

BILL OF QUANTITY**NIT-04/2026-27****GR-04**

**Model Estimate for 250 HH water Supply Scheme Detailed
Estimate for construction of RCC Staging 4.0Mx3.0Mx8.0M
Hiigh Infront of Dhannajay Yadav in ward no 31 Nagar Parishad
Gogri jamalpur for the year 2026-27**

Estimated Cost :	Rs	3210385.00
Cost of BOQ :	Rs	5000.00
Earnest Money :	Rs	64203.00
Time of Completion :	Three Months	

General Abstract of Cost

S. N.	Particulars	Qty.	Unit	Rate	Amount
1	Construction of RCC Staging	1	Each	725232	725232.00
2	High Yielding Tubewell				
	Cost for construction of 200mm x 150mm x 150m deep high yielding drilled tube well all complete as per direction of E/I. as per Sub estimate 1	1	Each	339000.00	339000.00
3	Pump motor				
	Supplying installation Testing and commissioning of 7.5 HP Submersible pump and motor having discharge 8.74 lps against a total head of 35m including three phase connection with service wire extension of L.T line (0.3Km) & suitable dia GI medium class column pipe, suitable dia N/R Valve, suitable dia flange, submersible flat cable, LT connection from control panel to starter etc all complete with floor mounted outdoor type L.T feeder pillar, three phase starter entroll pannel operated on 440 V, 3 phase, 50 c/s made of MS sheet (minimum 2 mm thick) duly spray power coated painting with all accessories as per direction of E/I as per Sub estimate 2	1	Each	120000.00	120000.00
4	Distribution Network				
	Providing laying and jointing distribution pipes as per IS specifications from 63 mm dia to 160 mm dia HDPE pipe for distribution net works etc all complete as per direction of E/I. Total length of Pipe- 4950 m. as per Sub estimate 3	1	Each	351000.00	351000.00
5	House service connection				
	House service connection with 15mm dia CPVC/MDPE pipe including fitting and fixing specials such as ferrule, stop cock, bib cock etc all complete. as per Sub estimate 4	450	Each	1674.00	753300.00
6	quality measure -supplying and installation of quality measure instrument such as iorn removal plant etc all required as per direction of E/I .	1	Each	630000.00	630000.00
	Total				2918532.00
	Add 2% Year 5 Year Maint				291853.00
				Say	3210385.00



Model Estimate for 500 HH Water Supply Scheme
Detailed Estimate for Construction of R.C.C Staging 4.0M x 3.0M x 8.0M High From
Infront House of Dhananjay Yadav in Ward No- 31 Nagar Parishad Gogri Jamalpur.
for the year 2026-27.

General Abstract of Cost

S. N.	Particulars	Qty.	Unit	Rate	Amount
1	Estimate Construction of RCC Staging	1	Each	725232.00	725232.00
2	High Yielding Tubewell				
	Cost for construction of 200mm x 150mm x 150m deep high yielding drilled tube well all complete as per direction of E/I. as per Sub Estimate 1	1	Each	339000.00	339000.00
3	Pump Motor				
	Supplying installation Testing and commissioning of 7.5 HP Submersible pump and motor having discharge 8.74 lps against a total head of 35m including three phase connection with service wire extension of LT line (0.3Km) & suitable dia GI medium class column pipe, suitable dia N/R Valve, suitable dia flange, submersible flat cable, LT connection from control panel to starter etc all complete with floor mounted outdoor type L.T feeder pillar, three phase starter cntroll pannel operated on 440 V, 3 phase, 50 c/s made of MS sheet (minimum 2 mm thick) duly spray power coated painting with all accessories as per direction of E/I as per Sub estimate 2	1	Each	120000.00	120000.00
3	Distribution Network				
	Providing laying and jointing distribution pipes as per IS specifications from 63 mm dia to 160 mm dia HDPE pipe for distribution net works etc all complete as per direction of E/I. Total length of Pipe- 4950 m. as per Sub estimate 3	1	Each	351000.00	351000.00
4	House service connection				
	House service connection with 15mm dia CPVC/MDPE pipe including fitting and fixing specials such as ferrule, stop cock, bib cock etc all complete. as per Sub estimate 4	450	Each	1674.00	753300.00
5	quality measure -supplying and installation of quality measure instrument such as iorn removal plant etc all required as per direction of E/I .	1	Each	630000.00	630000.00
	Total				2918532.00
	Add 2%/Year 5 Year Mainten.				291853.20
	Contingency @ 1.0%				29185.32
	Grand Total				3239570.52
				Say	3240000.00

