

8L-8

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Civil & Sanitary Work Estimate (A) For Construction of the Public Toilet Mirik Higher Secondary School at Krishnanagarat ward no V								for Mirik Municipality. (Model 'B')			
No. Of seat - Male - (W.C. -3 + Urinal -9) & Female - (W.C. -5 + Urinal -5) = Total (W.C. -8 & Urinal -14)											
Rate As per PWD Building Works Schedule (Volume 1) With effect from 01.11.2017											
Sl. No.	Item Description & Item No.							Quantity	Rate	Unit	Amount
	Details	Side	No.	L	B	H	QNTY.				
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							31.69	11927.00	%Cum	3779.67
	Column		13	1.20	1.20	1.125	21.060				
	Tie Beam		1	69.55	0.35	0.375	9.130				
	Reservior		1	1	1	1.5	1.500				
							31.690				
2	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)							180.29	530.40 523.20	Sqm	95,625.82 94327.73
	Column		13	1.20	1.20		18.720				
	Tie Beam		1	69.55	0.25		17.390				
	Floor 1		1	10.9	8.55		93.200				
	Platform		1	38.9	1.2		46.680				
	Ramp		1	2.75	1.2		3.300				
	Reservior		1	1	1		1.000				
							180.290				
3	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches. PWD Building Works schedule, Page -47, Item -3							47.43	28.80	Sqm	1365.98
	Open Space		1	38.9	1.2		46.680				
	Front Stair		1	1.5	0.5		0.750				
							47.430				
4	Cement concrete with graded jhama khoo (30 mm size) excluding shuttering In ground floor and foundation. (a) 1:3:6 proportion. <i>shingles, N.P. variety (22.0.11.19. 3rd Corrigeude</i> PWD Building Works schedule, Page -23, Item -B.1.a, Corri. Page-09, Date-04-06-2018) Rate Analysis							47.72	5529.60 5372.52	Cum	263872.50 256376.60
	Column		13	1.200	1.20	0.1	1.870				
	Tie Beam		1	69.55	0.25		17.390				
	Floor 1		2	10.9	8.55	0.1	18.640				
	Platform		1	38.9	1.2	0.1	4.670				
	Ramp		1	2.75	1.2	0.1	0.330				
	Open Space		1	38.9	1.2	0.1	4.670				
	Front Stair		2	1.5	0.5	0.1	0.150				
							47.720				
5	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 manufacturer's specification followed by two coat of polymer based paint, (1st coat after 4 to 5 days of concrete laying and 2 nd 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). [Note: - Waterproofing as per item 9, polymer based paint as per item 8 (a) of subhead C of Section (C). PWD Building Works schedule, Page -47, Item -1 (Rate Analysis)							10.43	351.56 357.60	Sqm	3666.77 3729.77
			1	23.85	0.25		5.960				
			1	35.75	0.125		4.470				
							10.430				

6	Brick work with 1st class bricks in cement mortar (1:4) (a) In foundation and plinth PWD Building Works schedule, Page -15, Item-7.a (Rate Analysis)	11.13	7978.98 7973.20	Cum	88806.05 88744.32	
	GL 2 PL	1	69.55	0.250	0.600	10.430
	Ramp	1	2.75	0.250	0.225	0.150
	Platform	1	3.9	0.250	0.450	0.440
	Front Stair	1	1.5	0.25	0.3	0.110
						11.130
7	Brick work with 1st class bricks in cement mortar (1:4) (b) In superstructure, ground floor PWD Building Works schedule, Page -15, Item-7.b (Rate Analysis)	23.40	8260.80 8246.58	Cum	193302.72 192969.97	
	Outer Wall	1	38.9	0.25	2.575	25.040
	Less Door	-1	1.2	0.25	2.1	-0.630
	Less Window	-15	0.6	0.25	0.45	-1.010
						23.400
8	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor. PWD Building Works schedule, Page - 16, Item - 16 (Corri. Page-03. Date-04-06- 2018) (Rate Analysis)	65.12	1030.33 1028.84	Sqm	67095.09 66998.24	
	Wall	1	20.5		2.75	56.380
	Less Door	-6	1		2.1	-12.600
	Spring	1	37.500		0.125	4.690
	Parapet	1	37.000		0.45	16.650
						65.120
9	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 obtained from excavation of foundation. PWD Building Works schedule, Page - 1, Item -3.a	20.92	77.54 11695.00	%Cum	1622.14 2446.59	
	2/3rd of Earth work		0.66	31.69		20.92
10	(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	42.83	144111.00	%Cum	61722.74	
		1	10.9	8.55	0.45	41.94
	Ramp	1	2.75	0.75	0.225	0.46
	Platform	1	1	0.95	0.45	0.43
						42.83
11	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) (f) 25 mm to 30 mm shuttering without staging in foundation PWD Building Works schedule, Page -42, Item- 36.f	56.10	250.80	Sqm	14069.88	
	Foundation	52	1.20		0.15	9.36
	Tie Beam	2	69.55		0.25	34.78
	Column	52	0.3		0.725	11.31
	Ramp	1	2.75		0.125	0.34
	Platform	1	2.5		0.125	0.31
						56.100

