

**ESTIMATE FOR CONSTRUCTION OF INSTITUTIONAL TOILET AT KALI GATI GIRLS HIGH SCHOOL WARD -02,J.L NO-103,DAG NO-20,KHATIAN NO-1020,MOUZA - ANANDAPUR,UNDER SURI MUNICIPALITY,WB, (MODEL-ULB) CIVIL WORKS ,TOILET SEATS-6,URINAL-03 NOS & BATH -03 NOS**

Reference of schedule of rate :-PWD (W.B) BUILDING WORKS ,( With effect from 01.11.2017)

Incorporation of GST Act,2017& All addenda & Corrigenda of SOR,0112.2015.

PWD Schedule of rate Building and Sanitary & Plumbing w.e.f 01.11.2017

SL.NO	Item Description & Item No.	Quantity	Rate	Unit	Amount
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	23.04	119.27	Cum	2747.98
2	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work). (a) With earth obtained from excavation of foundation. PWD Building Works schedule, Page - 1, Item -3.a 5.816 x 1/5=1.163 m3	4.61	77.54	Cum	357.46
3	(A) Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity) PWD Building Works schedule, Page - 2, Item -4.a 1 x 4.850 x 2.8250 x 0.325 = 4.453 m3	11.115	572.55	Cum	6363.89
4	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand. PWD Building Works schedule, Page- 14, Item - 1 ( Corri. Page-01, Date-04-06-2018)	57.240	266.00	Sqm	15225.84
5	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. a) Pakur Variety /Chandil Variety PWD Building Works schedule, p-26 Item 10 a (Rate Analysis)	17.745	4846.48	Cum	86000.79
6	Cement concrete with graded jhama khoa (30 mm size) excluding shuttering in ground floor and foundation. (a) 1:3:6 proportion. PWD Building Works schedule, Page -23, Item -B.1.a, ( Corri. Page- 09, Date-04-06-2018) Rate Analysis1 ( Corri. Page-01, Date-04-06-2018)	1.484	4031.00	Sqm	5982.00
7	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)	8.05	169.16	Sqm	1361.74
8	125 mm brick work with 1st classbricks in cement mortar ( 1:4) in ground floor. PWD Building Works schedule, Page -16, Item-16,cori page -3, date -04.06.2018 (Rate Analysis) 5 x 1.20 x3.00 = 18.00 m2 3x1.00 x3.00 = 9.00 m2	51.750	584.53	Sqm	30249.43
9	Supplying and laying polythine sheet ( 150 gm/sq.m ) over dampproof course or below flooring or roof terracing or foundation or foundation trenches. PWD Building Works schedule, Page -47, Item-3	57.240	24.00	Sqm	1373.76
10	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	34.41	205.00	Sqm	7054.05

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) (a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge. <b>PWD Building Works schedule, Page -42, Item- 36.a</b> 1 x 4.85 x 2.8250 = 13.70 m2 2( 4.85 + 2.825) x 0.125 = 1.209 m2 4(.30+0.25) x 3.00 = 6.60 m2 2 x 2 x 4.85 x 0.1250 = 2.46 m2 2x 2 x 2.825 x 0.125 = 1.41 m2	95.988	328.00	Sqm	31484.06
12	Artificial stone in floor ,dado,staircaseetc with cement mortar (1:2:4)with stone chpls lsled in panels as directed with topping made with ordinary or white cement (as necessary) and marbel dust in proportion (1:2) in cluding 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 using gray cement (ii)25 mm <b>PWD Building Works schedule, p-48 Item 6(ii)</b>	34.200	240.01	Sqm	8208.34
13	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/ELETRO/STEEL <b>PWD Building Works schedule, Page - 43, Item - 40.a.i.1( Corri. 10th Page-01, Date-23-01-2020) (Rate Analysis)</b> Item no , vol of conc. 7.519x 1.20 % =0.090 m3 x 35.315 c.ft = 3.186 c.ft x 225 kg = 717.00 kg = 0.717 MT	1.69	54439.07	Mtr	92002.03
14	Collapsible gate with 40 mm x 10 mm x 6 mm Tee as top and bottom guide rail , 20 mm x 10 mm x 2 mm vertical channels 100 mm apart in fullt stretched position 20m x 5 mm MS flats as collapsible bracings properly reveted and washered including 38 mm steel roller including locking arrangements , fitted and fixed in position with lugs set in cement concrete including cutting necessary hikes chasing etc in walls , floors etc and making good all damages . <b>PWD Building Works schedule, Page -106, Item- .18</b>	4.200	4330.00	Sqm	18186.00
15	Brick work with 1st class bricks in cement mortar (1:4) (a) Foundation and plinth ground floor <b>PWD Building Works schedule, Page -15, Item-7.a (Rate Analysis)</b>	5.715	4198.06	Cum	23991.91
16	Brick work with 1st class bricks in cement mortar (1:4) (b) superstructure ground floor <b>PWD Building Works schedule, Page -15, Item-7.b (Rate Analysis)</b>	28.575	4421.06	Cum	126331.79
17	Labour for Chipping of concrete surface before taking up Plastering work. <b>PWD Building Works schedule, P-192, It-1</b>	82.200	21.00	Sqm	1726.20
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 <b>PWD Building Works schedule, P-189 It- No. 1 (Rate Analysis)</b>	293.063	132.55	Sqm	38845.50
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 <b>PWD Building Works schedule, P-189 It- No. 1 (ii)(c) (Rate Analysis)</b>	25.175	119.55	Sqm	3009.67
20	Neat cement punning about 1.5 mm thick in wall ,dado, window sills, floors etc . Note cement 0.152 m3/100 m2 <b>PWD Building Works schedule, P-192 It- No. 15</b>	22.913	32.76	Sqm	750.63
21	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 monolithahelc composite structure as per approved technology of Department of Science and Technology (DST) to saflsify IS: 4020 door testing performance criteria.. (i) 66mm x 90mm <b>PWD Building Works schedule, P-115, It - 3 (i)</b>	9.900	497.00	Mtr	4920.30