Note:

1. The length of distribution pipe may decrease or increase as per actual site condition. The carriage of materials is based on Patna town. It may decrease or increase as per the actual distance. The carriage may be calculated as per attached sheet. Road cutting cost may increase or decrease as per actuals. The technical sanction may be accorded after above cosideration.
2. Strongly advised that pipeline should be laid before construction of Naali-Gali
3. This is a particular estimate, should not be unversly adopted.

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*Technically Sanctioned for Rs 3240000.00 (Thirty two lakh
 forty thousand only).*

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Estimate 1

Estimate for construction of 200mm x 150mm x 150m Deep High Yeild Tubewell

S.No.	Description	QTY	Unit	New Rate	New Amount
1	Providing all materials, labour and equipment for drilling by Reverse Rotary rig Machine for following dia of bore hole in all kind of soil mixed with Kankar, sand stone including providing sample box and collection starta sample at every 3.0M depth of drilling for ascertaining proper aquifer for completing High Yielding Tube Well all complete as per IS:2800-1979 & PHED specification and direction of E/I				
24.1.1.2	(a) 400mm dia bore from G.L to 30.0m below GL.	30	PM	544.20	16326.00
24.1.1.1	(b) 350mm dia bore from 30.0m to 90.0m and beyond Below GL.	60	PM	425.10	25506.00
24.2.1.2	(c) 350mm dia bore from 90.0m to 160.0m and beyond Below GL.	70	PM	526.60	36862.00
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	(a)200mm x 5mm thick pipe ISI mark.	30	PM	921.70	27651.00
	(b)150mm x 5mm thick pipe ISI mark.	90	PM	615.30	55377.00
3	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.				
24.4.2	150 mm dia and 1 mm slot.	30	PM	566.70	17001.00
4	Providing all tools and labour including supplying fitting & fixing the following accessories for aforesaid 150mm x 100mm T/W as per direction of E/I.				
LS	(i) 200mm x 150mm dia M.S Reducer	1	Each	500.00	500.00
LS	(ii)200mm dia M.S well cap.	1	Each	260.00	260.00
24.15.1	(iii)150mm dia M.S well shoe plug	1	Each	248.60	248.60
LS	(iv)Centre guide suitable for 200mm dia pipe	3	Each	150.00	450.00
LS	(v)Centre guide suitable for 150mm dia pipe	8	Each	100.00	800.00
24.14.2	(vi)MS clamp set 200mm	1	P.Pair	1349.70	1349.70





No.	Description	QTY	Unit	New Rate	New Amount
5A/24.8	Providing all materials, labour and tools for providing and placing around tube well double washed pea gravel confirming to IS:8419-1977 of size 4mm to 8mm from dalbhumgarh of east singhbhum (JH) inclusive of loading, carriage, unloading & stacking in proper shape for measurement at site. (Stock measurement of clean and washed gravel shall be taken 13" as 12" in height to count void) as per direction of E/I.				
		12	PM ³	1225.10	14701.20
5B	Carriage of pea Gravel from Dhalbhumgarh (taken av distance 500km.)	12	PM ³	8830.31	105963.74
6	Development of tube well in accordance with IS: 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory i/e disinfection of tubewell, all complete including hire & labour charges of air compressor, tools & accessories etc. all as per requirement and direction of Engineer-in-charge.				
		20	Per Hr	649.40	12988.00
7	Transportation and erection of drilling plants, developing equipments & all other required tools and M/C by and suitable mechanical means including all cost of loading, unloading, placing at work site and back after completion of work as per S/D of E/I.				
		1	Each	3000.00	3000.00
8	Supplying all materials and labours for arrangement for additional water required during the drilling period for 70 Hrs & site clearance & levelling etc and providing the soap duster etc to staff engaged in drilling etc all complete work as per specification & direction of E/I.				
		1	Each	20000.00	20000.00
9	Chemical and bacteriological testing of water sample including the cost of collection, carrying to designated PHE/other laboratories and submission of report in triplicate as per direction of E/I.				
		1	Each	500.00	500.00
Total-					339484
Say Grand Total					339000