12	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) (a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge. PWD Building Works schedule, Page -42, Item- 36.a						186.03	400.80	Sqm	74560.82
	Coumn	52	0.25		2.575	33.480				
	Roof Beam	1	69.55		0.300	20.870				
	Lintel	2	59.4		0.2	23.760				
	Lintel btm	1	9.600		0.25	2.400				
		1	12.000		0.125	1.500				
	Chajja	1	14.100	0.3		4.230				
		1	23.100		0.075	1.730				
	slab with b btm	1	10.900	8.55		93.200				
	Slab Side	1	38.900		0.125	4.860				
						186.030				
13	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. Pakur Variety /Chandil Variety PWD Building Works schedule, p-26 Item 10 a (Rate Analysis)						26.09	8005.61 7276.77	Cum	208842.44 205481.30
	Colm foot	13	1.2	1.2	0.15	2.810				
	$6*0.15/3*(1*1+0.3*0.3+1*0.3)=0.417$					0.417				
	Tool Column	13	0.3	0.3	0.425	0.500				
	Column	13	0.25	0.25	3.025	2.460				
	Tie Beam	1	59.85	0.25	0.25	3.740				
	Lintel	1	38.2	0.125	0.2	0.960				
		1	14.100	0.25	0.2	0.710				
	Chajja	1	14.100	0.3	0.075	0.320				
	Slab Beam	1	52.5	0.25	0.175	2.300				
	Slab	1	10.900	8.55	0.125	11.650				
	Wash Basin	2	2.400	0.6	0.075	0.220				
						26.087				
14	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc 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 intersection, complete as per drawing and direction. (a) For works in foundation and upto roof of ground floor/upto 4 m. (i) Tor steel/Mild Steel , JSPL/SWAYN/ELETR/STEEL PWD Building Works schedule, Page - 43, Item - 40.a.i.1(Corri. 10th Page-01, Date-23-01-2020) (Rate Analysis)						2.560	70346.32 71659.46	M.T.	180086.58 183498.22
		26.087	0.0125	7.85		2.560				
15	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..... 25 mm. thick For roofing PWD Building Works schedule, P-48, It-6.ii (Rate Analysis)						93.20	337.48 340.83	Sqm	31453.14 31765.36
	roof	1	10.9	8.55		93.200				
						93.200				
16	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE:Cement 0.152 cu.m. per100 sq.m. PWD Building Works schedule, P-192, It. No. 15 (Rate Analysis)						17.51	39.40 39.52	Sqm	689.82 692.00

	Below Plinth	1	38.900	0.45	17.510				
					17.510				
17	Labour for Chipping of concrete surface before taking up Plastering work. Building Works schedule, P-192, It-1				PWD	186.03	21.00	Sqm	3906.63
	Same as shuttering sl no. 12					186.03			
18	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 (Ground floor).[Excluding cost of chipping over concrete surface] (i) With 1:6 cement mortar (c) 15 mm thick plaster PWD Building Works schedule, P-189 It- No. 1 (Rate Analysis)					334.44	219.84 206.27	Sqm	73523.29 68985.27
	Back side	1	10.900		2.875	31.340			
	Outer wall	2	28.000		2.875	161.000			
	Chajja	1	14.100		0.925	13.040			
	Chajja Side	30	0.300		0.075	0.680			
	Iner Wall	2	20.5		2.875	117.880			
	Less Door	-10	1.00		2.10	-21.000			
	Spring	1	37.5		0.325	12.190			
	Parapet wall	1	19.8		0.975	19.310			
						334.440			
19	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 (Ground floor).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (c) 10 mm thick plaster PWD Building Works schedule, P-189 It- No. 1 (ii)(c) (Rate Analysis)					93.20	169.28 163.98	Sqm	15310.90 15283.12
	Slab bottom	1	10.9	8.55		93.200			
20	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 PWD Building Works schedule, P-115, It - 3 (i)					46.50	624.00	Mtr	29016.00
		10	4.65			46.500			
						46.500			