22	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. ii) 25 mm thick P-125, It- 14(ii) $2 \times 2.10 \times 0.75 = 3.15 \text{ m}^2$	3.150	2581.00	Sqm	8130.15
23	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)	12.000	84.00	Each	1008.00
24	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)	18.000	66.00	Each	1188.00
25	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)	6.000	87.00	Each	522.00
26	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)	6.000	159.00	Each	954.00
27	Supplying and laying chequered tiles of any shade and of approved quality with (1:1.5:3) cement concrete laid in pannels or patterns as directed in pavement ,footpath etc including necessary underlay 25 mm thick (avg)cement mortar (1:3) complete in all respect with all labour and materials . ( Using cement slurry @4.4kg/sq.m at back side and @2.4 kg/sq.m for joint filling ). PWD Building Works schedule, Page -74 , Item no-46(i) . 25 mm thick	13.069	456.00	sqm	5959.46
28	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 $136.56 + 13.70 = 150.26 \text{ M}^2$	293.063	122.00	Sqm	35753.69
29	Applying interior grade Acrylic Primer of approved quality and brand on plastered and concrete surface old or new surface to receive Distemper Acrylic emulsion paint including scraping and preparing the surface thoroughly , complete as per manufacturer's specification and as per direction of the E-I-C ( Ground Floor ) ( b ) Two Coats PWD Building Works schedule, Page -74 , Item no- 46(i) . $44.63 + 19.20 + 13.90 - 13.70 = 66.03 \text{ M}^2$	155.530	30.80	M2	4790.32
30	Dry Destepping interior walls or ceiling including cleaning, washing, smoothening surface (b) two coats PWD Building Works schedule, Page -196 , Item no- 9(b) .	155.530	49.00	M2	7620.97
31	Applying exterior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Decorative Textured (Matt Finish) or Smooth Finish Acrylic exterior emulsion paint including scraping and preparing the surface thoroughly , complete as per manufacturer's specification and as per direction of the EIC in Ground Floor (b) two coats. PWD Building Works schedule, Page -196 , Item no- 8(b)	145.890	31.40	M2	4580.95
32	Protective and Decorative Acrylic Exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied over Acrylic primer as required. The rate includes cost of materials, labour, scaffolding and all incidental charges but excluding the cost of primer in ground floor (two coats)(a) normal acrylic emulsion. PWD Building Works schedule, Page -197 , Item no- 17(a) $79.69 + 18.00 + 36.00 = 136.69 \text{ m}^2$	145.890	67.00	M2	9774.63
33	(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)	13.569	38.00	Sqm	515.62
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 : Page - 200 . Item no- 1 (b) (a) On timber or plastered surface : With super gloss (hi-gloss) - (iv) Two coats (with any shade except white) PWD Building Works schedule, Page -200 . Item no- 2(A)(a)(iv)	13.659	81.00	Sqm	1106.38
35	(a) M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.. (i) Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr. PWD Building Works schedule, P-104 Item-13 A (i) (3rd Corrigendam Page No 91) $64 \times 0.600 \times 0.600 = 1.44 \text{ m}^2$ $= 1.44 \text{ m}^2 \times 10.00 \text{ kg} = 14.40 \text{ kg} = 0.144 \text{ qtl}$	0.288	9888.00	Qntl	2847.74

