परिशिष्ट - I

SECTION-I

Price Break - Up Schedule

Comparison sheet of Tender Qty vs Actual Qty as per approved Design + Drawings

Sewerage Project of Municipal Council, Sihor

										12.29%	Tender cost excluding Extra Item			₹ 759,870,204	-₹ 35,129,796
			Tender Amount			₹ 795,000,000	Awarded Tender Amount			₹ 795,000,000	Revised Tender cost including Extra Item			₹ 841,611,594	₹ 46,611,594
Sr.No	SOR	PARTICULARS	As per Tender			100.00%	As per Award of Project			100.00%	After applying variation & including extra items			105.50%	
			Quantity	Unit	Rate (Rs.)	Amount	Prorata share %	Quantity	Rate (Rs.)	Amount	Prorata share %	Quantity	Rate (Rs.)	Amount	Prorata share %	-₹ 36,107,928
1		Work of Providing, Laying & Jointing including Testing, Commissioning & Trial run of 175 mm to 600 mm Diameter DWC HDPE/PP/PVC corrugated pipes IS 14333:1998 having total length 10,052.00 m along with subsidiary pipe lines along middle of lanes, use of pipes and providing electrical manhole with up to date manhole, Bedding, Barricading, Dirty Shifting and Throwing Works													
	1	Providing and supply of DWC HDPE Pipes of mentioned duly tested inclusive of all taxes related to central, state and municipal, inclusive of excise duty, inspection charges, transportation charges, transit insurance, loading/ unloading and shifting at site/ store etc. complete.													
	2	90mm dia / water file													
	3	175 mm / 200 mm	5,00.12	Meter	₹ 198	₹ 27,020,856	30.997	₹ 155	₹ 19,289,201		31,300	₹ 155	₹ 21,163,402		-₹ 3,865,799
	4	250 mm / 290 mm	4,023	Meter	₹ 157	₹ 3,430,141	4.509	₹ 161	₹ 3,886,354		1,800	₹ 161	₹ 1,626,204		-₹ 2,259,501
	5	450 mm / 490 mm	624	Meter	₹ 1,534	₹ 980,976	0.87	₹ 1,711	₹ 1,067,867		2,500	₹ 1,711	₹ 4,276,675		₹ 3,210,283
	6	Providing, laying and jointing socket & spigot pipe with rubber gasket joints including testing of joints (Conforming to IS:458-1988, IS water laying as per IS:783-2005)													
	7	300 mm dia RCC NP-4 pipe	1,508	RM	₹ 958	₹ 1,325,704	1.389	₹ 1,105	₹ 1,493,063		343	₹ 1,210	₹ 415,217		-₹ 908,745
	8	350 mm dia RCC NP-4 pipe	215	RM	₹ 1,717	₹ 262,091	203	₹ 1,929	₹ 428,831		844	₹ 1,929	₹ 1,653,746		₹ 1,392,614
	9	400 mm dia RCC NP-4 pipe	1,210	RM	₹ 2,248	₹ 2,945,703	1,265	₹ 2,524	₹ 3,193,519		524	₹ 2,524	₹ 1,338,687		-₹ 1,794,182
	10	500 mm dia RCC NP-4 pipe	1,038	RM	₹ 2,494	₹ 2,589,852	1,026	₹ 2,800	₹ 2,873,800		609	₹ 2,800	₹ 1,705,338		-₹ 1,185,407
	11	600 mm dia RCC NP-4 pipe	2,130	RM	₹ 3,117	₹ 6,638,604	2,202	₹ 3,495	₹ 7,697,843		615	₹ 3,495	₹ 2,147,760		-₹ 5,490,083
	12	700 mm dia RCC NP-4 pipe	436	RM	₹ 4,221	₹ 1,804,598	434	₹ 4,746	₹ 2,059,896		1,235	₹ 4,746	₹ 4,912,896		₹ 2,853,000
	13	800 mm dia RCC NP-4 pipe	672	RM	₹ 5,190	₹ 3,486,057	693	₹ 5,838	₹ 4,044,791						-₹ 4,104,791
	14	900 mm dia RCC NP-4 pipe	335	RM	₹ 6,321	₹ 2,117,013	341	₹ 7,449	₹ 2,538,738						-₹ 2,538,738
