

Detail Estimate For

Construction of Bathroom in Examination Control Room At

Sri GJ . College ,Bihta ,Bihar .

Detail Of Measurment

Total Amount Rs, 4,72,300=00

Rates of 01.01.2022 based on PWD RATES

S.L.	ITEM OF WORK	Unit	Quantity	Rate	Total Amount
1 Earth Work					
2.8	Earth work in excavation by mechanical means (Hydraulic Excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sum 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 directed, within a lead of 50 m.				
2.8.1	All kinds soil	m3		0.68	360.7
2					245.276
2.28	Supplying and filling in plinth with Ganga sand under floors including, watering, ramming consolidating and dressing complete.	m3		9.88	287.3
					2838.524
Concrete Work					
3					0
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				0
4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	m3		0.9	3998.1
4					3598.29
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :				0
4.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	m3		6.95	5670
					39406.5
Reinforced cement concrete					
5					
5.9	Centring and shuttering including strutting, propping etc. and removal of form for :				
5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	m2		4.46	211.6
					943.736



6					
5.14.2	wall (any thickness) including attached pilasters butterses,	sqm	0	375.1	
5.14.5	lintels beams, girders and cantilevers	m2	17.06	518.9	8852.434
5.14.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	m2	13.92	494.4	6882.048
5.14.3	suspended floors	m2	15.79	544.6	8599.234
5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding, all complete.	8mm	280	94.50	26460
	Thermo-Mechanically Treated bars.	10mm	210	92.6	19446
		12mm	190	90.80	17252
		16mm	0	91.7	0
	Brick work		680		0
6.1A	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				0
6.1.12A	Cement mortar 1:4(1 cement : 4 coarse sand)	m3	0	4819.9	0
6.3.a	Extra for brick work in superstructure above plinth level floor v cum	m3	0	842.2	0
6.18.4a	cement mortar 1:4 for half brick	m2	47.39	621.5	29452.885
6.3.1	Extra for haif brick work in superstructure above plinth level floor v cum	sqm	47.39	89.7	4250.883
6.21	Extra for proiding and placing in position 2 nos 6mm dia ms bars at every third course of half brick masonry.	sqm	47.39	113.6	5383.504
6.47a	providing 250mm wide brick drain in cement mortar 1:6 with av 150mm clear depth and 250mm apron including cost of e/w but excluding carrige cost of bricks sand and jhama metal.	m	0	1087.9	0
17					0



9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.	kg	45	144.5	6502.5
18	Flooring work				
11.72	Providing Designation 100A one Brick flat Solling Joints filled with local Sand including cost of watering taxes royalty all complete as per building specification and direction of E/I	m2	12.96	283.3	3671.568
19	Finishing work				
13.11	12 mm cement plaster of mix : 1:4 (1 cement : 4 fine sand)	m2	43.4	152.9	6635.86
13.12.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4(1 cement : 4 fine sand)	m2	46.7	176.4	8237.88
13.13	20 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement : 4 fine sand)	m2	0	209.9	0
13.24.1	6 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement : 4 fine sand)	m2	0	125.6	0
13.36.3	Extra for proding and mixing water proofing material in cement per bag of plaster work in proportion recommended by the manufacturers.	sqm	90.1	10.3	928.03
13.80.a.2	providing and applying plaster of jk wall putty of 2mm thick over plastered surface to pre pare the surface even and smooth complete.	m2	90.1	127.9	11523.79
13.82b	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				0
13.81.1	New Work (two or more coats)	m2	90.1	120.5	10857.05
13.81.1	Applying primer coat with ready mix pink on wooden surface of approved brand and manuf				