36	a) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. PWD Building Works schedule, P/200 Item-1(a)	12.540	29.00	Sqm	363.66
37	(A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : (b) On steel or other metal surface : (iv) Two coats (with any shade except white) PWD Building Works schedule, P-200 Item-2(b)(iv)	12.540	79.00	Sqm	990.66
38	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring Pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-In-Charge. (White cement, synthetic adhesive and grout material to be supplied by the 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 Floor)	9.937	1679.00	Sqm	16684.22
39	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. B) Wall Area of each tile above 0.09 Sq.m ii) Other than Coloured decorative including white PWD Building Works schedule, page-64, Item:35.(B.) (b).(ii) (3rd Corrigendum ,Page 36) 2( 4.85 + 2.8250 ) x 2.10 = 36.84 m2 1x2 x 2.325 x 2.10 = 9.77 m2 2 x 2 x 1.60 x 2.10 = 13.44 m2	143.130	1029.00	Sqm	147280.77
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 composite 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. i) Top, bottom and side member. PWD Building Works schedule, PWD, P-233, I- 1(h) i	13.560	183.00	Mtr	2481.48
41	ii) Louvered Section.	14.400	658.00	Mtr	9475.20
42	iii) Cleat angle ( Non-anodized).	12.960	263.00	Mtr	3408.48
43	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	2.080	585.00	Sqm	1216.80
44	Painting block letters or digits in Black Japan or any approved paint as per direction. e) Size above 7.5 cm. and upto 10 cm. PWD Building Works schedule, P-268, It-17(e)	450.000	12.00	Each	5400.00
45	Supplying and planting of different plants / trees (supplying well grown plants bushy and healthy, minimum height as specified i.e. exposed height including all leads and lifts, carriage, handling, manuring applying pesticide and fertilizer etc. i) Furcaria Veriegated 10 to 12 leaves in height 20-30 cm in earthen pot of size 25 cm	10.000	162.00	Each	1620.00
46	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)	6.000	187.00	Each	1122.00
47	xxvi) Areca Palm 4 - 5 suckers of height 90 cm to 105 cm in earthen pots of size 25 cm. PWD Building Works schedule, Page -261, It- 9 (xxvi)	6.000	127.00	Each	762.00
<b>SANITARY AND PLUMBING WORKS</b>					

48	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) <b>PWD S&amp;P Schedule, page-79, Item no -3 (a)</b>	3.000	3104.00	Each	9312.00
49	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 <b>PWD S&amp;P Schedule, page-81,Item no 10.b.i</b>	3.000	485.00	Each	1455.00
50	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 <b>PWD S&amp;P Schedule, page.80,Item no-6/(ii)</b>	3.000	945.00	Each	2835.00
51	Supplying fitting and fixing squatting plate with integrated flushing In white vitreous set in cement concrete (6:3:1) with jhama chips complete. ( Payment of concrete will be paid seperately ) ( I ) 450 mm x 350 mm	2.000	881.00	Each	1762.00
52	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. <b>PWD S&amp;P Schedule, Page No.-36 Item No.-2,</b>	2.000	1015.00	Nos	2030.00
53	Supplying,fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete. i) Polythene Flush Pipe <b>PWD S&amp;P Schedule, Page no 81. Item no. 11(i)</b>	3.000	155.00	Each	465.00
54	Supplying, fitting and fixing urinal flush pipe fittings of approved brand. (a) C.P. urinal flush pipe fittings range of one <b>PWD S&amp;P Schedule, S.P.81,item-12/a</b>	3.000	414.00	Each	1242.00
55	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 <b>PWD S&amp;P Schedule, P-41, It 2 (ii)</b>	3.000	2208.00	Each	6624.00
56	Supplying fitting and fixing pedestal of approved make for wash basin ( White ) <b>PWD S&amp;P Schedule, P-41, It 3</b>	3.000	1497.00	Each	4491.00
57	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 <b>PWD S&amp;P Schedule, Page No.-43 Item No.-9-iii PWD,</b>	2.000	107.00	Each	214.00
58	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 <b>PWD S&amp;P Schedule, Page No.-43 Item No. 10-iv</b>	2.000	91.00	Each	182.00
59	(f) Hand Shower(Health Faucet) with 1mtr Flexible Tube with Wall Hook(Equivalent to Code No.573 & Model -ALLIED of Jaquar or similar). <b>PWD S&amp;P Schedule, Page No.-3 Item No.- 3 f,</b>	6.000	1251.00	Each	7506.00
60	(a) (i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model -Tropical / Sumthing Special of ESSCO or similar brand). <b>PWD S&amp;P Schedule, Page No.-6 Item No.-7-a-i</b>	6.000	539.00	Each	3234.00
61	(b) (i) Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model -Tropical / Sumthing Special of ESSCO or similar <b>PWD S&amp;P Schedule, Page No.-6 Item No.-7-b-i</b>	6.000	493.00	Each	2958.00
62	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand). <b>PWD S&amp;P Schedule, Page No.-6 Item No.-7-d-i,</b>	6.000	815.00	Each	4890.00
63	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)), <b>Pwd Sanitary Plumbing Schedule 2017)</b>	6.000	555.00	Each	3330.00
64	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, longscrow, 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 positlon 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 accesories, specials. Payment for painting will be made seperately) (a) For Exposed Work PVC Pipes, 25 mm <b>Page No.-12 Item No.-19-l(a), PWD,VOL-II , 2017-18</b>	27.500	177.00	Mtr	4867.50
65	(a) (a) For Exposed Work PVC Pipes, 15 mm <b>Page No.-12 Item No.-19-l(a), PWD,VOL-II , 2017-18</b>	6.000	101.00	Mtr	606.00

