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**Percentage BoQ**

Tender Inviting Authority: PUBLIC HEALTH ENGINEER SOLAPUR MUNICIPAL CORPORATION

Name of Work: SOLAPUR CITY UNDERGROUND SEWERAGE SCHEME (AMRUT)

Contract No: CIVILL WORK

Name of the Bidder/ Bidding Firm / Company :						
<b>PRICE SCHEDULE</b>						
<b>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )</b>						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	53	55
1	<b>Sub Work No.1 A:- Collection System for Zone</b>					
2	<b>Sub Work No.1 A:- Collection System for Zone IX</b> <b>Item No.1:</b> Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete. Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment <b>RCC NP 3 Class</b> 150 mm dia.	1961.00	Rmt	357.00	<b>700077.00</b>	INR Seven Lakh & Seventy Seven Only

3	200 mm dia.	1710.00	Rmt	394.00	<b>673740.00</b>	INR Six Lakh Seventy Three Thousand Seven Hundred & Forty Only
4	250 mm dia.	2009.00	Rmt	541.00	<b>1086869.00</b>	INR Ten Lakh Eighty Six Thousand Eight Hundred & Sixty Nine Only
5	300 mm dia.	3529.00	Rmt	757.00	<b>2671453.00</b>	INR Twenty Six Lakh Seventy One Thousand Four Hundred & Fifty Three Only
6	350 mm dia.	1162.00	Rmt	1260.00	<b>1464120.00</b>	INR Fourteen Lakh Sixty Four Thousand One Hundred & Twenty Only
7	400 mm dia.	1241.00	Rmt	1344.00	<b>1667904.00</b>	INR Sixteen Lakh Sixty Seven Thousand Nine Hundred & Four Only
8	450 mm dia.	1087.00	Rmt	1449.00	<b>1575063.00</b>	INR Fifteen Lakh Seventy Five Thousand & Sixty Three Only
9	500 mm dia.	1098.00	Rmt	1785.00	<b>1959930.00</b>	INR Nineteen Lakh Fifty Nine Thousand Nine Hundred & Thirty Only
10	700 mm dia.	29.00	Rmt	2940.00	<b>85260.00</b>	INR Eighty Five Thousand Two Hundred & Sixty Only
11	800 mm dia.	540.00	Rmt	3150.00	<b>1701000.00</b>	INR Seventeen Lakh One Thousand Only
12	RCC NP 4 Class 250 mm dia.	165.00	Rmt	617.00	<b>101805.00</b>	INR One Lakh One Thousand Eight Hundred & Five Only
13	300 mm dia.	238.00	Rmt	945.00	<b>224910.00</b>	INR Two Lakh Twenty Four Thousand Nine Hundred & Ten Only
14	350 mm dia.	91.00	Rmt	1344.00	<b>122304.00</b>	INR One Lakh Twenty Two Thousand Three Hundred & Four Only
15	400 mm dia.	140.00	Rmt	1470.00	<b>205800.00</b>	INR Two Lakh Five Thousand Eight Hundred Only
16	600 mm dia.	567.00	Rmt	2520.00	<b>1428840.00</b>	INR Fourteen Lakh Twenty Eight Thousand Eight Hundred & Forty Only
17	800 mm dia.	60.00	Rmt	3413.00	<b>204780.00</b>	INR Two Lakh Four Thousand Seven Hundred & Eighty Only

18	<b>Item No.2:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage Class SN 8 150 mm dia.(ID)	124424.00	Rmt	378.00	<b>47032272.00</b>	INR Four Crore Seventy Lakh Thirty Two Thousand Two Hundred & Seventy Two Only
19	170 mm dia.(ID)	3543.00	Rmt	437.00	<b>1548291.00</b>	INR Fifteen Lakh Forty Eight Thousand Two Hundred & Ninety One Only
20	200 mm dia.(ID)	1261.00	Rmt	594.00	<b>749034.00</b>	INR Seven Lakh Forty Nine Thousand &Thirty Four Only
21	250 mm dia.(ID)	1434.00	Rmt	1007.00	<b>1444038.00</b>	INR Fourteen Lakh Forty Four Thousand &Thirty Eight Only
22	<b>Item No.3:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	38996.09	Cum	155.10	<b>6048293.56</b>	INR Sixty Lakh Forty Eight Thousand Two Hundred & Ninety Three and Paise Fifty Six Only

23	<b>Item No.4:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	53963.68	Cum	198.00	<b>10684808.64</b>	INR One Crore Six Lakh Eighty Four Thousand Eight Hundred & Eight and Paise Sixty Four Only
24	<b>Item No.5:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	99670.06	Cum	487.30	<b>48569220.24</b>	INR Four Crore Eighty Five Lakh Sixty Nine Thousand Two Hundred & Twenty and Paise Twenty Four Only
25	Lift 1.5 -3.0 M.	18670.38	Cum	509.30	<b>9508824.53</b>	INR Ninety Five Lakh Eight Thousand Eight Hundred & Twenty Four and Paise Fifty Three Only
26	<b>Item No.6:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. 'Lift 0-1.50 M.	8277.38	Cum	826.10	<b>6837943.62</b>	INR Sixty Eight Lakh Thirty Seven Thousand Nine Hundred & Forty Three and Paise Sixty Two Only
27	Lift 1.5 -3.0 M.	31451.45	Cum	848.10	<b>26673974.75</b>	INR Two Crore Sixty Six Lakh Seventy Three Thousand Nine Hundred & Seventy Four and Paise Seventy Five Only
28	Lift 3.0 -4.5 M.	7593.83	Cum	870.10	<b>6607391.48</b>	INR Sixty Six Lakh Seven Thousand Three Hundred & Ninety One and Paise Forty Eight Only
29	Lift 4.5-6.0 M.	971.81	Cum	892.10	<b>866951.70</b>	INR Eight Lakh Sixty Six Thousand Nine Hundred & Fifty One and Paise Seventy Only
30	Lift 6.0-7.5 M.	1.49	Cum	914.10	<b>1362.01</b>	INR One Thousand Three Hundred & Sixty Two and Paise One Only

31	<b>Item No.7:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	288.00	Cum	957.60	<b>275788.80</b>	INR Two Lakh Seventy Five Thousand Seven Hundred & Eighty Eight and Paise Eighty Only
32	<b>Item No.8:</b> Providing & filling in sand boxing in pipeline or for foundation with sand of approved quality including watering and compaction,etc.complete.	1829.98	Cum	977.55	<b>1788896.95</b>	INR Seventeen Lakh Eighty Eight Thousand Eight Hundred & Ninety Six and Paise Ninety Five Only
33	<b>Item No.9:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	16469.84	Cum	67.20	<b>1106773.25</b>	INR Eleven Lakh Six Thousand Seven Hundred & Seventy Three and Paise Twenty Five Only
34	<b>Itemo.10 :</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 150 mm dia.	1961.00	Rmt	57.75	<b>113247.75</b>	INR One Lakh Thirteen Thousand Two Hundred & Forty Seven and Paise Seventy Five Only
35	200 mm dia.	1710.00	Rmt	76.65	<b>131071.50</b>	INR One Lakh Thirty One Thousand & Seventy One and Paise Fifty Only
36	250 mm dia.	2174.00	Rmt	99.75	<b>216856.50</b>	INR Two Lakh Sixteen Thousand Eight Hundred & Fifty Six and Paise Fifty Only
37	300 mm dia.	3767.00	Rmt	120.75	<b>454865.25</b>	INR Four Lakh Fifty Four Thousand Eight Hundred & Sixty Five and Paise Twenty Five Only
38	350 mm dia.	1253.00	Rmt	123.90	<b>155246.70</b>	INR One Lakh Fifty Five Thousand Two Hundred & Forty Six and Paise Seventy Only
39	400 mm dia.	1381.00	Rmt	158.55	<b>218957.55</b>	INR Two Lakh Eighteen Thousand Nine Hundred & Fifty Seven and Paise Fifty Five Only
40	450 mm dia.	1087.00	Rmt	189.00	<b>205443.00</b>	INR Two Lakh Five Thousand Four Hundred & Forty Three Only

