

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
1.	2.	3.	4.	5.	6 = 4 x 5						
A. JHALAWAR											
Intake Works at Peepaji ki Deh											
1.	Providing and laying rails on two no. ramps of following dimensions for movement of trolleys carrying centrifugal pumps at Peepaji ki Deh Intake works for Jhalawar Water Supply, the rate shall include supply and cutting, jointing the rails including welding, assembling, anchors for the rails, end preparation as per specifications radiography of joints as specified, complete in all respects. The existing trolleys shall be utilized but the wheels of the trolleys shall be changed keeping in view the new rails and load of the new centrifugal pumps.										
	Rails of 52 Kg/m total length 200m & matching wheel 4 no. of weight 10 Kg each including all accessories labour	Kg	10440	48.00	501,120.00	0.22	87.00	908,280	0.30	81.25	407,160.00
2.	Providing and installation of Winch Machines, 10HP motors, SS wire rope of diameter 20mm 130m each and accessories like drum for wire rope, pulleys required as per site conditions for movement of trolley on the rails carrying raw water centrifugal pumps and accessories like suction pipe, outlet pipe, non return valve etc. Also providing and fixing stakes for holding the trolley on rails while pumping is in progress etc. on the ramp of intake structure at Peepaji ki Deh raw water pumping station including supply of all materials and installation and proper functioning of the system complete in all respects with one year replacement warranty.										
		No.	2	125000.00	250,000.00	0.11	186,450.00	372,900	0.12	49.16	122,900.00
Provision of pillars for supporting the cable of motor pump at both sides of the ramp											
3.	Providing and laying cement concrete in retaining walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to two stories, excluding the cost of centring, shuttering and finishing :										
	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)										
	Each block of 0.3mx0.3mx0.3m Total 100 blocks	cum	2.7	3115.30	8,411.31	0.00	3,356.00	9,061	0.00	7.73	649.89
4.	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete										
	RS joist, flats, Tees, angles and channel each 4.617 kg 100 nos. angle iron 50x50x6mm and clamps as per drawing.	Kg	461.7	46.00	21,238.20	0.01	77.00	35,551	0.01	67.39	14,312.70
Delivery Pipe along Ramp and upto the Sluice Valve near Intake structure from the lowest level of ramp on River side											
5.	Providing, laying and jointing 400mm diameter pipe MS 6mm thick sheet pipes with internal epoxy coating double flanged pipes and fittings of 3m lengths and after every pipe a Tee of size 400x400x250mm shall be provided to connect the 250mm outlet pipe of the pump. including all local and central taxes , transportation, freight charges, loading and unloading, conveyance to site stacking and laying the same, for holding down MS pipes with Anchor bolts, Straps including anti corrosive primer and 2 coats of paint of approved brand etc as directed by Engineer, cost of all labour, material and giving satisfactory hydraulic field testing for a pressure of 10Kg/cm ² including cost of water and electricity and commissioning as per technical specifications etc complete for following nominal diameters. 400mm										
		RM	130	1145.00	148,850.00	0.06	5,500.00	715,000	0.24	380.35	566,150.00
Stone Pitching Jhalawar Town Intake Works at Pipaji ki Deh											
6.	Dressing of earth work in surface excavation including cutting and filling on ramp like surface up to 30cm depth including disposal of excavated earth up to 50m and lift up to 1.5 m.	cum	1000	18.00	18,000.00	0.01	10.00	10,000	0.00	-44.44	-8,000.00
7.	Providing and laying graded stone aggregate Filter Material underneath pitching in slopes complete as per drawing and Technical specifications and as per clause 2504 of MoRT&H Specification	cum	200	492.00	98,400.00	0.04	746.00	149,200	0.05	51.63	50,800.00
8.	Providing and laying specified apron for protection against scour complete as per drawing and technical Boulder/Quarry stone, not less than 40 kg each and specific gravity not less than 2.65, without wire crates.	cum	500	735.00	367,500.00	0.16	621.00	310,500	0.10	-15.51	-57,000.00
Water Treatment Plant at Radi ke Balaji											
9.	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering 1:1½:3 (1 Cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cum	7.18	3249.75	23,348.67	0.01	5,260.00	37,792	0.01	61.86	14,443.16
10.	20 mm thick cement plaster of mix : 1:4 (1 cement : 4 fine/ coarse sand)	sqm	7.2	109.95	791.64	0.00	157.00	1,130	0.00	42.79	338.76
11.	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and Bitumen felt (hessian base) type 3 grade I conforming to IS:1322.	sqm	176.49	221.85	39,154.31	0.02	300.00	52,947	0.02	35.23	13,792.69
Instrumentation											
12.	Dismantling of following existing items from the existing old Water Treatment Plant Head Loss measurement system for filter beds	No.	2	2200.00	4,400.00	0.00	2,000.00	4,000	0.00	-9.09	-400.00
13.	Complete overhauling of alum solution maker and dozer, shafts, blades, drive unit, water piping for both the tanks and dozing equipment including replacement of worn out/broken/damaged spares etc.	No.	1	25000.00	25,000.00	0.01	10,000.00	10,000	0.00	-60.00	-15,000.00
14.	Installation of flow meter at Raw Water Channel for measurement of flow Flow meter of Range 0-500cum/hr.	No	1	10000.00	10,000.00	0.00	80,000.00	80,000	0.03	700.00	70,000.00
15.	Provide and installation of Differential Gaseous Feed Chlorinator of 3 kg/hr with all tubing system complete in all respects for pre and post chlorination with safety valves, pressure release valves, diffusers, pressure gauges and instruments as required for gas leak detector with sensor. And also gas masks and 2Tcapacity hoist to handle chlorine cylinder with two extra chlorine filled cylinders	No	1	66000.00	66,000.00	0.03	450,000.00	450,000	0.15	581.82	384,000.00
Repair of Clariflocculator inside walls and flooring and adjusting the scrapper system as per the new floor levels.											

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16.	Complete overhauling of clarifier assembly with replacement of Motor and repair of gear box (including cleaning, scrubbing, and removal of rust from entire unit, repair of broken parts, Lubrication of all the moving parts, painting of unit as per specifications (contractor will provide break up of all activities of repair work and payment shall be made on actual work carried out).	No	1	100000.00	100,000.00	0.04	40,000.00	40,000	0.01	-60.00	-60,000.00
17.	Guniting (Minimum density 2T/Cum.) on concrete/masonry surface with wire mesh size 50x50mm of wire thickness 3mm and cement mortar 1:3, applied with compressor after cleaning surface and applying with epoxy complete as per technical specification as per clause 2807 of MoRT&H Specification	sqm	1092.72	765.00	835,930.80	0.36	200.00	218,544	0.07	-73.86	-617,386.80
18.	Providing and installation of Head Loss Measuring Devices for the two filters with a range of 0-3m	No.	2	9900.00	19,800.00	0.01	5,000.00	10,000	0.00	-49.49	-9,800.00
19.	Providing and filling coarse and fine filter media in the Rapid Gravity Filters after removing the old filter media and its disposal within 50m from the building of Water Treatment Plant as per IS 8419 (Part I)										
	a. Coarse Media 2mm-25mm uniformly graded Sp Gr 2.4	cum	18	3850.00	69,300.00	0.03	5,000.00	90,000	0.03	29.87	20,700.00
	b. Fine Media 0.45mm-0.7mm size Uniformity coeff. 1.3-1.7 Sp. Gr. 2.0-2.5	cum	24	3850.00	92,400.00	0.04	5,000.00	120,000	0.04	29.87	27,600.00
20.	Providing and installation of Water Level Indicators float and pulley type including all accessories for the two CWRs in the campus of Water Treatment Plant with depth up to 5m.	No.	2	5500.00	11,000.00	0.00	15,000.00	30,000	0.01	172.73	19,000.00
21.	Providing and installation of Inlet and outlet pipes for back wash system 300mm inner dia MS 6mm thick inside epoxy coated pipes	m	20	2200.00	44,000.00	0.02	5,000.00	100,000	0.03	127.27	56,000.00
Repair of CWRs at Radi ke Balaji											
22.	Chipping loose and cracking concrete of flooring and wall to required depth cleaning the exposed surface of steel and concrete with wire brush and sand blasting, cleaning with a jet of water/ air as necessary and getting it dried with compressed air including all scaffolding.										
	a. 225 KL CWR (10m dia)	sqm	78.5	30.00	3,768.00	0.00	45.00	3,532.50	0.00	-6.25	-235.50
	b. 850KL CWR (17m dia)	sqm	226.86	30.00	10,889.28	0.00	45.00	10,209	0.00	-6.25	-680.58
23.	Supplying, fitting and placing TMT bar reinforcement in sub structure/ superstructure at all level complete as per drawing and clause 1600 & 2200 of MoRT&H Specification including all material, labour, machinery etc.	Kg	2442.88	40.65	99,303.07	0.04	62.00	151,459	0.05	52.52	52,155.49
24.	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering 1:1½:3 (1 Cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	cum	30.54	3249.75	99,234.37	0.04	5,260.00	160,619	0.05	61.86	61,384.99
25.	Providing and fixing GI 18 SWG sheet 30cm wide at the junction point of wall and the flooring inside the CWR embedding in the above flooring concrete and fixing the sheet to the wall to check leakage from the junction point of the CWR	Kg	525	60.00	31,500.00	0.01	60.00	31,500	0.01	0.00	0.00
26.	Providing & Fixing T iron frame for Manhole 600mmx600mmx6mm of CWR of MS T-section joints	Kg	15	70.00	1,050.00	0.00	3,000.00	45,000	0.01	4185.71	43,950.00
27.	Providing and fixing MS Cover 20mm SWG of angle iron for above provided frame	no.	1	830.00	830.00	0.00	3,000.00	3,000	0.00	261.45	2,170.00
Barbed Wire Fencing in WTP Campus Radi ke Balaji											
28.	180 cm high angle iron post 55x55x6mm placed in every 3m apart 45cm in ground embedded in cement concrete 1:3:6(30x30x60cm) corner and every 10th post to be strutted with 55x55x6mm angle iron provided with 6 horizontal lines and two diagonals of black barbed wire between two posts fitted and fixed with GI staples including earth work in excavation complete	m	250	307.20	76,800.00	0.03	820.00	205,000	0.07	166.93	128,200.00
Flood Lights at Radi ke Balaji & Peepaji ki Deh											
29.	Provide and installation of double holder Flood Lights on 5m high mast in the Intake Works compound of	no.	10	12000.00	120,000.00	0.05	31,000.00	310,000	0.10	158.33	190,000.00
Widening of Approach Roads from existing Bitumen road to Intake Works near Peepaji ki Deh											
30.	Dressing of earth work in surface excavation including cutting and filling upto 30cm depth including disposal of excavated earth upto 50m and lift upto 1.5 m.	sqm	670	18.00	12,060.00	0.01	25.00	16,750	0.01	38.89	4,690.00
31.	Providing and laying lean cement concrete 1:4:8 in Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per clause 601, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	cum	67	1917.00	128,439.00	0.06	3,200.00	214,400	0.07	66.93	85,961.00
32.	Providing and laying un-reinforced, dowel jointed, plain cement concrete mix with Concrete Mixer & vibrator pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed as per approved mix design, laid, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures (if required) as approved, curing compound, finishing to lines and grades complete as per drawing and as per clause 602, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.										
	PCC M-20	cum	50.25	3945.00	198,236.25	0.09	4,500.00	226,125	0.08	14.07	27,888.75
Raw Water Pumps at Peepaji ki Deh Jhalawar											

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33.	Supplying, Installation on trolley erected on a ramp at Intake works on the bank of Kali Sindh River near Peepa ji ki Deh Jhalawar, testing and commissioning of Centrifugal Pumps with bronze impellers and fittings and Cl casing with standard C 40 shaft and with corresponding energy efficient electric motor(93.5%) of approved make, base plate, coupling, coupling guard and other accessories for following discharge and total head, as per detailed specifications & as directed by Engineer, making connection suitable for pumping Raw Water: 400cum/hr discharge and head of 43m at 1450 RPM)	nos.	2	433446.00	866,892.00	0.38	#####	2,021,118	0.67	133.15	1,154,226.00
Panel for operating 2 nos. Pumps coupled with motors of 115KW each											
34.	Supply, Installation, Testing and Commissioning of Electrical Starter Panels for above pumps as per detailed	no.	1	150000.00	150,000.00	0.07	280,918.00	280,918	0.09	87.28	130,918.00
35.	Supply, Laying, Testing & Commissioning of two nos. twin 3 core independent submersible cables for two nos.	m	250	500.00	125,000.00	0.05	994.00	248,500	0.08	98.80	123,500.00
36.	Dismantling of Existing Pump set, Electrical panel, base plate, valves, piping, valves, inlet outlet etc. and transportation of all dismantled material upto PHED store and handing over to PHED etc. complete job as directed by engineer.	no.	2	2500.00	5,000.00	0.00	43,505.00	87,010	0.03	1640.20	82,010.00
RAW WATER RISING MAIN FROM PEEPAJI KI DEH TO WTP											
EARTH WORK											
37.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.										