66	(b) For Concealed Work PVC Pipes, 15 mm Page No.-12 Item No.-19-I(b), PWD,VOL-II, 2017-18	6.000	137.00	Mtr	822.00
67	Supplying and fitting fixing of gunmetal wheel valve of approved brand and make tested to 21 Kg per sq. cm. 25 mm dia(E5) PWD S&P Schedule, P-5 It-5,(vii),	4.000	778.00	Each	3112.00
68	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)	2.000	5128.00	Each	10256.00
69	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)	2.000	96.00	Each	192.00
70	Labour for punching hole in plastic water storage tank upto 50 mm dia. PWD S&P Schedule, (P. No. - 38, Item. No. - 13	2.000	19.00	Each	38.00
71	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)	6.000	292.00	Mtr	1752.00
72	(B) Fittings (i) Coupler, (b) 110 mm	6.000	85.00	Each	510.00
73	(ii) Plain Tee, (b) 110 mm	4.000	85.00	Each	340.00
74	(iii) Door Tee, (b) 110 mm	6.000	195.00	Each	1170.00
75	ix) Bend 45°, (b) 110 mm	6.000	89.00	Each	534.00
76	xi) Door Bend (T.S.), (b) 110 mm	4.000	147.00	Each	588.00
77	xvi) Pipe Clip, (b) 110 mm	16.000	21.00	Each	336.00
78	xvii) W.C. Connector (150 mm long) 125 X 110(W/WC Ring) 75 mm	6.000	142.00	Each	852.00
79	xxxii) Plain Floor Trap with Top tile & Strainer 75 mm	4.000	144.00	Each	576.00
80	L) Rubber Ring, (b) 110 mm	6.000	17.00	Each	102.00
81	C)Rubber Lubricant 500 ML	1.000	187.00	500 ML	187.00
82	D)Solvent Cement 250 ML	1.000	103.00	250 ML	103.00
83	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)	27.500	84.00	Mtr	2310.00
84	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), Pwv volume- i, 2017)	16.500	188.00	Mtr	3102.00
85	B) UPVC Fittings: c) Bend 87.5 degree (i) 75 mm. Dia.	4.000	95.00	Mtr	380.00
86	B) UPVC Fittings: d) Shoe (i) 75 mm. Dia.	2.000	78.00	Mtr	156.00
87	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. i) With Pakur variety (Other than SAIL/TATA/RINL). PWD S&P Schedule, S.P.87,Item No-1/(i), 7th Corrigenda Volume II	6.000	6153.00	Each	36918.00

88	<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>(ii) For 20 users A) With Pakur variety. (JSW/JSPL/SHYAM/SRMB/ELECTROSTEEL/SSL) <b>PWD S&amp;P Schedule, S.P.88,Item No-3(ii)(A) 7th Corrigenda Volume ii</b></p>	1.000	42400.00	Each	42400.00
89	<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.</p> <p>(Other than SAIL/TATA/RINL) <b>S.P.89,Item No-4 7th Corrigenda Volume ii</b></p>	1.000	13899.00	Each	13899.00
90	<p>Supplying, fitting and fixing towel rail with two brackets. (a) C.P. over brass (ii) 25 mm dia. and 600 mm long <b>PWD S&amp;P Schedule, p No 82 I No- 22 (a)(ii)</b></p>	12.000	430.00	Each	5160.00
91	<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 <b>PWD S&amp;P Schedule, P-81, It-15(ii)</b></p>	6.000	484.00	Each	2904.00
92	<p>Supplying, fitting and fixing soap holder. (b) Fibre glass <b>Sanitary and plumbing work schedule P-82, It-18(b)</b></p>	6.000	58.00	Each	348.00
93	<p>Supplying, fitting and fixing glass shelf with aluminium guard rails. (a) Ordinary type with 5.5 mm sheet glass (i) 450 mm X 125 mm <b>Sanitary and plumbing work schedule P-81, It-16(a)(i)</b></p>	6.000	341.00	Each	2046.00