	15	Providing 1st class bedding below trench pipes with granular material as per clause 3004 of specifications.													
	16	150 mm dia RCC NP-4 pipe	10,950	Cum	₹ 403	₹ 4,411,350	13,590	₹ 349	₹ 4,742,610		9,017,530	₹ 349	₹ 3,030,148		-₹ 599,782
	17	200 mm dia RCC NP-4 pipe	934	Cum	₹ 403	₹ 456,726	934	₹ 349	₹ 326,037		377,592	₹ 349	₹ 131,397		-₹ 341,790
	18	300 mm dia RCC NP-4 pipe	254	Cum	₹ 403	₹ 102,108	254	₹ 349	₹ 194,373		328,200	₹ 349	₹ 114,384		-₹ 80,010
	19	350 mm dia RCC NP-4 pipe	94	Cum	₹ 403	₹ 37,838	94	₹ 349	₹ 46,133		319,818	₹ 349	₹ 111,669		₹ 127,833
	20	400 mm dia RCC NP-4 pipe	270	Cum	₹ 403	₹ 108,300	270	₹ 349	₹ 148,391		848,210	₹ 349	₹ 296,509		₹ 208,209
	21	450 mm dia RCC NP-4 pipe	626	Cum	₹ 403	₹ 252,114	628	₹ 349	₹ 343,731		63,135	₹ 349	₹ 20,840		-₹ 318,873
	22	500 mm dia RCC NP-4 pipe	576	Cum	₹ 403	₹ 231,904	578	₹ 349	₹ 316,289		326,186	₹ 349	₹ 113,201		-₹ 251,237
	23	600 mm dia RCC NP-4 pipe	2,019	Cum	₹ 403	₹ 813,507	1,819	₹ 349	₹ 635,263		223,110	₹ 349	₹ 77,863		-₹ 635,063
	24	700 mm dia RCC NP-4 pipe	388	Cum	₹ 403	₹ 156,232	388	₹ 349	₹ 135,242		408,116	₹ 349	₹ 142,462		₹ 44,540
	25	800 mm dia RCC NP-4 pipe	759	Cum	₹ 403	₹ 305,801	779	₹ 349	₹ 271,755		-	₹ 349	₹ 0		-₹ 304,755
	26	900 mm dia RCC NP-4 pipe	443	Cum	₹ 403	₹ 178,402	443	₹ 349	₹ 154,541		-	₹ 349	₹ 0		-₹ 247,241
	27	1000mm dia RCC NP-4 pipe	0	Cum	₹ 403	₹ 296,027	-	₹ 349	₹ 0		857	₹ 349	₹ 470,037		₹ 470,037
	28	1200 mm dia RCC NP-4 pipe	0	Cum	₹ 403	₹ 296,027	-	₹ 349	₹ 0		4,050	₹ 349	₹ 2,220,754		₹ 2,220,754
	29	Painting with black anti corrosive bituminous paint of approved brand and manufacture to give an even shade													
	30	Two or more coats on new work	25,780	Sqm	₹ 30	₹ 773,400	35,704	₹ 36	₹ 1,285,341		25,780	₹ 36	₹ 1,283,341		₹ 0
	31	Class bedding/backfill in trenches including shoring/ sheeting and padding (within lead 50m) required etc. complete (measurement to taken of the face area/length of the trench up to 1m)													
	32	Depth 0.00 exceeding 1.5 m	147,004	Sqm	₹ 99	₹ 14,568,192	147,004	₹ 111	₹ 16,347,376		147,004	₹ 111	₹ 16,311,325		₹ 0
	33	1.5 m exceeding up to 3.0m depth	72,057	Sqm	₹ 201	₹ 14,491,508	72,057	₹ 117	₹ 8,414,579		72,057	₹ 117	₹ 8,414,579		₹ 0
	34	3.0 m exceeding up to 4.5m depth	21,803	Sqm	₹ 112	₹ 2,419,200	21,803	₹ 124	₹ 2,693,000		21,803	₹ 124	₹ 2,693,000		₹ 0
	35	4.5 m exceeding up to 6.0m depth	8,997	Sqm	₹ 118	₹ 1,045,692	8,997	₹ 132	₹ 1,171,868		8,997	₹ 130	₹ 1,171,868		₹ 0
	36	6.0 m exceeding up to 7.5m depth	1,462	Sqm	₹ 118	₹ 170,896	1,462	₹ 139	₹ 203,373		1,462	₹ 138	₹ 201,373		₹ 0

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36	Extra for planking, shoring and packing material for trenches IN C.CDE 3 (VIBUK NS) if required to be left permanently in position (face area of trench permanently left to be measured)	2549	Sq.m	₹ 1,529	₹ 3,900,182		2,504	₹ 1,484	₹ 3,716,071		2,504	₹ 1,491	₹ 3,734,977				₹ 0
38	Cover trenching in trenches including shoring, filtering and packing cotton (where ever required) etc. complete (measurement to taken of the face area trenched)						-		₹ 0		-	₹ 0	₹ 0				
37	45m (up to 1.5m deep)	98000	Sq.m	₹ 51	₹ 4,999,980		98,204	₹ 57	₹ 5,591,282		98,204	₹ 57	₹ 5,594,252				₹ 0
39	45 from (up to 3.0m deep)	48000	Sq.m	₹ 55	₹ 2,640,314		48,204	₹ 65	₹ 3,166,769		48,204	₹ 65	₹ 3,166,754				₹ 0
39	45 from (up to 4.5m deep)	22000	Sq.m	₹ 56	₹ 1,275,008		22,941	₹ 62	₹ 1,426,237		22,941	₹ 62	₹ 1,426,237				₹ 0
40	Extra for planking, shoring IN CDN IN (VIBUKNS) if required to be left permanently in position (face area of trench permanently left to be measured)	1690	Sq.m	₹ 685	₹ 1,154,225		1,060	₹ 707	₹ 1,206,276		1,060	₹ 707	₹ 1,206,276				₹ 0
41	Traffic Cone (Provision of red fluorescent with inside reflective dense traffic cone made of (pu moulds polyethylene (LDPE) material with a square base of 300 x 300 x 15 mm and a height of 770 mm, 4 kg in weight, placed at 1.5 m interval, all as per IRC 67/1)	15740	Each	₹ 180	₹ 2,828,314	20.70%	15,749	₹ 200	₹ 3,190,189	22.73%	15,749	₹ 200	₹ 3,190,189	17.60%			₹ 0