41	500 mm dia.	1098.00	Rmt	206.85	<b>227121.30</b>	INR Two Lakh Twenty Seven Thousand One Hundred & Twenty One and Paise Thirty Only
42	600 mm dia.	567.00	Rmt	260.40	<b>147646.80</b>	INR One Lakh Forty Seven Thousand Six Hundred & Forty Six and Paise Eighty Only
43	700 mm dia.	29.00	Rmt	295.05	<b>8556.45</b>	INR Eight Thousand Five Hundred & Fifty Six and Paise Forty Five Only
44	800 mm dia.	600.00	Rmt	341.25	<b>204750.00</b>	INR Two Lakh Four Thousand Seven Hundred & Fifty Only
45	<b>Item No.11:</b> Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. 150 mm dia.	1.96	Km	6300.00	<b>12348.00</b>	INR Twelve Thousand Three Hundred & Forty Eight Only
46	200 mm dia.	1.71	Km	8400.00	<b>14364.00</b>	INR Fourteen Thousand Three Hundred & Sixty Four Only
47	250 mm dia.	2.17	Km	11550.00	<b>25063.50</b>	INR Twenty Five Thousand & Sixty Three and Paise Fifty Only
48	300 mm dia.	3.77	Km	13650.00	<b>51460.50</b>	INR Fifty One Thousand Four Hundred & Sixty and Paise Fifty Only
49	350 mm dia.	1.25	Km	13650.00	<b>17062.50</b>	INR Seventeen Thousand & Sixty Two and Paise Fifty Only
50	400 mm dia.	1.38	Km	17850.00	<b>24633.00</b>	INR Twenty Four Thousand Six Hundred & Thirty Three Only
51	450 mm dia.	1.09	Km	21000.00	<b>22890.00</b>	INR Twenty Two Thousand Eight Hundred & Ninety Only
52	500 mm dia.	1.10	Km	23100.00	<b>25410.00</b>	INR Twenty Five Thousand Four Hundred & Ten Only

53	600 mm dia.	0.57	Km	29400.00	<b>16758.00</b>	INR Sixteen Thousand Seven Hundred & Fifty Eight Only
54	700 mm dia.	0.03	Km	32550.00	<b>976.50</b>	INR Nine Hundred & Seventy Six and Paise Fifty Only
55	800 mm dia.	0.60	Km	37800.00	<b>22680.00</b>	INR Twenty Two Thousand Six Hundred & Eighty Only
56	<b>Item No.12:</b> Lowering, laying and jointing H.D.P.E. Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	124424.00	Rmt	33.60	<b>4180646.40</b>	INR Forty One Lakh Eighty Thousand Six Hundred & Forty Six and Paise Forty Only
57	170 mm dia.(ID)	3543.00	Rmt	36.75	<b>130205.25</b>	INR One Lakh Thirty Thousand Two Hundred & Five and Paise Twenty Five Only
58	200 mm dia.(ID)	1261.00	Rmt	39.90	<b>50313.90</b>	INR Fifty Thousand Three Hundred & Thirteen and Paise Ninety Only
59	250 mm dia.(ID)	1434.00	Rmt	49.35	<b>70767.90</b>	INR Seventy Thousand Seven Hundred & Sixty Seven and Paise Ninety Only

60	<b>Item No.13:</b> Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position., etc. complete H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	124.42	Km	3150.00	<b>391923.00</b>	INR Three Lakh Ninety One Thousand Nine Hundred & Twenty Three Only
61	170 mm dia.(ID)	3.54	Km	7350.00	<b>26019.00</b>	INR Twenty Six Thousand & Nineteen Only
62	200 mm dia.(ID)	1.26	Km	4200.00	<b>5292.00</b>	INR Five Thousand Two Hundred & Ninety Two Only
63	250 mm dia.(ID)	1.43	Km	5250.00	<b>7507.50</b>	INR Seven Thousand Five Hundred & Seven and Paise Fifty Only
64	<b>Item No.14:</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area for Lift 1.50 to 3.00 m.	1021.50	Sqm	252.00	<b>257418.00</b>	INR Two Lakh Fifty Seven Thousand Four Hundred & Eighteen Only
65	Water Logged Area for Lift 1.50 to 3.00 m.	1021.50	Sqm	250.95	<b>256345.43</b>	INR Two Lakh Fifty Six Thousand Three Hundred & Forty Five and Paise Forty Three Only



66	<b>Item No.15:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	415.57	Cum	4444.65	<b>1847063.20</b>	INR Eighteen Lakh Forty Seven Thousand &Sixty Three and Paise Twenty Only
67	<b>Item No.16:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other divices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	2460780.00	<b>2460780.00</b>	INR Twenty Four Lakh Sixty Thousand Seven Hundred & Eighty Only
68	<b>Item No.17:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5% for M.C..=Rs.2991.45 Upto 1.50 m depth.	3108.00	No.	18163.95	<b>56453556.60</b>	INR Five Crore Sixty Four Lakh Fifty Three Thousand Five Hundred & Fifty Six and Paise Sixty Only
69	Upto 2 m depth.	1461.00	No.	21155.40	<b>30908039.40</b>	INR Three Crore Nine Lakh Eight Thousand &Thirty Nine and Paise Forty Only

70	<p><b>Item No.18:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge.</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50 Upto 2.5 m depth.</p>	500.00	No.	29411.55	<b>14705775.00</b>	INR One Crore Forty Seven Lakh Five Thousand Seven Hundred & Seventy Five Only
71	Upto 3.0 m depth.	210.00	No.	35596.05	<b>7475170.50</b>	INR Seventy Four Lakh Seventy Five Thousand One Hundred & Seventy and Paise Fifty Only
72	Upto 3.50 m depth.	134.00	No.	41780.55	<b>5598593.70</b>	INR Fifty Five Lakh Ninety Eight Thousand Five Hundred & Ninety Three and Paise Seventy Only
73	Upto 4.0 m depth.	92.00	No.	47965.05	<b>4412784.60</b>	INR Forty Four Lakh Twelve Thousand Seven Hundred & Eighty Four and Paise Sixty Only
74	Upto 4.5 m depth.	40.00	No.	54149.55	<b>2165982.00</b>	INR Twenty One Lakh Sixty Five Thousand Nine Hundred & Eighty Two Only
75	Upto 5.0 m depth.	20.00	No.	60334.05	<b>1206681.00</b>	INR Twelve Lakh Six Thousand Six Hundred & Eighty One Only

76	<p><b>Item No.19:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge.</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50 5.50 m depth.</p>	14.00	No.	75414.15	<b>1055798.10</b>	INR Ten Lakh Fifty Five Thousand Seven Hundred & Ninety Eight and Paise Ten Only
77	6.0 m depth.	7.00	No.	83194.65	<b>582362.55</b>	INR Five Lakh Eighty Two Thousand Three Hundred & Sixty Two and Paise Fifty Five Only
78	6.5 m depth.	2.00	No.	90975.15	<b>181950.30</b>	INR One Lakh Eighty One Thousand Nine Hundred & Fifty and Paise Thirty Only
79	<p><b>Item No.20:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel</p>	3.30	MT	54803.70	<b>180852.21</b>	INR One Lakh Eighty Thousand Eight Hundred & Fifty Two and Paise Twenty One Only

80	<p><b>Item No.21:</b> Providing as per required dia S.W. or R.C.C. pipes in vertical drop arrangement including providing 150 mm dia S.W. and R.C.C. Pipe fixed in B.B. masonry of manhole at the required level including providing 150 mm dia. double tee, 150 mm dia right angled bend encasing in B.B. masonry 1:4 proportion all around the pipe, double tee, bend up to the foundation of manhole, jointing, cutting, filleting including neat cement rendering, plugging the opening with jungle wood knob complete as directed by Engineer-in- charge ( 0.60 M. depth) excluding cost of chamber.</p> <p>For 200 mm dia Pipes</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs. 791/-Add 5% for M.C .=Rs.830.55</p> <p>a) For depth up to 1.10 M</p>	5.00	No.	3432.45	<b>17162.25</b>	INR Seventeen Thousand One Hundred & Sixty Two and Paise Twenty Five Only
81	<p>For 250 mm dia Pipes</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs. 803/-Add 5% for M.C .=Rs.843.15</p> <p>a) For depth up to 1.10 M</p>	5.00	No.	3960.60	<b>19803.00</b>	INR Nineteen Thousand Eight Hundred & Three Only
82	<p>b) For depth up to 1.10 M to 1.60 M</p>	2.00	No.	4803.75	<b>9607.50</b>	INR Nine Thousand Six Hundred & Seven and Paise Fifty Only
83	<p>For 300 mm dia Pipes</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs. 923/-Add 5% for M.C .=Rs.969.15</p> <p>a) For depth up to 1.10 M</p>	5.00	No.	4755.45	<b>23777.25</b>	INR Twenty Three Thousand Seven Hundred & Seventy Seven and Paise Twenty Five Only
84	<p>b) For depth up to 1.10 M to 1.60 M</p>	1.00	No.	5724.60	<b>5724.60</b>	INR Five Thousand Seven Hundred & Twenty Four and Paise Sixty Only
85	<p>c) For depth up to 2.10 M to 2.60 M</p>	1.00	No.	7662.90	<b>7662.90</b>	INR Seven Thousand Six Hundred & Sixty Two and Paise Ninety Only
86	<p>For 350 mm dia Pipes</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1029/-Add 5% for M.C .=Rs.1080.45</p> <p>a) For depth up to 1.10 M to 1.60 M</p>	1.00	No.	6735.75	<b>6735.75</b>	INR Six Thousand Seven Hundred & Thirty Five and Paise Seventy Five Only