			<b>970827.07</b>
G.S.T. @	18%		174748.87
Cost Of Civil Work			1145575.94
Add Labour Welfare Cess. @	1%		11455.76
Total Amount Including L.abour Welfare Cess.			1157031.70
Add Contingency @3%			34367.28
Total Amount Including L.W.C. and contingency			1191398.98
Say Rs.			<b>1191399.00</b>

Rupees Eleven Lakhs ninety one thousand three hundred ninety nine Only

*Kamru*  
21/8/25  
**Jr. Engineer**  
Birbhum Division  
M. E. Directorate  
Govt. of West Bengal

*Kalul Sahu*  
**Sub-Assistant Engineer**  
**(Civil)**  
Suri Municipality

*[Signature]*  
**Assistant Engineer**  
Suri Municipality

*[Signature]*  
**Chairman**  
Suri Municipality  
SURI, BIRBHUM



NAME OF WORK:- ESTIMATE FOR ELECTRICAL WORK OF SEATED PUBLIC/COMMUNITY TOILET AT KALI GATI GIRLS HIGH SCHOOL WARD NO -02 UNDER SURI MUNICIPALITY OF WEST BENGAL (MODEL - U L B) [ASPIRATIONAL PARAMETER]

\* As per PWD & I & WD schedule district charges will be applicable on PWD & I & WD schedule Items

\* No district charges will be applicable on non-schedule Items

Sl No.	Item Description	Unit	Quantity	Rate	Amount	Remarks
1	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall complete with 2 no. suitable size "Ph & N" copper bar incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. 175mmx100mmx65mm inspection box, making earthing attachment, painting the MS box and mending good the damages to original finish. [PWD Schedule Page No-E-14 Item No-2a]	Point	<del>19</del> 17	642.60	<del>12209.46</del> 10924.20	ADD DISTRICT CHARGES(5%)
	Average run 5 mtr					
2	Distribution wiring in 1.1 KV grade 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1.1 KV grade 1 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire as ECC, to SA 3 pin flush type plug socket & Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. painting the MS box and mending good the damages to original finish On Board (only for pay counter) [PWD Schedule Page No-E-15; I-4a]	Point	<del>4</del> 2	70.35	<del>281.40</del> 140.70	ADD DISTRICT CHARGES(5%)
3	Supplying and fixing 240V 32A Double Pole AC Type 30mA RCCB.(Complete Set) (ISI marked) (Make-Legrand) (Cat No 4113/95) [Legrand Page No-92]	Nos	1	5942.00	5942.00	NO DISTRICT CHARGES
4	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required 2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC [PWD Schedule Page No-E-14 Item No-1a(ii)]	mtr	18	124.95	2249.10	ADD DISTRICT CHARGES(5%)



5	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish Incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. <b>a) For (2+4 way) (Make -Havells)</b> [PWD Schedule Page No-D-9;Iteam No-13]	No	1	981.75	981.75	ADD DISTRICT CHARGES(5%)
6	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection 6-32A SP MCB (Make -Havells) [PWD Schedule Page No-D-6;Iteam No-7]	Nos	<del>6</del> 4	176.40	<del>1058.40</del> 705.60	ADD DISTRICT CHARGES(5%)
7	Supplying and fixing 240/415 V MCB Isolator on din rail of existing DBs and necessary connection. 40A DP MCB Isolator (Make -Havells) [PWD Schedule Page No-D-5;Iteam No-6]	Nos	1	218.40	218.40	ADD DISTRICT CHARGES(5%)
8	Supply of TMC501 conventional industrial batten (Phillips make) LED Tube,model no- TMC501 P1xT-LED 22W P3241 (WB I & WD schedule P-113, I- 5:3 F.22)	Nos	<del>6</del> 4	460.02	<del>2760.12</del> 1840.08	ADD DISTRICT CHARGES(2%)
9	Fixing only single/twin fluroscent light fitting complete with all accessories directly on wall/ceiling by screws etc.. [PWD Schedule Page No-C-2;Iteam No-14a]	Nos	<del>5</del> 4	90.30	<del>451.50</del> 361.20	ADD DISTRICT CHARGES(5%)
10	Supply & fixing Bulk head light fittings with die cast aluminium housing frosted/clear glass on wall/ceiling incl S/F 9 watt LED Lamp complete set. (Make - Havells) (PWD sch - Page--D-13, I-23)	Nos	6	682.95	4097.70	ADD DISTRICT CHARGES(5%)
11	Supply & fixing smart bright street light complete with all accessories to be fixed from the wall of building or on pole incl. making holes /providing clamping arrangement & necy. GI reducer as required.S&F 40 mm GI Pipe 1.5 mtr average length & s&f necy length of 1.5 sqmm pvc Insulated single core copper wire & making connections as required & mending good damages Incl wall paingting. (30 Watt) (Make - Bajaj) [WB I&WD sch P-111, I-f.9.0.2]	Nos	1	3076.32	3076.32	ADD DISTRICT CHARGES(2%)