21	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. P-125, It- 14(ii) ii) 25 mm thick	12.25					3241.20 3470.40	Sqm	39709.70 42512.40
			10	1.884	0.65		12.250		
							12.250		
22	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 . (vii) 225mm long x 10mm dia. bolt. PWD Building Works schedule, P-144, It No. 26 (vii)	20.00					106.80	Each	2136.00
			10	2.00			20.000		
23	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. (viii) 100mm X 75mm X 3.50mm. PWD Building Works schedule, P-140, It No. -5 (viii)	30.00					56.40	Each	1692.00
			10	3.00			30.000		
24	Anodised aluminium decorative handle (hexagonal / fluted) of approved quality fitted and fixed complete. (i) 150mm plate x 10mm dia rod x 12mm hexagonal/fluted. PWD Building Works schedule, Page -146 . Item no-31,(i)	20.00					130.80	Each	2616.00
			10	2.00			20.000		
25	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with concrete bolt and round fitting. .b)250mm long. PWD Building Works schedule, Page -141 . Item no-10 b)	10.00					195.60	Each	1956.00
			10	1.00			10.000		
26	(A) Supplying Aluminium casted body hydraulic door closer as per I.S.I. SOR, PWD, P- 244, I- 13(a)	10.00					768.00	Each	7680.00
			10	1.00			10.000		
27	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick) In Ground Floor PWD Building Works schedule, PWD, P- 198, I- 5	421.70					146.40	Sqm	61736.88
	Same as Plaster Item - Plinth plaster					421.70			
28	(b) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. PWD Building Works schedule, Page -200 . Item no- 1 (b)	421.70					45.60	Sqm	19229.52
	Same as Plaster Item - Plinth plaster					421.70			
29	(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) On timber or plastered surface : (a) With super gloss (hi-gloss) - (iv) Two coats (with any shade except white) PWD Building Works schedule, Page -200 . Item no- 2(A)(a)(iv)	421.70					98.40	Sqm	41495.28
	Same as Plaster Item - Plinth plaster					421.70			

30	Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully stretched position 20mm x 5mm M.S. flats as collapsible bracings properly rivetted and washed 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. P-106 Item-18 (3rd Corrigendam Page No 92)						4.62	5271.60	Sqm	24354.79
	gate		1	1.20		2.10	2.52			
			1	1		2.1	2.10			
							4.620			
31	(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)						4.36	12343.20	Qntl	53816.35
	Grill		7	0.60	0.45	0.16	0.300			
	Boundary		1	27.00	0.9	0.16	3.890			
	Box for pump		3	0.60	0.6	0.16	0.170			
							4.360			
32	(ii) Grill weighing above 16 Kg./sq.mtr and above PWD Building Works schedule, P-104 Item-13 A (ii) (3rd Corrigendam Page No 91)						1.28	12111.60	Qntl	15502.85
	Railing		1	4.75	0.9	0.30	1.280			
33	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)						73.41	36.00	Sqm	2642.76
	gate	2	1	1.20	2.10		5.040			
		2	1	1	2.10		4.200			
	Grill	2	9	0.60	0.45		4.860			
	Boundary Partition	2	1	27.00	0.9		48.600			
	Box for pump	2	3	0.60	0.6		2.160			
	Railing	2	1	4.75	0.9		8.550			
							73.410			
34	(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)						73.41	96.00	Sqm	7047.36
	Same as primeing on grill						73.41			