42	Portable Barricade in Construction Zone (Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fixed on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.1 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45 Degrees, 'A' frame painted with 2 coats of yellow paint, complete as per IRC SP 55-2000)	7677	Each	₹ 2,350	₹ 18,034,984		7,677	₹ 2,642	₹ 20,277,607		7,677	₹ 2,642	₹ 20,277,607				₹ 0
43	Emptying of septic tank/ soakage well etc., disposing of sludge within a lead of 1km and taking out sewage including refilling with local earth, ramming and compaction in layers, cleaning of site.	1500	each	₹ 3,280	₹ 5,140,630		1,106	₹ 3,753	₹ 5,885,434		1,553	₹ 3,755	₹ 5,836,464				₹ 0
44	Providing and fixing G.I. pipes medium class complete with G.I. fittings as per IS : 1239 (Part-2) including trenching and refilling etc. Extra work								₹ 0		-						₹ 0
45	25 mm d.n. nominal bore	9800	RM	₹ 124	₹ 1,215,700		8,930	₹ 139	₹ 1,241,210		9,800	₹ 139	₹ 1,363,203				₹ 0
46	Providing, laying, testing & field testing of High Density Polyethylene pipes, (HDPE) conforming to IS 4984/ 14333/ 12786/ 13488 with necessary jointing material like mechanical connector or jointing pieces by heating in the ends of pipes with the help of Teflon coated electric manual heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermo welding process. It may be required to be done with jacks/hydraulic jacks/ butt fusion machine. (50mm & above fusion jointed & below 50mm mechanical jointed) - PE 100						-				-						₹ 0
47	63 mm dia	30000	RM	₹ 218	₹ 6,550,000		30,203	₹ 248	₹ 7,486,776		30,200	₹ 248	₹ 7,491,776				₹ 0
48	110 mm dia	8800	RM	₹ 313	₹ 2,753,200		8,803	₹ 356	₹ 3,073,839		8,800	₹ 356	₹ 3,072,834				₹ 0
49	125 mm dia	7800	RM	₹ 405	₹ 3,155,000		7,903	₹ 461	₹ 3,641,286		7,000	₹ 459	₹ 3,213,209				₹ 0
50	140 mm dia	5500	RM	₹ 524	₹ 2,777,000		5,503	₹ 596	₹ 3,112,348		5,000	₹ 598	₹ 2,917,948				₹ 0
51	160 mm dia	3900	RM	₹ 616	₹ 2,397,000		3,903	₹ 701	₹ 2,737,329		3,500	₹ 700	₹ 2,453,329				₹ 0
52	Providing, and laying Bend 90 conforming to IS specifications.										-						₹ 0
53	90 mm dia	1300	each	₹ 179	₹ 234,000		1,203	₹ 203	₹ 244,169		1,200	₹ 201	₹ 241,169				₹ 0
54	110 mm dia	1000	each	₹ 198	₹ 198,000		1,004	₹ 227	₹ 227,209		1,000	₹ 242	₹ 242,224				₹ 0
55	125 mm dia	650	each	₹ 241	₹ 156,650		803	₹ 260	₹ 208,803		810	₹ 260	₹ 210,409				₹ 0
56	140 mm dia	550	each	₹ 464	₹ 255,200		553	₹ 321	₹ 177,553		550	₹ 321	₹ 176,553				₹ 0
57	160 mm dia	470	each	₹ 615	₹ 289,050		474	₹ 747	₹ 354,144		470	₹ 747	₹ 351,144				₹ 0
58	Providing and laying Bend 45 conforming to IS specifications.										-		₹ 0				₹ 0
59	90 mm diameter	1300	each	₹ 140	₹ 182,000		1,303	₹ 159	₹ 207,341		1,300	₹ 159	₹ 203,341				₹ 0
60	110 mm diameter	670	each	₹ 202	₹ 135,470		673	₹ 231	₹ 154,304		670	₹ 231	₹ 154,304				₹ 0
61	125 mm diameter	700	each	₹ 391	₹ 273,700		703	₹ 439	₹ 307,309		700	₹ 439	₹ 307,309				₹ 0
62	140 mm diameter	550	each	₹ 571	₹ 314,050		553	₹ 571	₹ 315,630		550	₹ 571	₹ 314,050				₹ 0
63	160 mm diameter	400	each	₹ 813	₹ 325,200		403	₹ 824	₹ 332,044		400	₹ 824	₹ 329,600				₹ 0

64	MDPE Pipes House Services Connection with accessory Electric Pumps & Compression fittings. B.I. Providing and Supplying fibre MDPE pipes conforming to IS/ ANSI/ 1006 manufactured from virgin resin PE 80 rated grade compounded Raw Material having fibre colour only with quality assurance certificate from quality agencies like BIS/ CPRI/ CMDA/ EVCMA/IRWA/SPCA etc. for usage in Drinking Water System. The cost shall include testing of all materials, all taxes Central, State, Municipal, inspection charges, insurance taxes, octroi, transit insurance, loading, unloading, storing etc. complete.				₹ 0							₹ 0
65	75 mm dia - PE 80 (SDR 9)	5000	meter	₹ 23	₹ 114,240	5,000	₹ 37	₹ 217,979	5,000	₹ 37	₹ 217,979	₹ 0