12	Supply of 9" domestic metal exhaust fan 9" (225mm)SWEEP. TRANS AIR -  ( Make-Crompton/Havells/Bajaj) (UD & MA schedule P-14, I-5))	Nos	<del>6</del> 4	1863.00	<del>11178.00</del> 7452.00	NO DISTRICT CHARGES
13	Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter: 22.5 cm ( 9" )  [PWD Schedule Page No-C-4;Item No-28(b)]	Nos	<del>6</del> 4	259.35	<del>1556.10</del> 1037.40	ADD DISTRICT CHARGES(5%)
14	Fixing only louver shutter/cowl on wall with necy. bolts & nuts (6 mm dia x 62 mm long) For 22.5 cm(9") Exhaust fan  [PWD Schedule Page No-C-4;Item No-30(b)]	Nos	<del>3</del> 4	86.10	<del>258.30</del> 344.40	ADD DISTRICT CHARGES(5%)
15	Supply of 240V A.C Ceiling Fan ( 48" sweep,1200 mm complete) [Make-Crompton [ for counter only] (UD & MA schedule P- 23, I- 70)	Each	<del>1</del> 1	2283.00	<del>2283.00</del> 2283.00	NO DISTRICT CHARGES
16	Fixing only Ceiling Fan [PWD sch P- C-3, I-21(a)]	Each	<del>1</del> 1	69.30	<del>69.30</del> 69.30	ADD DISTRICT CHARGES(5%)
17	Supply & Fixing 240 V, 16/20 A Piano key type switch (Brand approved by EIC) on sheet metal switch board incl. S & F 100x100x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required. (For Hand Dryer machine) [PWD sch P- E-6, I-17(b)]	Each	<del>2</del> 2	211.05	<del>422.10</del> 422.10	ADD DISTRICT CHARGES(5%)

18	S/F 240V 25A Modular type starter (brand approved by EIC) with 25 A. Modular switch DP MCB (C-Curve) and 4 Module G.I. Modular type switch board with 4 Module Top Cover Plate flushed in wall Incl. S/F switch board and Cover Plate and making necy. Connections with PVC Copper wire and earth connectivity wire etc. as per schedule [for Pump] [PWD Schedule Page No-E-19, Item No-17] (Please follow in details)	Nos	1	823.20	823.20	ADD DISTRICT CHARGES(5%)
19	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/f LED tube light fittings along with all accessories. (16 sqft @495.00/sqft) (UD & MA schedule P-14, I-4)	Nos	1	7920.00	7920.00	NO DISTRICT CHARGES
20	Earthing installation by GI earth Spike (1830 X 20 mm) Including 8SWG GI EarthWire & GI nuts, bolts, washer etc.	Nos	1	450.00	450.00	NO DISTRICT CHARGES
<b>Total</b>					<del>58286.09</del>	<b>51338.45</b>
<b>Add 18% GST</b>					10491.50	<b>9240.92</b>
<b>Total With GST (A)</b>					68777.59	<b>60579.37</b>
<b>Cess@1%</b>					687.78	<b>605.79</b>
<b>Total</b>					69465.36	<b>61185.16</b>
<b>Contingency Amount on "A"</b>					2063.33	<b>1817.38</b>
<b>(Total+GST)=Rs:</b>					71528.69	<b>63002.54</b>
<b>Say Rs.</b>					<del>71529.00</del>	
<b>Rupees Seventy One Thousand Five Hundred Twenty Nine Only</b>						
<b>Service Connection Charges as Per Quotion</b>						

