

**Bill of Quantity:- Construction of High Yield Tubewell at Choumine factory Tilak Nagar more Rukanpura in ward no- 02**

S.N.	S.O.R	Description of work	Quantity	Unit	Rate	Amount
1	N/S	Providing all materials, labours and equipments and drilling by reverse rotary Rig machine for following diameter of bore hole in any kind of soil mixed with Kankar, Sand Stone including providing sample box and collection strata sample at every 3m depth of drilling for ascertaining proper aquifer for completing 457.2×323.9mm.dia High Yielding Tube Well all complete as per IS : 2800 – 1979 & PHED specification and direction of E/I.				
		(a) 750mm.dia bore from GL to 42m below GL.	33	PM	2,318.00	76494
		(b) 675mm.dia bore from 42m to 185m beyond below GL.	182	PM	1,686.00	306852
2	N/S	Supplying all materials as following size of SEAMLESS or ELECTRICALLY WELDED STEEL Pipe confirming to IS : 3589 – 1991 in standard length of 5.5m to 6.5m, bitumen coated, beveled edges with socked/MS ring & strip as required and providing all equipments and labours for cutting, welding and lowering the same as per strata chart & direction of E/I.				
		(a) 457.2mm.dia×8mm thick pipe	33	PM	10,536.00	347688
		(b) 323.9mm.dia×6mm thick pipe	117	PM	3,372.00	394524
3	N/S	Supplying all materials, such as following size of Electric Resistance Welded, Low Carbon Galvanized Steel Cage Type Trapezoidal (Vee) wire wound WELL SCREEN Pipes duly approved and confirming to IS : 8110-2000 in standard lengths with socket/MS Ring & Strip as required and providing all equipments and labours for welding and lowering the same as per Strata Chart & direction of E/I. (Johnson & equivalent make)				
		322mm.dia O/D and 1mm slot.	60	PM	8,956.00	537360
4	N/S	Providing all tools and labour including supplying the following fitting and fixing the following accessories for aforesaid 457.2mm×323.9mm pipe and welding the same on process of lowering the assembly as per direction of E/I.				
		(i) 457.2mm.dia×323.9mm.dia 7.1mm thick MS Reducer	1	Each	4,214.00	4214
		(ii) 457.2mm.dia MS well cap	1	Each	4,214.00	4214
		(iii) 323.9mm.dia MS well plug with 18mm.dia hook welded as per direction	1	Each	2,107.00	2107
		(iv) MS center guide suitable for 457.2mm.dia pipe	5	Each	1,791.00	8955
		(v) MS center guide suitable for 323.9mm.dia pipe	17	Each	1,580.00	26860
		(vi) 1.60m long MS clamp set 100mm wide & 12mm MS plate for holding 457.2mm.dia MS pipe assembly.	1	P Pair	1,580.00	1580
		(vii) Pump arrester having 350mm O/D ring & cross bar@80-100mm made of 16mm MS plain bar	1	Each	3,161.00	3161
5	BCD/7772	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 Dalbhum-Garh of East Singhbhum (Jharkhand) including 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 voids) etc. as per specification and direction of E/I.	55	PM <sup>3</sup>	10,455.76	575067
6	N/S	Supplying all equipments, tools, labours for developing the tube well by suitable air compressor for continuous 72 hrs. till sand free discharge of tube well at various depth complete as per direction of E/I. The measurement of discharge should be done through V – notch of the tube well etc. all complete as per direction of E/I.	1	Each	1,50,000.00	150000
7	N/S	Transporation cost of Tube Well equipments etc. to site and back after completion of work including dressing, levelling approach making and digging pits etc. to work site as per requirement all complete as per direction of E/I.	1	Each	1,00,000.00	100000
8	N/S	Arrangement of additional water whre ever required for th purpose of drilling etc. all complete as per direction of E/I.	1	Each	50,000.00	50000