	Total				₹ 148,898,191	97,000		₹ 144,901,001	82,000		₹ 149,475,040	-₹ 54,594,458
	Amount as per per rate sheet given in tender				₹ 148,898,728			₹ 144,901,002				
	Cost difference due to fitter work as mentioned in description				-₹ 425			-₹ 101				
					₹ 0			₹ 0				
	% cost difference				₹ 0							
2	Construction RCC sys. of circular type manhole (including cost of cement concrete work)					-	₹ 0	₹ 0				
1	Construction of circular type manhole 900 mm internal dia of bottom 500 mm dia at top, inter depth of manhole 900mm in brick masonry with 1:5 cement mortar (1 cement :5 fine sand), 12mm thick cement plaster 1:3 (1 cement :3 fine sand) finished with a floating coat of neat cement, 75 cm foundation in Cement concrete grade M10 (nominal mix) with stone aggregate 40mm nominal size, RCC top slab Cement concrete M20 with stone aggregate 20mm nominal size and making slurry of in cement concrete grade m15 (nominal mix) with stone aggregate 20mm nominal size neatly finished, curing fixing of IS marked heavy duty SFRC cover etc complete as per standard design.	1454	each manhole	₹ 6,813	₹ 10,091,950	1,454	₹ 7,782	₹ 11,316,900	2,139	₹ 7,782	₹ 16,639,047	₹ 7,525,289
2	Add extra for depth above 900 mm up to 1050 mm.	871	Meter	₹ 3,334	₹ 2,904,382	871	₹ 4,417	₹ 3,848,128	871	₹ 4,417	₹ 3,848,128	₹ 10,018
3	Construction of circular type manhole 1200 mm internal dia at bottom 500 mm dia at top in brick masonry class designation 40 with 1:4 cement mortar (1 cement :4 fine sand) 1000 mm depth, 12 mm thick cement plaster 1:3 finished with a finishing coat of neat cement,10 mm thick foundation in cement concrete M-10 (Nominal mix) with stone aggregate 40 MM nominal size, RCC Grade M-20 (nominal mix) with stone aggregate 20mm nominal size on top slab (1 cement: 1.5 sand :3 graded stone aggregate and making slurry of in cement concrete M15 (nominal mix) 1:2:4 mix with nominal size 20 mm neatly finished curing and fixing of SFRC cover and frame (heavy duty H2-22) 562 MM internal dia conforming to IS 12592.	1130	each manhole	₹ 15,715	₹ 15,630,170	1,130	₹ 14,838	₹ 17,715,533	409	₹ 14,838	₹ 7,434,417	-₹ 10,372,191
4	Add extra depth of man hole mentioned at item 3 & 10 from 1000 mm to 1250 mm with modular bricks designation 40.	305	Meter	₹ 3,403	₹ 1,371,039	305	₹ 4,003	₹ 2,213,645	153	₹ 4,003	₹ 780,001	-₹ 1,472,262

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3	Construction of circular type manhole 1100 mm internal dia of bottom 900 mm dia of top, total depth of manhole 2600mm in brick masonry with (1) cement mortar (3 cement : 5 fine sand), 12mm thick cement plaster 1:3 finished with a floating coat of neat cement, 20cm thick foundation in cement concrete grade M7.5 with stone aggregate 40 MM nominal size, RCC Grade M-20 (nominal mix) with stone aggregate 20mm nominal size on top slab (1 cement: 1.5 sand :3 graded stone aggregate and making channel in cement concrete M15 (nominal mix 1:2:4 mix with nominal size 20 mm, neatly finished curing and fixing of Dr marked reinforced concrete heavy duty cover including transportation etc, complete as per standard design (Drawing No.35.) total depth of manhole 2600 mm	1400	each	₹ 28,861	₹ 39,999,035		1,402	₹ 22,531	₹ 31,640,752		1,610	₹ 22,151	₹ 35,675,851		-₹ 5,171,862
4	Depth 2.01 m to 4.22 m depth	901	Meter	₹ 8,758	₹ 7,889,614		908	₹ 8,834	₹ 8,060,014		791	₹ 8,834	₹ 6,987,384		-₹ 5,117,999
5	Depth 4.21 m to 6.75 m depth	899	Meter	₹ 14,629	₹ 13,147,141		908	₹ 14,910	₹ 13,535,320		908	₹ 14,910	₹ 13,535,320		-₹ 8,961,563
6	Providing SCI drop connection with SCI deep pipe and bend encased all round with cement concrete grade M3 (nominal mix) with stone aggregate 40mm nominal size including cutting holes and making good with brick work in cement mortar 1:5 (1 cement : 5 fine sand), plastered with C.M. (1:3 (1 cement : 3 fine sand), on inside wall including bend calculated pipes and jointing DIP Pipes & SCI pipes with cliff cement mortar 1:3 including making required channels etc, complete				₹ 0										