**Say Rs. 63,003.00**

*Rahul Saha*  
Sub-Assistant Engineer  
(Civil)  
Suri Municipality

*Assistant Engineer*  
Suri Municipality

*Chairman*  
Suri Municipality  
SURI, BIRBHUM

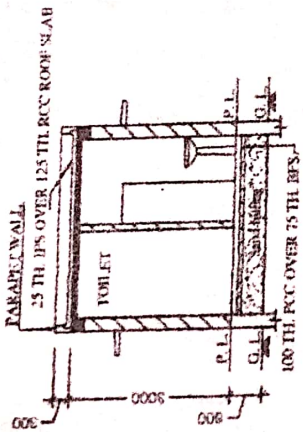
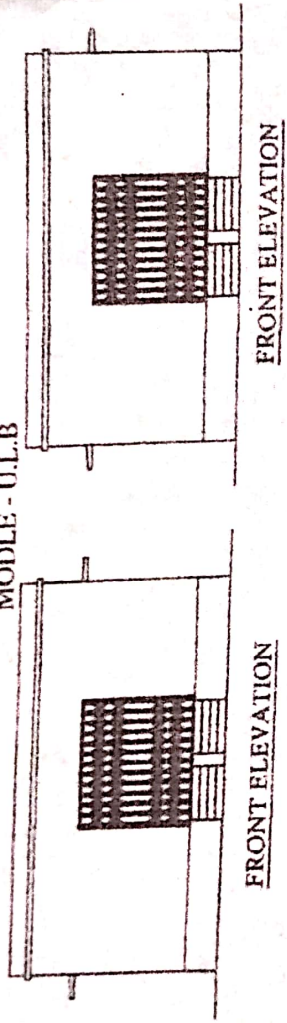
Technically Vetted Rs.: **63,003.00**  
(Rupees **Sixty Three Thousand Three only.**)

*11.09.25*  
Junior Engineer  
Electrical & Mechanical Division  
SUDA

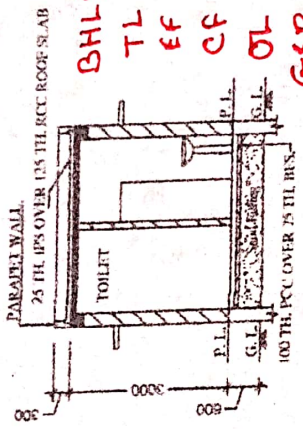
*11.9.25*  
ASSISTANT ENGINEER  
ELECTRICAL & MECHANICAL DIVISION  
SUDA

*11/9/25*  
Executive Engineer (E/M)  
O/O the Secretary M.E. Dte.  
Government of West Bengal

At Kaligati Girls High School Ward No-02, Toilet Seats -3 Nos, Urinal 3 nos  
 MODLE - U.L.B

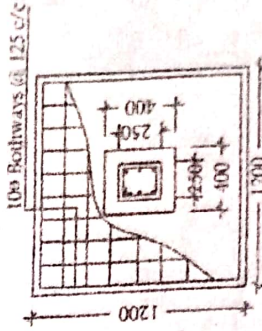
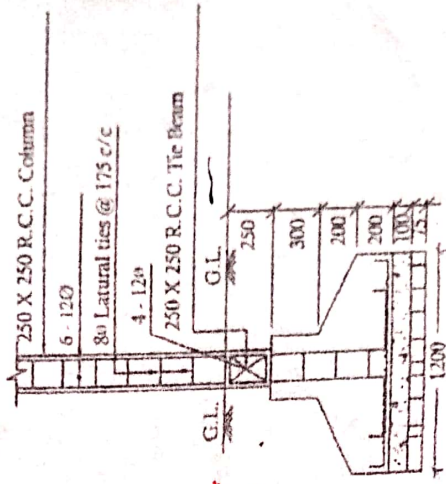


SECTION - E - E'



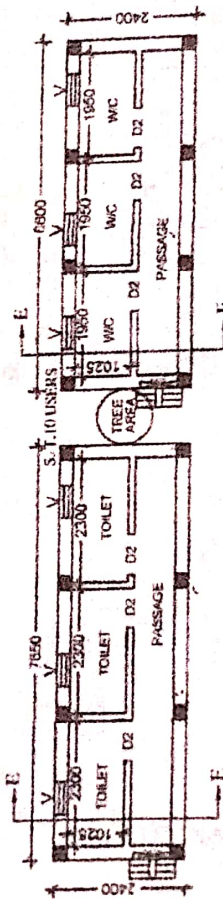
SECTION - E - E'

Details Of R.C.C Roof Slab & Beam  
 (SCALE - 1:20)



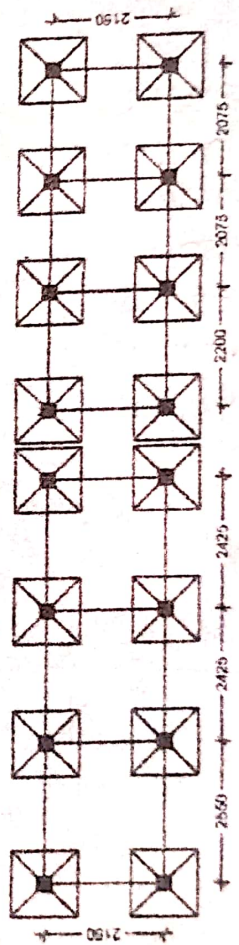
DETAILS OF R. C. C COLUMN  
 (SCALE 1:20)