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Installation of Pump & Motor with Panel

S.No.	Description	QTY	Unit	New Rate	New Amount
1	Supplying installation Testing and commissioning of 7.5 HP Submersible pump and motor having discharge 8.74 lps against a total head of 35m including three phase connection with service wire extension of LT line (0.3Km) & suitable dia GI medium class column pipe, suitable dia N/R Valve, suitable dia flange, submersible flat cable, LT connection from control panel to starter etc all complete with floor mounted outdoor type L.T feeder pillar, three phase starter cntroll pannel operated on 440 V, 3 phase, 50 c/s made of MS sheet (minimum 2 mm thick) duly spray power coated painting with all accessories as per direction of E/I				
		1	Each	120000.00	120000.00
	Total :				120000.00

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Sub- Estimate 3

Water Supply Distribution System

S.No.	Description	Qty	Unit	New Rate	New Amount
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.			1	
	63mm	150.0	0.46	0.5	34.725
	90mm	80.0	0.49	1.0	39.2
	5 % extra			3.7	
	Total-	77.6	PM ³	360.70	27997.98
2/2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead				
	90% of item no 1	69.9	PM ³	123.00	8592.67
3	Providing and supplying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984, ISO - 4427 DIN-8074 and various grades like PE-63, PE-80, PE-100 and newly invented PE 100+ materials				
	HDPE pipe of materials grade PE100- PN 10 (dia in mm)				
	63 mm dia	150.0	PM	142.74	21411.00
	90 mm dia	80.0	PM	293.01	23440.80
4	Supplying labours and tools for lowering in trenches, laying and jointing H.D.P.E. pipes in trenches and making butt welded joint, supplying heating mirror, jack etc. including hydraulic testing and providing night guard, barrier and red light to safe guard against accident, all complete as per specification and direction of E/I				
	HDPE pipe of materials grade PE100- PN10 (dia in mm)				
	63 mm dia	150.0	PM	23.96	3594.00
	90 mm dia	80.0	PM	43.57	3485.60
5	Providing all materials labours tools and tackles for fitting, jointing and testing to HDPE Standard specials confirming to IS specifications etc all complete.				
	10% of item No-3				4485.18

S.No.	Description	Qty	Unit	New Rate	New Amount
6/ 18.31	Providing and fixing CI Sluice valves (with cap) Complete with bolts, nuts, rubber insertions etc.				
18.31.1.2	100mm dia Class II	1	Each	3925.10	3925.10
18.31.3.2	150mm dia Class II	1	Each	5743.50	5743.50
7/ 18.59	Providing and fixing CI double acting air valve of approved quality and bolts, nuts, rubber insertion etc. complete				
18.59.2	80mm dia	1	Each	5942.00	5942.00
8/ 18.35	Constructing masonry chamber 120 x 120 x 100cm inside in brick work in cement mortar 1:4 (1 Cement:4 coarse sand) for sluice valve, with CI Surface box 100mm top diameter, 160mm bottom diameter and 180mm deep (inside)with chained lid and RCC top slab 1:2:4 mix (1 Cement :2 Coarse sand: 4 graded stone aggregate 20mm nominal size), I/C necessary excavation foundation concrete 1:5:10 (1 Cement:5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 Cement:3 Coars sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design.				
		2	Each	17118.70	34237.40
9/ 18.36	Constructing masonry chamber 60 x 60 x 75cm inside in brick work in cement mortar 1:4 (1 Cement:4 coarse sand) for sluice valve, with CI Surface box 350x350mm top, 165mm bottom diameter and 180mm deep (inside)with chained lid and RCC top slab 1:2:4 mix (1 Cement :2 Coarse sand: 4 graded stone aggregate 20mm nominal size), I/C necessary excavation foundation concrete 1:5:10 (1 Cement:5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 Cement:3 Coars sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design.				
		1	Each	6794.00	6794.00
Road cutting and restoration					
10/ 15.24	Dismantling brick on edge soling in road including stacking serviceable materials in countable stacks within 15m lead and disposal of unserviceable materials with all leads etc all complete as per direction of E/I.				
	63mm dia	15	0.46	0.125	0.87
	90 mm dia	8	0.49	0.125	0.49
	Total-	1.36	PM ³	446.10	605.86