9	For 150 mm drop connection	19	Nos.	₹ 4,533	₹ 45,100		10	₹ 5,004	₹ 50,041		10	₹ 5,004	₹ 50,041		₹ 0
10	Add rate for depth more than 6.00 mm														
11	Extra dia	15	per m	₹ 1,833	₹ 27,450		10	₹ 3,098	₹ 30,923		10	₹ 3,098	₹ 30,923		₹ 0
12	Providing MS(R) foot rest and fixing in manhole walls or blocks of cement concrete grade M10 (nominal mix) with stone aggregate 20mm nominal size of size 30x30x30 cms, with 20mm square bar / starting one foot rest (average weight of 1 foot rest 2.35 kg)	20400	Kg	₹ 66	₹ 1,353,040		36,440	₹ 74	₹ 2,672,631		36,540	₹ 74	₹ 2,688,273		-₹ 35,568
		4,094			₹ 82,439,881		-		₹ 92,274,791		-		₹ 96,616,043		-₹ 28,172,148
3	Construction of 1 nos. Sewerage treatment Plant each of 10 MLD based on activated sludge technology The plant shall have SCADA-PLC for controlling and monitoring of process equipment.	1		₹ 123,000,000	₹ 126,000,000	10.00%	1	₹ 134,752,500	₹ 134,752,500	10.00%	1	₹ 134,752,500	₹ 134,752,500	10.00%	₹ 0
		1			₹ 126,000,000		1	₹ 134,752,500	₹ 134,752,500		1	₹ 134,752,500	₹ 134,752,500		₹ 0
4	For laying the pipe in existing to the minimum structure of pipe, also collect in appropriate width. The excavation of earth in layers of mass shall be carried out as per sequence of lot with in the particular being carried in Schedule of rates. The pipe shall be laid over the approved bedding and in close trench as per specifications. After laying of pipe, the back filling with approved material shall be carried out in so such a way that the compaction is achieved the 100% of MDD. For reconstruction of roads, the sub grade, the sub base, the base course and the surface course shall be constructed as per specifications. The surface and overlayment on pavement or road being reconstructed over the laid pipe shall be carried on the road which was existing before the laying of pipes.														
1	Earth work in excavation for trenches in all sorts of soil & WBM including dewatering, watering and connecting and disposal of excavated earth, lead upto 50 M and lift upto 1.5 m, excepting earth to be neatly levelled.	270,150													
a	upto 1.5 m deep	140,001	cum	₹ 119	₹ 16,630,109		149,001	₹ 140	₹ 21,086,280		181,740	₹ 145	₹ 26,340,365		₹ 4,745,855
b	>1.5m and upto 3.0m deep	77,748	cum	₹ 138	₹ 10,420,607		77,748	₹ 151	₹ 11,750,612		71,803	₹ 151	₹ 10,851,687		-₹ 891,175
c	>3.0m and upto 4.5m deep	30,754	cum	₹ 159	₹ 4,822,545		30,754	₹ 156	₹ 4,865,648		40,910	₹ 156	₹ 6,043,620		₹ 1,377,937
d	>4.5m and upto 6.0m deep	10,756	cum	₹ 144	₹ 1,473,167		10,756	₹ 162	₹ 1,753,009		30,664	₹ 162	₹ 5,000,230		₹ 3,626,544
e	>6.0m and upto 7.5m deep	1,344	cum	₹ 149	₹ 200,340		1,344	₹ 162	₹ 218,016		1,672	₹ 162	₹ 270,864		₹ 38,083
2	Additional lift to be executed under water and in liquid mud, including pumping out water as required	27,015	cum	₹ 26	₹ 699,699		27,015	₹ 29	₹ 785,648		27,015	₹ 29	₹ 785,648		₹ 0
3	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in the layers not exceeding 20 cm in depth, consolidating each deposited layer, watering and watering, lead up to 50m and lift upto 1.5 m.	270,152	Cum	23	₹ 7,094,408		270,152	₹ 30	₹ 8,106,888		270,152	₹ 30	₹ 8,106,888		₹ 0
4	Dismantling of bituminous pavements and disposal of dismantled materials, up to a lead of 1000 meters, including concrete and unremovable materials separately as per relevant clauses of Section 200				₹ 0		-	₹ 0	₹ 0		-	₹ 0	₹ 0		₹ 0

a	Miscellaneous items	906	Cum	₹ 358	₹ 317,294	906	₹ 432	₹ 391,139	₹ 0
b	Granular surface	1,996	Cum	₹ 277	₹ 552,192	1,996	₹ 277	₹ 553,192	₹ 0
8	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, where ever necessary, cutting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 meters.				₹ 0	-	₹ 0	₹ 0	₹ 0
a	Cement Concrete Grade M-15 & M-10	171	Cum	₹ 234	₹ 40,900	171	₹ 263	₹ 45,081	₹ 0
b	Rubble stone masonry in cement mortar.	370	Cum	₹ 153	₹ 56,900	370	₹ 168	₹ 62,359	₹ 0