	Depth upto 1.5 m	cum	1174.5	69.00	81,040.50	0.04	62.00	72,819	0.02	-10.14	-8,221.50
38.	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottom lift upto 1.5m including taking out the excavated soil and depositing and refilling of jhiri with watering and ramming 0 to 1.5m depth	cum	1566	299.00	468,234.00	0.20	62.00	97,092	0.03	-79.26	-371,142.00
39.	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottom lift (a) 0 to 1.5m depth	cum	1174.5	965.00	1,133,392.50	0.49	62.00	72,819	0.02	-93.58	-1,060,573.50
40.	Cutting Water Bound Macadam (WBM) surface upto of 0.5m depth for laying pipeline etc and making good to	cum	100	278.00	44,480.00	0.02	124.00	12,400	0.00	-72.12	-32,080.00
41.	Cutting black top surface upto 0.5m depth including all layers of crust for laying pipeline etc and making good	cum	50	633.00	50,640.00	0.02	3,000.00	150,000	0.05	196.21	99,360.00
42.	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting	cum	52.5	357.00	18,742.50	0.01	980.00	51,450	0.02	174.51	32,707.50
43.	Cutting of Paver finished surface upto 1.5m depth including all layers of crust for laying pipeline etc and making good to original condition by hot mix plant	cum	45	2881.00	207,432.00	0.09	5,500.00	247,500	0.08	19.32	40,068.00
44.	Earth filling with available surplus soil excavated from foundations and taken from only from outside of building plinth in layers not exceeding 20cm in depth, consolidating each deposited layer including ramming and watering and consolidation with lead up to 50 m and lift upto 1.5 m.	cum	3000	39.00	117,000.00	0.05	10.00	30,000	0.01	-74.36	-87,000.00
45.	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of	cum	9	1879.50	16,915.50	0.01	1,200.00	10,800	0.00	-36.15	-6,115.50
46.	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of	sqm	100	33.55	5,368.00	0.00	100.00	10,000	0.00	86.29	4,632.00
47.	Construction of coarse stone paving set in CM 1:6 laid over a bed of 20mm thick cement sand mortar 1:6 with	sqm	100	210.00	33,600.00	0.01	500.00	50,000	0.02	48.81	16,400.00
48.	Providing, laying and jointing K-9 Ductile Iron S&S pipes ISI marked as per IS 8329 , with internal cement mortar lining and external bitumen coating for raw water, spigot and socket type with rubber ring joints including cost of EPDM rubber gaskets including all cost of labour, transportation etc. as directed by Engineer of following dia										0.00
	a. 400mm	RM	3000	4358.00	13,074,000.00	5.67	5,950.00	17,850,000	5.94	36.53	4,776,000.00
	b. 350mm	RM	50	3087.00	154,350.00	0.07	4,962.00	248,100	0.08	60.74	93,750.00
49.	Supply, Lowering, Laying, Jointing, Testing and commissioning of K12 Ductile Iron specials and fittings as per IS	Kg	2000	174.00	348,000.00	0.15	219.00	438,000	0.15	25.86	90,000.00
50.	Supply, Installation, Testing and commissioning of PN-1.0 rating CI manually operated Sluice Valves including all cost of labour, jointing material with nuts & bolts, rubber sheets/EPDM rubber gaskets etc. as per detailed specifications and as directed by										0.00
	a. 400 mm dia	No.	1	42926.00	42,926.00	0.02	53,357.00	53,357	0.02	24.30	10,431.00
	b. 300mm dia	No.	2	21894.00	43,788.00	0.02	29,560.00	59,120	0.02	35.01	15,332.00
51.	Dismantling of existing two nos. rising mains from Peepaji ki Deh to Radi ke Balaji Water Treatment Plant 350mm/200mm/300mm AC pipes with all fittings & specials after commissioning and handing over of new 400mm dia DI rising main and transportation and stacking of dismantled material at PHED store and its handing over to the PHED staff.	Job	LS	350000.00	350,000.00	0.15	200,000.00	200,000	0.07	-42.86	-150,000.00
Building Works											
(i) District Laboratory near Balji ki Chhatri											
(ii) Switch Room Extension & addition of new floor at Peepaji ki Deh											
(iii) Apron of Radi ke Balaji (280KL) ESR											
52.	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 50 metres as directed by Engineer.										
	Rubble stone masonry in cement mortar of all grades	cum	2.16	123.00	265.68	0.00	4,000.00	8,640	0.00	3152.03	8,374.32
53.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.										
	Depth upto 1.5 m	cum	81.96	69.00	5,655.24	0.00	62.00	5,082	0.00	-10.14	-573.72

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81.	Colour washing such as green, blue or buff to give an even shade :										
	New work (two or more coats) with a base coat of white washing with lime	sqm	55.8	7.55	421.29	0.00	10.00	558	0.00	32.45	136.71
82.	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's										
	On steel work	sqm	12.84	13.00	166.92	0.00	40.00	514	0.00	207.69	346.68
83.	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat	sqm	5.06	2778.65	14,059.97	0.01	3,500.00	17,710	0.01	25.96	3,650.03
84.	Applying priming coat with ready mixed pink or Grey primer of approved brand and manufacture on wood work	sqm	109.13	17.60	1,920.69	0.00	20.00	2,183	0.00	13.64	261.91
85.	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	sqm	109.13	38.05	4,152.40	0.00	54.00	5,893	0.00	41.92	1,740.62
	Electric Fitting of Laboratory for Jhalawar										
86.	Wiring of light point / fan point / exhaust fan point / call bell point with 1.5 sq. mm FR PVC insulated unsheathed 1.1kV grade flexible copper conductor and 1.5 sq.mm FR PVC insulated copper earth conductor (IS:694) of approved make in double lock/ ISI marked single lock pvc casing capping & it's accessories, 18 SWG M.S. box with earth terminal, screwless cage connectors for neutral looping in switch board & false ceiling point, 6 A switch 3.0 mm thick phenolic laminated sheet, zinc plated / brass screws, cup washers, making connections, testing etc. as required.										
	a. Short point (up to 3 mtr.)	no.	11	188.70	2,075.70	0.00	13,673.00	150,403	0.05	7145.89	148,327.30
	b. Medium point (up to 6 mtr.)	no.	17	312.80	5,317.60	0.00	25,357.00	431,069	0.14	8006.46	425,751.40
	c. Long point (up to 10 mtr.)	no.	38	438.60	16,666.80	0.01	70,851.00	2,692,338	0.90	16053.90	2,675,671.20
87.	Wiring of 3 pin 6 amp. Light plug point with 1.5 sq. mm FR PVC insulated unsheathed 1.1 kV grade flexible copper conductor and 1.0 sq.mm FR PVC insulated unsheathed 1.1 kV grade copper earth conductor (IS:694) of approved make double lock/ ISI marked single lock pvc casing capping & it's accessories, 18 SWG M.S. box with earth terminal, screwless cage connectors for neutral looping in switch board & false ceiling point, 6 A switch, 6 A socket, 3.0 mm thick phenolic laminated sheet, zinc plated / brass screws, cup washers, making connections, testing etc. as required.										
	a. On board	no.	10	81.60	816.00	0.00	12,430.00	124,300	0.04	15132.84	123,484.00
	b. Short points (upto 3m)	no.	5	239.70	1,198.50	0.00	6,215.00	31,075	0.01	2492.82	29,876.50
	c. Medium Point (upto 6m)	no.	5	363.80	1,819.00	0.00	7,458.00	37,290	0.01	1950.03	35,471.00
88.	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required										
	Group I										
	a. 1x1.5sqmm	m	30	13.22	396.60	0.00	124.00	3,720	0.00	837.97	3,323.40
	b. 2x1.5sqmm	m	45	25.40	1,143.00	0.00	249.00	11,205	0.00	880.31	10,062.00
	c. 3x1.5sqmm	m	50	38.10	1,905.00	0.00	373.00	18,650	0.01	879.00	16,745.00
	d. 4x1.5sqmm	m	52	50.80	2,641.60	0.00	497.00	25,844	0.01	878.35	23,202.40
	e. 1x4sqmm	m	20	29.23	584.60	0.00	373.00	7,460	0.00	1176.09	6,875.40
	f. 2x4sqmm	m	15	56.37	845.55	0.00	497.00	7,455	0.00	781.67	6,609.45
	g. 3x4sqmm	m	15	84.56	1,268.40	0.00	621.00	9,315	0.00	634.39	8,046.60
	h. 4x4sqmm	m	20	112.75	2,255.00	0.00	746.00	14,920	0.00	561.64	12,665.00
	i. 6x4sqmm	m	10	167.20	1,672.00	0.00	746.00	7,460	0.00	346.17	5,788.00
	a. 2x10sqmm	m	10	66.81	668.10	0.00	746.00	7,460	0.00	1016.60	6,791.90
	b. 4x10sqmm	m	15	139.36	2,090.40	0.00	994.00	14,910	0.00	613.26	12,819.60
89.	Supplying and fixing of power plug point accessories on 18 SWG metal box of size 175 x 100 x 60 mm. on surface or in recessed with suitable size phenolic laminated sheet cover including cost of 6 pin 16 amp. Switch and socket outlet, making connection, testing, etc. as required	no.	18	140.00	2,520.00	0.00	1,243.00	22,374	0.01	787.86	19,854.00
90.	Wiring for sub mains ISI marked (IS:694) 1100 Volts grade PVC insulated flat twin core sheathed solid aluminium conductor with 10 SWG G.I. Support wire duly clipped etc. as required	m	30	34.08	1,022.40	0.00	1,243.00	37,290	0.01	3547.30	36,267.60
91.	P & F of M.S. J- hook of standard design made out of 16 mm dia. M.S. round bar and fixed with cement	no.	12	104.00	1,248.00	0.00	1,243.00	14,916	0.00	1095.19	13,668.00
92.	Fixing of fresh air fan/exhaust fan up to size of 300 mm on ply/ poly board of 6.0 mm in existing window frame including cutting of hole in ply. Nut bolts etc. as required.	no.	5	90.00	450.00	0.00	1,243.00	6,215	0.00	1281.11	5,765.00
93.	ITC of ceiling fan and regulator including wiring the down rod up to 30 cm with 3 x 1.5 sq.mm pvc insulated flexible copper conductor making connection testing etc. as required	no.	12	28.00	336.00	0.00	3,108.00	37,296	0.01	11000.00	36,960.00
94.	Provide and fixing double ball bearing capacitor start ceiling fan of approved make complete with regulator and										
	a. 1200mm	no.	11	1203.00	13,233.00	0.01	3,107.00	34,177	0.01	158.27	20,944.00
	b. 1400mm	no.	1	1290.00	1,290.00	0.00	3,729.00	3,729	0.00	189.07	2,439.00
95.	Provide and Fixing ISI marked (IS 3854) 6Amp push flush type switches including cutting hole in tile and making	no.	80	17.00	1,360.00	0.00	621.00	49,680	0.02	3552.94	48,320.00
96.	Provide and fix ISI marked (IS: 3854) bell push flush type switches including cutting hole in tile and making connection, testing etc. as required	no.	7	18.00	126.00	0.00	621.00	4,347	0.00	3350.00	4,221.00
97.	Provide and fix ISI marked (IS 1293) 3-pin 6Amp flush type socket including cutting hole in tile and making	no.	20	18.00	360.00	0.00	621.00	12,420	0.00	3350.00	12,060.00
98.	Provide and fix ISI marked (IS 371) 6Amp surface type ceiling rose including making connection, testing etc. as	no.	59	16.00	944.00	0.00	621.00	36,639	0.01	3781.25	35,695.00
99.	(a) Plate Earthing as per IS 3043 with GI Earth Plating of size 600mmx600mmx6mm by embedding 3 to 4mm (b) Supply and Laying following size earth wire strip in horizontal or vertical run in ground/surface/recess	no.	1	1946.00	1,946.00	0.00	14,916.00	14,916	0.00	666.50	12,970.00
	10 SWG GI wire	m	20	4.50	90.00	0.00	249.00	4,980	0.00	5433.33	4,890.00
100.	Provide and fix 18SWG sheet steel boxes duly finished with two coats of red oxide and with earthing terminals of following sizes (nominal size) on surface or in recess as required										
	a. 200mmx250mmx75mm	no.	8	77.00	616.00	0.00	1,243.00	9,944	0.00	1514.29	9,328.00
	b. 300mmx375mmx75mm	no.	4	111.00	444.00	0.00	1,864.00	7,456	0.00	1579.28	7,012.00
101.	Provide and Fix sheet for boxes/frames including making holes for switches etc. with brass screws, washers/zinc plated nut and bolts as required synthetic phenolic resinbonded laminates conforming to I S 2046 in pieces as	sqm	1.5	90.00	135.00	0.00	1,243.00	1,865	0.00	1281.11	1,729.50

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
102.	Provide and fix 240/415 V MCB of breaking capacity not less than 10KA(B/C/D tripping characteristics) I SI marked IS 8828(1996) conforming to I EC 60898 in existing board sheet including making connections, testing	no.	5	355.00	1,775.00	0.00	1,243.00	6,215	0.00	250.14	4,440.00
103.	Provide and fix ISI marked 6Amp bakelite batten/Angle holder including making connections, testing etc. complete as required.	no.	13	18.00	234.00	0.00	621.00	8,073	0.00	3350.00	7,839.00
104.	Provide and fix ISI marked 32 ADP switch with fuse and indicating lamp including lamp making connection, testing etc. complete.	no.	8	86.00	688.00	0.00	1,243.00	9,944	0.00	1345.35	9,256.00
105.	Provide and fix ISI marked flush/surface type buzzer including making connection, testing etc. complete as required.	no.	6	43.00	258.00	0.00	1,243.00	7,458	0.00	2790.70	7,200.00
106.	Provide and fix ISI marked ding dong musical chime bell including making connections, testing etc. complete as required	no.	1	74.00	74.00	0.00	1,864.00	1,864	0.00	2418.92	1,790.00
107.	Provide and fix 240/415 V porcelain kit kat fuse (HBC type) conforming to I S 2086-1983) on existing board sheet including making connection, testing complete as required										
	a. 32 Amp. 240 Volts	no.	6	79.00	474.00	0.00	311.00	1,866	0.00	293.67	1,392.00
	b. 63Amp 415 Volts	no.	3	158.00	474.00	0.00	621.00	1,863	0.00	293.04	1,389.00
	Sanitary Fittings										
108	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.										