9	N/S	Chemical & 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	5,000.00	5000
10	20.3.1.	(a) Boring, Providing and installing cast in situ single under reamed piles of 300mm.dia and 3.5m deep and M-25 cement concrete, to carry safe working load, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the piles etc. all complete as per direction of E/I. (Length of pile for payment shall be measured up to the bottom of piles)				
		300mm.dia piles				
		Total	128	PM	2,334.40	298803
11	20.4.1.	(b) Extra over item for providing additional bulb in under reamed piles under specified dia meter. (Only the quantity of extra bulbs are to be paid)				
		300mm.dia piles	15	Each	1,621.60	24324
12	2.8.1	Earth work in excavation in foundation trenches (not exceeding 1.5m in width, or 10sq m on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m including getting out the excavated soil and disposal of surplus excavated soil as				
		Total	460.429	PM <sup>3</sup>	360.70	166076.74
13	2.28	Supplying and filling in foundation and plinth with local sand under under floors including watering, ramming consolidating and dressing etc. all complete as per direction of E/I.				
		Total	96.379	PM <sup>3</sup>	287.30	27690
14	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty etc. all complete as per building specification and direction of E/I.				
		Total	265.14	PM <sup>2</sup>	283.30	75114
15	5.33.A.1	(a) Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centering, shuttering, finishing and reinforcement, M-20 grade reinforced cement concrete.				
		All work up to Plinth Level (Caping Beam)				
		Total	1.62	PM <sup>3</sup>	4,756.90	7706
16	5.9.2	(b) Centering and Shuttering including strutting, propping etc. and removal of form for band at plinth.				
		Total	12.825	PM <sup>2</sup>	375.10	4811
17	6.1.12.1	Brick work with bricks of class designation 100A in foundation and plinth in				
		Cement mortar 1:4 (1 cement : 4 coarse sand)				
		Total	10.746	PM <sup>3</sup>	5,017.90	53922
18	4.11	(a) Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)				
19	4.12	(b) Extra for providing and mixing water proofing material in cement concrete in the proportion recommended by the manufacturers.				
		At Plinth				
		Total	20.937	PM <sup>2</sup>	302.76	6339
20	4.3.2	(c) Centering and Shuttering including strutting, propping etc. and removal of form for band at plinth				
		Total	2.565	PM <sup>2</sup>	608.80	1562
21	6.1.12/1+6.3A	Brick work with bricks of class designation 100A in foundation and plinth in				
		Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
		Extra for brick work in superstructure above plinth level up to V floor				
		Total	20.792	PM <sup>3</sup>	5,860.10	121843
22	5.33.A.2.2	(a) Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centering, shuttering, finishing and reinforcement, M-25 grade reinforced cement concrete.				
		Total	12.498	PM <sup>3</sup>	5,677.20	70954
		(b) Centering and Shuttering including strutting, propping etc. and removal of form for band.				
	5.9.5	Total	61.005	PM <sup>2</sup>	404.70	24689