87	b) For depth up to 1.60 M to 2.10 M	1.00	No.	7825.65	<b>7825.65</b>	INR Seven Thousand Eight Hundred & Twenty Five and Paise Sixty Five Only
88	For 400 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1135/-Add 5% for M.C .=Rs.1191.75 a) For depth up to 1.10 M	1.00	No.	6536.25	<b>6536.25</b>	INR Six Thousand Five Hundred & Thirty Six and Paise Twenty Five Only
89	b) For depth up to 1.10 M to 1.60 M	1.00	No.	7746.90	<b>7746.90</b>	INR Seven Thousand Seven Hundred & Forty Six and Paise Ninety Only
90	For 450 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1194.5/-Add 5% for M.C .=Rs.1254.22 a) For depth up to 1.10 M	2.00	No.	6893.25	<b>13786.50</b>	INR Thirteen Thousand Seven Hundred & Eighty Six and Paise Fifty Only
91	For 500 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1254/-Add 5% for M.C .=Rs.1316.7 a) For depth up to 1.10 M	1.00	No.	7250.25	<b>7250.25</b>	INR Seven Thousand Two Hundred & Fifty and Paise Twenty Five Only
92	<b>Item No.22:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	209329.00	Cum	67.20	<b>14066908.80</b>	INR One Crore Forty Lakh Sixty Six Thousand Nine Hundred & Eight and Paise Eighty Only
93	<b>Item No.23:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	31966.00	Cum	195.62	<b>6253188.92</b>	INR Sixty Two Lakh Fifty Three Thousand One Hundred & Eighty Eight and Paise Ninety Two Only

94	<p><b>Item No.24:</b> Providing, fixing and erecting RCC (M20) Vent shaft with cowl, 125mm x 225mm internal and external dia respectively at top, 300mm and 450mm internal and external dia at bottom and 9.10m over all length, bottom 1.25m below ground level fixed in the pit 900mmx900mmx1500mm with PCC M15, 250mm in bed and 200mm around with top 150mm in cement concrete 1:2:4 (1 cement 2 coarse sand and 4 graded stone aggregate of 20mm nominal size) junction of vent shaft and concrete grouted with cement mortar 1:2 (1 cement and 2 fine sand) including making connection with sewer manhole with 150 mm dia NP4 RCC pipe (IS 458-ammended upto date) for 5.0 m length including Murum bedding complete and as per standard design and finished with water proofing cement of approved brand of required shade as per drawings and/or as directed by Engineer.Providing and fixing RCC ventilation shaft, making connection to manhole etc. complete as directed by EIC.</p>	10.00	No.	18516.00	<b>185160.00</b>	INR One Lakh Eighty Five Thousand One Hundred & Sixty Only
95	<p><b>Item No.25:</b> Road restoration:Reinstating the road surface with supplying &amp; spreading 60mm metal of 20 cm thick with Hard murum &amp; 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering &amp; compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.</p>	92727.75	Sqm	208.74	<b>19355990.54</b>	INR One Crore Ninety Three Lakh Fifty Five Thousand Nine Hundred & Ninety and Paise Fifty Four Only

96	<p><b>Item No. 25:</b> potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p>	24727.00	Sqm	873.47	21598292.69	<p>INR Two Crore Fifteen Lakh Ninety Eight Thousand Two Hundred &amp; Ninety Two and Paise Sixty Nine Only</p>
97	<p><b>Item No. 26: Concrete Road restoration</b> :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p><b>Item No. 26A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	618.20	Cum	496.10	306689.02	<p>INR Three Lakh Six Thousand Six Hundred &amp; Eighty Nine and Paise Two Only</p>

98	<b>Item No. 26B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38	618.20	Cum	5918.00	<b>3658507.60</b>	INR Thirty Six Lakh Fifty Eight Thousand Five Hundred & Seven and Paise Sixty Only
99	<b>Item No. 26C:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge	309.10	Cum	6998.20	<b>2163143.62</b>	INR Twenty One Lakh Sixty Three Thousand One Hundred & Forty Three and Paise Sixty Two Only
100	<b>Item No. 27: Shifting of Utilities:</b> All utilities like Electric Poles, waterline & Communication line Shifting while Manhole and Line Laying work etc., complete as per specifications and or as directed by engineer- in-charge. <b>Item No. 27A:</b> Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge. Water Supply Connections - 15 mm dia	30.00	Rmt	175.35	<b>5260.50</b>	INR Five Thousand Two Hundred & Sixty and Paise Fifty Only
101	Water Supply Connections - 20 mm dia	4.00	Rmt	205.80	<b>823.20</b>	INR Eight Hundred & Twenty Three and Paise Twenty Only
102	<b>Item No. 27B:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing & finishing in above manner ( for 9 mtr pole)	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only



103	<b>Item No. 27C:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
104	<b>Item No. 27D:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
105	<b>Item No. 27E:</b> Earthling : Providing erecting pipe type earthling of 40 mm GI pipe dia with double earthling to the all equipments as per Detailed specifications.	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only
106	<b>Item No. 27F:</b> Supply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TV	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
107	<b>Item No. 27G:</b> Supply & erecting of FR grade PVC armoured multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only
108	<b>Item No. 27H:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only

109	<b>Item No. 28:</b> Pushing of M.S. pipe of following dia. For road crossing and railway crossing by push through method in all types of strata by using hydraulic jack and drilling machine of required diameter of below MS casing pipes, lowering, laying & jointing of material, required welding machinery, tripod, chain pulley block, crane, blower, compressor, loading & unloading of machinery into the trench, etc. transportation and dewatering, etc. complete as directed by Engineer-in-charge but excluding the cost of MS pipes.-500 to 1000 mm dia. MS Pipe	100.00	Rmt	23920.05	<b>2392005.00</b>	INR Twenty Three Lakh Ninety Two Thousand & Five Only
110	MS Pipe 500 mm (ID) 10 mm thick	100.00	Rmt	6620.00	<b>662000.00</b>	INR Six Lakh Sixty Two Thousand Only
111	<b>Sub Work No.1 B:- PUMING STATION FOR ZONE IX @ DESAI NAGAR</b> <b>Item No. 1:</b> Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. upto 1.5m	686.29	Cum	148.05	<b>101605.23</b>	INR One Lakh One Thousand Six Hundred & Five and Paise Twenty Three Only
112	1.5 to 3 m	144.27	Cum	160.65	<b>23176.98</b>	INR Twenty Three Thousand One Hundred & Seventy Six and Paise Ninety Eight Only
113	<b>Item No. 2:</b> Excavation for foundation / pipe trenches in hard murum & boulders, WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. upto 1.5m	76.25	Cum	189.00	<b>14411.25</b>	INR Fourteen Thousand Four Hundred & Eleven and Paise Twenty Five Only
114	1.5 to 3 m	144.27	Cum	201.60	<b>29084.83</b>	INR Twenty Nine Thousand & Eighty Four and Paise Eighty Three Only
115	3m to 4.5m	61.83	Cum	214.20	<b>13243.99</b>	INR Thirteen Thousand Two Hundred & Forty Three and Paise Ninety Nine Only

116	<b>Item No. 3:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. 1.5 to 3 m	432.80	Cum	486.15	<b>210405.72</b>	INR Two Lakh Ten Thousand Four Hundred & Five and Paise Seventy Two Only
117	3m to 4.5m	309.14	Cum	507.15	<b>156780.35</b>	INR One Lakh Fifty Six Thousand Seven Hundred & Eighty and Paise Thirty Five Only
118	4.5m to 6m	346.24	Cum	528.15	<b>182866.66</b>	INR One Lakh Eighty Two Thousand Eight Hundred & Sixty Six and Paise Sixty Six Only
119	<b>Item No. 4:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. 3m to 4.5m	247.31	Cum	830.55	<b>205403.32</b>	INR Two Lakh Five Thousand Four Hundred & Three and Paise Thirty Two Only
120	4.5m to 6m	230.83	Cum	851.55	<b>196563.29</b>	INR One Lakh Ninety Six Thousand Five Hundred & Sixty Three and Paise Twenty Nine Only
121	6m to 7.5m	535.84	Cum	872.55	<b>467547.19</b>	INR Four Lakh Sixty Seven Thousand Five Hundred & Forty Seven and Paise Nineteen Only
122	More than 7.5 m depth	494.63	Cum	892.50	<b>441457.28</b>	INR Four Lakh Forty One Thousand Four Hundred & Fifty Seven and Paise Twenty Eight Only
123	More than 7.5 m depth	61.83	Cum	913.50	<b>56481.71</b>	INR Fifty Six Thousand Four Hundred & Eighty One and Paise Seventy One Only
124	<b>Item No. 5:</b> Providing dry trap granite quartzite gneiss, rubble stone soling in 15 cm to 20 cm thick layer including hand packing and compacting royalty charges etc.complete	35.63	Cum	957.60	<b>34119.29</b>	INR Thirty Four Thousand One Hundred & Nineteen and Paise Twenty Nine Only