	580mm x 440 mm	no.	1	2463.45	2,463.45	0.00	1,390.00	1,390	0.00	-43.58	-1,073.45
109	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid.										
	W.C. pan with ISI marked white solid plastic seat and lid	no	1	2246.85	2,246.85	0.00	4,455.00	4,455	0.00	98.28	2,208.15
110	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 Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	no	1	3634.65	3,634.65	0.00	4,518.00	4,518	0.00	24.30	883.35
111	Providing & fixing marble urinal partition slab both sides polished appropriate design cut from marble size 900 X 600 mm										
	makrana II quality marble having light spots	no	1	550.00	880.00	0.00	1,000.00	1,000	0.00	13.64	120.00
112	Providing and fixing WVC semi circular channel of approved make in CM 1:3 Joints finished in white cement or size 100 mm dia	m	1.5	350.00	840.00	0.00	1,000.00	1,500	0.00	78.57	660.00
113	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 :										
	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	no.	2	1127.40	2,254.80	0.00	1,401.00	2,802	0.00	24.27	547.20
114	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug										
	WVC laboratory sink ISI marked (IS 2556) size Size 600x450x200mm	no.	4	2146.65	8,586.60	0.00	2,668.00	10,672	0.00	24.29	2,085.40
115	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.	no.	1	512.30	512.30	0.00	637.00	637	0.00	24.34	124.70
116	Providing and fixing 600x120x5mm glass shelf with edges round of 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.	no.	1	218.80	218.80	0.00	272.00	272	0.00	24.31	53.20
117	Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of	no.	1	155.20	155.20	0.00	193.00	193	0.00	24.36	37.80
118	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm 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.	no.	1	171.55	171.55	0.00	213.00	213	0.00	24.16	41.45
119	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the 15 mm dia. nominal bore	m	52	108.80	5,657.60	0.00	135.00	7,020	0.00	24.08	1,362.40
120	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall	m	38	180.70	6,866.60	0.00	225.00	8,550	0.00	24.52	1,683.40
	25 mm dia. nominal bore										
121	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work :										
	20mm dia normal bore (B class pipe)	m	40	112.40	4,496.00	0.00	168.00	6,720	0.00	49.47	2,224.00
122	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	no.	1	128.60	128.60	0.00	150.00	150	0.00	16.64	21.40
123	Providing water meter ISI marked (IS 779) and stop cock of approved make	no.	1	880.00	1,408.00	0.00	1,253.00	1,253	0.00	-11.01	-155.00
124	Providing and fixing brass bib cock of approved quality :										
	15 mm nominal bore	no.	6	282.00	1,692.00	0.00	174.00	1,044	0.00	-38.30	-648.00
125	Providing & fixing stop cock ISI marked (IS 8931) superior quality & of approved make										
	a. 15 mm nominal bore	no.	7	282.00	1,974.00	0.00	273.00	1,911	0.00	-3.19	-63.00
	b. 20 mm nominal bore	no.	2	576.54	1,153.08	0.00	411.00	822	0.00	-28.71	-331.08
	c. Wheel Valve Gun Metal 25mm nominal bore	no.	3	297.40	892.20	0.00	869.00	2,607	0.00	192.20	1,714.80
126	Providing & fixing sink cocks of superior quality of approved make										
	C.P sink cock swinging spout 15 mm	no.	4	395.00	1,580.00	0.00	1,768.00	7,072	0.00	347.59	5,492.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
127	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to 15 mm nominal bore	no.	2	362.15	724.30	0.00	747.00	1,494	0.00	106.27	769.70
128	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with a. for Toilet Urinal & W.C 300 litre b. for Laboratory sinks 500 litre	no.	1	1595.00	1,595.00	0.00	2,058.00	2,058	0.00	29.03	463.00
129	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 15 mm nominal bore	no.	1	2525.00	2,525.00	0.00	3,430.00	3,430	0.00	35.84	905.00
130	Providing, laying and jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	m	6	106.25	637.50	0.00	115.00	690	0.00	8.24	52.50
131	Providing and fixing soil, waste and vent pipes : 100 mm dia.	m	40	465.75	18,630.00	0.01	579.00	23,160	0.01	24.32	4,530.00
132	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. 100 mm	no.	10	347.90	3,479.00	0.00	432.00	4,320	0.00	24.17	841.00
133	Construction of chamber in all type of soil with 300mm thick masonry in CM 1:6 100mm Thick CC 1:5:10 in foundation 20 mm in side plaster in C:M: 1:6 finished with floating neat cement 50mm thick. M15 grade concrete flooring. Earth work etc. complete as Inside size 300x300 mm & depth up to 0.5 mtr.& 5kg C.I cover with frame	no.	7	300.00	2,100.00	0.00	1,290.00	9,030	0.00	330.00	6,930.00
134	Construction of Septic Tank in all type of soil with 40 cm thick masonry in C:M 1:6. 15cm Thick C:C bed of 1:5:10 M15 grade C:C flooring & outer stone slab covering 80 mm thick slab jointing of slab in C:M 1:3. 50mm Thick stone partition walls 20mm thick size 200X 100x130cm.(for 10 users)	no.	1	7700.00	12,320.00	0.01	20,000.00	20,000	0.01	62.34	7,680.00
135	Equipments for District Laboratory for Jhalawar										
	ii. pH meter Digital Display, Auto buffer(0-14) pH Range 1 to 8	no.	1	5500.00	5,500.00	0.00	6,215.00	6,215	0.00	13.00	715.00
	iii. Conductivity Meter Direct Reading , Digital Display	no.	1	7200.00	7,200.00	0.00	11,809.00	11,809	0.00	64.01	4,609.00
	iv. Nephelo-Turbidity Meter Range 0-100 & 100-1000	no.	1	11000.00	11,000.00	0.00	1,243.00	1,243	0.00	-88.70	-9,757.00
	v. Electronic Monopan Balance	no.	1	22000.00	22,000.00	0.01	2,486.00	2,486	0.00	-88.70	-19,514.00
	vi. UV-Spectro Photometer	no.	1	100000.00	100,000.00	0.04	1,243.00	1,243	0.00	-98.76	-98,757.00
	vii. BOD Incubator	no.	1	55000.00	55,000.00	0.02	1,243.00	1,243	0.00	-97.74	-53,757.00
	viii. COD Assembly	no.	1	38000.00	38,000.00	0.02	2,486.00	2,486	0.00	-93.46	-35,514.00
	ix. Analytical Balance Single Pan Capacity 200gm Accuracy 0.001	no.	1	10000.00	10,000.00	0.00	1,864.00	1,864	0.00	-81.36	-8,136.00
	x. Spectro Photometer Visible Range	no.	1	320000.00	320,000.00	0.14	1,492.00	1,492	0.00	-99.53	-318,508.00
	xi. Ion Meter	no.	1	4000.00	4,000.00	0.00	1,989.00	1,989	0.00	-50.28	-2,011.00
	xii. Refrigerator	no.	1	10000.00	10,000.00	0.00	13,000.00	13,000	0.00	30.00	3,000.00
	xiii. Water Still	no.	2	4500.00	9,000.00	0.00	1,000.00	2,000	0.00	-77.78	-7,000.00
	xiv. Voltage Stabilizer	no.	2	2000.00	4,000.00	0.00	2,500.00	5,000	0.00	25.00	1,000.00
	xv. Hot Plate	no.	2	1200.00	2,400.00	0.00	3,000.00	6,000	0.00	150.00	3,600.00
	xvi. Bacteria Incubator	no.	1	22000.00	22,000.00	0.01	2,000.00	2,000	0.00	-90.91	-20,000.00
	xvii. Auto Clave Medium Steel Cabinet 15ATM pressure	no.	2	30000.00	60,000.00	0.03	7,000.00	14,000	0.00	-76.67	-46,000.00
	xviii. Magnetic Stirrer	no.	2	2300.00	4,600.00	0.00	1,800.00	3,600	0.00	-21.74	-1,000.00
	xix. Microscope Binocular 10X, 45X	no.	1	10000.00	10,000.00	0.00	2,500.00	2,500	0.00	-75.00	-7,500.00
	xx. Flame Photometer	no.	1	28000.00	28,000.00	0.01	1,500.00	1,500	0.00	-94.64	-26,500.00
	xxi. Vacuum Pump 1 HP Capacity	no.	2	6800.00	13,600.00	0.01	2,000.00	4,000	0.00	-70.59	-9,600.00
	xxii. Jar Testing Machine	no.	1	13000.00	13,000.00	0.01	1,500.00	1,500	0.00	-88.46	-11,500.00
	xxiii. Water Field Testing Kit	no.	1	6500.00	6,500.00	0.00	2,000.00	2,000	0.00	-69.23	-4,500.00
	xxiv. Hot Air oven	no.	1	11000.00	11,000.00	0.00	10,000.00	10,000	0.00	-9.09	-1,000.00
	xxv. Oven	no.	2	11000.00	22,000.00	0.01	10,000.00	20,000	0.01	-9.09	-2,000.00
	xxvi. Heating Mantle	no.	2	1200.00	2,400.00	0.00	1,200.00	2,400	0.00	0.00	0.00
	xxvii. Water Bath	no.	2	3800.00	7,600.00	0.00	2,800.00	5,600	0.00	-26.32	-2,000.00
	xxviii. Muffle Furnace	no.	1	23000.00	23,000.00	0.01	1,800.00	1,800	0.00	-92.17	-21,200.00
	xxix. Chloroscope	no.	1	900.00	900.00	0.00	700.00	700	0.00	-22.22	-200.00
	xxx. Nitrogen Assembly	no.	1	2800.00	2,800.00	0.00	5,000.00	5,000	0.00	78.57	2,200.00
	xxxi. Sdtandard Sieves	no.	1	3000.00	3,000.00	0.00	6,000.00	6,000	0.00	100.00	3,000.00
	xxxii. MembraneFilter Assembly	no.	1	8000.00	8,000.00	0.00	4,000.00	4,000	0.00	-50.00	-4,000.00
	xxxiii. Executive chairs 2nos., office chairs 12nos., Executive Table 2 nos.500x1200mm, office	LS	LS	500000.00	500,000.00	0.22	102,000.00	102,000	0.03	-79.60	-398,000.00
	CLEAR WATER PIPELINE WORKS										
	(i) Clear Water Rising Main Radi ke Balaji, Garh, Housing Board Colony, Dhanwara ESRs										
	(ii) Distribution System in Jhalawar Town										
	(iii) Gravity Main for Chhapi Water to Balaji ki Chhatra, Police Station and Mama Bhanja ESRs										
136	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 50 metres, stacking Bituminous courses	cum	542.16	417.00	226,080.72	0.10	92.00	49,879	0.02	-77.94	-176,202.00
137	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 50 metres, stacking Granular courses	cum	2710.81	278.00	753,605.18	0.33	92.00	249,395	0.08	-66.91	-504,210.66

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
138	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.	cum	29606.5	69.00	2,042,849.19	0.89	62.00	1,835,604	0.61	-10.14	-207,245.57
139	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level.										