35	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 contractor) (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 Corrigendam , Page -36)	94.82	2055.60 2049.26	Sqm	194911.99 194311.21
	floor	1	10.9	8.55	93.200
	Door Gap	10	0.75	0.125	0.940
		3	1	0.125	0.380
		1	1.2	0.25	0.300
					94.820
36	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 of each tile above 0.09 Sq.m Coloured decorative including white schedule, page-64, Item:35.(B.) (b).(ii) b) Area ii) Other than PWD Building Works (3rd Corrigendam ,Page 36)	166.00	1428.8 1508.06 1426.80	Sqm	236848.80 250338.62
	Out side	1	28	2.1	58.800
	Less Door	-1	1.2	2.1	-2.520
	Door frame side	1	5.2	0.175	0.910
	Inner	1	61.8	2.1	129.780
	Less Door	-4	0.75	1.95	-5.850
		-1	1.2	2.1	-2.520
		-6	1	2.1	-12.600
					166.000
37	a) 25 mm thick Tiles as per IS: 1237-2012 for footpath,ramp,staircase of public building(over 25 mm thick (Avg) Cement mortar (1:3) & Cement Slurry @ 4.4 kg/Sq.m at back side of Block. Cement for Mortar & Slurry to be supplied by Department). (ii) Coloured Decorative PWD Building Works schedule, page-74, Item:48(a)-ii (3rd Corrigendam ,Page 37)	45.19	1098.00	Sqm	49618.62
	Open Space	1	25	1.5	37.500
	Ramp	1	2.75	1.2	3.300
		1	2.75	0.225	0.620
	Platform	1	1.95	1.2	2.340
	Stair	1	1.5	0.95	1.430
					45.190

38	Supplying, fitting & fixing granite slabs 15mm to 18 mm. thick with uniform texture & without decorative veins in columns, wall, fascia, rise 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. [Using cement slurry at back side of granite @ 4.4 kg/sq.m & white cement slurry for joint filling @ 1.8 kg/sq.m] In ground floor each Granite slab 0.6 to 1.0 Square meter. PWD Building Works schedule, page-63, Item:33(a)- (3rd Corrigendum ,Page 37)	3.83	3685.85	Sqm	14116.80
	For Wash Basin	2	2.55	0.75	3.830
39	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. Sanitary and plumbing work schedule P-81, It-13	2.16	1711.20	Sqm	3696.19
		3	1.2	0.6	2.16
40	Supplying profiles of required section made of Aluminium Alloy Extrusions conforming to IS: 732-1983 and IS: 1285- 1975; Anodized (with required film thickness and specified colour / natural) matt finished conforming to IS: 1868-1983 for fabrication of composit door, sliding & casement windows, partitions, formed of basic sections of any ISI embossed / certified make and brand as per direction of Engineer - In- Charge. (Payment will be made on finished length of the work). (A) In 10-12 Micron thickness Anodizing film i) Natural white h) Louvered window. and side member. PWD Building Works schedule PWD P-233 I- 1(h) i	29.40	229.20	M	6738.48
		14	2.1		29.400
41	ii) Louvered Section.	25.20	820.80	M	20684.16
		42	0.6		25.200
42	iii) Cleat angle (Non-anodized).	22.68	328.80	M	7457.18
		42	0.54		22.6800
43	Labour charge for fabrication and installation of composite door, window, partitions made from anodized extruded alloy aluminium sections for the following units:- (A) Glazed aluminium sliding windows made of extruded and anodized alloy aluminium sections, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprene or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Polysulphide sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleat angle etc. but excluding the cost of extruded aluminium sections, glass, neoprene / EPDM gasket, locking arrangement and rollers. v) Louvered window. PWD Building Works schedule SOR, PWD, P-239, I- 2 (v)	2.70	730.00	Sqm	1971.00
		10	0.6	0.45	2.700
44	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987. iv) 5mm thick coloured / tinted / smoke glass. PWD Building Works schedule P-243. I-9	3.78	702.00	Sq.M.	2653.56
		14	0.6	0.45	3.780

