

**Estimate for construction of Public Toilet at Classic Natya samity in Ward 21 under Chakdaha Municipality  
Model- F (Toilet Seat - 2, Nos and Urinal - 3 Nos)**

**Rate As per PWD Building Works Schedule ( Volume 1) With effect from 01.11.2017**

**Civil Works**

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	7.770	119.27	Cu.m	926.73
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	77.54	%um	450.97
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	5.730	936.21	Cum	5364.48
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)	23.52	361.00	Sqm	8490.72
5	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20mm nominal size) excluding shuttering and reinforcement, if any, in ground floor PWD Building Works schedule, Page -23, Item -1.(b), ( Corri. Page- 09, Date-04-06-2018) Rate Analysis1 ( Corri. Page-01, Date-04-06-2018)	2.120	5425.29	m3	11501.61
6	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 , other manufacturer. PWD Building Works schedule, Page - 43, Item - 40.a.i.1( Corri. 10th Page-01, Date-23-01-2020) (Rate Analysis)	0.692	53604.44	M.T.	37094.27
7	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)	7.340	5917.81	Cum	43436.73

SL.NO	Item Description & Item No.	Quantity	Rate	Unit	Amount
8	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). <b>PWD Building Works schedule, Page -47, Item -1 (Rate Analysis)</b>	5.80	265.95	Sqm	1542.51
9	Supplying and laying polythine sheet ( 150 gm/sq.m ) over dampproof course or below flooring or roof terracing or foundation or foundation trenches. <b>PWD Building Works schedule, Page -47, Item-3</b>	13.73	24.00	Sq.M.	<del>908.88</del> 329.52
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) 36. (f) 25 mm to 30 mm shuttering without staging in foundation <b>PWD Building Works schedule, Page -43, Item- 36.f</b>	19.83	209.00	Sqm	4144.47
	36. (a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	40.79	335.00	Sqm	13664.65
11	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>	4.20	4330.00	Sqm	<del>14288.40</del> 18,186.00
12	Brick work with 1st class bricks in cement mortar (1:4) 7.(a) Foundation and plinth ground floor <b>PWD Building Works schedule, Page -15, Item-7.a (Rate Analysis)</b>	3.190	5368.05	Cu.m	17124.08
	7.(b) superstructure ground floor	8.70	5591.05	Cu.m	48642.14
13	125 mm brick work with 1st class bricks in cement mortar ( 1:4) in ground floor. <b>PWD Building Works schedule, Page -16, Item-16, cori page -3, date - 04.06.2018 (Rate Analysis)</b>	11.49	728.53	Sq.M.	<del>19668.69</del> 8370.81
14	Labour for Chipping of concrete surface before taking up Plastering work. <b>PWD Building Works schedule, P-192, It-1</b>	44.46	21.00	Sqm	933.66
15	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>	84.81	148.55	Sqm	<del>29325.76</del> 12598.52
	(ii) With 1:4 cement mortar thick plaster (c) 10 mm	10.23	130.55	Sqm	1335.53

SL.NO	Item Description & Item No.	Quantity	Rate	Unit	Amount
16	Neat cement punning about 1.5 mm thick in wall ,dado, window sills, floors etc . Note cement 0.152 m3/100 m2 PWD Building Works schedule, P-192, It-15	9.21	32.75	Sq.m	301.63
17	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 safisfy IS: 4020 door testing performance criteria.. (i) 66mm x 90mm PWD Building Works schedule, P-115, It - 3 (i)	10.20	497.00	Mtr	5069.40
18	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. ii) 25 mm thick PWD Building Works schedule, P-192, It-1	3.60	2581.00	Sqm	9291.60
19	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)	2.00	84.00	Each	<del>420.00</del> 168=00
20	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)	6.00	66.00	Each	<del>990.00</del> 396=00
21	Anodised aluminium decorative handle (hexagonal / fluted) of approed 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)	4.00	87.00	Each	<del>870.00</del> 348=00
22	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 -142 . Item no-10 b)	2.00	159.00	Each	<del>795.00</del> 318=00
23	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) PWD Building Works schedule, P-122 Item-22	3.00	9077.00	meter	27231.00
24	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	95.04	122.00	Sqm	11594.88
25	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two Coats PWD Building Works schedule, Page -196 , Item no- 10 .	<del>95.04</del> <del>29.50</del>	70.00	m2	<del>2065.00</del> 6652.80