	In ordinary rock.	cum	15841.2	299.00	4,736,527.77	2.05	373.00	5,908,779	1.97	24.75	1,172,251.02
140	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K 9 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 (excluding special accessories) complete including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.										
	a. 350mm dia	m	1480	3769.00	5,578,120.00	2.42	5,014.00	7,420,720	2.47	33.03	1,842,600.00
	b. 300mm dia	m	520	3068.00	1,595,360.00	0.69	4,034.00	2,097,680	0.70	31.49	502,320.00
	c. 250mm dia	m	2236	2443.00	5,462,548.00	2.37	3,183.00	7,117,188	2.37	30.29	1,654,640.00
	d. 200mm dia	m	3100	1901.00	5,893,100.00	2.56	2,383.00	7,387,300	2.46	25.36	1,494,200.00
141	Supply, Lowering, Laying, Jointing, Testing and commissioning of K12 Ductile Iron specials and fittings as per IS 9523 & detailed specifications with internal cement mortar lining and external bitumen coating Double Socket Branch Tee, All Socket Tee, All flanged Tee, Flanged spigot pieces, Double flanged tapers, Flanged socket pieces, duckfoot bends etc. for potable water supply with EPDM rubber gaskets, rubber sheets etc. including all cost of labour, transportation etc.										
	Specials flanged DI K-12										
	a. Upto 300mm dia	Kg	7900	110.00	869,000.00	0.38	146.00	1,153,400	0.38	32.73	284,400.00
	b. Above 300mm dia	Kg	5000	165.00	825,000.00	0.36	219.00	1,095,000	0.36	32.73	270,000.00
142	Providing laying, spreading and compacting stone aggregates of specific sizes as per Table 400-7 to Hand broken - Grade-I (90-45mm)	cum	2710.8	855.00	2,317,734.00	1.01	1,032.00	2,797,546	0.93	20.70	479,811.60
143	Providing and applying primer coat over prepared surface of granular base with bitumen emulsion as per IS : 8887 and approved quality @ 0.6 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface including removing of binding material and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	sqm	10843.3	19.00	206,021.75	0.09	25.00	271,081	0.09	31.58	65,059.50
144	Providing and applying tack coat on the prepared surface with bitumen emulsion as per IS: 8887 and approved quality @ 0.2 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	sqm	10843.3	6.80	73,734.10	0.03	12.00	130,119	0.04	76.47	56,384.90
145	Providing and laying open graded premix carpet 20mm thick (compacted), on prepared surface in a single course as wearing course, composed of specified graded crushed stone aggregate as per Table 500-23, premixed with bituminous binder @ 14.60 kg/ 10sqm (including cost of anti-stripping compound wherever required), including loading of material with F.E. loader, hot mixing of stone aggregate and bitumen in computerised hot mix plant, transporting the mixed material by tipper to paver and laying with paver finisher fitted with electronic sensor control to the required level and grade, compacting smooth wheeled roller 8-10 tonne capacity and finishing to required level to achieve the desired density as per clause 511 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion but excluding cost of tack coat/ seal coat.										
	With bitumen of grade 60/70	sqm	10843.3	82.00	889,146.50	0.39	106.00	1,149,385	0.38	29.27	260,238.00
146	Providing and applying premixed seal coat Type "B" comprising of thin application of fine aggregate 0.06 cum/ 10 sqm premix with bitumen binder @ 6.8 Kg/ 10 Sqm (including cost of anti-stripping compound wherever required) laying with paver finisher with electronic sensor control and rolling with power roller 8-10 tonne complete as per clause 513 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.										
	With bitumen of grade 60/70	sqm	10843.3	33.00	357,827.25	0.16	64.00	693,968	0.23	93.94	336,140.75
147	Providing & filling of granular sand at bed level of longitudinal trench 150mm thick including cost of material and T&P etc.	cum	5808.19	600.00	3,484,914.00	1.51	425.00	2,468,481	0.82	-29.17	-1,016,433.25
148	Providing, lowering, laying, aligning, fixing in position in pipe line, manually operated CI D/F Sluice valves of approved make (IS: 14846 amended upto date) PN 1.0 class of following dia complete including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.										
	a. 350mm dia Category 'B'	no.	3	32822.00	98,466.00	0.04	36,000.00	108,000	0.04	9.68	9,534.00
	b. 300mm dia Category 'B'	no.	13	21894.00	284,622.00	0.12	29,560.00	384,280	0.13	35.01	99,658.00
	c. 250mm dia Category 'B'	no.	14	17054.00	238,756.00	0.10	23,025.00	322,350	0.11	35.01	83,594.00
	d. 200 mm dia Category 'B'	no.	14	10399.00	145,586.00	0.06	14,050.00	196,700	0.07	35.11	51,114.00
	e. 150 mm dia Category 'B'	no.	2	5505.00	11,010.00	0.00	7,432.00	14,864	0.00	35.00	3,854.00
	f. 125 mm dia Category 'B'	no.	3	4609.00	13,827.00	0.01	6,222.00	22,296	0.01	61.25	8,469.00
	g. 100 mm dia Category 'B'	no.	6	3702.00	22,212.00	0.01	4,999.00	37,332	0.01	68.07	15,120.00
	h. 80 mm dia Category 'B'	no.	28	2808.00	78,624.00	0.03	3,788.00	139,972	0.05	78.03	61,348.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
149	Construction of Sluice valve Junction at Tee Junctions of Rising Mains alignment & Bye Pass Arrangement Chambers with suitable R.C.Covers near ESRs as per type design approved by Engineer incharge for different sizes of sluice valves and pipe sizes										
	Tee Junction Chambers with Sluice Valves	no.	6	4000.00	24,000.00	0.01	10,000.00	60,000	0.02	150.00	36,000.00
	Bye Pass Arrangement Chambers with Sluice Valves	no.	6	50000.00	300,000.00	0.13	10,000.00	60,000	0.02	-80.00	-240,000.00
150	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per MoRT&H specification clause 202.	cum	6188.04	700.00	4,331,628.00	1.88	352.00	2,178,190	0.72	-49.71	-2,153,437.92
151	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 (excluding special accessories) complete including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer										
	a. 80mm	m	34188	720.00	24,615,360.00	10.68	1,114.00	38,085,432	12.67	54.72	13,470,072.00
	b. 100mm	m	6101	900.00	5,490,900.00	2.38	1,230.00	7,504,230	2.50	36.67	2,013,330.00
	c. 150mm	m	4684	1132.00	5,302,288.00	2.30	1,797.00	8,417,148	2.80	58.75	3,114,860.00
	d. 200mm	m	2433	1712.00	4,165,296.00	1.81	2,061.00	5,014,413	1.67	20.39	849,117.00
	e. 250mm	m	1082	2018.00	2,183,476.00	0.95	2,694.00	2,914,908	0.97	33.50	731,432.00
	f. 300mm	m	409	2482.00	1,015,138.00	0.44	3,420.00	1,398,780	0.47	37.79	383,642.00
152	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths S&S standard specials with rubber ring (EPDM) joints as per IS: 5382-1985 such as tees, bends, tapers, caps etc. within trenches in DI pipe line complete including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.										
	Upto 300mm dia	Kg	23980	81.00	1,942,380.00	0.84	146.00	3,501,080	1.16	80.25	1,558,700.00
	Above 300mm dia	Kg	3040	93.00	282,720.00	0.12	219.00	665,760	0.22	135.48	383,040.00
153	Providing, lowering, laying, aligning, fixing in position and jointing CI D- joint class-10 as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning as per Technical Specifications and as per direction of Engineer										
	a. 80 mm dia	no.	1000	234.00	234,000.00	0.10	364.00	364,000	0.12	55.56	130,000.00
	b. 100 mm dia	no.	370	265.00	98,050.00	0.04	455.00	168,350	0.06	71.70	70,300.00
	c. 150 mm dia	no.	450	369.00	166,050.00	0.07	823.00	370,350	0.12	123.04	204,300.00
	d. 200 mm dia	no.	150	517.00	77,550.00	0.03	1,438.00	215,700	0.07	178.14	138,150.00
	e. 250 mm dia	no.	120	647.00	77,640.00	0.03	1,909.00	229,080	0.08	195.05	151,440.00
	f. 300 mm dia	no.	50	768.00	38,400.00	0.02	2,346.00	117,300	0.04	205.47	78,900.00
154	Providing and laying lean cement concrete 1:4:8 in Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per clause 601, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion	cum	3337.92	1917.00	6,398,792.64	2.77				-100.00	-6,398,792.64
155	Providing and laying un-reinforced, dowel jointed, plain cement concrete mix of M-20 pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades complete as per drawing and as per clause 602, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion										
	PCC M-20	cum	2672.54	4299.00	11,489,249.46	4.98	5,805.00	15,514,095	5.16	35.03	4,024,845.24
	Shifting of Domestic Water Connections to New 1 aid pipelines (4500 nos.)										