	5.9.6	(b) Centering and Shuttering including strutting, propping etc. and removal of form for Stiffners.				
		Total	56.925	PM <sup>2</sup>	494.40	28144
		(b) Centering and Shuttering including strutting, propping etc. and removal of form for Chhaja & Shelves.				
		Total	58.531	PM <sup>2</sup>	437.50	25607
23	10.1	Structural steel work in single section fixed without connecting plate including cutting, hoisting and fixing in position and applying a priming coat of approved steel primer all complete as per direction of E/I.				
		R.S. Joist of size 250mm wide×125mm deep 5.10m@27.9kg/m=142.29kg	142.29	P/Kg	88.30	12564
24	5.22.7 A,B,C	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
		T.M.T. bar 12mm.dia 250kg	250	P/Kg	90.80	22700
		T.M.T. bar 10mm.dia 540kg	1431.24	P/Kg	92.60	132533
		T.M.T. bar 8mm.dia 8311kg	917	P/Kg	94.50	86657
25	22.5	Providing and laying in ssitu five course water proofing treatment with glass fiber tissue reinforced bitumen over roof consisting of first coat of bitumen primer @0.40kg per sq m. 2nd & 4th courses of bonding materials @ 1.60kg per sq m which shall consist of blown type bitumen of grade 85/25 confirming to IS 702, third layer of glass fiber tissue course as specified, fifth, the top most layer of stone grit 6mm and down size or peasized gravel spread @ 6dm <sup>3</sup> per sq m including preparation of surface excluding grading for slope etc. all complete as per building specification and direction of E/I.				
		Total	36.38	PM <sup>2</sup>	409.70	14905
26	10.5.1	Providing and fixing 1mm thick MS sheet door with frame of 40×40×60mm angle iron and 3mm MS gusset plates at the junctions and corners all necessary fittings complete including applying a priming coat of approved steel primer.				
		Total	5.04	PM <sup>2</sup>	3,653.00	18411
27	9.48.1	Providing and fixing MS grill of required pattern in frames of windows etc. with MS flats, square or round bars etc. all complete.				
		Fixed to steel windows by welding				
		Total	199.8	P/Kg	144.50	28871
28	5.18.3	Providing precast cement concrete jali 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 6 mm nominal size) reinforcement with 1.6mm dia mild steel wire including roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement : 3 coarse sand) etc. complete, excluding plastering of the jams, sills and soffits.				
		25mm thick				
		Total	0.45	PM <sup>2</sup>	835.80	376
29	4.1.3/ 4.3.1	(a) Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work up to plinth level.				
		1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)				
		Total	2.28	PM <sup>3</sup>	3,998.10	9116
		(b) Centering and Shuttering including strutting, propping etc. and removal of form for P.C.C. work.				
		Total	11.978	PM <sup>2</sup>	211.10	2529
30	13.24.2	Providing 6mm cement plaster to ceiling of mix 1:4 (1 cement : 4 coarse sand)				
		Total	51.595	PM <sup>2</sup>	125.60	6480
31	13.11.2	Providing 12mm cement plaster of mix 1:4 (1 cement : 4 coarse sand)				
		Total	216.208	PM <sup>2</sup>	152.90	33058
32	13.11.2 & 13.26	Providing 12mm cement plaster of mix 1:4 (1 cement : 4 coarse sand) including neat cement punning.				
		Total	67.49	PM <sup>2</sup>	193.40	13053
33	11.76	Poviding average 150mm thick dry rammed khoa beaten to 112mm (compacted with water) made of well burnt or jhama bricks including ramming properly till compacted thickness is achieve, curing and carriage of water with all leads, making proper slope and blinding the top with cement mortar (1:10) all complete as per building specification and direction of E/I.				
		Total	24.22	PM <sup>2</sup>	383.30	9284