125	<b>Item No. 6:</b> Filling in murum bedding in trenches with approved murum from excavated materials from foundation in 15cm to 20 cm layers including watering and compaction, etc. complete.	18.00	Cum	67.20	<b>1209.60</b>	INR One Thousand Two Hundred & Nine and Paise Sixty Only
126	<b>Item No. 7:</b> Providing and laying in situ, M-15 grade of C.C. of trap/ granite/ quartzite/ gneiss/ metal for foundation and bedding including dewatering, formwork, compacting and curing, finishing, etc.complete	111.88	Cum	4444.65	<b>497267.44</b>	INR Four Lakh Ninety Seven Thousand Two Hundred & Sixty Seven and Paise Forty Four Only
127	<b>Item No. 8:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	1885.76	Cum	195.62	<b>368892.37</b>	INR Three Lakh Sixty Eight Thousand Eight Hundred & Ninety Two and Paise Thirty Seven Only
128	<b>Item No. 9:</b> Refilling the trenches with available approved excavated stuff with soft materials first over pipeline and then hard material in 15cm layers with all lead and lifts including consolidation , surcharging etc. complete.	942.88	Cum	67.20	<b>63361.54</b>	INR Sixty Three Thousand Three Hundred & Sixty One and Paise Fifty Four Only
129	<b>Item No. 10:</b> Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in -charge (including cost of machinery, labour, fuel), stc complete Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	32550.00	<b>32550.00</b>	INR Thirty Two Thousand Five Hundred & Fifty Only
130	<b>Item No. 11:</b> Providing ISI Standard RCC NP3 900 mm dia pipe as overflow pipe for sump suitable for rubberring joint including all taxes, duties inspection charges transportation to site, unloading stacking etc complete. <b>Note:-</b> (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment	100.00	RMT	4791.00	<b>479100.00</b>	INR Four Lakh Seventy Nine Thousand One Hundred Only

131	<p><b>Item No. 12:</b> Lowering, laying and jointing in proper grade and alignment R.C.C.pipes with collar joints in CM 1:1 proportion or socketed R.C.C.pipes with rubber joints (excluding cost of rubber ring or R.C.C.collar), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc. complete as directed by Engineer-in-charge. (IS-783/1985)  Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment  900 mm NP3</p>	100.00	RMT	541.80	<b>54180.00</b>	INR Fifty Four Thousand One Hundred & Eighty Only
132	<p><b>Item No. 13:</b> Providing and constructing on sewer BB Masonary circular man hole with concentric cone 1.5 m dia and 0.5 m dia at top and upto a depth of 2m with 23cm brick work, upto depth of 2 m from top and 35mm thk brick work for balance depth in CM 1:4 proportion with 20 mm smooth plaster on both side in CM 1:2 proportion excluding excavation, including foundation concrete 250mm thick and haunches and channels in CC 1:2:4 proportion, finishing chanel in smooth rendering providing CI dapuri type steps each weighing 5.5 kg, 1:2:4 coping and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc complete as directed by EIC.</p>	3.00	No	21155.40	<b>63466.20</b>	INR Sixty Three Thousand Four Hundred & Sixty Six and Paise Twenty Only

133	<b>Item No. 14:</b> Providing and casting in situ cement Concrete of trap/ granite / quartzite / gneiss metal for RC.C works as per detailed drawings and design as directed by Engineer-in-Charge including normal dewatering, centering form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc.complete.( By weigh batching and mix design for M-250 and M-300 only. Use of L & T, A.C.C. , Ambuja, Birla Gold, Manikgad, Rajashree, etc.cement is permitted. ) ( Excluding M.S. or Tor reinforcement) Grade M 30 Raft	55.28	Cum	6325.20	<b>349657.06</b>	INR Three Lakh Forty Nine Thousand Six Hundred & Fifty Seven and Paise Six Only
134	Column	15.44	Cum	8086.05	<b>124848.61</b>	INR One Lakh Twenty Four Thousand Eight Hundred & Forty Eight and Paise Sixty One Only
135	Beam	12.42	Cum	7966.35	<b>98942.07</b>	INR Ninety Eight Thousand Nine Hundred & Forty Two and Paise Seven Only
136	Vertical Wall/Slabs/Staircase	254.33	Cum	8620.50	<b>2192451.77</b>	INR Twenty One Lakh Ninety Two Thousand Four Hundred & Fifty One and Paise Seventy Seven Only
137	<b>Item No. 15:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire).	33.75	M.T.	54803.70	<b>1849624.88</b>	INR Eighteen Lakh Forty Nine Thousand Six Hundred & Twenty Four and Paise Eighty Eight Only

138	<b>Item No. 16:</b> Providing and fixing 900mm high S.S.304 Grade Stainless steel railing with 40mm diameter and 1.5mm thick at top,40mm diameter and 1.5mm thick vertical supports spaced at 1.5m center to center and 8mm thick toughened glass including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete.** Spec. No.: As directed by Engineer Incharge	30.00	RM	4411.00	<b>132330.00</b>	INR One Lakh Thirty Two Thousand Three Hundred & Thirty Only
139	<b>Item No. 17:</b> Providing II nd class B.B. masonry with conventional bricks in C.M. 1:6 of following proportion in superstructure including striking out and raking out joints, watering and scaffolding, etc.complete	37.24	Cum	5940.00	<b>221205.60</b>	INR Two Lakh Twenty One Thousand Two Hundred & Five and Paise Sixty Only
140	<b>Item No. 18:</b> Providing cement plaster for following thickness in two coats in cement mortar in following proportions without neeru finish to concrete, brick or stone surfaces in all positions including scaffolding and curing, etc.complete. 20 mm thick cement plaster in C.M.1:5	161.91	Sq.m	269.50	<b>43634.75</b>	INR Forty Three Thousand Six Hundred & Thirty Four and Paise Seventy Five Only
141	<b>Item No. 19:</b> Providing sand faced plaster externally in cement mortar using approved screened sand in all positions including base coat of 15 mm th in cement mortar 1:4 using water proofing compound @ 1 Kg per cement bag curing the same for not less than 2 days & keeping the surface of base coat rough to recieve the sand faced treatment of 6 to 8 mm th in cement mortar 1:4 finishing the surface by taking out grains & curing for 14 days, scaffolding etc comp.as directed.	161.91	Sq.m	440.00	<b>71240.40</b>	INR Seventy One Thousand Two Hundred & Forty and Paise Forty Only

142	<p><b>Item No. 20:</b> Providing cement based water proofing treatment to terraces(Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound.</p> <p>Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/including ponding test etc. complete.</p>	43.27	Sqm	632.50	<b>27370.25</b>	INR Twenty Seven Thousand Three Hundred & Seventy and Paise Twenty Five Only
143	<p><b>Item No. 21:</b> Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 Cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete.</p> <p>Spec. No.: Bd.M.3 Page No. 380 30 cm. X 30 cm</p>	28.36	Sq.m	979.00	<b>27764.44</b>	INR Twenty Seven Thousand Seven Hundred & Sixty Four and Paise Forty Four Only
144	<p><b>Item No. 22:</b> Providing &amp; applying washable oil-bound distemper of approved colour and shade to old &amp; new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) complete. Spec. No.: Bd.P.5 Page No. 413 Two coat</p>	107.94	Sq.m	38.50	<b>4155.69</b>	INR Four Thousand One Hundred & Fifty Five and Paise Sixty Nine Only



145	<p><b>Item No. 23:</b> Providing and applying two coats of appex /Ace exterior paint of approved manufacture and of approved color to the plastered surfaces including cleaning, preparing the plaster surface applying primer coat, scaffolding if necessary and watering the surface for two days complete. Two coat</p>	107.94	Sq.m	176.00	18997.44	INR Eighteen Thousand Nine Hundred & Ninety Seven and Paise Forty Four Only
146	<p><b>Item No. 24:</b> Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear) Spec. No. Bd.T. P. No. 510</p>	19.80	Sq.m.	2860.00	56628.00	INR Fifty Six Thousand Six Hundred & Twenty Eight Only

147	<b>Item No. 25:</b> Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. with colour Anodising with box Spec. No.: As directed by Engineer-in-charge.	18.00	Sqm.	4306.50	<b>77517.00</b>	INR Seventy Seven Thousand Five Hundred & Seventeen Only
148	<b>Item No. 26:</b> Providing and fixing heavy duty inter locking concrete Gray paving blocks of 80 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete.** Spec. No.: A directed by Engineer in charge	120.00	Sqm.	745.80	<b>89496.00</b>	INR Eighty Nine Thousand Four Hundred & Ninety Six Only
149	<b>Item No. 27:</b> Providing and Applying of Elastomeric (450% Elongation) thermoplastic, fire retardant, Coatingskin tensile strength 18 to 21 kg/cm <sup>2</sup> , antifungalantibacterial, anticorrosive,graft, co polymer coating on smooth plastered surface 100 micron dyu film thiclness of self bonding with plasterd surface and 100 micron of top coat for puming station as directed by Engineer-in-charge.	791.28	Sqm.	1143.45	<b>904789.12</b>	INR Nine Lakh Four Thousand Seven Hundred & Eighty Nine and Paise Twelve Only