156	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings 15 mm nominal outer dia. Pipes.	m	27000	103.75	2,801,250.00	1.21	35.00	945,000	0.31	-66.27	-1,856,250.00
157	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :										
	15 mm nominal bore	Nos.	4500	70.00	315,000.00	0.14	250.00	1,125,000	0.37	257.14	810,000.00
158	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long	no.	7500	128.00	960,000.00	0.42	200.00	1,500,000	0.50	56.25	540,000.00
159	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long 15 mm nominal bore	No.	9000	94.00	846,000.00	0.37	31.00	279,000	0.09	-67.02	-567,000.00
160	Providing ISI marked water meters of size 15mm and 20mm (including connections on existing pipelines)	no.	7500	1000.00	7,500,000.00	3.25	1,319.00	9,892,500	3.29	31.90	2,392,500.00
161	Providing and fixing ISI marked brass stop cock of 15mm size of approved quality (including connections on	no.	7500	282.00	2,115,000.00	0.92	240.00	1,800,000	0.60	-14.89	-315,000.00
162	Providing, installation, testing and commissioning of Bulk Flow Meter with removable mechanism class "B"										
	a. BFM200 for DN 200 mm	no.	2	27422.00	54,844.00	0.02	35,649.00	71,298	0.02	30.00	16,454.00
	b. BFM300 for DN 300 mm	no.	2	75405.00	150,810.00	0.07	98,026.00	196,052	0.07	30.00	45,242.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
	c. BFM400 for DN 400 mm	no.	2	118316.00	236,632.00	0.10	153,811.00	307,622	0.10	30.00	70,990.00
163	Provision for construction of Sluice Valve Chambers as per type design approved by Engineer incharge										
	a. 80mm	no.	28	2000.00	56,000.00	0.02	4,000.00	112,000	0.04	100.00	56,000.00
	b. 100mm	no.	6	3000.00	18,000.00	0.01	4,400.00	26,400	0.01	46.67	8,400.00
	c. 125mm	no.	3	3000.00	9,000.00	0.00	4,840.00	14,520	0.00	61.33	5,520.00
	d. 150mm	no.	2	3000.00	6,000.00	0.00	5,324.00	10,648	0.00	77.47	4,648.00
	e. 200mm	no.	6	4000.00	24,000.00	0.01	5,856.00	35,136	0.01	46.40	11,136.00
	f. 250mm	no.	6	5000.00	30,000.00	0.01	6,442.00	38,652	0.01	28.84	8,652.00
	g. 300mmj	no.	3	6000.00	18,000.00	0.01	7,086.00	21,258	0.01	18.10	3,258.00
	h. 350mm	no.	1	7000.00	7,000.00	0.00	7,795.00	7,795	0.00	11.36	795.00
164	Disinfecting water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water										
	a. 80mm	m	34188	6.00	205,128.00	0.09	6.00	205,128	0.07	0.00	0.00
	b. 100mm	m	6101	7.00	42,707.00	0.02	6.00	36,606	0.01	-14.29	-6,101.00
	c. 150mm	m	4684	10.00	46,840.00	0.02	15.00	70,260	0.02	50.00	23,420.00
	d. 200mm	m	5533	21.00	116,193.00	0.05	20.00	110,660	0.04	-4.76	-5,533.00
	e. 250mm	m	3318	30.00	99,540.00	0.04	25.00	82,950	0.03	-16.67	-16,590.00
	f. 300mm	m	929	44.00	40,876.00	0.02	40.00	37,160	0.01	-9.09	-3,716.00
	g. 350mm	m	1480	60.00	88,800.00	0.04	45.00	66,600	0.02	-25.00	-22,200.00
	Installation of Starter Panel at Radi ke Balaji WTP										
165	Supply, Installation, Testing and Commissioning of Electrical Starter Panels for existing Clear Water	no.	1	150000.00	150,000.00	0.07	435,050.00	435,050	0.14	190.03	285,050.00
	Panel for operating 2 nos. Pumps coupled with motors of 115 KW each										
	Elevated Service Reservoirs at										
	(i) Radi ke Balaji, 350KL/20m, SBC=10T/m^2										
	(ii) Police Station, 500KL/20m, SBC= 10T/m^2										
	(iii) Housing Board Colony, 500KL/15m, SBC 10T/m^2										
	(iv) Dhanwara 750KL/20m, SBC=15T/m^2										
	(v) Garh, 750KL/20m, SBC= 15T/m^2										
	(vi) Balji ki Chhatri, 1000KL/20m, SBC=10T/m^2										
168	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top lev el.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.										
	(a) For depth 0.0 to 1.5 m	cum	1136	69.00	78,384.00	0.03	62.00	70,432	0.02	-10.14	-7,952.00
	(b) For depth 1.5 to 3.0 m	cum	553	79.00	43,687.00	0.02	75.00	41,475	0.01	-5.06	-2,212.00
167	Providing and laying in position cement concrete M10 excluding the cost of centring and shuttering - All work upto plinth level :-1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).										
	For foundation and plinth protection	cum	378.2	2428.70	918,534.34	0.40	2,745.00	1,038,159	0.35	13.02	119,624.66
168	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth lev el:										
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	34	3341.60	113,614.40	0.05	5,260.00	178,840	0.06	57.41	65,225.60
169	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of										
	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size). (As per design mix)										
	(a) 0.0 m to 3.0 m below GL	m³	275	3399.20	934,780.00	0.41	5,750.00	1,581,250	0.53	69.16	646,470.00
	(b) 0.0 m to 4.5 m above GL	m³	102	3596.40	366,832.80	0.16	6,037.00	615,774	0.20	67.86	248,941.20
170	Providing and laying in position specified grade of cement concrete for RCC structural element up to floor three level including curing, compaction, finishing with rendering cement sand mortar 1:3 (1 cement :										
	(a) 4.51 m to 9.0 m above GL	cum	102	2455.00	250,410.00	0.11	6,109.00	623,118	0.21	148.84	372,708.00
	(a) 9.01 m to 13.5 m above GL	cum	102	2500.00	255,000.00	0.11	6,258.00	638,316	0.21	150.32	383,316.00
	(b) 13.51 m to 18.0 above GL	cum	102	2545.00	259,590.00	0.11	6,407.00	653,514	0.22	151.75	393,924.00
	(c) 18.01 m to 22.5 m above GL	cum	463	2590.00	1,199,170.00	0.52	6,556.00	3,035,428	1.01	153.13	1,836,258.00
	(d) 22.51 m to 27.0 m above GL	cum	345	2635.00	909,075.00	0.39	6,706.00	2,313,570	0.77	154.50	1,404,495.00
	(e) 27.01 m to 31.0 m above GL	cum	113	2680.00	302,840.00	0.13	6,855.00	774,615	0.26	155.78	471,775.00
171	Reinforcement for R.C.C. work at all levels including straightening, cutting, bending, placing in position and binding all complete.										
	Thermo-Mechanically Treated bars.	kg	160755	42.25	6,791,898.75	2.95	62.00	9,966,810	3.32	46.75	3,174,911.25
172	Centring and shuttering at all levels including strutting, propping etc. and removal of form for :										
	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	488.01	104.80	51,143.32	0.02	50.00	24,400	0.01	-52.29	-26,742.88
	Columns, Pillars, Piers, Abutments, Posts and Struts. upto 3.5 m	sqm	2650	212.90	564,185.00	0.24	62.00	164,300	0.05	-70.88	-399,885.00
	Centring and shuttering with plywood or steel sheets including strutting, propping bothways etc. and										
	a. 3.51 m to 9.0 m above GL	sqm	1125	100.00	112,500.00	0.05	68.00	76,500	0.03	-32.00	-36,000.00
	b. 9.01 m to 13.5 m above GL	sqm	695	106.00	73,670.00	0.03	93.00	64,635	0.02	-12.26	-9,035.00
	c. 13.51 m to 18.0 above GL	sqm	695	112.00	77,840.00	0.03	118.00	82,010	0.03	5.36	4,170.00
	d. 18.01 m to 22.5 m above GL	sqm	1895	118.00	223,610.00	0.10	143.00	270,985	0.09	21.19	47,375.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
	e. 22.51 m to 27.0 m above GL	sqm	2450	124.00	303,800.00	0.13	168.00	411,600	0.14	35.48	107,800.00
	f. 27.01 m to 31.0 m above GL	sqm	1100	130.00	143,000.00	0.06	193.00	212,300	0.07	48.46	69,300.00
173	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm).	sqm	6800	30.45	207,060.00	0.09	39.00	265,200	0.09	28.08	58,140.00
174	Providing and fixing T /Angle iron frames for doors, windows and ventilators or mild steel tee or angle sections joints mitred and welded with 15 x 3mm lugs, 10 cm. Long embdedd in cement concrete blocks 15 x 15 x 10cm. Size of 1 : 3 : 6 (1 cement : 3 courses and : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	kg	235	51.05	11,996.75	0.01	77.00	18,095	0.01	50.83	6,098.25
175	Providing and fixing M.S. sheet 20 SWG single leaf door shutter in angle iron frame 35 x 35 x 5cm suitability diagonally braced with 25 x 3mm flat iron above and below lock rail of size 50 x 5cm beading extra including all fittings, as per direction of Engineer incharge but excluding cost of chokhats including two coats of anti corrosive red oxide primer paint	sqm	20	1080.00	21,600.00	0.01	1,900.00	38,000	0.01	75.93	16,400.00
176	RR Masonry with CM (1:6) for foundation and plinth including preparation of mortar including water and	cum	130	1756.50	228,345.00	0.10	1,200.00	156,000	0.05	-31.68	-72,345.00
177	Plastering on new surface of walls in CM (1:4) including tools & plants, scaffolding material and complete										
	Internal Plastering- 12mm thick	sqm	3250	76.85	249,762.50	0.11	138.00	448,500	0.15	79.57	198,737.50
	External Plastering-20mm thick	sqm	7400	109.95	813,630.00	0.35	157.00	1,161,800	0.39	42.79	348,170.00
178	Providing, lowering, laying, aligning, fixing in position at all level/ depths CI Class - B double flanged pipes										
	Inlet pipe -										
	300mm	m	30	5136.00	154,080.00	0.07	10,034.00	301,020	0.10	95.37	146,940.00
	250 mm	m	110	3994.00	439,340.00	0.19	7,784.00	856,240	0.28	94.89	416,900.00
	200mm	m	30	2995.00	89,850.00	0.04	5,752.00	172,560	0.06	92.05	82,710.00
	Overflow pipe --										
	300mm	m	30	5136.00	154,080.00	0.07	10,034.00	301,020	0.10	95.37	146,940.00
	250 mm	m	110	3994.00	439,340.00	0.19	7,784.00	856,240	0.28	94.89	416,900.00
	200mm	m	30	2995.00	89,850.00	0.04	5,752.00	172,560	0.06	92.05	82,710.00
	Outlet pipe ---										
	350mm	m	30	6307.00	189,210.00	0.08	10,034.00	301,020	0.10	59.09	111,810.00
	300mm	m	110	5136.00	564,960.00	0.25	7,784.00	856,240	0.28	51.56	291,280.00
	250 mm	m	30	3994.00	119,820.00	0.05	5,752.00	172,560	0.06	44.02	52,740.00
	Wash out pipe--										
	200mm	m	30	2995.00	89,850.00	0.04	5,752.00	172,560	0.06	92.05	82,710.00
	150 mm	m	110	2055.00	226,050.00	0.10	4,001.00	440,110	0.15	94.70	214,060.00
	100mm	m	30	1280.00	38,400.00	0.02	2,500.00	75,000	0.02	95.31	36,600.00
179	Providing, lowering, laying, aligning, fixing in position in pipe line, manually operated CI D/F Sluice valves of approved make (IS: 14846 amended upto date) PN 1.0 class of following dia complete (excluding jointing and jointing material) including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.										