34	11.3.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement including cement slurry etc. but excluding the cost of nosing of steps etc. complete.				
		Total	24.22	PM <sup>2</sup>	289.10	7002 ✓
35	10.12	Providing and fixing steel glazed windows of standard rolled steel sections, joints mitered and welded with 15×3mm lugs 10cm long with steel lugs embedded in cement concrete blocks 15×10×10cm of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and specials metal sash putty of approved make complete including applying a priming coat of approved steel primer including the cost of metal beading and other fittings etc. all complete as per direction of E/L.				
		Total	5.4	PM <sup>2</sup>	3,038.90	16410 ✓
36	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) Quantity same as per item No. 20 & 21.	570.943	PM <sup>2</sup>	81.20	46361 ✓
37	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 work. 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)				
		Total	49.575	PM <sup>2</sup>	118.10	5855 ✓
38		Providing lighening arrangement both inside and outside the pump room, attendant room, chlorinator room and toilet room including fitting and fixing tube lights inside of room and one no vapor halogen light out side with all necessary electrical power wiring with suitable PVC sheathed copper conductor of ISI mark as per direction of E/L. (L/S)	1	Each	15,000.00	15000 ✓
39	18.12.1	Providing and fixing G.I. Pipe complete with G.I. fittings of approved quality including trenching and refilling etc. all complete.				
		25mm.dia	20.00	PM	197.60	3952 ✓
40	18.20.1	Providing and fixing Brass ferrule with C.I. mouth cover including boring and tapping the main etc. all complete as per direction of E/L.				
		15mm nominal bore	1.00	Each	301.60	302 ✓
41	18.10.3. & 1	Providing and fixing G.I. Pipe complete with G.I. fittings of approved quality including cutting, threading, fixing with clamp and making good the wall etc. all complete.				
		25mm.dia	4.00	PM	399.90	1600 ✓
		15mm.dia	4.00	PM	227.70	911 ✓
42	18.17.1	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) etc. all complete as per direction of E/L.				
		25mm.dia nominal bore	1.00	Each	532.30	532 ✓
43	18.15.1	Providing and fixing 15mm.dia brass bib cock of approved quality etc. all complete as per direction of E/L.				
		15mm.dia nominal bore	2.00	Each	303.80	608 ✓
44	18.22.2	Providing and fixing C.P. Brass Shower Rose etc. all complete as per direction of E/L.				
		15mm.dia nominal bore	1.00	Each	190.10	190 ✓
45	18.38.3 & 1	Painting G.I. Pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat both of approved quality for new work etc. all complete.				
		25mm.dia pipe	4.00	PM	18.40	74 ✓
		15mm.dia pipe	3.00	PM	11.90	36 ✓
46	17.1.1	Providing and fixing water closet squatting pan (Indian type W.C. Pan) with 100mm sand cast iron 'P' trap, 10 liter low level white P.V.C. flushing cistern with manually controlled device (Handle liver) confirming to IS : 7231, Parry ware / Hind ware with all fittings and fixtures complete including cutting and making good the walls and floors where ever required. White vitreous China Orrisa pattern W.C. Pan of size 580mm×440mm with integral type foot rest.	1.00	Each	4,470.90	4471 ✓