45	Painting block letters or digits in Black Japan or any approved paint as per direction. above 7.5 cm. and upto 10 cm. Works schedule, P-268, It-17(e)	e) Size PWD Building	650.00	14.40	Each	9360.00
46	Supply and Fixing of 2 mm Polyvinyl glow sign board made of 22 SWG GI sheet box with 1"X1" aluminum channel for fixing the vinyl board after necessary cutting the letter as required & s\LED tube light fittings along with all accessories Electrical shdule P-14, It NO. 4	UDMA	15.00	495.00	Sq.F.	7425.00
			1	5	3	15
47	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 presticide and fertilizer etc. . i) Furcaria veriegated 10-12 leaves in height 20-30cm in earthen pots of size 25cm. Building Works schedule, Page -261, It- 9 (i)	PWD	12	194.40	Each	2332.80
48	x) Ficus blakii (F. Vivicon) well branched (Bushy) of height 120cm - 135 cm in earthen pot of size 30cm. PWD Building Works schedule, Page -261, It- 9 (x)		9	224.40	Each	2019.60
49	xxvi) Areca Palm 4 - 5 suckers of height 90 cm to 105 cm in earthen pots of size 25 cm. Building Works schedule, Page -261, It- 9 (xxvi)	PWD	6	152.40	Each	914.40
50	Supplying, fitting and fixing Anglo-Indian W.C. in white glazed vitreous china ware of approved make complete in position with necessary bolts, nuts etc. a) With 'P' trap (with vent) S&P Schedule, page-79, item no -3 (a)	PWD	8	3724.80	Each	29798.40
51	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws complete .(b) Anglo Indian (i) Plastic (hallow type) White S&P Schedule, page-81,item no 10.b.i	PWD	8	456.00 582.06	Each	3648.00 4656.00
52	Supplying, fitting and fixing Shallow water closet Indian pattern (I.P.W.C.) of approved make in white vitreous chinaware in position (excluding cost of concrete for fixing). (i) 580 mm long Schedule, page-79,item no -1 (i)	PWD S&P	8	1124.40 1169.60	Each	8995.20 9340.80
53	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete (ii) 470 mm X 280 mm X 340 mm S&P Schedule, page.80,item no-6/(ii)	PWD	9	1134.00	Each	10206.00
54	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 S&P Schedule, (P - 80, Item. No. - 7 ,	PWD	5	1057.20	Each	5286.00
55	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern conforming to I.S. specification with P.V.C. fittings complete,C.I. brackets including two coats of painting to bracket etc. S&P Schedule. Page No.-36 Item No.-2.	PWD	8	1218.00	Nos	9744.00
56	Supplying,fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete. i) Polythene Flush Pipe PWD S&P Schedule, Page no 81. Item no. 11(i)		8	186.00	Each	1488.00
57	Supplying, fitting and fixing urinal flush pipe fittings of approved brand. (a) C.P. urinal flush pipe fittings range of one PWD S&P Schedule, S.P.81,item-12/a		8	496.80	Each	3974.40
58	Supplying, fitting and fixing white vitreous china best quality approved make wash basin with C.I. brackets on 75 mm X 75 mm wooden blocks, C.P. waste fittings of 32 mm dia., mending good all damages and painting the brackets with two coats of approved paint. (ii) 550 mm X 400 mm size PWD S&P Schedule, P-41, It 2 (ii)		10	2649.60	Each	26496.00

59	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 PWD,	10	128.40	Each	1284.00
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	10	109.20	Each	1092.00
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	1501.20	Each	12009.60
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	8	646.80	Each	5174.40
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	8	591.60	Each	4732.80
64	Supplying, fitting and fixing shower of approved brand and make. (ii) Chromium plated round shower with revolving joint (Equivalent to Code No. 541(N) & Model - Tropical / Sumthing Special of ESSCO or similar brand). PWD S&P Schedule, Page No.-3 Item No.-3- a-ii	8	432.00	Each	3456.00
65	(iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Sumthing Special of ESSCO or similar brand). Page No.-3 Item No.-3-a-(iii), PWD, VOL-II, 2017-18	8	370.80	Each	2966.40
66	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,	12	978.00	Each	11736.00
67	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)i, Pwd Sanitary Plumbing Schedule 2017)	10	666.00	Each	6660.00
68	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 No.-12 Item No.-19-i(a), PWD, VOL-II, 2017-18 Page	45	212.40	Mtr	9558.00
69	(a) (a) For Exposed Work PVC Pipes, 15 mm No.-12 Item No.-19-i(a), PWD, VOL-II, 2017-18 Page	25	121.20	Mtr	3030.00
70	(b) For Concealed Work PVC Pipes, 15 mm 12 Item No.-19-i(b), PWD, VOL-II, 2017-18 Page No.-	25	164.40	Mtr	4110.00