	a. 100 mm Dia -category "A"	no.	1	6993.00	6,993.00	0.00	8,950.00	8,950	0.00	27.99	1,957.00
	b. 150 mm Dia -category "A"	no.	4	10651.00	42,604.00	0.02	14,380.00	57,520	0.02	35.01	14,916.00
	c. 200 mm Dia -category "A"	no.	2	17589.00	35,178.00	0.02	23,745.00	47,490	0.02	35.00	12,312.00
	d. 250 mm Dia -category "A"	no.	6	26300.00	157,800.00	0.07	35,505.00	213,030	0.07	35.00	55,230.00
	e. 300 mm Dia -category "A"	no.	9	35681.00	321,129.00	0.14	48,170.00	433,530	0.14	35.00	112,401.00
	f. 350 mm Dia -category "A"	no.	2	83180.00	166,360.00	0.07	135,700.00	271,400	0.09	63.14	105,040.00
180	Providing and fixing SS strainer Cylindrical type for out let of pipe as per specifications.-350 mm size	no.	6	26113.00	156,678.00	0.07	40,905.00	245,430	0.08	56.65	88,752.00
181	Providing and Fixing MS Clamps for fixing CI D/F pipe verticals of all diametres etc., Complete as per	kg	2650	48.00	127,200.00	0.06	76.00	201,400	0.07	58.33	74,200.00
182	Providing & Fixing CI dismantling joint for Sluice Valves as per specifications - for PN1.0										
	a. 100 mm Dia	no.	1	2342.00	2,342.00	0.00	424.00	424	0.00	-81.90	-1,918.00
	b. 150 mm Dia	no.	4	3948.00	15,792.00	0.01	764.00	3,056	0.00	-80.65	-12,736.00
	c. 200 mm Dia	no.	2	5435.00	10,870.00	0.00	1,307.00	2,614	0.00	-75.95	-8,256.00
	d. 250 mm Dia	no.	6	7368.00	44,208.00	0.02	1,628.00	9,768	0.00	-77.90	-34,440.00
	e. 300 mm Dia	no.	9	8421.00	75,789.00	0.03	2,076.00	18,684	0.01	-75.35	-57,105.00
	f. 350 mm Dia	no.	2	9555.00	19,110.00	0.01	3,255.00	6,510	0.00	-65.93	-12,600.00
183	CI specials and fittings with bitumen coating : All flanged Tee's, Puddle collors, bellmouths, bends , flanged spigots both long and short peices, double flanged pipes, double flange reducers etc., complete suitable for CI pipes for various sizes of pipe lines as per specifications.	kg	19000	48.00	912,000.00	0.40	83.00	1,577,000	0.52	72.92	665,000.00
184	Providing and laying of PVC water stopper of 230mm wide 8 mm thick for construction joints as per specification and requirements at site and as directed by the engineer.	m	1845	300.00	553,500.00	0.24	350.00	645,750	0.21	16.67	92,250.00
185	Providing and laying of GI water stopper of 150 mm wide 18 guage for construction joints as per specification and requirements at site and as directed by the engineer.	m	2200	160.00	352,000.00	0.15	65.00	143,000	0.05	-59.38	-209,000.00
186	Providing, fabricating and erecting GI pipe 20 mm class B Hand railing for Walkway, top dome slab, staircase as per drawings and specifications	m	750	450.00	337,500.00	0.15	161.00	120,750	0.04	-64.22	-216,750.00
187	Providing, fabricating and erecting MS ladder of 450mm wide made of 65 x 65 x 6mm angle iron and 20mm MS bars for walk way to top of the ESR with three coats of anti corrosive paint as per drawings and specifications	m	32.5	800.00	26,000.00	0.01	1,561.00	50,733	0.02	95.13	24,732.50

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
188	Providing, fabricating and erecting Aluminum ladder of 450 mm wide inside the tank portion as per specification and as approved by engineer	m	51.5	1250.00	64,375.00	0.03	1,250.00	64,375	0.02	0.00	0.00
189	Providing & Fixing Cast Iron vent pipe 150 mm dia with stainless steel mosquito proof jali as per drawing etc., complete	no.	26	4000.00	104,000.00	0.05	1,034.00	26,884	0.01	-74.15	-77,116.00
190	Providing and fixing water level indicator upto 5m height including MS enameled gauge plate, Copper float of 150mm dia., providing and fixing required accessories such as pointer, pulleys, SS rope including cost of all materials, labour etc., as per drawing complete	no.	6	7500.00	45,000.00	0.02	10,000.00	60,000	0.02	33.33	15,000.00
191	Providing and hoisting and fixing in position MS manhole frame and cover of best quality of 600mm x 600mm clear size with locking arrangement including applying two coats of anti corrosive paint etc., complete as per drawings and specifications.	no.	6	4000.00	24,000.00	0.01	2,500.00	15,000	0.00	-37.50	-9,000.00
192	Providing and fixing in position lightening conductor of copper bar of 25mm dia. and 2m long connected by a aluminum strip of 25mm wide and 3mm thick and strip shall be connected to a 600mm x 600mm x 3mm thick Copper plate embedded below ground in earthing pit with 40mm dia. GI pipe, the earthing shall comply IS 3043 as per drawings and specifications etc., complete	no.	6	10000.00	60,000.00	0.03	14,500.00	87,000	0.03	45.00	27,000.00
193	Providing and fixing wire mesh 25x 25x16 gauge anchored on all sides on angle frame of 25 x 25 x 3 mm with intermediate MS angle supports including providing and fixing mosquito proof steel jali etc. as per drawings and specifications complete.	sqm	120	1050.00	126,000.00	0.05	501.00	60,120	0.02	-52.29	-65,880.00
194	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.										
	(a) For depth 0.0 to 1.5 m	cum	72	69.00	4,968.00	0.00	62.00	4,464	0.00	-10.14	-504.00
195	1:4:8 (1 Cement : 4 fine/ coarse sand : 8 graded stone aggregate 40 mm nominal size).	cum	18	2,353.95	42,371.10	0.02	2,496.00	44,928	0.01	6.03	2,556.90
196	Random rubble masonry with hard stone in foundation and plinth including levelling with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level:										
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	54	1756.50	94,851.00	0.04	1,200.00	64,800	0.02	-31.68	-30,051.00
197	Random rubble masonry with hard stone in superstructure above plinth level and upto two stories, including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at window sills, ceiling level and the like in 1:6 Cement Sand Mortar	cum	62.64	2028.75	127,080.90	0.06	1,300.00	81,432	0.03	-35.92	-45,648.90
198	Random rubble masonry with hard stone in superstructure above plinth level and upto two stories, including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at window sills, ceiling level and the like.										
	Random rubble masonry with hard stone in :										
	Square or rectangular pillars in 1:6 Cement Mortar	cum	14.58	2161.85	31,519.77	0.01	1,350.00	19,683	0.01	-37.55	-11,836.77
199	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sill, fillets etc. upto two stories, excluding the cost of centering, shuttering and finishing										
	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	4.8	3,178.00	15,254.40	0.01	3,356.00	16,109	0.01	5.60	854.40
200	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) :										
	Flush / Ruled/ Struck or weathered pointing.	sqm	560	107.40	60,144.00	0.03	75.00	42,000	0.01	-30.17	-18,144.00
201	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including										
	RS joist, flats, Tees, angles and channels each 4.617 kg 100 nos. angle iron 50x50x6mm and clamps as	Kg	400	70.00	28,000.00	0.01	77.00	30,800	0.01	10.00	2,800.00
TOTAL JHALAWAR TOWN (A)					166,151,756.07	72.06		215,289,922	71.62		49,138,165.72

B. JHALRAPATAN

Intake Works & Appurtenances											
1.	Providing and laying rails on two no. ramps of following dimensions for movement of trollies carrying submersible pumps on Bhawarsa Deh Intake works for Jhalrapatan Water Supply, the rate shall include supply and cutting, jointing the rails including welding, assembling, anchors for the rails, end preparation as per specifications radiography of joints as specified, complete in all respects. The existing trolley shall be utilized but the wheels of the trolley shall be changed keeping in view the new rails and load of the new centrifugal pumps.										
	Rails of 52 Kg/m total length 160m & matching wheel 4 no. of weight 10 Kg each	Kg	8350	48.00	400,800.00	0.17	87.00	726,450	0.24	81.25	325,650.00
2.	Providing and installation of Winch Machines, 10HP motors, steel wire rope of diameter 20mm 130m each and accessories like drum for wire rope, pulleys required as per site conditions for movement of trolley on the rails for raw water centrifugal pumps and accessories like suction pipe, outlet pipe, non return valve and stakes for holding the trolley on rails while pumping is in progress etc. on the ramp of intake structure at Bhawarsa Deh raw water pumping station including supply of all materials and installation and proper functioning of the system complete in all respects one year replacement warranty.	no.	2	150000.00	300,000.00	0.13	186,450.00	372,900	0.12	24.30	72,900.00
3.	Supply, Installation, Testing and commissioning of Electrical Starter Panels for existing pumping plants as per specifications, SLD drawings and as directed by engineer.										
	Panel for operating 2nos. Of 100KW Motor	each	1	212000	212,000.00	0.09	416,405.00	416,405	0.14	96.42	204,405.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
Toe Wall at Bhawarsa Deh Intake works											
4.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level. In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc. Depth upto 1.5 m	cum	32.4	69.00	2,235.60	0.00	62.00	2,009	0.00	-10.14	-226.80
5.	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	cum	5.4	2428.70	13,114.98	0.01	3,107.00	16,778	0.01	27.93	3,662.82
6.	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	28.8	1756.85	50,597.28	0.02	1,200.00	34,560	0.01	-31.70	-16,037.28
7.	20 mm thick cement plaster of mix : 1:4 (1 cement : 4 fine/ coarse sand)	sqm	74	109.95	8,136.30	0.00	216.00	15,984	0.01	96.45	7,847.70
Stone Pitching Intake Works at Bhawarsa Deh											
8.	Dressing of earth work in surface excavation including cutting and filling upto 30cm depth including disposal of excavated earth upto 50m and lift upto 1.5 m.	cum	900	18.00	16,200.00	0.01	25.00	22,500	0.01	38.89	6,300.00
9.	Providing and laying graded stone aggregate Filter Material underneath pitching in slopes complete as per drawing and Technical specifications and as per clause 2504 of MoRT&H Specification	cum	180	492.00	88,560.00	0.04	746.00	134,280	0.04	51.63	45,720.00
10.	Providing and laying specified apron for protection against scour complete as per drawing and technical specification as per clause 2503 of MoRT&H Specification. Boulder/Quarry stone, not less than 40 kg each and specific gravity not less than 2.65, without wire crates.	cum	450	735.00	330,750.00	0.14	621.00	279,450	0.09	-15.51	-51,300.00
Repair in Water Treatment Plant Building, Raw Water Channel, Clari-flocculator, Filter Beds & Clear Water Channel											
11.	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including the disposal of rubbish to the dumping ground within 50m lead	sqm	618.27	4.00	3,956.93	0.00	10.00	6,183	0.00	56.25	2,225.77
12.	20 mm thick cement plaster of mix : 1:4 (1 cement : 4 fine/ coarse sand)	sqm	618.27	109.95	67,978.79	0.03	219.00	135,401	0.05	99.18	67,422.34
13.	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level : PCC Grade M -20	cum	20.21	3249.75	65,677.45	0.03	4,925.00	99,534	0.03	51.55	33,856.80
14.	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 Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	sqm	166.86	578.00	96,445.08	0.04	746.00	124,478	0.04	29.07	28,032.48
15.	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as require including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer	kg	266	51.05	13,579.30	0.01	77.00	20,482	0.01	50.83	6,902.70
16.	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angles 40x40x6 mm for diagonal braces.	sqm	17.55	1695.00	29,747.25	0.01	1,900.00	33,345	0.01	12.09	3,597.75
17.	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm 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 hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or pivots complete as per approved design.	Kg	99.9	183.35	18,316.67	0.01	100.00	9,990	0.00	-45.46	-8,326.67

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
18.	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riv etted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm 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 hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or piv ots complete as per approved design.	kg	22.25	183.35	4,079.54	0.00	100.00	2,225	0.00	-45.46	-1,854.54
19.	62 mm thick cement concrete flooring with concrete hardener topping under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume. Hardening compound is mixed @ 2 litre per 50kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	47.25	287.80	13,598.55	0.01	4,200.00	198,450	0.07	1359.35	184,851.45
Jhalrapatan Replacement of Existing AC Raw Water Rising Main											
EARTH WORK											
20.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excav ated material, refilling after laying pipe/ foundation and disposal of surplus excav ated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top lev el.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.	cum	455	69.00	31,395.00	0.01	62.00	28,210	0.01	-10.14	-3,185.00
	Depth upto 1.5 m										
21.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of In ordinary rock.										
	0 to 1.5m depth	cum	182	299.00	54,418.00	0.02	373.00	67,886	0.02	24.75	13,468.00
22.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of In hard rock (Blasting prohibited)										
	0 to 1.5m depth	cum	273	965.00	263,445.00	0.11	497.00	135,681	0.05	-48.50	-127,764.00
23.	Earth filling with available surplus soil excavated from foundations and taken from only from outside of	cum	500	39.00	19,500.00	0.01	10.00	5,000	0.00	-74.36	-14,500.00
24.	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-250mm	m	700	2443.00	1,710,100.00	0.74	3,273.00	2,291,100	0.76	33.97	581,000.00
25.	Supply, Lowering, Laying, Jointing, Testing and commissioning of K12 Ductile Iron specials and fittings as	kg	300	174.00	52,200.00	0.02	146.00	43,800	0.01	-16.09	-8,400.00
26.	Dismantling of existing 250mm dia AC rising mains and restoration of ground to original condition of (i) Raw Water Rising Main from Pond Channel to WTP	LS Job	1	75000.00	75,000.00	0.03	30,000.00	30,000	0.01	-60.00	-45,000.00
EARTH WORK											
27.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excav ated material, refilling after laying pipe/ foundation and disposal of surplus excav ated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top lev el.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.										
	Depth upto 1.5 m	cum	227.5	69.00	15,697.50	0.01	62.00	14,105	0.00	-10.14	-1,592.50
28.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excav ated material, refilling after laying pipe/ foundation and disposal of surplus excav ated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top lev el.										