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S.No.	Description				Qty	Unit	New Rate	New Amount
11/ 11.73	Providing designation 100A one brick on edge soiling joints filled with local sand including cost of watering, taxes, royalty etc all complete as per building specification and direction of E/I.							
	63mm dia	15	0.46		6.95			
	90 mm dia	8	0.49		3.92			
	Total-				10.87	PM ²	512.94	5573.09
	Deduction for 80% Brick which are taken out during dismantling work will be reused				0.53	P1000	-7019.25	-3738.77
12/ 15.2.1	Demolishing Cement concrete manually or by mechanical means including disposal of materials within 50m lead as per direction of E/I.							
	63mm dia	150	0.46	0.25	17.36			
	90 mm dia	80	0.49	0.25	9.80			
	Total-				27.16	PM ³	807.20	21925.57
13/ 4.5.2	Providing and laying in position cement concrete 1:2:4(1cement:2coarse sand:4 graded stone chips 20mm nomina size)etc. all complete as per standard specification and direction of E/I.							
	Quantity as per item no.13				27.16	P.M ³	4946.80	134367.46
14/ 2.28	Providing local clean sand in filling in foundation trenches and in plinth including ramming and water in layers not exceeding 150mm thick with all leads and lifts including cost of all materials labours royalty and taxes all complete as per building specification and direction of E/I.							
	63mm dia	150	0.46	0.15	10.42			
	90 mm dia	80	0.49	0.15	5.88			
	Total-				16.30	PM ³	500.65	8159.34
15/ 11.72	Providing designation 100A brick one brick flat soiling joints filled with local sand and as per direction of E/I.							
	63mm dia	150	0.46		69.45			
	90 mm dia	80	0.49		39.20			
	Total-				108.65	PM ²	320.61	34834.28
	Total							351376.06
	Say Grand Total							351000.00

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Sub- Estimate 4					
House to House Service connection					
S.N.	Particulars	Quantity	Unit	New Rate	New Amount
1A/ 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.				
	For Pipe Laying (6 m X .3 m X 0.6m deep)	1.08	PM ³	319.60	345.17
1B/2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidation each deposited layer by ramming and watering lead.	1.06	PM ³	103.30	109.50
2/ PHED	Providing and fixing MDPE pipe (PE80) confirming IS: 15801/2008 and ISO 4427 with latest amendment PN12.5 (OD 20mm) (Basic Rate Rs.14.98 witout CP,OH and LC)	6	P/M	19.97	119.82
3/ PHED	Lowering, laying and jointing M.D.P.E. pipes in proper position including all specials by compression fitting/electrofusion and butt fusion jointing procedure including hydraulic testing as per relevant IS code complete with all materials for jointing procedures like Electrofusion machine, Electric mirror/heater, Butt fusion welding machine with hydraulic jack, top loading clamp, etc, pump and accessories for hydraqulic testing and all labour as directed by Engineer-incharge as per IS-7634 Part II 2012 (amended up to date) Including Contractor's profit & Over head, water charge, labour cess but excluding trenching & refilling, road cutting and restoration the same.				
	20mm dia	6	P/M	3.03	18.18
4/ 18.7.1	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work (Exposed on wall) 15 mm nominal outer dia pipes.	1	P/M	128.60	128.60
5/ 18.20.1	Providing and fixing 15 mm brass ferrule with CI mouth cover including boring and tapping the main etc. all complete job.	1	Each	271.40	271.40
6/ LS	Providing and fixing HDPE electrfusion service saddle including all complete job as per direction of E/I.	1	Each	400.00	400.00
7/ 18.15.1	Providing and fixing brass bib cock of approved quality 15 mm nominal bore	1	Each	280.90	280.90
	Total :				1673.57
	Say Rs.:				1674.00

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Detailed Estimate for Construction of R.C.C Satging 4.0M x 3.0M x 8.0M High From Infront House of Dhananjay Yadav in Ward No- 31 Nagar Parishad Gogri Jamalpur. for the year 2026-27.