47	19.30.1.1	Constructing brick masonry inspection chamber 600mm × 450mm size (internal dimension) as per PHED design, specification and direction of E/I.	1.00	Each	4,266.80	4267
48	5.3 / 5.9.3.	(a) Providing R.C.C. M150 in cover slab with approved quality of stone chips 20mm to 8mm size graded and clean coarse sand of FM 2.5 to 3 including screening, centering, shuttering, mixing, cement concrete in mixer and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement) taxes, royalty all complete as per building specification and direction of E/I.				
		Total	8.561	PM <sup>3</sup>	5,335.90	45681
49	13.13.1 / 13.36.5 & 13.26	(a) Providing 20mm thick cement plaster (1:3) in two layers with clean coarse sand of FM 1.5 including punning and water proofing compound @5%, cost of carriage, screening, curing with all leads and lift of water, scaffolding, taxes and royalty all complete as per building specification and direction of E/I.				
		Total	18.72	PM <sup>2</sup>	280.90	5258
50	13.11.4	Providing 12mm thick cement plaster in (1:6) with clean coarse sand of FM 1.5 including cost of carriage, screening, curing with all leads and lift of water, scaffolding, taxes and royalty all complete as per building specification and direction of E/I.				
		Total	320.085	PM <sup>2</sup>	141.50	45292
51	6.1.14A	Bricks work with bricks of class designation 100A in foundation and plinth in				
		Cement mortar 1:6 (1 cement : 6 coarse sand)				
		Total	19.273	PM <sup>3</sup>	4,819.90	92894
52	362 A	Providing class 100B brick bats 22m to 40mm size filling into soak pit as per approved etc. all complete including carriage of brick bats and as per direction of E/I.				
		Total	2.263	PM <sup>3</sup>	1,268.50	2871
53	N/S	Cost of Vertical Turbine Pump Set 4000-50000 L.P.M. at 50mtrs. Head with required size (200 N.B. X 6mm) of MSERW column pipe assembly with 33mm line shaft (3m) with line shaft coupling including discharge head body complete assembly, 1500 RPM 3 phase 50 cycle/sec 415±10% Volt electric induction motor along with ISI marked sluice valve and reflux valve with FASD/ATSD air brake starter including 5T capacity chain pulley block and all necessary electrical (such as suitable poer factor correction application as per direction of BERC, so that power factor should never fall below 0.90) and mechanical accessories etc. all complete set.	1.00	Each	13,69,680.00	1369680
54	N/S	Cost for PCC/RCC foundation with required size of R.S. Joist, MS plate, nut bolt including cost of transportation of materials with lowering of pump set into the T/Well and commissioning on Load all complete job.	1.00	Each	32,000.00	32000
55	N/S	Supplying and laying electric service connection 3½ core 1.1 KV grade 95MM <sup>2</sup> PVC insulated and PVC sheathed armored aluminum conductor cable in ground from transformer to Kit-Kat in pump house.	25.00	PM	790.00	19750
56	N/S	Supplying and fixing of 500 AMP, 415 Volts heavy dut Kit-Kat fuse of Havelle's / GEC / Anchor make on suitable wooden board on wall as per direction of E/I. (1 set = 3 Nos. of Kit-Kat)	1.00	Each	16,436.00	16436
57	N/S	Supplying & installation of indoor type L-T control panel dust and vermin proof made of 16 SWG MS sheet duly painted and suitable for installation on angle frame consisting of following switch gears and accessories.	1.00	Each	1,25,000.00	125000
		(a) TP MCCB of 35KA breaking capacity and suitable thermal relay range.				
		(b) TP SFU fuse type switch disconnected fuse unit as outgoing				
		(c) 1 No. multifunction meter having ampere, volt & power factor reading.				
		(d) 3 Nos. phase indicating lamps				
		(e) 1 Set PVC insulated copper strip bus-bar of suitable length and size.				
		(f) 1 No. SPN MCB				
		(g) Star, Delta Connector of Suitable AMP alongwith Timer, Relay and Main Switch				
		All inter connection shall be made with PVC insulated copper wire and copper strips as required such as suitable power factor correction appliances as per directive of BERC so that power factor should never fall below 0.9.				
58	N/S	Supplying and laying of 3 core 35MM <sup>2</sup> 1.1 KV grade PVC insulated and PVC sheathed round copper cable from panel to starter.	15.00	PM	369.00	5535
59	N/S	Providing all materials and labours required for doing earthing station with 40mm.dia 6m G.I. pipe including excavation of earth, masonry work for earth pit chamber, salt, charcoal etc. as per direction of E/I.	3.00	Each	3,688.00	11064