150	<p><b>Sub Work No.1 C :- PUMPING MAIN MAIN FROM PUMING STATION TO STP @ DESAI NAGAR</b></p> <p><b>Item No.1:</b> Providing &amp; supplying ISI marked D.I. S&amp;S pipes ( push on joints pressure pipes of D. I. of following class &amp; dia. conforming to IS specifications inclusive of the cost of jointing materials ( rubber gasket of EPDM quality )including all statutory duties &amp; taxes levied by Govt. of Maharashtra in all respect , education cess, VAT. third party inspection charges of TPI agency approved by MJP , including transit, insurance, railway freight, unloading from railway wagon, loading into truck, transport to departmental store / site, unloading, stacking etc. complete as directed by Engineer-in-charge. ( IS-IS:1536/2001 for pipes and IS 158/1969 and IS 12820/1989 or latest edition / revision with amendments for rubber gaskets). 600 mm dia.D.I. K-9 Pipe Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	150.00	Rmt	7900.00	<b>1185000.00</b>	INR Eleven Lakh Eighty Five Thousand Only
151	<p><b>Item No.2:</b> Providing and supplying ISI standard DI specials &amp; fittings with sealing rubber gasket of SBR complete with cast iron follower gland &amp; MS nutbolts coated or otherwise protected from rusting and suitable for DI pipes cost of labour , material, and transportation to stores/site loading unloading including all taxes, etc. complete as per IS -9523 For all types of specials, bends, TEEs, etc.. 350 mm Dia.&amp; above</p>	500.00	Kg	129.68	<b>64840.00</b>	INR Sixty Four Thousand Eight Hundred & Forty Only

152	<b>Item No.3:</b> Providing & supplying DI fittings with ISI mark mechanical joints confirming to table 12 to 31 of IS Supply of CI mechanical joint double socket with flanged TEEs as dimensionally described in Table 19 of IS 9523/2000 upto latest ammendments including cost of SBR/EPDM gaskets, nut bolts, washers, & ductile iron folloer glands . Fittings should be internally OPC lined & externally metallic zinc coating / zinc rich paint with finishing layer of black bitumen coating including transportation and all taxes etc. complete 600 x600 x 150 mm dia. TEE	1.00	No	23682.00	<b>23682.00</b>	INR Twenty Three Thousand Six Hundred & Eighty Two Only
153	600 mm dia. Tail Piece	2.00	No	21994.00	<b>43988.00</b>	INR Forty Three Thousand Nine Hundred & Eighty Eight Only
154	150 mm dia. Tail Piece flanged socket PN 10	1.00	No	2599.00	<b>2599.00</b>	INR Two Thousand Five Hundred & Ninety Nine Only
155	600 mm dia. Collars	1.00	No	27836.00	<b>27836.00</b>	INR Twenty Seven Thousand Eight Hundred & Thirty Six Only
156	600 mm dia.90 Bend	3.00	No	46557.00	<b>139671.00</b>	INR One Lakh Thirty Nine Thousand Six Hundred & Seventy One Only

157	<p><b>Item No.4:</b> Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non rising spindle resilient seated glandless sluice valves with handwheel &amp; without bypass arrangement. Valves in accordance with BS 5163 of PN-10/16 rated, with body and bonnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr. 400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/ 1.4104, stem seals min 3 nos. of NBR, internal fasteners of stainless steel A2. Body &amp; Bonnet coated inside &amp; outside with electrostaically applied epoxy powder coated bule colour (suitable for drinking water ) as per DIN 30677-2 &amp; GSK guideliness with a coating thickness of min.600 microns. Valves should be full bore &amp; tight shut-off. Flange drilling as per IS 1538 raised face &amp; pressure testing at manufactures works shall be done as per IS 14846. Including all taxes and transportation charges etc. complete. Note:- (1) Against Supply of Valves - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment 600 mm dia Sluice Valve PN - 1.0</p>	1.00	No	589191.00	<b>589191.00</b>	INR Five Lakh Eighty Nine Thousand One Hundred & Ninety One Only
158	150 mm dia Sluice Valve PN - 1.0	1.00	No	22672.00	<b>22672.00</b>	INR Twenty Two Thousand Six Hundred & Seventy Two Only

159	<p><b>Item No.5:</b> Providing and supplying at site ductile iron / Spheroidal Graphite (S.G.) iron single / Double chamber tamper proof air valve without isolating sluice valve. Valves in accordance with BSEN 1074-4 of PN 10/16 rated, with body and bonnet of ductile iron conforming to EN 1563/IS 1865 GR. 500/7 or Gr. 400/15 floats, float guide, seat ring of stainless steel 1.4436/1.4306, seat ring gasket of WRAS approved EPDM rubber (suitable for drinking water), internal fasteners of stainless steel A2. Body &amp; Bonnet coated inside &amp; outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 &amp; GSK guidelines with a coating thickness of min. 600 microns. Flange connections as per IS 1538 raised face &amp; pressure testing at manufacturer's works shall be done as per IS 14845, including all taxes and transportation charges etc. complete. Note:- (1) Against Supply of Valve - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Air valve 150 mm dia PN 1.0</p>	1.00	No	40993.00	<b>40993.00</b>	INR Forty Thousand Nine Hundred & Ninety Three Only
160	<p><b>Item No.6:</b> Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra &amp; Mahindra make) from inside &amp; outside including all taxes ( Central &amp; Local ) , octroi , inspection charges, transportation to stores/site and stacking etc. complete. Doble flanged specials of all Diameters</p>	500.00	Kg	67.41	<b>33705.00</b>	INR Thirty Three Thousand Seven Hundred & Five Only
161	<p><b>Item No.7:</b> Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum including removing the excavated material up to distance of 50 M. and lift as below, stacking and spreading as directed, normal dewatering, preparing, the bed for foundation and excluding backfilling etc. complete. Lift 0-1.50 m</p>	90.00	Cum	155.10	<b>13959.00</b>	INR Thirteen Thousand Nine Hundred & Fifty Nine Only

162	<b>Item No.8:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to distance of 50 M. and lift as below,, stacking and spreading as directed, normal dewatering, preparing, the bed for foundation and excluding backfilling etc.complete. Lift 0-1.50 m	90.00	Cum	198.00	<b>17820.00</b>	INR Seventeen Thousand Eight Hundred & Twenty Only
163	<b>Item No.9:</b> Excavation for foundation / pipe trenches in soft rock and old cement & lime masonry foundation , asphalt road including removing the excavated material up to distance of 50 M. and lift as below,, stacking and spreading as directed, normal dewatering, preparing, the bed for foundation and excluding backfilling etc.complete. Lift 0-1.50 m	90.00	Cum	487.30	<b>43857.00</b>	INR Forty Three Thousand Eight Hundred & Fifty Seven Only
164	<b>Item No.10:</b> Filling in plinth and floors murum bedding in trenches with approved murum from excavated materials from foundation 15 cm to 20 cm layers including watering and compaction complete. Murrum available @ site	27.00	Cum	67.20	<b>1814.40</b>	INR One Thousand Eight Hundred & Fourteen and Paise Forty Only
165	<b>Item No.11:</b> Lowering, laying and jointing with SBR rubber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of materials from stores to site of work, including cost of jointing materials and rubber rings, labour giving hydraulic testing, etc.complete.Note:- Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment Note :- Only SBR , rubber gaskets to be used. 600 mm dia DI K-9	150.00	Rmt	381.15	<b>57172.50</b>	INR Fifty Seven Thousand One Hundred & Seventy Two and Paise Fifty Only

166	<b>Item No.12:</b> Lowering,laying and jointing in position following C.I. D/F Reflux valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing, etc.complete. Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 600 mm dia Sluice Valve PN - 1.0	1.00	No	9179.10	<b>9179.10</b>	INR Nine Thousand One Hundred & Seventy Nine and Paise Ten Only
167	150 mm dia Sluice Valve PN - 1.0	1.00	No	3357.90	<b>3357.90</b>	INR Three Thousand Three Hundred & Fifty Seven and Paise Ninety Only
168	<b>Item No.13:</b> Lowering and fixing kinetic air valve of following dia in proper position and alignment as directed including cost of conveyance from store to site of work, all jointing material, labour and hydraulic testing etc. complete. Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment Air valve 150 mm dia PN 1.0	1.00	No	741.30	<b>741.30</b>	INR Seven Hundred & Forty One and Paise Thirty Only
169	<b>Item No.14:</b> Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding , excluding excavation B.B. masonry in C.M. 1:5 proportion with precast steel fibre reinforced concrete frame and covers ( S.F.R.C. frame and covers) etc Clear Size 1.20 x1.20 x1.50 M.	2.00	No	18420.15	<b>36840.30</b>	INR Thirty Six Thousand Eight Hundred & Forty and Paise Thirty Only
170	<b>Item No.15:</b> Providing and laying in situ following grades of C.C. of trap/ granite / quartzite / gneiss metal for foundation and bedding including dewatering form work, compacting and curing, finishing etc.complete. PCC M150	5.40	Cum	4444.65	<b>24001.11</b>	INR Twenty Four Thousand & One and Paise Eleven Only