ABSTRACT OF COST	
	Amount in Rs.
Cost of Estimate of R.C.C Satging (8.0 m Length)	725256.00
Total Rs.	7,25,256.00
Say Rs.	7,25,300/-

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Technically Sanctioned for Rs. 725300.00 (Seven Lakh
twentyfive thousand three hundred Rupees) only

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Detailed Estimate for Construction of R.C.C Satging 4.0M x 3.0M x 8.0M High From Infront House of Dhananjay Yadav in Ward No- 31 Nagar Parishad Gogri Jamalpur. for the year 2026-27.

Sl. no.	SR Refere nce	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
1A	B.C.D 2.8.1	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. All Kinds of soil								
		4x1.95x1.95x1.35	4	1.95	1.95	1.35	20.53	P/M		
		2x2.30x0.25x0.25	2	2.3	0.25	0.25	0.29	P/M		
		2x1.30x0.25x0.25	2	1.3	0.25	0.25	0.16	P/M		
		1x1.0x1.0x0.575	1	1	1.00	0.58	0.58	P/M		
		1x1.20x0.90x0.275	1	1.2	0.90	0.28	0.30	P/M		
						Total=	21.86	P/M	360.70	7885.00
1B	B.C.D 2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead								
							10.27	P/M	123.90	1,272.00
2	B.C.D 2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.								
		Steps-1x1.20x0.90x0.10	1.00	1.20	0.90	0.10	0.11	P/M		
		In Foundation of column								
		4x1.95x1.95x0.10	4	1.95	1.95	0.10	1.52	P/M		
		Under tie beam at G.L								
		1x1.0x1.0x0.10	1	1	1.00	0.10	0.10	P/M		
		Under tie beam at G.L								
		2x3.95x0.25x0.10	2	3.95	0.25	0.10	0.20	P/M		
		2x2.95x0.25x0.10	2	2.95	0.25	0.10	0.15	P/M		
		In Plinth								
		1x4.00x3.00x0.28	1	4	3.00	0.28	3.36	P/M		
						Total=	5.440	P/M	287.30	1,563.00
3A	B.C.D 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,								
		Steps-	1	1.20	0.90		1.08	P/M		
		In Fundation of Column	4	1.95	1.95		15.21	P/M		
		In Ladder Fixing block at GL	1	1.00	1.00		1.00	P/M		
		Under tie beam at G.L	2	3.95	0.25		1.98	P/M		
			2	2.95	0.25		1.48	P/M		
		In Plinth-	1	4.00	3.00		12.00	P/M		
						Total=	32.75	P/M	283.30	9,278.00
									Total Rs.	19998.00

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Sl. no.	SR Refere nce	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
								B.F. Rs.	19998.00	
3B	B.C.D 4.1.3	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)								
		Steps-	1	1.20	0.90	0.10	0.11	P/M		
		In Fundation of Column	4	1.95	1.95	0.075	1.14	P/M		
		In Ladder Fixing block at GL	1	1.00	1.00	0.40	0.40	P/M		
		Under tie beam at G.L	2	3.95	0.25	0.10	0.20	P/M		
			2	2.95	0.25	0.10	0.15	P/M		
		In Plinth-	1	4.00	3.00	0.10	1.20	P/M		
						Total=	3.20	P/M	3998.10	12,794.00
4A	B.C.D 5.1.2	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work puto plinth level								
		In Fundation of Column	4	1.80	1.80	0.30	3.89	P/M		
			4	0.45	0.45	0.150	0.12	P/M		
			4	0.30	0.30	0.65	0.23	P/M		
		In tie beam at G.L	2	3.95	0.25	0.35	0.69	P/M		
			2	2.95	0.25	0.35	0.52	P/M		
							5.45	P/M	4688.30	25,551.00
4B	B.C.D 5.9.5	Providing Centring and shuttering including strutting, propping etc. and removal of form for. Foundations, footings, bases of columns etc. for mass concrete.								
		In Fundation of Column	16	1.80	0.30		8.64	P/M		
			16	0.45	0.15		1.08	P/M		
			16	0.30	0.65		3.12	P/M		
		In tie beam at G.L	4	3.95	0.35		5.53	P/M		
			4	2.95	0.35		4.13	P/M		
						Total=	22.50	P/M	404.70	9,106.00
5	B.C.D 6.1.14 A	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:6 (1 cement: 6 coarse sand)								
		Long Wall -	2	3.95	0.25	0.15	0.296	P/M		
		Short Wall-	2	2.95	0.25	0.15	0.221	P/M		
		In Steps-	1	1.20	0.90	0.15	0.162	P/M		
			1	1.20	0.60	0.15	0.108	P/M		
			1	1.20	0.30	0.15	0.054	P/M		
						Total=	0.841	P/M	4819.90	4,054.00
								Total Rs.	71503.00	

