0.40		
							0.40	Cum	636.00
16	P.W.D. (Bidg) 2017, 5th Corr. 16.04.2019 Page 2, Item 1	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	2.00	2.00	0.15	0.600	%Cum	131714.00
17	UDMA WATER SUPPLY WORKS.WEF_05101 B 4-114	Signalling arrangement at both sides of site to avoid any accident during working period 4 nos. red flags during sunlight at 4 corners and 2 nos light (lamp) in other than sunlight.							
			6				6		
							6	Day	202.00
18	UDMA WATER SUPPLY WORKS.WEF_05101 B 4-113	Hire & labour charges for diesel generating set for lighting including fuel, 300M wire, 11 points with 200 Watt bulb with post for hanging & maintaining the same for day & night for the period.							
			6				6		
							6	Day	1650.00
		Total							
19	PWD.SANITARY AND PLUMBING 2017 102-C.C.II.1.e(ii)	Supply of G. I. pipes of TATA make including necessary sockets (f) 50 mm dia. (ii) Medium quality							
			1	70.00			70.00		
							70.00	metre	402.00
20	PWD.SANITARY AND PLUMBING 2017 102-C.C.II.1.i(ii)	Supply of G. I. pipes of TATA make including necessary sockets (i) 100 mm dia. (ii) Heavy quality							
			1	32.00			32.00	metre	983.00

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Sl. No	Description of item	Quantity	Unit	Rate	Total
	post to day & night for the person			70.00	
				70.00	1402.00
19	FWD SANITARY AND PLUMBING 2017 102-C.C.II.18(III)	Supply of G. I pipes of TATA make including necessary sockets (Ø 50 mm dia. (H) Medium quality	1	70.00	
20	FWD SANITARY AND PLUMBING 2017 102-C.C.II.18(III)	Supply of G. I pipes of TATA make including necessary sockets (Ø 100 mm dia. (H) Heavy quality	1	32.00	

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Sl. No	Sch. Item	Description of item	No	L	B	Ht.	Quantity	Unit	Rate
21	UDMA WATER SUPPLY WORKS:WEF_05101 8 5-1.18	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge.							
		30*3.14=94.2	94.20	0.20	0.20	0.25	0.94		
		70*3.14=219.8	219.80	0.15	0.15	0.25	1.24		
							2.18	Cum	166.00
22	AS PER RATE APPROVED BY MUNICIPAL COMMISSIONER DATED 24.01.2019.	SUPPLY OF KSB MAKE SUBMERSIBLE PUMP MOTOR SET TYPE CORE 4C/B. 1 HP 220 VOLT WITH 1.5 INCH (40 MM) DIA DELIVERY OUTLET INCLUDING 1 HP CONTROL PANEL AND 1.5 SQ MM. 3 CORE CABLE OF 40 MTR LENGTH.							
							1.00		
			1				1.00	Each	21918.00

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