c	Dismantling brick / Tile work in cement mortar	103	Cum	₹ 132	₹ 13,500	103	₹ 168	₹ 16,815	₹ 0
9	Dismantling of cement concrete pavement 50 breaking in pieces not exceeding 0.2 cum in volume and stack piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters, shading serviceable and unserviceable materials separately as per relevant clauses of Section-200.	19464	Cum	₹ 7.6	₹ 11,455,251	19,464	₹ 8.0	₹ 12,004,496	₹ 0
7	Loading & unloading of stone boulder / stone aggregates/ sand / rubble/ murum, 3F lading / open or loading point, dumping with front end loader, dumping, turning for return trip, including time for haulage and return trip / for a lead up to 1 km.	16803	Cum	₹ 102	₹ 1,694,196	16,803	₹ 115	₹ 1,902,345	₹ 0
6	Carriage of Material by Mechanical transport including loading unloading & stacking etc. / lead up to 1 km distance.	6,891.	Cum	₹ 60	₹ 1,186,000	6,891	₹ 60	₹ 1,211,124	₹ 0
8	Construction of granular sub base by providing close graded material, spreading in uniform layers with an even surface, mixing in place in place method or CMC, and compacting with vibratory roller to achieve the desired density, complete in all respects as per relevant clauses of Section-400. Grading - I Material	1842	Cum	₹ 604	₹ 1,112,569	1,842	₹ 675	₹ 1,243,251	₹ 0
10	Construction of dry lean cement concrete sub base over a prepared sub grade with coarse and fine aggregate not exceeding 25 mm, aggregate cement ratio not exceeding 11:1, aggregate gradation after blending to be as per table of MORTH Specifications 403-2, cement content not to be less than 200 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not o be less than 10 Mpa at 7 days mixed in a batching plant, transported to site laid with paver with electronic sensor/mechanical power, compacting with 8-10 tons vibratory roller, finishing and curing as per relevant clauses of section 403.	7371	Cum	₹ 2,715	₹ 20,017,365	7,371	₹ 3,046	₹ 22,452,909	₹ 0
11	Construction of Dowel jointed plain cement concrete pavement in M-30 grade concrete over a prepared sub base with 43 grade cement 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 with spreading concrete by shovels, non-corrosive tying needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dower bar, for proper alignment as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC 15:2002 and relevant clauses of section 602 of specifications complete but excluding cost for dowel dowel bar and tie rod etc.	14,112	Cum	₹ 5,698	₹ 80,234,878	14,112	₹ 5,375	₹ 77,966,610	₹ 0

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(PDH(-1))

12	Providing laying, spreading and compacting stone aggregates of specific sizes as per to Water bound Macadam specifications including spreading to uniform thickness, hand packing, rolling with power roller 8-10 tonnes, to origin to proper grade and camber, applying and brooming regulate type of screening (Table 400-1) binding materials to fill up the interstices of coarse aggregates, watering (with water licensed) and compacting to required density, making necessary earthen bund to protect edges as per clause 406 of MoRTH specification including all material, labour, machinery, lighting, guarding and maintenance of diversion complete				₹ 0	23.68%	-	₹ 0	₹ 0	23.68%		₹ 0		33.26%	₹ 0
a	Grading (I) (b) Wet Screening Non- Crushable type	922	Cum	₹ 1,015	₹ 934,770		922	₹ 1,762	₹ 1,627,636		922	₹ 1,762	₹ 1,624,502		-₹ 347,483
b	Grading (II) (b) Wet Screening Non- Crushable type	691	Cum	₹ 933	₹ 644,844		691	₹ 1,015	₹ 701,190		691	₹ 1,303	₹ 900,938		-₹ 259,386
c	Grading (III) (b) Wet Screening Non- Crushable type	851	Cum	₹ 851	₹ 543,521		634	₹ 1,141	₹ 722,735		867	₹ 1,140	₹ 988,452		-₹ 233,003
13	Providing and applying primer coat with bitumen emulsion over prepared surface of granular base including cleaning of road surface and spraying primer @ 0.75 kg per square using mechanical / manual means and as per relevant clauses of section 501	9222	Sqm	₹ 26	₹ 239,586		9,253	₹ 39	₹ 360,863		9,227	₹ 39	₹ 359,761		-₹ 87,173