	In ordinary rock										
	0 to 1.5m depth	cum	227.5	299.00	68,022.50	0.03	373.00	84,858	0.03	24.75	16,835.00
29.	Earth filling with available surplus soil excavated from foundations and taken from only from outside of building plinth in layers not exceeding 20cm in depth, consolidating each deposited layer including ramming and watering and consolidation with lead up to 50 m and lift upto 1.5 m.	cum	250	39.00	9,750.00	0.00	10.00	2,500	0.00	-74.36	-7,250.00
30.	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) K-7 grade 350mm DI K7 S&S Pipe	m	325	3087.00	1,003,275.00	0.44	4,340.00	1,410,500	0.47	40.59	407,225.00
31.	Providing and fixing M.S. DF pipe 6mm thick sheet for v ertical portion of rising main 350mm D/F MS Pipe	m	7	3961.00	27,727.00	0.01	4,000.00	28,000	0.01	0.98	273.00
32.	Supply, Lowering, Laying, Jointing, Testing and commissioning of K12 Ductile Iron specials and fittings as per IS 9523 & detailed specifications with internal cement mortar lining and external bitumen cating Double Socket Branch Tees, All Socket Tees etc.	kg	300	174.00	52,200.00	0.02	219.00	65,700	0.02	25.86	13,500.00
33.	Providing, lowering, laying, aligning, fixing in position, manually operated CI D/F Sluice valves of approved make (IS: 14846 amended upto date) PN 1.0 class of following dia complete including all material, labour, testing and commissioning alongwith pipe line as per Techncl Specifications and as per direction of Engineer										
	Category "B" 350mm dia	No.	2	32822.00	65,644.00	0.03	35,000.00	70,000	0.02	6.64	4,356.00
INSTRUMENTATION											
34.	Supply, Installation, Testing and commissioning of PN-1.0 rating CI manually operated Sluice Valves 150mm Category B	no.	6	5441.00	32,646.00	0.01	7,432.00	44,592	0.01	36.59	11,946.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
51.	180 cm high angle iron post 55x55x6mm placed in every 3m apart 45cm in ground embedded in cement concrete 1:3:6(30x30x60cm) corner and every 10th post to be strutted with 55x55x6mm angle iron provided with 6 horizontal lines and two diagonals of black barbed wire between two posts fitted and fixed with GI staples including earth work in excavation complete	m	155	192.00	47,616.00	0.02	820.00	127,100	0.04	166.93	79,484.00
Flood Lights in WTP & Intake Works Compound & Mundliya Kheri, Jhalrapatan											
52.	Provide and installation of double holder Flood Lights on 5m high mast in the Intake Compound of Bhawarsa Deh. The flood lights shall be Ip-54 protected non integral flood light luminaire suitable for HPSV/Metal halide lamp comprising of powder coated die cast aluminum housing, electrochemically brightened and anodized aluminum reflector, covered with suitably gasketed heat resistant and toughened glass, porcelain holder, non integral cast aluminum gear box having copper ballast, capacitor, electronic igniter pre-wired with PVC insulated copper conductor upto terminal block including making connection to the main switch board in the Intake control room complete (with high pressure mercury vapor/halogen lamp 2x400 watt) testing etc.	no.	10	12000.00	120,000.00	0.05	31,075.00	310,750	0.10	158.96	190,750.00
(i) Clear Water Rising Main from Mundliya Kheri WTP to STC Ground & Bus Stand											
(ii) Gravity Main for Subhash Colony ESR & Bus Stand ESR											
(iii) Distribution System											
53.	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 50 metres, stacking serviceable and unserviceable materials separately as directed by Engineer.										
	Bituminous courses	cum	387	417.00	161,379.00	0.07	92.00	35,604	0.01	-77.94	-125,775.00
54.	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 50 meters, stacking serviceable and unserviceable materials separately as directed by Engineer.										
	Granular courses	cum	1935	278.00	537,930.00	0.23	92.00	178,020	0.06	-66.91	-359,910.00
55.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.	cum	9889.29	69.00	682,361.01	0.30	62.00	613,136	0.20	-10.14	-69,225.03
56.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level.										
	In ordinary rock.	cum	6004.29	299.00	1,795,282.71	0.78	373.00	2,239,600	0.75	24.75	444,317.46
57.	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-9 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 (excluding special accessories) complete including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer.										
	a. 250mm dia	m	2100	2443.00	5,130,300.00	2.22	3,183.00	6,684,300	2.22	30.29	1,554,000.00
	b. 200mm dia	m	1400	1901.00	2,661,400.00	1.15	2,383.00	3,336,200	1.11	25.36	674,800.00
58.	Supply, Lowering, Laying, Jointing, Testing and commissioning of K12 Ductile Iron specials and fittings as per IS 9523 & detailed specifications with internal cement mortar lining and external bitumen coating Double Socket Branch Tee, All Socket Tee, All flanged Tee, Flanged spigot pieces, Double flanged tapers, Flanged socket pieces, duckfoot bends etc. for potable water supply with EPDM rubber gaskets, rubber sheets etc. including all cost of labour, transportation etc.										
	Specials flanged DI K-12										
	Upto 300mm dia	Kg	1200	111.00	133,200.00	0.06	146.00	175,200	0.06	31.53	42,000.00
59.	Providing laying, spreading and compacting stone aggregates of specific sizes as per Table 400-7 to Water Bound Macadam specification including spreading in uniform thickness; hand packing, rolling with power roller 8-10 tonnes, in stages to proper grade and camber, applying and brooming requisite type of screening (Table 400-8) binding materials to fill up the interstices of coarse aggregates, watering (with water browser) and compacting to required density, making necessary earthen bund to protect edges as per clause 404 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion complete.										
	Hand broken - Grade-I (90-45mm)	cum	2087.89	713.00	1,488,665.57	0.65	1,032.00	2,154,702	0.72	44.74	666,036.91
60.	Providing and applying primer coat over prepared surface of granular base with bitumen emulsion as per IS : 8887 and approved quality @ 0.6 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface including removing of binding material and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.										
		sqm	8321.65	19.00	158,111.35	0.07	25.00	208,041	0.07	31.58	49,929.90

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
61.	Providing and applying tack coat on the prepared surface with bitumen emulsion as per IS: 8887 and approved quality @ 0.2 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	sqm	8321.65	6.80	56,587.22	0.02	12.00	99,860	0.03	76.47	43,272.58
62.	Providing and laying open graded premix carpet 20mm thick (compacted), on prepared surface in a single course as wearing course, composed of specified graded crushed stone aggregate as per Table 500-23, premixed with bituminous binder @ 14.60 kg/ 10sqm (including cost of anti-stripping compound wherever required), including loading of material with F.E. loader, hot mixing of stone aggregate and bitumen in computerised hot mix plant, transporting the mixed material by tipper to paver and laying with paver finisher fitted with electronic sensor control to the required level and grade, compacting smooth wheeled roller 8-10 tonne capacity and finishing to required level to achieve the desired density as per clause 511 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion but excluding cost of tack coat/ seal coat.	sqm	8321.65	82.00	682,375.30	0.30	106.00	882,095	0.29	29.27	199,719.60
63.	Providing and applying premixed seal coat Type "B" comprising of thin application of fine aggregate 0.06 cum/ 10 sqm premix with bitumen binder @ 6.8 Kg/ 10 Sqm (including cost of anti-stripping compound wherever required) laying with paver finisher with electronic sensor control and rolling with power roller 8-10 tonne complete as per clause 513 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	sqm	8321.65	33.00	274,614.45	0.12	64.00	532,586	0.18	93.94	257,971.15
64.	Providing & filling of granular sand at bed level of longitudinal trench 150mm thick including cost of material and T&P etc.	cum	2250.02	600.00	1,350,012.00	0.59	425.00	956,259	0.32	-29.17	-393,753.50
65.	Providing, lowering, laying, aligning, fixing in position in pipe line, manually operated CI D/F Sluice valves of approved make (IS: 14846 amended upto date) PN 1.0 class of following dia complete including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.	No.	2	21894.00	43,788.00	0.02	29,566.00	59,132	0.02	35.04	15,344.00
a.	300mm	No.	4	17054.00	68,216.00	0.03	23,025.00	92,100	0.03	35.01	23,884.00
b.	250mm	No.	12	10399.00	124,788.00	0.05	14,050.00	168,600	0.06	35.11	43,812.00
c.	200 mm dia	No.	11	2808.00	30,888.00	0.01	3,788.00	41,668	0.01	34.90	10,780.00
d.	80 mm dia	No.	3	4000.00	12,000.00	0.01	10,000.00	30,000	0.01	150.00	18,000.00
66.	Construction of Sluice valve Junction at Tee Junctions of Rising Mains alignment & Bye Pass Arrangement Chambers with suitable R.C.Covers near ESRs as per type design approved by Engineer incharge for different sizes of sluice valves and pipe sizes	No.	2	50000.00	100,000.00	0.04	10,000.00	20,000	0.01	-80.00	-80,000.00
a.	Tee Junction Chambers with Sluice Valves	No.	3	4000.00	12,000.00	0.01	10,000.00	30,000	0.01	150.00	18,000.00
b.	Bye Pass Arrangement Chambers with Sluice Valves	No.	2	50000.00	100,000.00	0.04	10,000.00	20,000	0.01	-80.00	-80,000.00
67.	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately as per MoRT&H specification clause 202.	cum	1036.14	700.00	725,298.00	0.31	352.00	364,721	0.12	-49.71	-360,576.72
68.	Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 (excluding special accessories) complete including all material, labour, hydraulic testing and commissioning as per Technical Specifications and as per direction of Engineer	m	11549	720.00	8,315,280.00	3.61	1,114.00	12,865,586	4.28	54.72	4,550,306.00
a.	80mm	m	2484	900.00	2,235,600.00	0.97	1,230.00	3,055,320	1.02	36.67	819,720.00
b.	100mm	m	1079	1132.00	1,221,428.00	0.53	1,797.00	1,938,963	0.65	58.75	717,535.00
c.	150mm	m	2293	1712.00	3,925,616.00	1.70	2,061.00	4,725,873	1.57	20.39	800,257.00
d.	200mm	m	282	2018.00	569,076.00	0.25	2,694.00	759,708	0.25	33.50	190,632.00
e.	250mm	m	45	2482.00	111,690.00	0.05	3,420.00	153,900	0.05	37.79	42,210.00
f.	300mm	m	166	3087.00	512,442.00	0.22	4,000.00	664,000	0.22	29.58	151,558.00
g.	350mm	m	166	3087.00	512,442.00	0.22	4,000.00	664,000	0.22	29.58	151,558.00
69.	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths S&S standard specials with rubber ring (EPDM) joints as per IS: 5382-1985 such as tees, bends, tapers, caps etc. within trenches in DI pipe line complete including all material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer.	Kg	7500	81.00	607,500.00	0.26	146.00	1,095,000	0.36	80.25	487,500.00
a.	Upto 300mm dia	Kg	950	93.00	88,350.00	0.04	219.00	208,050	0.07	135.48	119,700.00
b.	Above 300mm dia	Kg	950	93.00	88,350.00	0.04	219.00	208,050	0.07	135.48	119,700.00
70.	Providing, lowering, laying, aligning, fixing in position and jointing CI D- joint class-10 as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning as per Technical Specifications and as per direction of Engineer	No.	500	234.00	117,000.00	0.05	364.00	182,000	0.06	55.56	65,000.00
a.	80 mm dia	No.	150	265.00	39,750.00	0.02	455.00	68,250	0.02	71.70	28,500.00
b.	100 mm dia	No.	100	369.00	36,900.00	0.02	823.00	82,300	0.03	123.04	45,400.00
c.	150 mm dia	No.	150	517.00	77,550.00	0.03	1,438.00	215,700	0.07	178.14	138,150.00
d.	200 mm dia	No.	30	647.00	19,410.00	0.01	1,909.00	57,270	0.02	195.05	37,860.00
e.	250 mm dia	No.	10	768.00	7,680.00	0.00	2,348.00	23,480	0.01	205.73	15,800.00
f.	300 mm dia	No.	10	768.00	7,680.00	0.00	2,348.00	23,480	0.01	205.73	15,800.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
	g. 300 mm dia	No.	20	768.00	15,360.00	0.01	2,700.00	54,000	0.02	251.56	38,640.00
71.	Providing and laying lean cement concrete 1:4:8 in Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per clause 601, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion	cum	657.43	1917.00	1,260,293.31	0.55	2,838.00	1,865,786	0.62	48.04	605,493.03
72.	Providing and laying un-reinforced, dowel jointed, plain cement concrete mix of M-20 pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to I S: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades complete as per drawing and as per clause 602, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion										
	PCC M-20	cum	525.94	4299.00	2,261,016.06	0.98	5,805.00	3,053,082	1.02	35.03	792,065.64
	Shifting of Domestic Water Connections to New laid pipelines (2500 nos.)										
73.	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work										
	15 mm nominal outer dia .Pipes.	m	15000	103.75	1,556,250.00	0.67	35.00	525,000	0.17	-66.27	-1,031,250.00
74.	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :										
	15 mm nominal bore	No.	2500	70.00	175,000.00	0.08	250.00	625,000	0.21	257.14	450,000.00
75.	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	No.	4000	128.00	512,000.00	0.22	200.00	800,000	0.27	56.25	288,000.00
76.	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc.										