	acture on wooden work				
27		m2	0	39.7	0
13.81.3	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an even shade two more coats new work over wooden and steel work				
28		m2	20	116.5	2330
	Boring providing and installing cast in situ single under reamed piles of specified diametre and length below pile cap in cement concrete piles with mix 1:1.5:3 ——— to carry a safe working load not less than specified, excluding the cost of sttel reinforcement but— (length of pile for payment shall be measured up to the bottom of pile cap)				0
20.3.1	300 mm dia piles	m	18	2074	37332
29					0
20.4	Extra over item no 23.3 for boring providing and installing cast in situ double under reamed piles, instead of single under ream of specified dimeter and length (only the quantity of extra bulbs are to be paid)				0
30		nos	3	1458.8	4376.4
23.2.5	Making 25 cm (10") dia bore up to 4 mtr depth below ground with hand augar of———— approved design and direction of e/i.				0
31		m	0	167.5	0
23.2.6	63 cm (25) under reem making cm (25) dia under ream at required with hand augar or approved quality in ordinary soil ——— stage of operation and disposal of the excavation earth up to 50 mtr, lead in eluding all lifts all complete as per approved disign and direction of E/I	nos	0	178.8	0
32					
MR	Providing and fixing aluminium Work—				
i)	Door& Window Frame and fixed person Etc work				
	Completed Job.	sft	39	450	17550
ii)	shutter or all fittings works completed job.	sft	39	170	6630
33					
10.4	providing and fixing 1mm M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS Gusset plates at the steel primer	sqm	2.6	4279.9	11127.74
34					



	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				0
17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	each	1	4470.9	4470.9
35					0
	Providing and fixing vitreous china pedestal type water closet (European type) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				0
17.3.1	W.C. pan with ISI Marked white solid plastic seat .	each	0	5504.3	0
36					0
17.5	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				0
17.5.1	single half urinal basins with 5 litre white P.V.C. automatic flushing cistern.	each	2	6469	12938
37					0
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				0
17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	each	2	2764.4	5528.8
38					0
	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				0
17.28	32 mm dia	each	4	91	364
39					0
	Providing and fixing cp brass bib cock of approved quality :				0
18.5	15 mm nominal bore	each	5	715.1	3575.5
40					0
	Providing and fixing cp brass stop cock of approved quality :				0
18.52	15 mm nominal bore	each	5	594.8	2974
41					
	Providing and fixing cpvc pipes complete with . fittings and clamps, including cutting and making good the walls etc. Internal work -				



Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall.					
18.8.1	15 mm dia nominal bore	meter	36.58	278.2	10176.556
18.8.2	20 mm dia nominal bore	meter	5.93	350.8	2080.244
	25 mm dia nominal bore	meter	20.24	463.1	9373.144
	32 mm dia nominal bore	meter	5.23	549.8	2875.454
	40mm	meter	0	477.6	0
	50mm	meter	0	730.3	0
42	making connetion of distribution branch with Main of following size by providing and fixing tee, including cutting and threading the pipe etc complete				
18.13.1)	25mm to 40mm nominal bore	nos	5	446.7	2233.5
43	Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes				0
12.78	110mm diameter	meter	42.23	257.5	10874.225
44	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				0
12.79	Single tee with door	nos	6	193.4	1160.4
	110 coupler	nos	7	120	840
	110 mm bend	nos	8	132	1056
	110mm shoe plain	nos	8	115.95	927.6
	single pushfit coupler	nos	6	374.6	2247.6
	single tee with out door	nos	7	193.4	1353.8
45					0
12.8	110mm pvc clip	nos	8	182.72	1461.76
46	providing & fixing Water Tank 3 layer ISI PVC Water Tank completed job	lit	0	14.2	0
47	providing & fixing Water tank basment & line conecation etc work completed job	job	0	9560	0
48					0
17.32.4	providing and fixing wall hang Decorided Mirror completed job	each	1	1515.2	1515.2



49	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.				
11.41	Size of Tile 60x60 cm				
50		m2	12.96	1638.8	21238.848
					0
11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sum including pointing in white cement mixed with pigment of matching shade complete.				
	bath room				0
51		m2	43.58	795	34646.1
	S.R extra carriage of material				0
a	local sand				0
b	stone sand	m3	9.88	310.47	3067.4436
c	stone chips	m3	6.34	1031.54	6539.9636
d	bricks	m3	5.56	3831.18	21301.3608
	Cement	nos	3290	1140.59 %0	3750
52		bag	90	25.9	2331
	S.R extra cost difference of material of ..				0
a	bricks	nos	3290	1606.89%0	5264
b	Cement	bag	90	13.27	1194.3
					478673.831
	Total amount				Rs, 4,78,700=00

Note:- Excalation for increase labour cost & Govt. Material Cost.

Analysis Of Rate Estimate Schedule Of Rate 01.01.2022 Govt. Of Bihar Building Const. Dep.



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Rushu
19.10.22
Sr. Engineer
P.P.V. Patna

[Signature]
19/10/22
University Engineer
Patliputra University
Patna