171	<b>Item No.16:</b> Providing and laying in situ cement Concrete of trap/ granite / quartzite / gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stancthions including normal dewatering, form work, compaction, finishing and curing , etc.complete ( By weigh batching and mix design for M-600 and M-300 only. Use of L & T, A.C.C. , Ambuja, Birla Gold, Manikgad, Rajashree, etc.cement is permitted. ) ( Excluding M.S. or Tor reinforcement) M-150 Grade RCC M150 Grade	9.72	Cum	5373.90	<b>52234.31</b>	INR Fifty Two Thousand Two Hundred & Thirty Four and Paise Thirty One Only
172	<b>Item No.17:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings, fins, arches, etc. as per detailed designs, drawings,and schedules, including cutting ,bending, hooking the bars, binding with wires or tack welding and supporting as required, etc.complete. ( including cost of binding wire.) Tor Steel	0.34	MT	54803.70	<b>18633.26</b>	INR Eighteen Thousand Six Hundred & Thirty Three and Paise Twenty Six Only
173	<b>Item No.18:</b> Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation , surcharging, etc. complete.	186.00	Cum	67.20	<b>12499.20</b>	INR Twelve Thousand Four Hundred & Ninety Nine and Paise Twenty Only
174	<b>Item No.19:</b> Hydraulic testing of C.I./D.I. pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position using water supplied by the contractor. 600 mm dia DI K-9	0.15	Km	42394.80	<b>6359.22</b>	INR Six Thousand Three Hundred & Fifty Nine and Paise Twenty Two Only

175	<p><b>Sub Work No.1 D :- STP Cap. 20 MLD FOR ZONE IX @ DESAI NAGAR</b>  <b>SPECIFICATIONS OF SEWAGE TREATMENT SCHEME:</b>  <u>Raw Sewage Characteristics:</u>  Temperature Ambient  PH 7.0-8.0  Total Suspended Solids 210mg/l  BOD 5 days at 20<sup>o</sup> C 170mg/l  COD 340 mg/l  Oil and Grease 30 mg/l  MPN 10<sup>6</sup> to 10<sup>7</sup> per 100ml  <u>Treated Sewage Quality</u>  PH 6.5-8.5  Total Suspended Solids 30mg/l  BOD &lt;10mg/l  COD &lt;50 mg/l  Oil and Grease 10 mg/l  MPN 1000 per 100ml  Item No.1:Designing, providing,</p>	1.00	No	99036000.00	99036000.00	INR Nine Crore Ninety Lakh Thirty Six Thousand Only
176	<p><b>Item No.2:</b> Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm 8 guage thick with UCR wall Compound wall all around the STP as directed by Engineer-in-charge  Plot Area = 100 M X 200 M = 20000 sqm, Total Length = 100 * 2+ 200*2 =600 Rmt - Gate Length of 5m x 2 No =590 M Compound wall</p>	590.00	Rmt	4938.15	2913508.50	INR Twenty Nine Lakh Thirteen Thousand Five Hundred & Eight and Paise Fifty Only

177	<p><b>Item No.3:</b> Providing and fixing mild steel grill gate with angle iron frame 65 mm x 65 mm x 10 mm with iron bars at 150mm.C/C and diagonal flats as per the detailed drawing including hinges, pivot blocks locking arrangement, welding riveting and oil painting of three coats of approved shade. Weight of gate 35 Kg/smt. Spec. No.: Bd.W.6 Page No. 585</p>	24.00	Sqm	1878.45	<b>45082.80</b>	INR Forty Five Thousand &Eighty Two and Paise Eighty Only
178	<p><b>Item No.4:</b> Providing and fixing 50 mm. dia. medium class G.I.pipe gate with wicket gate of approved drawing with all fixtures &amp; fittings in two leaves with strong hold fast embedded in c.c. block at top &amp; bottom with locking arrangement including cutting, bending, making holes and with one coat of primer complete. Spec. No.: As directed by Engineer in charge.</p>	2.00	Sqm	4042.50	<b>8085.00</b>	INR Eight Thousand &Eighty Five Only

179	<p><b>Sub Work No.1 E :- SUMP CAP. 20 LAKH LIT. &amp; PUMP HP USE @ DESAI NAGAR STP CAMPUS</b></p> <p><b>Item No.1:</b> Designing (aesthetically), and constructing RCC ground service reservoirs/RCC sumps in M-300 mix of required capacity including excavation in all types of strata, foundation concrete, container walls, bottom slab to RCC roof slab/ or dome, 20 mm thick cement plaster with water proffing compound in CM 1:3 proportion to inside face of the container, including epoxy paint from inside including refilling and disposing of surplus stuff within lead of 50 M, all labour and material charges, for laying and jointing of pipe assembly for inlet, outlet washout, over flow and bye-pass arrangement consisting of C.I. M.S. D/F. pipes, specials and valves of given diameters, providing and fixing accessories such as S.S.ladder inside and outside, C.I. Manhole frame and cover, water top slab, B.B. masonry chamber for all valves, ventilating shafts, including giving satisfactory hydraulic test and water tightness test as per IS code and providing three coats of acrylic emulsion with silicon additives paint to all exposed surface of structure including roof surface etc. complete as per design data, Anti-termite treatment shall be given for underground portion of the structure. criteria, obligatory requirements</p>	1.00	No	6829643.96	<b>6829643.96</b>	INR Sixty Eight Lakh Twenty Nine Thousand Six Hundred & Forty Three and Paise Ninety Six Only
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180	<p><b>Item No.2:</b> Designing, Providing and constructing pump house of required size and shape over sump well with RCC framed structure of M-200, columns, beams. Corbles for gantry grids, lintels with band, chajjas, roof slab as per requirement and design. The height of pump house shall vary depending upon HP of pump motors (minimum 5.5 m) . Providing and constructing brick masonry walls of 23 cm in CM 1:6 proportion with 1:3 cement plaster 20 mm thick from inside and outside, rolling shutter (65 qm size) out of 16 gauge M.S.flat fully glazed steel windows minimum 20% of floor area, RCC, M-150 gallery 1m wide around pump house with GI railing in 3 rows including 3 coats of oil paint to windows and rolling shutter, two coats of snowcem paint from outside, 2 coats of washable oil bound distemper from inside and white wash to ceiling, etc. complete as directed.</p> <p><b>Item No.2A:</b> Providing II nd class B.B. masonry with conventional bricks in C.M. 1:6 of following proportion in superstructure including striking out and raking out joints, watering and scaffolding, etc.complete</p>	17.50	Cum	5197.50	90956.25	INR Ninety Thousand Nine Hundred & Fifty Six and Paise Twenty Five Only
181	<p><b>Item No.2B:</b> Providing and casting in situ cement Concrete of trap/ granite / quartzite / gneiss metal for RC.C works as per detailed drawings and design as directed by Engineer-in-Charge including normal dewatering, centering form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc.complete.( By weigh batching and mix design for M-250 and M-300 only. Use of L &amp; T, A.C.C. , Ambuja, Birla Gold, Manikgad, Rajashree, etc.cement is permitted.) ( Excluding M.S. or Tor reinforcement)</p> <p>A) RCC Footing</p>	8.10	Cum	6260.36	50708.92	INR Fifty Thousand Seven Hundred & Eight and Paise Ninety Two Only

182	B) RCC Columns	12.96	Cum	8003.00	<b>103718.88</b>	INR One Lakh Three Thousand Seven Hundred & Eighteen and Paise Eighty Eight Only
183	C) RCC Beams	17.28	Cum	7884.28	<b>136240.36</b>	INR One Lakh Thirty Six Thousand Two Hundred & Forty and Paise Thirty Six Only
184	D) RCC Landing/Steps	0.43	Cum	8531.94	<b>3668.73</b>	INR Three Thousand Six Hundred & Sixty Eight and Paise Seventy Three Only
185	E) RCC Lintels	2.48	Cum	7554.99	<b>18736.38</b>	INR Eighteen Thousand Seven Hundred & Thirty Six and Paise Thirty Eight Only
186	F) RCC Chajjas	1.20	Cum	8364.39	<b>10037.27</b>	INR Ten Thousand & Thirty Seven and Paise Twenty Seven Only
187	G) RCC Slab	13.55	Cum	8531.94	<b>115607.79</b>	INR One Lakh Fifteen Thousand Six Hundred & Seven and Paise Seventy Nine Only
188	<b>Item No.2C:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire).	4.40	MT	53198.22	<b>234072.17</b>	INR Two Lakh Thirty Four Thousand & Seventy Two and Paise Seventeen Only

189	<p><b>Item No.3A:</b> Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear) Spec. No. Bd.T. P. No. 510</p>	6.25	Sqm	5507.25	<b>34420.31</b>	INR Thirty Four Thousand Four Hundred & Twenty and Paise Thirty One Only
190	<p><b>Item No.3B:</b> Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. with colour Anodising with box Spec. No.: As directed by Engineer-in-charge.</p>	15.75	Sqm	4704.00	<b>74088.00</b>	INR Seventy Four Thousand & Eighty Eight Only

