

# Bill of Quantity

Government of Bihar

URBAN DEVELOPMENT AND HOUSING DEPARTMENT

1180400

Amount of BOQ

Earnest Money

Time of Completion

Cost of BOQ(Non Refundable)

Date of Tender

Bid Processing Fee

योजना का नाम :- Revised estimate for Community Public Toilet (6+1) Near *Gola Ghata* at ward no-22 N.P. Dalsingh Sarai. *Rm*

Description of items

Qty

Unit

Rate

Amount

2.29 Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m

81.32

sqm.

13.55

1101.89

20.3A.1 Making 25 cm (10") dia bore up to 3 mtr depth below ground with hand auger of approved quality in ordinary soil (vide classification of soil item A) true to plumb and without eccentricity in any stage of operation ..... Do all complete

36.59

rm.

178.30

6524.00

2.8 Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m

2.8.1 All Kinds of soil wall

21.92

cum

360.70

7906.54

2.28 Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.

12.96

cum

287.30

3723.41

11.72 Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I

40.88

sqm

283.30

11581.30

4.1 Providing and laying in position cement concrete of specified grade excludng the cost of centring and shuttering-all work upto plinth level.

4.1.3 1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)

3.65

cum

3998.10

14593.07

5.1 Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work upto plinth level

5.1.3 1:1.5:3(1 cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)

Pile

4.99

cum

4688.30

23394.62

5.2 Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upt floor five level excluding cost of centring, shuttering, finishin and reinforcement.

5.2.1 1:1.5:3(1 cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)

1.87

cum

5670.00

10602.90

5.3 Reinforced cement concrete work in beams,suspended floors, roofs having slope upto 15, landings,balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excludingthe cost of centring, shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).

7.00

cum

5335.90

37351.30

5.9 Centring and shuttering including strutting,propping etc. and removal of form for

5.9.3 Suspended floors, roots, landings, balconies and access platform.  
Roof Slab

42.99

sqm

437.50

18808.13

5.9.5 Lintels, beams, plinth bams, griders, bressumers and contilever

14.82

sqm

494.40

7327.01

5.22 Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.

As per BIS

925.09

23.13

5.22.1 Mild steel 6 00 mm dia

kg

			Total=	23.13 kg	96.70	
b	S-22.7A	Thermo Mechanically Treated bars TMTC-500-8mm dia	=	346.90 kg		
			Total=	346.90 kg	94.50	32782.
c	S-22.7B	Thermo Mechanically Treated bars TMTC-500-10mm dia	=	185.02 kg		
			Total=	185.02 kg	92.60	17132.85
d	S-22.7C	Thermo Mechanically Treated bars TMTC-500-12mm dia	=	370.04 kg		
			Total=	370.04 kg	90.80	33599.63
12	6.1	Brick work with bricks of class designation 100A in foundations and plinth in				
	6.1.14A	Cement mortar 1:6 (1 cement: 6 coarse sand)				
13	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in foundations and plinth in :Cement mortar 1:6 (1 cement: 6 coarse sand) + Extra for Brick work in superstructure above plinth level upto floor V cum	=	11.64 cum	4819.90	56103.64
14	13.11	Cement plaster in course sand	=	16.25 cum	5662.10	92009.13
	13.11.4	1:6(1 cement: 6 coarse sand)				
15	13.17.2	12 mm cement plaster 1:4( 1 cement: 4coarse sand) finished with a floating coat of neat cement Details of cost for 10 sqm	Net Quantity =	174.20 sqm	141.50	24649.30
16	13.24	6 mm cement plaster to ceiling of mix :	=	49.12 sqm	192.20	9440.86
	13.24.2	1:4(1 cement: 4 coarse sand)				
17	13.80A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smoothcomplete.	=	29.71 sqm	125.60	3731.58
18	13.77	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade .	Total=	29.71 sqm	81.10	2409.48
	13.77.2	New work (two or more coats ) over and including priming coat with cement primer Qty VI No.16				
19	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:	=	29.71 sqm	102.30	3039.33
	13.78.1	Cement primer				
20	13.79	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade	=	0.00 sqm	38.60	0.00
	13.79.1	New work (three or more coats)				
21	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , rsers of steps and pointing in white cement mixed with pigment of matching shade complete.	=	0.00 sqm	81.20	0.00
22	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	=	210.64 sqm	795.00	167458.80
23	12.78	Providing and fixing on wall face unplasticised-PVC(workng pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion	=	23.61 sqm	686.80	16215.35
a	12.78.1	75 mm diameter				
b	12.78.2	110 mm diameter	Total=	28.05 mtr	162.70	4563.74
24	12.79	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.	Total=	36.59 rm	257.50	9421.93
a	12.79.1	Coupler				
i	12.79.1.1	75 mm				
ii	12.79.1.2	110 mm	Total=	10 Nos	79.80	798.00
b	12.79.1	Single tee without door	Total=	10 Nos	120.00	1200.00
i	12.79.1.1	75x75x75mm				
ii	12.79.1.2	110x110x110 mm	Total=	5 Nos	124.20	621.00