SL.NO	Item Description & Item No.	Quantity	Rate	Unit	Amount
26	Applying exterior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Decorative Textured (Marrr 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. <b>PWD Building Works schedule, Page -196 , Item no- 8(b)</b>	61.58	45.10	m2	2777.26
27	Protective and Decorative Acrylic Exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied overf 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. <b>PWD Building Works schedule, Page -197 , Item no- 17(a)</b>	61.58	67.00	m2	4125.86
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. <b>PWD Building Works schedule, Page -200 . Item no- 1 (b)</b>	9.21	38.00	Sqm	349.98
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) (a) On timber or plastered surface : With super gloss (hi-gloss) - (iv) Two coats (with any shade except white) <b>PWD Building Works schedule, Page -200 . Item no- 2(A)(a)(iv)</b>	9.21	81.00	Sqm	746.01
30	Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS1038-1975 and manufactured from rolled steel sections conforming to IS7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete(1:2:4) with stone chips 20mm down cutting hole sand mending good damages to match with existing surface complete in all respect excluding glazing. b) Openable steel windows as per IS sizes with side hung shutters and horizontal glazing bars. [The extra rate admissible for the openable portion only] <b>PWD Building Works schedule, P-107 Item-20 (3rd Corri. Page-91, Date-04-06-2018 )</b>	2.900	1904.00	Sqm	5521.60
	(viii) M.S. integrated grill as per approved design integrated with steel window or ventilator, joints continuously welded with M.S. flats and bars	48.000	79.00	kg	3792.00
31	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987. iv) 5mm thick coloured / tinted / smoke glass. <b>PWD Building Works schedule, P-243, I -9</b>	2.56	585.00	Sq.M.	1497.60
32	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. <b>PWD Building Works schedule, P-107 Item-20(b)</b>	7.17	29.00	Sqm	207.93
33	(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) <b>PWD Building Works schedule, P-200 Item-2(b)(iv)</b>	7.17	79.00	Sqm	566.43

SL.NO	Item Description & Item No.	Quantity	Rate	Unit	Amount
34	Supplying and laying chequered tiles of any shade and of approved quality with (1:1.5:3) cement concrete laied 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) . <b>PWD Building Works schedule, P-74, It-46(i)</b>	4.00	471.00	sq.m	1884.00
35	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4nos. 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. (A) With Sand Cement Mortar (1:4) 20mm thick & 2mm thick cement slurry at back side of tiles using cement @ 2.91Kg/ Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. (i) Coloured decorative <b>PWD Building Works schedule, page-64, Item:35.(A.) (b).(i) (3rd Corrigendam ,Page 36)</b>	19.11	920.00	Sqm	17581.20
	B) Wall Area of each tile above 0.09 Sq.m Other than Coloured decorative including white ii)	48.95	1047.00	Sqm	51250.65
36	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. <b>PWD Building Works schedule, P-268, I-17(e)</b>	450.00	12.00	Each	5400.00
37	Maintananceof trees for one year(AvenuePlants) including watering, trimming, manuring, spraying insecticide and guardingasrequired.Thisincludessupplyoflabour, tools& plants including materials. <b>PWD Building Works schedule, Page -260, It- 8</b>	6.00	477.00	Each Per Year	2862.00
38	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 <b>PWD Building Works schedule, Page -261, It- 9</b>	6.00	162.00	Each	972.00
	x) Ficus blakii (F. Vivicon) well branched (Bushy) of height 120cm - 135 cm in earthen pot of size 30cm.	3.00	187.00	Each	561.00
	xxvi) Areca Palm 4 - 5 suckers of height 90 cm to 105 cm in earthen pots of size 25 cm.	3.00	127.00	Each	381.00
<b>SANITARY AND PLUMBING WORKS</b>					
39	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>	2.00	3104.00	Each	6208.00
40	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>	2.00	380.00	Each	760.00
41	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>	2.00	945.00	Each	1890.00