14	Providing and applying tack coat with bitumen emulsion using circulation pressure distributor on the prepared bituminous/ granular surface cleaned with mechanical brooms and as per relevant clauses of section-501 @ 0.10 kg per Sqm (Non-bituminous surfaces/ granular base not primed.	9212	Sqm	₹ 14	₹ 128,932		9,211	₹ 15	₹ 144,028		9,211	₹ 16	₹ 147,888		-₹ 45,939
15	Providing and laying bituminous macadam with hot mix plant using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.5 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section 501 for binding & bitumen content 3.25%	922	Cum	₹ 5,168	₹ 5,180,930		922	₹ 6,249	₹ 5,761,280		922	₹ 6,249	₹ 5,852,531		-₹ 1,868,354
16	Providing, laying and rolling of close graded premix surfacing/ mixed coal surfacing material of 20 mm thickness comprised of 11.2 mm to 3.09 mm (Type A) or 13.2 mm to 0.09 mm (Type B) aggregates using penetration grade bitumen to the required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a smooth wheeled roller 8-10 tonne capacity, and finishing to required level and grade and as per relevant clauses of section 503. Type A or B aggregate with 50/70 bitumen	9213	Sqm	₹ 150	₹ 1,381,990		9,213	₹ 166	₹ 1,531,727		9,227	₹ 168	₹ 1,549,862		-₹ 502,025
17	Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified level, grade and cross fall using Type-B (without sand mix plant / paver finisher) seal coats and as per relevant clauses of section-519 with bitumen. (This item can be executed only with prior approval of the chief engineer NHDP).	9213	Sqm	₹ 29	₹ 267,177		9,213	₹ 33	₹ 304,263		9,227	₹ 33	₹ 304,769		-₹ 97,233
18	Cement concrete grade M-25 (Nominal Mix) with 20 mm maximum size of stone aggregate (for providing CC encasing of the pipes as per specification or as directed by Engineer.)	146	Cum	₹ 4,254	₹ 2,214,362		146	₹ 4,864	₹ 2,531,739		146	₹ 4,864	₹ 2,531,739		₹ 0
18 A	with PCC extended as per clause 2604 of specifications/Cement concrete grade M-35 (Nominal Mix) with 20 mm maximum size of stone aggregate (for providing CC encasing of the pipes as per specifications and as directed by Engineer.)														
a	300 mm dia RCC NP 4 pipe			₹ 4,184					₹ 1,885		413,751	₹ 4,601	₹ 286,487		
b	450 mm dia RCC NP 4 pipe			₹ 4,184					₹ 2,861		378,288	₹ 4,603	₹ 686,106		

18	Providing and laying in position specified grade of reinforced cement concrete including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : Cement concrete grade M30 (Nominal Mix), with 20 mm maximum size of stone aggregate	75	Cum	₹ 4,755	₹ 356,813		75	₹ 5,100	₹ 382,501		75	₹ 5,369	₹ 402,654		₹ 0
19	Centering and shuttering including shuttering, propping etc. and removal of form for :				₹ 0		-	₹ 0	₹ 0		-	₹ 0			₹ 0
a	Foundations, footings, bases of columns, etc. for mass concrete.	110	Sqm	₹ 198	₹ 21,700		110	₹ 215	₹ 23,219		110	₹ 226	₹ 24,841		₹ 0
b	Columns, Pillars, Piers, Abutments, Posts and Struts	130	Sqm	₹ 281	₹ 36,690		130	₹ 317	₹ 41,164		130	₹ 347	₹ 45,161		₹ 0
21	Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage etc. complete (Fe415 bar)	4710	Kg	₹ 63	₹ 297,909		4,710	₹ 67	₹ 317,319		4,710	₹ 67	₹ 317,319		₹ 0
22	Random rubble masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) up to plinth level with (Cement mortar 1:6 (1 cement : 6 sand)	250	Cum	₹ 2,571	₹ 642,500		250	₹ 2,800	₹ 700,000		250	₹ 2,910	₹ 727,500		₹ 0
23	12 mm cement plaster of mix (Cement mortar 1:4 (1 cement : 4 fine sand)	1850	Sqm	₹ 120	₹ 220,500		1,850	₹ 121	₹ 224,140		1,850	₹ 123	₹ 227,546		₹ 0
24	Providing 63 KVA Generator set with 2 to 3 nos. of 3000-4250 lpm Capacity DV Minum Tube wellsand capacity 6240 (pm) 12 meter head non-clog Sewage pumps with guard board, Submersible Cable, 150mm dia PVC Suction and delivery Hose in 15mtr length with a set of pipe connection complete for total piping length 180mtr, Will management consumables, fuel oil, including operator and maintenance during contract period (for Daylight working)	1043	Hour	₹ 175	₹ 1,861,725		2,243	₹ 846	₹ 2,000,972		2,243	₹ 846	₹ 2,000,972		₹ 0