71	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),	5	933.60	Each	4668.00
72	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	6153.60	Each	12307.20
73	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	96.00	Each	192.00
74	Labour for punching hole in plastic water storage tank upto 50 mm dia. PWD S&P Schedule, (P. No. - 38, Item. No. - 13	4	19.00	Each	76.00
75	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)	30	350.40	Mtr	10512.00
76	(B) Fittings (i) Coupler, (b) 110 mm	15	102.00	Each	1530.00
77	(ii) Plain Tee, (b) 110 mm	12	102.00	Each	1224.00
78	(iii) Door Tee, (b) 110 mm	9	234.00	Each	2106.00
79	ix) Bend 45°, (b) 110 mm	9	106.80	Each	961.20
80	xi) Door Bend (T.S.), (b) 110 mm	7	176.40	Each	1234.80
81	xvi) Pipe Clip, (b) 110 mm	30	25.20	Each	756.00
82	xvii) W.C. Connector (150 mm long) 125 X 110(W/WC Ring) 75 mm	6	170.40	Each	1022.40
83	xxxii) Plain Floor Trap with Top tile & Strainer 75 mm	6	172.80	Each	1036.80
84	L) Rubber Ring, (b) 110 mm	30	20.40	Each	612.00
85	C)Rubber Lubricant 500 ML	5	224.40	500 ML	1122.00
86	D)Solvent Cement 250 ML	5	123.60	250 ML	618.00
87	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)	30	84.00	Mtr	2520.00
88	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. (P. - 212, Item. No. - 21 (A)(i) , (B),(c),(i) & (B), (d),(i), Pwd volume-i, 2017)	12	225.60 237.60	Mtr	2707.20 2851.20
89	B) UPVC Fittings: c) Bend 87.5 degree (i) 75 mm. Dia.	4	106.80 106.80	Mtr	403.20 429.20
90	B) UPVC Fittings: d) Shoe (i) 75 mm. Dia.	4	93.60 93.60	Mtr	374.40 393.60

78.40

393.60

91	<p>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.</p> <p>i) With Pakur variety (Other than SAIL/TATA/RINL). PWD S&P Schedule, S.P.87,Item No-1/(i), 7th Corrigenda Volume ii</p>	4	1546.02 7276.13	Each	6184.09 37104.52
92	<p>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.</p> <p>(iv) For 30 users A) With Pakur variety. (JSW/JSPL/SHYAM/SRMB/ELECTROSTEEL/SSL) PWD S&P Schedule, S.P.88,Item No-3(iv)(A) 7th Corrigenda Volume ii</p>	1	0.00 79838.34	Each	0.00 79838.34
93	<p>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</p>	1	0.00 22739.68	Each	0.00 22739.68
94	<p>Supplying, fitting and fixing towel rail with two brackets. (a) C.P. over brass (ii) 25 mm dia. and 600 mm long PWD S&P Schedule, p No 82 I No- 22 (a)(ii)</p>	8	516.00	Each	4128.00
95	<p>Supplying, fitting and fixing cast iron raised rain proof tank cover 500 mm dia. with locking arrangements (weighing not less than 12 kg). PWD S&P Schedule, . page-37,item no -8</p>	1	1515.60	Each	1515.60
96	<p>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 S&P Schedule, P-81, It-15(ii)</p>	8	580.80	Each	4646.40

97	Supplying, fitting and fixing soap holder. Sanitary and plumbing work schedule P-82, It-18(b)	(b) Fibre glass	16	69.60	Each	1113.60
98	Supplying, fitting and fixing porcelain toilet paper holder of approved make with wooden spindle as necessary. mm X 125 mm (A5) I No- 23 9i)	(i) Roll type size 250 Sanitary & Plumbing works p No 83	8	351.60	Each	2812.80
99	Supplying, fitting and fixing glass shelf with aluminium guard rails. (a) Ordinary type with 5.5 mm sheet glass X 125 mm Sanitary and plumbing work schedule P-81, It-16(a)(i)	(i) 450 mm	8	409.20	Each	3273.60
					Sub Total Of (A)	2492575.34
					Add S.G.S.T. @ 9%	224331.78
					Add C.G.S.T. @ 9%	224331.78
					Cost Of Civil & Sanitary Work	2941238.90
					Add L.W.C. @ 1%	29412.39
					Total payable Amount Including L.W.C.	2970651.29
					Add Contingency @3%	88237.17
					Total payable Amount Including L.W.C. and contingency	3058888.46
					Say Rs.	3058888.00
Rupees Thirty Lakhs Eighty ^{two twenty one} Eight ^{six} Thousand Eight Hundred Eighty Eight Only/-						

Say, ₹ 32,21,671.00

seventy one


Sub-Assistant Engineer
Mirik Notified Area Authority


Chairperson
Board of Administrators
Mirik Notified Area Authority


May be Vetted

May be Vetted

Vetted


Junior Engineer
Siliguri Division M.E. Dte
Govt. of West Bengal


Assistant Engineer
Siliguri Division M.E. Dte.
Govt. of West Bengal


Executive Engineer
Siliguri Division
M.E. Directorate
Deptt. of U.D.M.A
Govt. of West Bengal