	15 mm nominal bore	No.	5000	94.00	470,000.00	0.20	31.00	155,000	0.05	-67.02	-315,000.00
77.	Providing ISI marked water meters of size 15mm and 20mm (including connections on existing pipelines)	No.	4000	1000.00	4,000,000.00	1.73	1,319.00	5,276,000	1.76	31.90	1,276,000.00
78.	Providing and fixing ISI marked brass stop cock of 15mm size of approved quality (including connections on existing pipelines)	No.	4000	282.00	1,128,000.00	0.49	240.00	960,000	0.32	-14.89	-168,000.00
79.	Providing, installation, testing and commissioning of Bulk Flow Meter with removable mechanism class "B" conforming to IS: 4064/1 including all materials (excluding CI/DI fittings) and making connection with existing pipeline required for Bulk Flow Meter										
	a. BFM200 for DN 200 mm	No.	2	27422.00	54,844.00	0.02	35,649.00	71,298	0.02	30.00	16,454.00
	b. BFM300 for DN 300 mm	No.	2	75405.00	150,810.00	0.07	98,026.00	196,052	0.07	30.00	45,242.00
80.	Provision for construction of Sluice Valve Chambers as per type design approved by Engineer in charge for different sizes of sluice valves										
	a. 300mm	No.	2	6000.00	12,000.00	0.01	7,086.00	14,172	0.00	18.10	2,172.00
	b. 250mm	No.	4	5000.00	20,000.00	0.01	6,442.00	25,768	0.01	28.84	5,768.00
	c. 200 mm dia	No.	12	4000.00	48,000.00	0.02	5,856.00	70,272	0.02	46.40	22,272.00
	d. 80 mm dia	No.	11	2000.00	22,000.00	0.01	4,000.00	44,000	0.01	100.00	22,000.00
81.	Disinfecting water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the laboratory										
	a. 80mm	m	11549	6.00	69,294.00	0.03	6.00	69,294	0.02	0.00	0.00
	b. 100mm	m	2484	7.00	17,388.00	0.01	6.00	14,904	0.00	-14.29	-2,484.00
	c. 150mm	m	1079	10.00	10,790.00	0.00	15.00	16,185	0.01	50.00	5,395.00
	d. 200mm	m	3693	21.00	77,553.00	0.03	20.00	73,860	0.02	-4.76	-3,693.00
	e. 250mm	m	2382	30.00	71,460.00	0.03	25.00	59,550	0.02	-16.67	-11,910.00
	f. 300mm	m	45	44.00	1,980.00	0.00	40.00	1,800	0.00	-9.09	-180.00
	g. 350mm	m	166	60.00	9,960.00	0.00	45.00	7,470	0.00	-25.00	-2,490.00
	Jhalrapatan Town Clear Water Pumps at Mundliya Kheri WTP										
82.	Supplying, Installation and testing and commissioning of Centrifugal Pumps with bronze impellers and fittings and CI encasing with standard C 40 shaft and with corresponding energy efficient electric motor(93.5%) of approved make, base plate, coupling, coupling guard and other accessories for following discharge and total head, as per detailed specifications & as directed by Engineer, making connection suitable for pumping Clear Water:48 lps discharge at a head of 57m at 1450 RPM)	no.	2	325000.00	650,000.00	0.28	584,210.00	1,168,420	0.39	79.76	518,420.00

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
83.	Supply, Installation, Testing and Commissioning of Electrical Starter Panels for above pumps as per detailed specifications, SLD drawings and as directed by engineer										
	Panel for operating 2 nos. Pumps coupled with motors of 65 KW each	no.	1	120000.00	120,000.00	0.05	280,918.00	208,918	0.07	74.10	88,918.00
	ELEVATED SERVICE RESERVOIRS										
	(i) Senior Secondary School, 350KL/20m SBC=10T/m²										
	(ii) Subhash Colony, 500KL/15m SBC=10T/m²										
	(iii) STC Ground, 750KL/20m SBC=15T/m²										
84.	Earth work in excavation in foundation, trenches manholes, road side chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level.										
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.	-									
	(a) For depth 0.0 to 1.5 m	cum	508	69.00	35,052.00	0.02	62.00	31,496	0.01	-10.14	-3,556.00
	(b) For depth 1.5 to 3.0 m	cum	245	79.00	19,355.00	0.01	65.00	15,925	0.01	-17.72	-3,430.00
85.	Providing and laying in position cement concrete M10 excluding the cost of centring and shuttering - All work upto plinth level :-1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). For foundation and plinth protection	-									
		cum	170.2	2428.70	413,364.74	0.18	2,745.00	467,199	0.16	13.02	53,834.26
86.	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:										
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	14	3341.60	46,782.40	0.02	5,260.00	73,640	0.02	57.41	26,857.60
87.	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 :										
	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size). (As per design mix)	-									
	(a) 0.0 m to 3.0 m below GL	m ³	117	3399.20	397,706.40	0.17	5,750.00	672,750	0.22	69.16	275,043.60
	(b) 0.0 m to 4.5 m above GL	m ³	45	3596.40	161,838.00	0.07	6,038.00	271,710	0.09	67.89	109,872.00
88.	Providing and laying in position specified grade of cement concrete for RCC structural element up to floor three level including curing, compaction, finishing with rendering cement sand mortar 1:3 (1 cement :										
	a. 4.51 m to 9.0 m above GL	cum	45	2455.00	110,475.00	0.05	6,109.00	274,905	0.09	148.84	164,430.00
	b. 9.01 m to 13.5 m above GL	cum	45	2500.00	112,500.00	0.05	6,258.00	281,610	0.09	150.32	169,110.00
	c. 13.51 m to 18.0 above GL	cum	45	2545.00	114,525.00	0.05	6,407.00	288,315	0.10	151.75	173,790.00
	d. 18.01 m to 22.5 m above GL	cum	198	2590.00	512,820.00	0.22	6,556.00	1,298,088	0.43	153.13	785,268.00
	e. 22.51 m to 27.0 m above GL	cum	160	2635.00	421,600.00	0.18	6,706.00	1,072,960	0.36	154.50	651,360.00
	f. 27.01 m to 31.0 m above GL	cum	39	2680.00	104,520.00	0.05	6,855.00	267,345	0.09	155.78	162,825.00
89.	Reinforcement for R.C.C. work at all levels including straightening, cutting, bending, placing in position and binding all complete.										
	Thermo-Mechanically Treated bars.	kg	66570	42.25	2,812,582.50	1.22	62.00	4,127,340	1.37	46.75	1,314,757.50
90.	Centring and shuttering at all levels including strutting, propping etc. and removal of form for :										
	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	235.33	104.80	24,662.58	0.01	50.00	11,767	0.00	-52.29	-12,896.08
	Columns, Pillars, Piers, Abutments, Posts and Struts. upto 3.5 m	sqm	1200	212.90	255,480.00	0.11	62.00	74,400	0.02	-70.88	-181,080.00
	Centring and shuttering with plywood or steel sheets including strutting, propping bothways etc. and removal of formwork for above 3.5m:										
	a. 3.51 m to 9.0 m above GL	sqm	475	100.00	47,500.00	0.02	68.00	32,300	0.01	-32.00	-15,200.00
	b. 9.01 m to 13.5 m above GL	sqm	320	106.00	33,920.00	0.01	93.00	29,760	0.01	-12.26	-4,160.00
	c. 13.51 m to 18.0 above GL	sqm	320	112.00	35,840.00	0.02	118.00	37,760	0.01	5.36	1,920.00
	d. 18.01 m to 22.5 m above GL	sqm	870	118.00	102,660.00	0.04	143.00	124,410	0.04	21.19	21,750.00
	e. 22.51 m to 27.0 m above GL	sqm	1200	124.00	148,800.00	0.06	168.00	201,600	0.07	35.48	52,800.00
	f. 27.01 m to 31.0 m above GL	sqm	375	130.00	48,750.00	0.02	193.00	72,375	0.02	48.46	23,625.00
91.	Finishing walls with water proofing cement paint of required shade :										
	New work (Two or more coats applied @ 3.84 kg/10 sqm).	sqm	3050	30.45	92,872.50	0.04	39.00	118,950	0.04	28.08	26,077.50
92.	Providing and fixing T/Angle iron frames for doors, windows and ventilators or mild steel tee or angle sections joints mitred and welded with 15 x 3mm lugs, 10 cm. Long embedded in cement concrete blocks 15 x 15 x 10cm. Size of 1 : 3 : 6 (1 cement : 3 courses and : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	kg	115	51.05	5,870.75	0.00	77.00	8,855	0.00	50.83	2,984.25
93.	Providing and fixing M.S. sheet 20 SWG single leaf door shutter in angle iron frame 35 x 35 x 5cm suitability diagonally braced with 25 x 3mm flat iron above and below lock rail of size 50 x 5cm beading extra including all fittings, as per direction of Engineer incharge but excluding cost of chokhats including two coats of anti corrosive red oxide primer paint	sqm	9	1080.00	9,720.00	0.00	1,900.00	17,100	0.01	75.93	7,380.00
94.	RR Masonry with CM (1:6) for foundation and plinth including preparation of mortar including water and curing etc., complete.	cum	60	1756.50	105,390.00	0.05	1,200.00	72,000	0.02	-31.68	-33,390.00
95.	Plastering on new surface of walls in CM (1:4) including tools & plants, scaffolding material and complete labour for mixing of material including cost of water and curing, racking of joints etc., complete.										
	Internal Plastering- 12mm thick	sqm	1560	76.85	119,886.00	0.05	138.00	215,280	0.07	79.57	95,394.00
	External Plastering-20mm thick	sqm	3570	109.95	392,521.50	0.17	157.00	560,490	0.19	42.79	167,968.50

Item No.	Description	Unit	Quantity	Engineer's Estimate		% of work	1/1 M/S SMC-GKC (JV)		% of work	% Variation from Estimate	Difference in Rs.
				Rate Rs.	Amount (Rs.)		Unit Rate	Amount			
	In all types soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc.										
	(a) For depth 0.0 to 1.5 m	cum	108	69.00	7,452.00	0.00	62.00	6,696	0.00	-10.14	-756.00
113.	1:4:8 (1 Cement : 4 fine/ coarse sand : 8 graded stone aggregate 40 mm nominal size).	cum	27	2353.95	63,556.65	0.03	2,496.00	67,392	0.02	6.03	3,835.35
114.	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	81	1756.50	142,276.50	0.06	1,200.00	97,200	0.03	-31.68	-45,076.50
115.	Random rubble masonry with hard stone in superstructure above plinth level and upto two stories, including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at window sills, ceiling level and the like.	cum	93.96	2028.75	190,621.35	0.08	1,300.00	122,148	0.04	-35.92	-68,473.35
116.	Random rubble masonry with hard stone in superstructure above plinth level and upto two stories, including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at window sills, ceiling level and the like. Random rubble masonry with hard stone in : Square or rectangular pillars	cum	21.87	2161.85	47,279.66	0.02	1,350.00	29,525	0.01	-37.55	-17,755.16
117.	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto two stories, excluding the cost of centring, shuttering and finishing 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	7.2	3178.00	22,881.60	0.01	3,356.00	24,163	0.01	5.60	1,281.60
118.	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) : Flush / Ruled/ Struck or weathered pointing.	sqm	846	107.40	90,860.40	0.04	75.00	63,450	0.02	-30.17	-27,410.40
119.	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete RS joist, flats, Tees, angles and channel each 4.617 kg 100 nos. angle iron 50x50x6mm and clamps as per drawing.	Kg	600	70.00	42,000.00	0.02	77.00	46,200	0.02	10.00	4,200.00
TOTAL JHALRAPATAN TOWN (B)					64,436,631.57	27.94		85,322,494	28.38	32.41	20,885,862.37
TOTAL Jhalawar and Jhalrapatan Town (A+B)					230,588,387.64	100.00		300,612,416	100.00	30.37	70,024,028.09
Amount quoted by the bidder (without Provisional Sum)								310,154,491.00			
Arithmatical Corrections								-9542075.27			
Net Evaluated Amount (without Provisional Sum)								300,612,416			
Discount								13,454,491.00			
Net amount after discount					230,588,387.64			287,157,925		24.53	
Provisional Sum					3,000,000.00			3000000.00			
Grand Total					233,588,387.64			290157924.73			

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