60	N/S	Providing all materials and labours required for doing continuous earthing with 8 SWG G.I. wire from earth station to all installation etc. as per direction of E/I.	40.00	PM	685.00	27400
61	N/S	Supplying, erecting and commissioning outdoor type copper wound Transformer 160 KVA-11000/433 Volt transformer should be Volt AMP/Crompton/GEC/ EET/Any other reputed ISI approved make. Continuously rated for 3 phase, 50Hz, full load and temperature rise not exceeding 45°C by thermometer in oil and 50°C by the resistance in winding after continuous run at full load rating, the transformer should have oil immersed winding having vector group-DY 11, HT side connected in Delta and LT side connected in star with natural brought out connected to provide separate earthing. The transformer shall have Power Terminal arrangement; bushing out HT side and cable end box suitable to connect specific cables on LT side with standard fitting 2Nos. of channels with stoppers shall be provided and fixed on the Plinth or on pole for mounting of Transformers. (PF should not be less than 0.90)	1.00	Each	4,20,300.00	420300
		(i) Oil conservator with filling holes with cap and plain oil level gauge.				
		(ii) Silica gel dehydrating breather charged with silica gel.				
		(iii) Oil drain valve.				
		(iv) Lifting eyes/hooks.				
		(v) Two earthing terminal.				
		(vi) Diagram and rating plate.				
		(vii) Air vent.				
		(viii) Explosion vent.				
		(ix) 100mm.dia thermometer with thermometer.				
		<b>D.P. Structure</b>				
62	N/S	Providing all materials and fixing suitable double pole structure including cost of AB switch and porcelain insulator etc. all complete required materials as per direction of E/I.	1.00	Each	57,948.00	57948
63	N/S	(a) Cost of taking HT Line connection upto proposed electric transformer.	1.00	Each	2,00,000.00	200000
		(b) Cost for security & inspection charges in taking HT connection from BSEB.	1.00	Each	1,25,000.00	125000
64	N/S	Supplying fitting and fixing 35mm 2PVC insulated sheathed 3.5 core copper.	15.00	Each	843.00	12645
65	18.71.5/4/3 18.71	Providing and laying Double flanged (Screwed/Welded) centrifugally (Spun) cast iron, Class B (IS : 1536).				
		300mm.dia	225.00	PM	6,863.90	1544378
		250mm.dia	210.00	PM	5,371.00	1127910
		200mm.dia	65.00	PM	4,440.50	288633
66	18.30.7/6/5	Providing flanged joints to Double flanged C.I./D.I. pipes and specials including testing of joints.				
		300mm.dia	50.00	Joints	430.10	21505
		250mm.dia	50.00	Joints	423.40	21170
		200mm.dia	15.00	Joints	298.60	4479
67	2.26	Filling available excavated earth (excluding rock) in trenches, plinth sides of foundation etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50M and lift upto 1.5M etc. as per direction of E/I.	396.41	PM <sup>3</sup>	123.90	49115
		Providing all materials labours tools and tackles for fitting, jointing and testing to CI Standards specials confirming to IS specifications etc. all complete.	1.00	Item	5% of item No.65 (2960920)	148046
68	18.31.6.2/5.2/4.2	Providing and fixing C.I. Sluice valves (with cap). Complete with bolts, nuts, rubber insertions etc. (the tail piece if required will be paid separately).				
		300mm.dia Class-II	1.00	Each	26,826.90	26827
		250mm.dia Class-II	1.00	Each	21,836.50	21837
		200mm.dia Class-II	1.00	Each	13,107.50	13108



