

B O Q

Name of work-Detail Estimate for Construction of Piau (water Supply) at ward 02 Nagar Panchayat TARapur . (Dist-Munger)

S.No	SOR	Particulars	Unit	Qty	Rate	Amount
1	1 BCD 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.	M ³	3.322	360.70	1198.00
2	2. BCD 2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	M ³	2.424	287.30	696.00
3	3. BCD 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	M ²	9.64	283.30	2731.00
4	4. BCD 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)	M ³	0.69	3998.10	2759.00
5	5. BCD 5.1.2	Providing and laying in position 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size) reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement- All work puto plinth level	M ³	1.86	4688.30	8734.00
6	6. BCD 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	M ³	0.68	5670.00	3827.00

7	7. BCD 5.3 + 5.33B.4	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 excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size) reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement. All work upto plinth	M ³	1.597	5719.70	9136.00
8	8. BCD 5.22.7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-	Kg	323.509	92.60	29957.00
9	9. B C D 5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-	kg	7.319	92.60	678.00
10	10. BCD 6.1.12/A	Brick work with bricks of class designation 100A in foundations and plinth in Cement mortar 1 : 4 (1 cement: 4 coarse sand) - do all comp job as per direction of E/I	M ³	1.706	5017.90	8562.00
11	11. BCD 4.10	Providing and laying damp-proof Course 40 mm thick with cement concrete 1:2:4 (1 cement: 2:2 coarse sand : 4 graded stone aggregate 20mm nominal size)	M ²	2.165	210.45	456.00
12	12. BCD 6.1.12/A +6.3A	Brick work with bricks of class designation 100A in foundations and plinth in Cement mortar 1 : 4 (1 cement: 4 coarse sand) - do all comp job as per direction of E/I	M ³	5.148	5860.10	30168.00
13	13. BCD 5.9.1	Centring and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns etc. for mass concrete.	M ²	6.978	211.60	1477.00
14	14. BCD 5.9.6	Centring and shuttering including strutting, propping etc. and removal of form for Columns, Pillars, Piers, Abutments, Posts and Struts	M ²	10.800	494.40	5340.00
15	15. BCD 5.9.21	Centring and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick	M ²	6.498	518.90	3372.00
16	16. BCD 5.9.20	Centring and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform with water proof ply 12 mm thick	M ²	8.489	544.60	4623.00
17	17. BCD 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 complete including applying a priming coat of approved steel primer Using M.S. angle 40x40x6 mm for diagonal braces	M ²	1.890	3653.00	6904.00
18	18. BCD 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	Kg	0.756	144.50	109.00

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19	19. BCD 13.17.2	12 mm cement plaster 1:4(1 cement: 4coarse sand) finished with a floating coat of near cement do-all complete job as per	M ²	7.625	192.20	1466.00
20	20. BCD 13.11.2	12 mm cement plaster of mix 1:4(1 cement :4 coarse sand)-do-all complete job as per direction of E/I	M ²	55.269	152.90	8451.00
21	21. BCD 13.24.2	6 mm cement plaster to ceiling of mix 1:4(1 cement: 4 coarse sand)-do-all complete job as per direction of E/I	M ²	3.240	125.60	407.00
22	22. BCD 11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist 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 ceramic	M ²	2.160	663.80	1434.00
23	23. BCD 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 , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand) and jointing with near cement slurry	M ²	27.270	795.00	21680.00
24	24. BCD 13.78.1 + 13.79.1	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade over Applying one coat of cement primer of approved brand and manufacture on wall surface	M ²	19.170	119.80	2297.00
25	25. BCD 13.82.1 +13.81.3	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)	M ²	2.268	118.10 102.80	268.00 233.00
26	27. BCD 18.8.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & coldwater 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 on e step CPVC solventcement and testing of joints completeas per direction of Engineer in Charge. 25 mm nominal outer dia Pipes	Each	30.00	463.10	13893.00
27	28. BCD 17.28.2.1	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931	Each	5.00	434.20	2171.00
28	30. BCD 18.48	Supplying and installing 2000 liters PVS Syntax tank on roof top of building and making connection of rising delivery and overflow and air pipe etc all complete work as per direction of Eng. I/C one no.	Lit	2000.00	9.70	19400.00