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Sl. no.	SR Refere	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
									B.F. Rs.	71503.00
6A	B.C.D 5.1.2	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 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)								
		In Column up to PL	4	0.30	0.30	0.45	0.162	P/M		
		In Band at Plinth-	2	3.95	0.25	0.075	0.148	P/M		
			2	2.95	0.25	0.075	0.111	P/M		
						Total=	0.421	P/M	4688.30	1,974.00
6B	B.C.D 4.12	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.								
		107 kg/per 50kg cemet					2.14	P/M	57.16	122.00
6C	B.C.D 5.9.5	Providing Centring and shuttering including strutting, propping etc. and removal of form for. Foundations, footings, bases of columns etc. for mass concrete. Lintels, beams, plinth beams etc.								
		In Column up to PL	16	0.30	0.45		2.16	P/M		
		In Band at Plinth-	4	3.95	0.075		1.185	P/M		
			4	2.95	0.075		0.885	P/M		
							4.23	P/M	404.70	1,712.00
7A	B.C.D 5.2.2	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. 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)								
		In band at Lintels level	2	1.50	0.25	0.10	0.075	P/M		
		In beam B1, B2	2	4.50	0.25	0.20	0.450	P/M		
			2	3.00	0.25	0.20	0.300	P/M		
		In beam B3, B4	2	4.50	0.25	0.30	0.675	P/M		
			2	3.00	0.25	0.30	0.450	P/M		
		In beam B5, B6	2	5.00	0.25	0.25	0.625	P/M		
			2	3.00	0.25	0.25	0.375	P/M		
		In Column up to PL to roof level	4	0.30	0.30	8.00	2.880	P/M		
		For parapet post-	8	0.125	0.125	0.85	0.106	P/M		
						Total=	5.936	P/M	5670.00	33,657.00
									Total Rs.	108968.00

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Sl. no.	SR Refere	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
								B.F. Rs.		108968.00
7B	B.C.D 5.9.5	Providing Centring and shuttering including strutting, propping etc. and removal of form for. Foundations, footings, bases of columns etc. for mass concrete. Lintels, beams, plinth beams etc.								
		In Column up to roof level	16	0.30	8.00		38.40	P/M		
		In Beams	4	4.00	0.20		3.20	P/M		
			4	3.00	0.20		2.40	P/M		
			6	4.50	0.30		8.10	P/M		
			6	3.50	0.30		6.30	P/M		
			6	5.00	0.25		7.50	P/M		
			6	3.50	0.25		5.25	P/M		
		In band at Lintel -	4	1.50	0.10		0.60	P/M		
		For parapet post-	32	0.125	0.85		3.40	P/M		
						Total=	75.15	P/M	404.70	30,413.00
8A	B.C.D 5.3	Reinforced cement concrete work in beams,suspended floors, roofs having slope upto 15, landings,balconiec, 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).								
		Chajja -	2	1.10	0.45	0.063	0.062	P/M		
		In Shelves	4	1.05	0.45	0.063	0.119	P/M		
						Total=	0.181	P/M	5335.9	966.00
8B	B.C.D 5.9.3	Providing Centring and shuttering including strutting, propping etc. and removal of form for. Suspended floors, roots, landings, balcnies and access platform.								
		Chajja -	2	1.10	0.45		0.99	P/M		
			2	1.10	0.500		1.100	P/M		
			4	0.45	0.063		0.113	P/M		
							2.203	P/M	437.50	964.00
9	B.C.D 6.1.14 A+6.3 A	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								
			2	3.95	0.25	2.70	5.333	P/M		
			2	2.95	0.250	2.70	3.983	P/M		
		In Shelves	2	0.20	0.125	2.10	0.105	P/M		
						Total=	9.421	P/M		
		Deduct for Door	1	0.90	0.250	2.10	-0.473	P/M		
		For Window	1	0.90	0.250	1.20	-0.270	P/M		
						Total=	8.678	P/M	5662.10	49,136.00
								Total Rs.		190447.00