191	<b>Item No.4A:</b> Providing cement plaster for following thickness in two coats in cement mortar in following proportions without neeru finish to concrete, brick or stone surfaces in all positions including scaffolding and curing, etc.complete.	270.00	Sqm	285.60	<b>77112.00</b>	INR Seventy Seven Thousand One Hundred & Twelve Only
192	<b>Item No.4B:</b> Providing sand faced plaster externally in cement mortar using approved screened sand in all positions including base coat of 15 mm th in cement mortar 1:4 using water proofing compound @ 1 Kg per cement bag curing the same for not less than 2 days & keeping the surface of base coat rough to receive the sand faced treatment of 6 to 8 mm th in cement mortar 1:4 finishing the surface by taking out grains & curing for 14 days, scaffolding etc comp.as directed.	228.00	Sqm	417.90	<b>95281.20</b>	INR Ninety Five Thousand Two Hundred & Eighty One and Paise Twenty Only
193	<b>Item No.5:</b> Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 Cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. Spec. No.: Bd.M.3 Page No. 380	80.10	Sqm	932.40	<b>74685.24</b>	INR Seventy Four Thousand Six Hundred & Eighty Five and Paise Twenty Four Only
194	<b>Item No.6:</b> Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) complete. Spec. No.: Bd.P.5 Page No. 413	270.00	Sqm	37.80	<b>10206.00</b>	INR Ten Thousand Two Hundred & Six Only
195	<b>Item No.7:</b> Providing and applying two coats of appex /Ace exterior paint of approved manufacture and of approved color to the plastered surfaces including cleaning, preparing the plaster surface applying primer coat, scaffolding if necessary and watering the surface for two days complete.	228.00	Sqm	168.00	<b>38304.00</b>	INR Thirty Eight Thousand Three Hundred & Four Only



196	<p><b>Item No.8:</b> Providing and fixing 900mm high S.S.304 Grade Stainless steel railing with 40mm diameter and 1.5mm thick at top,40mm diameter and 1.5mm thick vertical supports spaced at 1.5m center to center and 8mm thick toughened glass including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete.** Spec. No.: As directed by Engineer Incharge</p>	50.00	RM	4210.50	<b>210525.00</b>	INR Two Lakh Ten Thousand Five Hundred & Twenty Five Only
197	<p><b>Sub Work No.1 F :- PROPERTY CONNECTION FOR ZONE IX</b> <b>Item No.1:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete. H.D.P.E. DWC pipes for Drainage Class SN 8 150 mm dia.(ID) Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	43733.00	Rmt	378.00	<b>16531074.00</b>	INR One Crore Sixty Five Lakh Thirty One Thousand & Seventy Four Only

198	<p><b>Item No.2:</b> Providing , laying &amp; fixing ,jointing Supreme Eco- drain 110 mm SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete. Spec : As directed by Engineer In Charge HDPE Pipes - Class SN8 110 mm dia.(OD) Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	174930.00	Rmt	318.00	<b>55627740.00</b>	INR Five Crore Fifty Six Lakh Twenty Seven Thousand Seven Hundred & Forty Only
199	<p><b>Item No.3:</b> Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion precast S.F.R.C.frame and cover, etc. complete as directed by Engineer-in-charge. Inspection Chamber {900 x 600x 1200}</p>	7289.00	No.	11608.80	<b>84616543.20</b>	INR Eight Crore Forty Six Lakh Sixteen Thousand Five Hundred & Forty Three and Paise Twenty Only
200	<p><b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, ashphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.</p>	29883.00	Cum	487.30	<b>14561985.90</b>	INR One Crore Forty Five Lakh Sixty One Thousand Nine Hundred & Eighty Five and Paise Ninety Only
201	<p><b>Item No.5:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.</p>	29883.00	Cum	155.10	<b>4634853.30</b>	INR Forty Six Lakh Thirty Four Thousand Eight Hundred & Fifty Three and Paise Thirty Only

202	<b>Item No.6:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	29883.00	Cum	198.00	<b>5916834.00</b>	INR Fifty Nine Lakh Sixteen Thousand Eight Hundred & Thirty Four Only
203	<b>Item No.7:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	5248.00	Cum	67.20	<b>352665.60</b>	INR Three Lakh Fifty Two Thousand Six Hundred & Sixty Five and Paise Sixty Only
204	<b>Item No.8:</b> Lowering, laying and jointing H.D.P.E.Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	43732.00	Rmt	33.60	<b>1469395.20</b>	INR Fourteen Lakh Sixty Nine Thousand Three Hundred & Ninety Five and Paise Twenty Only

205	<b>Item No.9:</b> Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. H.D.P.E. DWC pipes for Drainage CLASS SN 8	44.00	KM	3150.00	<b>138600.00</b>	INR One Lakh Thirty Eight Thousand Six Hundred Only
206	<b>Item No.10:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	73934.00	Cum	67.20	<b>4968364.80</b>	INR Forty Nine Lakh Sixty Eight Thousand Three Hundred & Sixty Four and Paise Eighty Only
207	<b>Item No.11:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	6021.00	Cum	195.62	<b>1177828.02</b>	INR Eleven Lakh Seventy Seven Thousand Eight Hundred & Twenty Eight and Paise Two Only

208	<p><b>Item No.12:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p>	32799.00	Sqm	873.47	<b>28648942.53</b>	INR Two Crore Eighty Six Lakh Forty Eight Thousand Nine Hundred & Forty Two and Paise Fifty Three Only
209	<p><b>Item No.13:</b> Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge.</p>	7288.75	No.	175.35	<b>1278082.31</b>	INR Twelve Lakh Seventy Eight Thousand & Eighty Two and Paise Thirty One Only

210	<b>Sub Work No.2 A :- SEWERAGE SYSTEM FOR ZONE X</b> <b>Item No.1:</b> Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 150 mm dia.	2542.00	Rmt	357.00	<b>907494.00</b>	INR Nine Lakh Seven Thousand Four Hundred & Ninety Four Only
211	200 mm dia.	334.00	Rmt	394.00	<b>131596.00</b>	INR One Lakh Thirty One Thousand Five Hundred & Ninety Six Only
212	300 mm dia.	1393.00	Rmt	757.00	<b>1054501.00</b>	INR Ten Lakh Fifty Four Thousand Five Hundred & One Only
213	350 mm dia.	1586.00	Rmt	1260.00	<b>1998360.00</b>	INR Nineteen Lakh Ninety Eight Thousand Three Hundred & Sixty Only
214	400 mm dia.	831.00	Rmt	1344.00	<b>1116864.00</b>	INR Eleven Lakh Sixteen Thousand Eight Hundred & Sixty Four Only
215	500 mm dia.	548.00	Rmt	1785.00	<b>978180.00</b>	INR Nine Lakh Seventy Eight Thousand One Hundred & Eighty Only
216	700 mm dia.	500.00	Rmt	2940.00	<b>1470000.00</b>	INR Fourteen Lakh Seventy Thousand Only
217	RCC NP 4 Class 300 mm dia.	736.00	Rmt	945.00	<b>695520.00</b>	INR Six Lakh Ninety Five Thousand Five Hundred & Twenty Only
218	350 mm dia.	138.00	Rmt	1344.00	<b>185472.00</b>	INR One Lakh Eighty Five Thousand Four Hundred & Seventy Two Only
219	400 mm dia.	314.00	Rmt	1470.00	<b>461580.00</b>	INR Four Lakh Sixty One Thousand Five Hundred & Eighty Only

220	600 mm dia.	618.00	Rmt	2520.00	<b>1557360.00</b>	INR Fifteen Lakh Fifty Seven Thousand Three Hundred & Sixty Only
221	700 mm dia.	121.00	Rmt	3150.00	<b>381150.00</b>	INR Three Lakh Eighty One Thousand One Hundred & Fifty Only
222	<b>Item No.2:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage Class SN 8 150 mm dia.(ID)	99858.00	Rmt	378.00	<b>37746324.00</b>	INR Three Crore Seventy Seven Lakh Forty Six Thousand Three Hundred & Twenty Four Only
223	170 mm dia.(ID)	4067.00	Rmt	437.00	<b>1777279.00</b>	INR Seventeen Lakh Seventy Seven Thousand Two Hundred & Seventy Nine Only
224	200 mm dia.(ID)	3100.00	Rmt	594.00	<b>1841400.00</b>	INR Eighteen Lakh Forty One Thousand Four Hundred Only
225	250 mm dia.(ID)	3066.00	Rmt	1007.00	<b>3087462.00</b>	INR Thirty Lakh Eighty Seven Thousand Four Hundred & Sixty Two Only

226	<b>Item No.3:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	33347.90	Cum	155.10	<b>5172259.29</b>	INR Fifty One Lakh Seventy Two Thousand Two Hundred & Fifty Nine and Paise Twenty Nine Only
227	Lift 1.5 -3.0 M.	451.82	Cum	168.30	<b>76041.31</b>	INR Seventy Six Thousand &Forty One and Paise Thirty One Only
228	<b>Item No.4:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	49088.75	Cum	198.00	<b>9719572.50</b>	INR Ninety Seven Lakh Nineteen Thousand Five Hundred & Seventy Two and Paise Fifty Only
229	Lift 0 -1.5 M.	404.26	Cum	211.20	<b>85379.71</b>	INR Eighty Five Thousand Three Hundred & Seventy Nine and Paise Seventy One Only
230	<b>Item No.5:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	74971.91	Cum	487.30	<b>36533811.74</b>	INR Three Crore Sixty Five Lakh Thirty Three Thousand Eight Hundred & Eleven and Paise Seventy Four Only
231	Lift 1.5 -3.0 M.	21402.24	Cum	509.30	<b>10900160.83</b>	INR One Crore Nine Lakh One Hundred & Sixty and Paise Eighty Three Only