29	31. BCD 24.1.1.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 meter depth below ground level. 300 mm dia.	M	90.00	486.80	43812.00
30	32. BCD 24.3.2	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. 150 mm nominal size dia	M	60.00	660.10	39606.00
31	33. BCD 24.4.2	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. 150 mm nominal size dia	M	30.00	673.50	20205.00
32	34. BCD 24.13.2	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of: 150 mm dia	Each	1.00	210.70	211.00
33	35. BCD 24.15.2	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tube well as per IS: 2800 (part I). 150 mm dia	Each	1.00	281.80	282.00
34	36. BCD 24.8	Gravel packing in tube well construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in charge.	M ³	6.00	1343.20	8059.00
35	37. BCD 24.12	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/c 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.	hour	24.00	916.80	22003.00

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
		supply, installation & commissioning of single phase 2 H.P submersible motor pump				
		(Rates are taken as per model estimate of "RURAL PIPED WATER SUPPLY SCHEME" July 2018 Of PHED, Bihar. Sub Est. No. 4a)				
36	38	Supply installation, Commissioning and testing of single phase 2 HP submersible pump set having discharging capacity 2.5 LPs at a total head of 35 meter (aapox) of KSB/Kirloskar or equivalent make with all accessories & Fittings etc including loading unloading and transportation of the pump set tp the work site with all required labour, materials, tools and tackless installation, testing & commissioning as per standards specifications and directions of E/I. (i) 40 mm dia x 3 Mtrs long medium class G.I column pipe both end threaded and one end socketed. -06 Nos (ii) 1 x 3 x 5 MM ³ flat copper conductor submersibli cable - 40 (forty) Mtrs. (iii) 40 mm dia union socket. - 01 (one) No (iv) 50 mm dia x 250 mm long G.I nipple - 01 No (v) 40 mm dia G.I Elbow - 01 No (vi) 40 mm dia M.S Clamps - 02 Pairs (vii) 40 mm x 250 mm long G.I Nipple - 01 No	Per Job	1.00	30500.00	30500.00
37		Supply installation, commissioning and testing of floor mounted outdoor type LT Feeder pillar single phase starter controll pannel operated on 220 V, 3 Phase, 50 C/S for 2 HP submersible pump set made of MS sheet (minimum 2 mm thick) duly spray power coated painting with following accessories made of M.S sheet (minimum 2 mm thick) duly spray powder coated painting with following accessories. (i) 95-272 V range single phase 5 KVA automatic voltage sablizer make - Sen & Pandit/Vertex/ISI Market if any - 01 No (ii) Suitable single phase starter control panel for above motor of BCH/L&T Make - 01 No	Per Job	1.00	28500.00	28500.00
38	39 . BCD 1549	40 mm dia x 3 Mtrs long medium class G.I column pipe both end threaded and one end socketed.	Per Mtr	50.00	336.84	16842.00
39	40	Supplying & Fitting 2.5 MM ² copper service cable from power point fron nearest sourse upto pumping station...	Per Mtr	40.00	130.00	5200.00

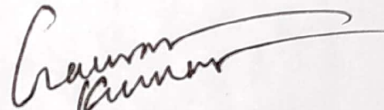
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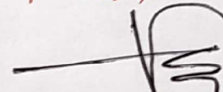
40	41	Providing all materials and labour required for doing earthing station with G.I earth pipe of 40 mm dia x 4.5 Mtrs 20 Fts long G.I pipe including accessories excavation of earth, providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with salt, charcoal, etc as per IE & IS specification.	Per Job	1.00	2803.00	2803.00
41	42	Carriage of materials-				
	ii	Coarse Sand	M ³	5.137	1207.93	6205.00
	iii	Stone Chips	M ³	4.132	2345.91	9694.00
	iv	Bricks	%0	3132.000	867.15	2716.00
	v	Local Sand	M ³	2.569	268.35	689.00
						19304.00
						3500.00
42		SIGN BOARD				
					Total Cost	432986.00
						432986.00
43		Add 5.36% for Additional GST				23208.00
						456194.00
						456230.00
44	45	Seigniorage fee				
	i	Coarse Sand	M ³	5.14	17.58	90.00
	ii	Stone Chips	M ³	4.132	59.54	246.00
	iii	Bricks	%0	3132.00	512.80	1606.00
	iv	Local Sand	M ³	2.569	14.19	36.00
		Total Rs.				458172.00

Rs 458208.00


Junior Engineer


Assistant Engineer

BOD Approval for rd 40- (7) to (44) for Rs. 458208.00 (Rupees Four lakhs fifty eight thousand two hundred eight only)


10/01/26
E.E.

कार्यपालक अभियंता
नगर विकास प्रमंडल
मुंगेर-जमुई, जमुई