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Sl. no.	SR Refere	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
									B.F. Rs.	190447.00
10A	B.C.D 5.2.2	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. 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)								
		Roof Slab-	1	5.00	3.50	0.15	2.625	P/M		
			1	4.70	3.70	0.10	1.739	P/M		
		Landing -	3	0.60	0.60	0.15	0.162	P/M		
						Total=	4.526	P/M	5670.00	25,662.00
10B	B.C.D 5.9.3	Providing Centring and shuttering including strutting, propping etc. and removal of form for. Suspended floors, roots, landings, balconies and access platform.								
		In Rood Slab-	1	4.50	3.00		13.50	P/M		
			1	4.20	3.20		13.44	P/M		
			2	5.00	0.15		1.50	P/M		
			2	3.50	0.15		1.05	P/M		
			2	4.70	0.10		0.94	P/M		
			2	3.70	0.10		0.74	P/M		
			3	0.60	0.60		1.08	P/M		
			3	0.60	0.15		0.27	P/M		
			6	0.60	0.15		0.54	P/M		
							33.060	P/M	437.50	14,464.00
11	BCD 5.22.7 B	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars TMTC-500-10mm dia. 6mm to 16mm for steel								
		Total Reinforcement - @ 1.60% of Vol. opf Concrete (kg/cum)					2074.34	P/kg	92.60	192084.00
12A	B.C.D 10.5.1	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners.all necessary fittings completeincluding applying a priming coat of approved steel primer. Using flats 30x6 mm for diagonal braces and central cross piece.								
		Door D	1	0.90	2.10		1.89	P/M		
		Wingdow-	1	0.90	1.20		1.08	P/M		
							2.970	P/M	3653.00	10,849.00
									Total Rs.	433506.00

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Sl. no.	SR Refere	Item of Works	Nos	Length	Width	Height	Quantity	Unit	Rate	Amount
				(M)	(M)	(M)				
12B	B.C.D 9.48.1	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding							B.F. Rs.	433506.00
		For Window-	1	1.20		0.90	1.08	P/M		
						@ kg/sqm	25.00	kg		
							27.00	P/M	144.50	3,902.00
13B	B.C.D 5.18.3	Providing, precast cement concrete Jali 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits. 25 mm thick								
		For Window-	2	0.45		0.45	0.405	P/M		
							0.405	P/M	835.80	338.00
14A	B.C.D 13.24. 2	Providing 6 mm cement plaster to ceiling of mix : 1:3 (1 cement: 3 coarse sand)								
			1	4.50	3.00		13.50	P/M		
			1	4.20	3.20		13.44	P/M		
			1	5.00	0.15		0.75	P/M		
			1	3.50	0.15		0.53	P/M		
			1	4.70	0.10		0.47	P/M		
			1	0.60	0.60		0.36	P/M		
			1	0.60	0.15		0.09	P/M		
						Total=	29.14	P/M	152.90	4,456.00
14B	B.C.D 13.11. 4	Providing 12 mm cement plaster of mix: 1:6 (1 cement: 6 coarse sand)								
		In Side	2	4.00		2.68	21.44	P/M		
			2	3.00		2.680	16.08	P/M		
			2	2.10		0.250	1.050	P/M		
			2	1.20		0.250	0.600	P/M		
			3	0.90		0.25	0.675	P/M		
		Outside-	2	4.50		3.00	27.00	P/M		
			2	3.50		3.00	21.00	P/M		
		Chajja -	2	1.10		0.45	0.990	P/M		
			1	1.10		0.50	0.550	P/M		
			2	0.45		0.63	0.567	P/M		
		In Column-	16	0.30		5.00	24.000	P/M		
		In beams-	4	4.00		0.20	3.200	P/M		
			4	4.00		0.25	4.000	P/M		
									Total Rs.	442202.00