12.75.1	Band 75 mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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35	17.1	Providing and fixing water closet/squatting pan (flushing type W.C. pan) with 100 mm sand cast iron P or S trap. 10 litres low fixtures complete including cutting and making good the walls and level white P.V.C. flushing system, including flush pipe with manually controlled device (handle lever) conforming to IS-7241, with all fittings and floors wherever required.							
	17.1.1	White Vitreous china Onixa pattern W.C. pan of size 580x440 mm with integral type foot rests							
36	17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all as per direction of Engineer in charge.							
	17.7.9	White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps							
37	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.							
38	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.:							
	17.28.2	40 mm dia							
39	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.							
40	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.							
41	17.34	Providing and fixing toilet paper holder.:							
	17.34.1	C.P. brass							
42	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.							
43	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms							
44	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.							
a	18.8.1	15 mm nominal outer dia Pipes							
b	18.8.2	25 mm nominal outer dia Pipes							
45	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete							
a	18.18.1	15 mm nominal bore							
b	18.18.3	25 mm nominal bore							
46	18.21	Providing and fixing unplasticised PVC connection pipe with brass ions.:							
	18.21.2.1	15 mm nominal bore							
47	24.1.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (a) 0-90 m							
48	24.15.2	Providing and fixing Bail plug/ Bottom plug of 150 mm dia to the bottom of pipe assembly of tubewell as per IS:2800							
49	24.13.2	Providing and fixing Bail plug/ Bottom plug of 150 mm dia to the bottom of pipe assembly of tubewell as per IS: 2800							
50	24.14.2	Providing and fixing M.S. clamp of 150 mm dia to the top of casing/ housing pipe of tubewell							



24.11	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS : 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer in charge	Total =	6.00 mtr	354.90	2129.40
24.12	Development of tube well in accordance with IS : 2800 (part I) and IS : 11189, to establish maximum rate of usable water	Total =	1.00 Hrs	916.80	916.80
24.3.2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe (A) 150 MM DIA	Total =	50.00 mtr	660.10	33005.00
24.3.4	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe (B) 50 MM DIA	Total =	25.00 mtr	236.70	5917.50
1549.0	GI pipes 40 mm dia TATA MADE	Total =	22.00 mtr	290.00	6380.00
PHED	2 H.P Submersible pump of ISI mark with starter panel cable with fitting & fixing all required equipment.	Total =	1.00 L.S	20000.00	20000.00
18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Total =	1000.00 ltr	9.70	9700.00
18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS	Total =	6 Nos	434.20	2605.20
18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS	Total =	6 Nos	434.20	2605.20
18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS.8931	Total =	5 Nos	500.40	2502.00
18.53.1	15 mm nominal bore	Total =	16 Nos	45.20	723.20
18.58	Providing and fixing PTMT grating of approved quality and colour	Total =	10 Nos	198.50	1985.00
18.58.1.2	125 mm nominal dia with 25 mm waste hole	Total =	10 Nos	198.50	1985.00
18.75	Cutting holes up to 30x30 cm in walls including making good the same:	Total =	10 Nos	198.50	1985.00
18.76.1	With common burnt clay F.P.S. (non modular) bricks	Total =	10 Nos	198.50	1985.00
21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS : 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
21.1.1	For fixed portion				
21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)				
Bath room Door	7 x 2.50 x 7.00	Total =	122.50		
			122.50 sft		
		Total =	91.88 kg	386.10	35474.87
2631.0	Supply of 4 mm thick ACP	=	10.26 sqm	1100.00	11286.00
362.0	Supply of brick bat in soak pit	=	1.11 Cum	987.00	1095.57
			Total (A)		952249.38
67	Carriage cost of materials	Total =	14.09 cum	310.47	4374.46
		Total =	24.75 cum	1968.17	48704.38
		Total =	15.45 cum	2773.86	42865.99
		Total =	15861 Nos	919.21	14579.13
			Total (B)		110524.01
68	Basic cost of materials:	Total =	14.09 cum	111.85	1993.64
		Total =	24.75 cum	175.30	4350.35
		Total =	15.45 cum	535.36	9200.43
		Total =	15861 Nos	3060.30	40254.43

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S.Fee (10% of Basic cost of materials) total @

95803  
33

### Brick Stair & Ramp estimate

69	1/2.8	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m. including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m	0.66 cum	0.66 cum	360.70	239.39
70	2/2.2S	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	0.46 cum	0.46 cum	287.30	132.75
71	3/11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I	3.48837 sqm	3.488372 sqm	283.3	988.25
72	4/4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.				
	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	0.28313 cum	0.283126 cum	3998.1	1131.96
73	6.1A	Brick work with bricks of class designation 100A in foundations and				
	6.1.12/1	Cement mortar 1:4 (1 cement: 4 coarse sand )	1.32 cum	1.32 cum	5017.9	6623.01
74	S/13.11.2 +13.26	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand) with Neat cement punning.	4.04043 sqm	4.040428 sqm	193.4	781.42
					Total(D)	9896.78
11.20.3		Chequerred precast cement concrete tiles 22 mm thick with marbie chips of size 6 mm in footpath				
		Qty. vide item 74		4.040428 sqm	766.7	3097.80
					Amount (A+B+C+D+E)	1085348.35
					Internal Electrification Works (3%)	32560.45
					Add 5.357% of Total cost for Additional GST	58142.11
					Total Amount	1176050.91
					SCHEME SIGN BOARD	4500.00
					Grand Total Amount	1180550.91
					Say Total Amount	1180400.00

Rm  
07/10/25

Rm  
07/10/25

BoQ is approved for Rs. 1180400.00 (Eleven lacs eighty thousand four hundred)

SD  
07/10/25