69	18.35	Constructing masonry chamber 120×120×100cm inside in brick work in cement mortar 1:4 (1 Cement : 4 Coarse Sand) for sluice valve, with C.I. Surface box 100mm top diameter, 160mm bottom diameter and 180mm deep (inside) with chained lid and R.C.C. 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.	2.00	Each	18,802.60	37605
70	18.36	Constructing masonry chamber 60×60×75cm inside in brick work in cement mortar 1:4 (1 Cement : 4 Coarse Sand) for sluice valve, with C.I. Surface box 350×350mm top diameter, 165mm bottom diameter and 180mm deep (inside) with chained lid and R.C.C. 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.	2.00	Each	7,401.00	14802
71	15.2.1	Demoishing Cement concrete manually or by mechanical means including disposal of materials within 50m lead as per direction of E/I.				
		(1:3:6) or Richer Mix				
		Total	31.50	PM <sup>3</sup>	970.90	30583
72	4.5.2	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone chips 20mm nominal size) etc. all complete as per standard specification and direction of E/I.				
		Quantity as per item No. 10	31.50	PM <sup>3</sup>	4,918.50	154933
73		Making connections with existing C.I. pipe line including earth work in excavation upto required depth with dismantling PCC works, cutting pipe line at two places, inserting required size Tee and other specials, making joints including supplying all materials, labours, tools, etc. dewatering from trenches, removing debries, testing of pipe line, refilling trenches etc. all complete as per direction of E/I.				
		300mm.dia (Sub Estimate No. 10A)	1.00	Each	59,969.00	59969
		250mm.dia (Sub Estimate No. 10B)	1.00	Each	53,180.00	53180
		200mm.dia (Sub Estimate No. 10C)	1.00	Each	47,155.00	47155
		150mm.dia (Sub Estimate No. 10D)	1.00	Each	39,015.00	39015
74	5.2.2 / 5.9.6	(a) Reinforced cement concrete work in pillars etc. excluding cost of centering, shuttering, finishing and reinforcement with 1:1 1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20mm nominal size) etc. all complete as per direction of E/I.				
		Total	3	PM <sup>3</sup>	5,670.00	17010
75	5.22.7B / 5.22.1B	Reinforcement for RCC works including straightening, cutting bending, placing in position and binding all complete.				
		MS Rod 6mm.dia	240	P/Kg	96.70	23208
76	13.79.1 & 13.78.1	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade primer				
		New work (three or more coats)	7.571	PM <sup>2</sup>	119.80	907
77	10.44	(a) Providing and fixing angle iron frame for door window and ventilators of mild steel angle section of size 35x35x5 mm joint miterd and welded by angle oren 35X35x5 mm or 35x5 mm flat pieces to the existing T-cross frame or to the wall with dash fastener, including fixing of necessary but things and screws and applying a priming coat of approved steel primer, all complete as per the direction of E/I.				
		Total	240.00	P/Kg	101.30	24312
78	13.82.1	(b) Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade over applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on new steel work (two or more coats)				
		Total	13.50	PM <sup>2</sup>	83.50	1127
		(b) Centering and shuttering including strutting, propping etc. and removal of form for cover slab.	0.00	PM <sup>3</sup>		
79	11.73	Providing 100A one brick on edge soling in road embankment joint filled with local sand in proper grade, camber or super elevation including cost of providing light, barrier, danger, signals, chowkidar including cost of watering, taxes and royalty all complete.				
		Total	120.00	PM <sup>2</sup>	444.80	53376
80	4.1.2	Providing and laying in position cement concrete of specified grade exluding the cost of centering and shuttering all work upto plinth				

		1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)				
		Total	18.00	PM <sup>3</sup>	4,420.80	79574
81	N/S	Providing and installation of Electronically regulated Dozer type 100 liter capacity chlorinator using Sodium Thysulphide (Hypo Na2S2O3) with all accessories complete job as per direction of E/L.	1	Each	1,00,000.00	100000
		Providing and laying in position cement concrete of specified grade exluding the cost of centering and shuttering all work upto plinth				30000
82		Carriage of following materials from quarry to work site including loading unloading and staking at work site as per direction of E/L.				
		Local Sand (Lead 2Km Pucca & 1Km Katcha Road)	70.37	PM <sup>3</sup>	310.14	21825
		Coarse Sand (Lead 45Km Pucca Road & 1Km Katcha Road )	45.75	PM <sup>3</sup>	1,180.87	54025
		Stone Chips (Lead 30Km Pucca Road)	65.55	PM <sup>3</sup>	1,999.64	131076
		Bricks (7Km Pucca & 1Km Katcha Road)	26572	%0No.	918.24	24399
83		Cost of difference of materials				
		(i) Cement	19.19	PMT	283.40	5438
		(ii) Brick	26572	%0no.	1,470.45	39073
		Total				1,09,54,117
		Total Cost for Non Scheduled rate item				45,71,833
		Total Cost for Scheduled rate item				63,82,284
		Add 5.36% GST on schedule Rate				342090.43
						11296207.5
		Add 2% Seignorage fee of Schedule Rate				127645.7
		Add for Annual Maintenance Charge of the Scheme for 5 years				1129620.75
		Add for Operation Cost of the scheme for 5 years				785991
		Add provision for permission of road cutting and restoration				100000
		Total				13439464.9
					Say	13439500.0

J.E.  
Water Supply  
Division

A.E.  
Water Supply  
Division

E.E.  
Water Supply  
Division

A.A Amount Rs 1,36,46,800.00 Vide letter No:- 6134 date:- 08/04/26

BOQ Approved for Rs 1,34,39,500.00 (one crore thirty four lakh thirty nine thousand five hundred) only)

18/6/26

18/6/26  
CME