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Sl. no.	SR Refere	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
									B.F. Rs.	442202.00
			4	3.00		0.20	2.400	P/M		
			4	3.00		0.25	3.000	P/M		
			6	4.50		0.25	6.750	P/M		
			6	3.00		0.25	4.500	P/M		
		In Steps-	1	0.90		0.15	0.135	P/M		
			1	0.60		0.15	0.090	P/M		
			1	0.30		0.15	0.045	P/M		
						Total=	138.07	P/M		
		Deduct for Door& Windows	1	0.90		2.10	-1.89	P/M		
			1	0.90		1.20	-1.08	P/M		
						Total=	135.10	P/M	141.50	19,117.00
14C	B.C.D 13.11.4 +13.26	Providing 12 mm cement plaster of mix: 1:6(1 cement: 6 coarse sand) Neat cement punning								
		In Dado	2	4.00		0.22	1.760	P/M		
			2	3.00		0.22	1.320	P/M		
		In floors-	1	4.00		3.00	12.00	P/M		
		In Steps-	1	0.90		0.15	0.135	P/M		
			1	0.60		0.15	0.090	P/M		
			1	0.30		0.15	0.045	P/M		
		Outside plinth-	2	4.50		0.45	4.050	P/M		
			2	3.50		0.45	3.150	P/M		
							22.550	P/M	182.00	4,104.00
16-	B.C.D 13.79. 1	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade New work (three or more coats)								
		New work (three or more coats)					164.100	P/M	81.20	13,325.00
16-	B.C.D 13.81.3 +13.82. 1	Applying priming coat: With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade: New steel work (two or more coats)								
		In Door-	1	2.25	0.90	2.10	4.253	P/M		
		In Windows-	1	2.25	0.90	1.20	2.430	P/M		
		In Grill-					1.080	P/M		
						Total=	7.763	P/M	118.10	917.00
21	BCD 10.2	Structural steel work riveted or bolted in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved ateeff primer all complete. Providing MS ladder 50mm x 50mm x6mm								
		24M +23 x 0.50M=35.5M @ 4.502kg/M=					159.82	P/kg	95.40	15247.00
22		Providing railing at the top with 25 mm GI pipe-					51.00	P/mtr	269.20	13729.00
									Total Rs.	508641.00

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Sl. no.	SR Refere	Item of Works	Nos	Length (M)	Width (M)	Height (M)	Quantity	Unit	Rate	Amount
									B.F. Rs.	508641.00
23		Providing Necessary arrangement for proper fixation of PVC Tank for lateral stability against wind pressure force.						L.S	Total Rs.	2,000.00
24		Carriage of the following materials from quarry to work site including loading, unloading and staking at work site as per specification & direction of E/I								
		Bricks (7km. Pucca & 1 Km. Kachha lead)					4935.00	%0 n	1331.45	6571.00
		Coarse Sand					14.46	P/M	2684.70	38821.00
		Stone chips					17.13	P/M	2060.60	35298.00
		Local Sand (2km. Pucca + 1 Km. Kanchha Lead)					5.93	P/M	336.17	1993.00
		Cost of Estimate of R.C.C Satging (8.0 m Length)							Total Rs.	593324.00
		Cost of 10,000 lif PVC Wate tank @ 6.60/lit as per S.O.R of B.C.D-							Rs.	66000.00
									Total Rs.	659324.00
		Carriage Cost of Material for Different UCB @ 5% (L.S) -							Rs.	32966.00
		Cost of Extra Pipe Valve (lift souctlif) from Ovecheal tank @ 5% (L.S)-							Rs.	32966.00
									Total Rs.	725256.00

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