	Total				₹ 107,898,079				₹ 108,319,874				₹ 109,898,078		₹ 6,008,085
	Amount as per pre-est. sheet given in tender				₹ 107,898,079				₹ 108,348,874						
	Cost difference due to Misc. works as mentioned in description				₹ 0				₹ 0						
	% cost difference				₹ 0				₹ 0			₹ 0			
8	Construction of Sewage Pumping Station with Pump house including fitting mains, fixtures, Approach road, Gate, Site development & all necessary electrical and mechanical accessories. Job includes pumps. Job includes construction of necessary collection and required associated works to complete the job in all respects/Pumps (100% stand by) (i) 41 lps, Dia, 14.00 kw (2 pump sets) (ii) 81 lps, Dia, 25.00 kw (2 pump sets) (iii) 162 lps, Dia, 40.00 kw (2 pump sets)			₹ 36,036,336	₹ 38,036,336	3.65%	1	₹ 40,465,000	₹ 40,465,000	6.04%	1	₹ 40,465,000	₹ 40,465,000	4.00%	₹ 0
9	Construction of House hold connection with road cells chamber of brick masonry inside dimension 1200 x 600 mm dia, 60 cm deep for single pipe including providing and fitting of 100 / 160 mm PVC HDPE pipe with road restoration as per site requirements. Two house hold connection will be connected to one property connection chamber.			₹ 88,219,545	₹ 88,219,545	12.46%	1	₹ 98,097,000	₹ 98,097,000	13.48%	1	₹ 99,097,000	₹ 99,097,000	11.75%	₹ 0
7	Providing RC feeder connection up to Sewerage treatment plant.			₹ 6,018,180	₹ 6,018,180	0.86%	1	₹ 6,737,000	₹ 6,737,000	0.88%	1	₹ 6,737,000	₹ 6,737,000	0.80%	₹ 0
8	Providing House Sewerage connection for 13545 households	13545	NOS.	₹ 3,300	₹ 44,698,500	6.32%	13,545	₹ 3,430	₹ 46,446,000	6.42%	13,545	₹ 3,430	₹ 46,446,000	5.45%	₹ 0
9	Construction of 20 lakh litre cum treated water reservoir (MBR) of capacity 1000 KL along with providing and installation of pumps for pumping & Providing laying and leaving of 110 mm diameter PVC pipes for treated sewage water to be reused in green space within Municipal Council			₹ 18,692,500	₹ 19,692,500	2.78%	1	₹ 22,101,000	₹ 22,101,000	3.05%	1	₹ 22,101,000	₹ 22,101,000	2.59%	₹ 0

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						₹ 712,404,807				₹ 705,910,036	₹ 0			₹ 708,870,204	99.29%	₹ 0
		EXTRA ITEMS :-														₹ 0
1																₹ 0
	c	Providing, laying and jointing non pressure NP-4 RCC socket & spigot pipe with rubber gasket joints including testing of joints (Conforming to IS:458-1988, IS marked Grading as per IS:783-1985).														
	a	300 mm dia RCC NP-4 pipe							₹ 0	-		3,314	₹ 7,515	₹ 16,088,781	1.209%	
	b	1200 mm dia RCC NP-4 pipe							₹ 0	-		5,163	₹ 32,708	₹ 56,/09,918	0.376%	
2		Construction 60 mm. of circular type manhole (including cost of cover appurtenances)														
		Construction of circular type manhole 2100 mm internal dia of bottom 560 mm dia at top, total depth of manhole 2100mm in brick masonry with 1:4 cement mortar (1 cement :4 fine sand), 12mm thick cement plaster 1:3 finished with a floating coat of neat cement, 30cm thick foundation in cement concrete grade M25 with stone aggregate 40 MM nominal size, RCC Grade M-20 (nominal mix) with stone aggregate 20mm nominal size as top slab (1 cement: 1.5 sand :3 graded stone aggregate and making channel in cement concrete M15 (nominal mix) 1:2:4 mix with nominal size 20 mm, nearly finished curing and fixing of ISI marked reinforced concrete heavy duty cover including transportation etc. complete as per standard design (Drawing No 01)	EACH	₹ 55,562			210	₹ 52,411	₹ 11,006,341		190	₹ 52,411	₹ 9,958,249.00	1.40%	
		Add extra for depth above 2100mm up to 4500mm.	PM	₹ 10,217			200.82	₹ 11,473	₹ 2,301,503		200.82	₹ 11,473	₹ 2,301,503.00	0.27%	
		Add extra for depth above 4500mm up to 7000mm.	PM	₹ 15,038			72.00	₹ 17,784	₹ 1,280,369		72.00	₹ 17,784	₹ 1,280,369.00	0.152%	
		Total Extra Item												₹ 81,741,390	9.71%	

(Senior Design Engineer)
(PDM(-I))