BHLP → 06  
 TL → 04  
 EF → 04  
 CF → 05  
 OL → 05  
 GASB → 05  
 17 PPS



PLAN

PLAN



LAYOUT PLAN

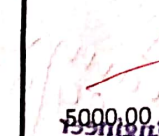
Rahul Saha  
 Sub-Assistant Engineer  
 (Civil)  
 Suri Municipality

*[Signature]*  
 Assistant Engineer  
 Suri Municipality

*[Signature]*  
 Chairman  
 Suri Municipality  
 SURI, BIRBHUM

**CONSTRUCTION OF TOILET BLOCK (CT/PT) TOILET AT OLD DANGAL PARA KALI GATI GIRLS SCHOOL  
WARD NO -02 UNDER SURI MUNICIPALITY OF WEST BENGAL (MODEL NO - U L B)  
TOILET SEAT- 2 NOS AND URINAL- 2 NOS, NON SCHEDULE ITEMS**

SL.NO	Item Description & Item No.	Quantity	Rate	Unit	Amount
1	Non Shedule Item Sl. No. 91-106 ( Order as per SUDA) standard plastic dustbin (12lits)	5	350	Each	1750.00
2	Sinage APC based & Reflective vinyl	5	3776	Each	18880.00
3	Supplying and fixing sinage with fixing stand post for public toilet for visible to passersby	5	1000	Each	5000.00
4	Glow Sign board Name and contact details of the following are displayed prominently - Toilet Identification number , name of ULB under which jurisdiction toilet is coverwd , ward number and maintainance authority prominently displayed for each toilet block supervisor, supervisor's agency and area sanitary inspector.	1	5000	Each	5000.00
5	Installation of Sinage	1	2071	Each	2071.00
6	Air freshner(pack of 4nos)	10	216	Each	2160.00
7	Air freshner (Napthaline 250 gm)	6	210	Each	1260.00
8	Supplying paper Napkin	10	50	Each	500.00
9	Supplying Sanitary Napkin ( Whisper or similar make 50 pcs )	5	520	Each	2600.00
10	Harpic (blue 500 ml)	6	300	Each	1800.00
11	Harpic (Red 500 ml)	6	150	Each	900.00
12	Gala double lip floor wiper	6	350	Each	2100.00
13	Colin glass or surface cleaner	5	200	Lit	1000.00
14	Muriatic Acid	5	145	Lit	725.00
15	Bleaching powder	5	120	Kg	600.00
16	Dettol ,lifeboy or similar make liquid soap	8	140	Lit	1120.00
17	Rubber hand gloves	6	80	Pair	480.00
18	Double side plastic brush	6	125	Each	750.00
19	Plastic Broom	4	170	Each	680.00
20	SMS/any other ICT based feedback system ( With number displayed on which SMS has to be sent )	1	5000	Each	5000.00
21	Mini Tulu Pump	1	4000	Each	4000.00
22	supplying roaster /register for keeping account of regular cleanig	3	200	Each	600.00

  
 M. E. Director  
 Division  
 Govt. of West Bengal

23	Lettering on Toilet Wall for display of name and contact details of ULB ward number and name of maintenance authority, saniinspector, etc.	1	1000	Each	1000.00
				<b>TOTAL RS</b>	<b>59976.00</b>
				<b>Add Contengency@ 3 %</b>	<b>1799.00</b>
				<b>GRAND TOTAL RS</b>	<b>61775.00</b>

**RUPEES SIXTY ONE THOUSAND SEVEN HUNDRED SEVENTY FIVE ONLY**

*Kamran*  
04/9/25  
**Jr. Engineer**  
Birbhum Division  
M. E. Directorate  
Govt. of West Bengal

**Rabul Saha**  
**SAE**  
Suri Municipality

May be Vetted  
*Sitanshu*  
08/09/25  
Assistant Engineer  
Birbhum Division  
Municipal Engineering Directorate  
Govt. of West Bengal

*[Signature]*  
**ASSISTANT ENGINEER**  
**SURI MUNICIPALITY**

**VE-TED**

*[Signature]*  
08/09/25  
**Executive Engineer**  
Birbhum Division  
M E Dte.  
Govt of W.B.

*[Signature]*  
**Chairman**  
Suri Municipality  
SURI, BIRBHUM