232	<b>Item No.6:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0-1.50 M.	4868.31	Cum	826.10	<b>4021710.89</b>	INR Forty Lakh Twenty One Thousand Seven Hundred & Ten and Paise Eighty Nine Only
233	Lift 1.5 -3.0 M.	25302.20	Cum	848.10	<b>21458795.82</b>	INR Two Crore Fourteen Lakh Fifty Eight Thousand Seven Hundred & Ninety Five and Paise Eighty Two Only
234	Lift 3.0 -4.5 M.	10373.78	Cum	870.10	<b>9026225.98</b>	INR Ninety Lakh Twenty Six Thousand Two Hundred & Twenty Five and Paise Ninety Eight Only
235	Lift 4.5-6.0 M.	1487.79	Cum	892.10	<b>1327257.46</b>	INR Thirteen Lakh Twenty Seven Thousand Two Hundred & Fifty Seven and Paise Forty Six Only
236	<b>Item No.7:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	418.86	Cum	957.60	<b>401100.34</b>	INR Four Lakh One Thousand One Hundred and Paise Thirty Four Only
237	<b>Item No.8:</b> Providing & filling in sand boxing in pipeline or for foundation with sand of approved quality including watering and compaction,etc.complete.	1488.08	Cum	977.55	<b>1454672.60</b>	INR Fourteen Lakh Fifty Four Thousand Six Hundred & Seventy Two and Paise Sixty Only
238	<b>Item No.9:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	13392.76	Cum	67.20	<b>899993.47</b>	INR Eight Lakh Ninety Nine Thousand Nine Hundred & Ninety Three and Paise Forty Seven Only

239	<b>Item No.10:</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 150 mm dia.	2542.00	Rmt	57.75	<b>146800.50</b>	INR One Lakh Forty Six Thousand Eight Hundred and Paise Fifty Only
240	200 mm dia.	334.00	Rmt	76.65	<b>25601.10</b>	INR Twenty Five Thousand Six Hundred & One and Paise Ten Only
241	300 mm dia.	2129.00	Rmt	120.75	<b>257076.75</b>	INR Two Lakh Fifty Seven Thousand & Seventy Six and Paise Seventy Five Only
242	350 mm dia.	1724.00	Rmt	123.90	<b>213603.60</b>	INR Two Lakh Thirteen Thousand Six Hundred & Three and Paise Sixty Only
243	400 mm dia.	1145.00	Rmt	158.55	<b>181539.75</b>	INR One Lakh Eighty One Thousand Five Hundred & Thirty Nine and Paise Seventy Five Only
244	500 mm dia.	548.00	Rmt	206.85	<b>113353.80</b>	INR One Lakh Thirteen Thousand Three Hundred & Fifty Three and Paise Eighty Only
245	600 mm dia.	618.00	Rmt	260.40	<b>160927.20</b>	INR One Lakh Sixty Thousand Nine Hundred & Twenty Seven and Paise Twenty Only
246	700 mm dia.	621.00	Rmt	295.05	<b>183226.05</b>	INR One Lakh Eighty Three Thousand Two Hundred & Twenty Six and Paise Five Only

247	<b>Item No.11:</b> Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. New item to be added 150 mm dia.	2.54	Km	6300.00	<b>16002.00</b>	INR Sixteen Thousand &Two Only
248	200 mm dia.	0.33	Km	8400.00	<b>2772.00</b>	INR Two Thousand Seven Hundred & Seventy Two Only
249	300 mm dia.	2.13	Km	13650.00	<b>29074.50</b>	INR Twenty Nine Thousand &Seventy Four and Paise Fifty Only
250	350 mm dia.	1.72	Km	13650.00	<b>23478.00</b>	INR Twenty Three Thousand Four Hundred & Seventy Eight Only
251	400 mm dia.	1.15	Km	17850.00	<b>20527.50</b>	INR Twenty Thousand Five Hundred & Twenty Seven and Paise Fifty Only
252	500 mm dia.	0.55	Km	23100.00	<b>12705.00</b>	INR Twelve Thousand Seven Hundred & Five Only
253	600 mm dia.	0.62	Km	29400.00	<b>18228.00</b>	INR Eighteen Thousand Two Hundred & Twenty Eight Only
254	700 mm dia.	0.62	Km	32550.00	<b>20181.00</b>	INR Twenty Thousand One Hundred & Eighty One Only

255	<b>Item No.12:</b> Lowering, laying and jointing H.D.P.E. Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	99858.00	Rmt	33.60	<b>3355228.80</b>	INR Thirty Three Lakh Fifty Five Thousand Two Hundred & Twenty Eight and Paise Eighty Only
256	170 mm dia.(ID)	4067.00	Rmt	36.75	<b>149462.25</b>	INR One Lakh Forty Nine Thousand Four Hundred & Sixty Two and Paise Twenty Five Only
257	200 mm dia.(ID)	3100.00	Rmt	39.90	<b>123690.00</b>	INR One Lakh Twenty Three Thousand Six Hundred & Ninety Only
258	250 mm dia.(ID)	3066.00	Rmt	49.35	<b>151307.10</b>	INR One Lakh Fifty One Thousand Three Hundred & Seven and Paise Ten Only
259	<b>Item No.13:</b> Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position., etc. complete H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	99.86	Km	3150.00	<b>314559.00</b>	INR Three Lakh Fourteen Thousand Five Hundred & Fifty Nine Only
260	170 mm dia.(ID)	4.07	Km	7350.00	<b>29914.50</b>	INR Twenty Nine Thousand Nine Hundred & Fourteen and Paise Fifty Only

261	200 mm dia.(ID)	3.10	Km	4200.00	<b>13020.00</b>	INR Thirteen Thousand &Twenty Only
262	250 mm dia.(ID)	3.07	Km	5250.00	<b>16117.50</b>	INR Sixteen Thousand One Hundred & Seventeen and Paise Fifty Only
263	<b>Item No.14:</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area Lift 1.50 to 3.00 m.	2255.40	Sqm	252.00	<b>568360.80</b>	INR Five Lakh Sixty Eight Thousand Three Hundred & Sixty and Paise Eighty Only
264	Water Logged Area Lift 1.50 to 3.00 m.	966.60	Sqm	250.95	<b>242568.27</b>	INR Two Lakh Forty Two Thousand Five Hundred & Sixty Eight and Paise Twenty Seven Only
265	<b>Item No.15:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	772.31	Cum	4444.65	<b>3432647.64</b>	INR Thirty Four Lakh Thirty Two Thousand Six Hundred & Forty Seven and Paise Sixty Four Only
266	<b>Item No.16:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other divices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	5468400.00	<b>5468400.00</b>	INR Fifty Four Lakh Sixty Eight Thousand Four Hundred Only

267	<p><b>Item No.17:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge.</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5% for M.C..=Rs.2991.45 Upto 1.50 m depth.</p>	2410.00	No.	18163.95	<b>43775119.50</b>	<p>INR Four Crore Thirty Seven Lakh Seventy Five Thousand One Hundred &amp; Nineteen and Paise Fifty Only</p>
268	Upto 2 m depth.	794.00	No.	21155.40	<b>16797387.60</b>	<p>INR One Crore Sixty Seven Lakh Ninety Seven Thousand Three Hundred &amp; Eighty Seven and Paise Sixty Only</p>

269	<p><b>Item No.18:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge.</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50 Upto 2.5 m depth.</p>	351.00	No.	29411.55	<b>10323454.05</b>	INR One Crore Three Lakh Twenty Three Thousand Four Hundred & Fifty Four and Paise Five Only
270	Upto 3.0 m depth.	209.00	No.	35596.05	<b>7439574.45</b>	INR Seventy Four Lakh Thirty Nine Thousand Five Hundred & Seventy Four and Paise Forty Five Only
271	Upto 3.50 m depth.	162.00	No.	41780.55	<b>6768449.10</b>	INR Sixty Seven Lakh Sixty Eight Thousand Four Hundred & Forty Nine and Paise Ten Only
272	Upto 4.0 m depth.	96.00	No.	47965.05	<b>4604644.80</b>	INR Forty Six Lakh Four Thousand Six Hundred & Forty Four and Paise Eighty Only
273	Upto 4.5 m depth.	74.00	No.	54149.55	<b>4007066.70</b>	INR Forty Lakh Seven Thousand & Sixty Six and Paise Seventy Only
274	Upto 5.0 m depth.	40.00	No.	60334.05	<b>2413362.00</b>	INR Twenty Four Lakh Thirteen Thousand Three Hundred & Sixty Two Only

275	<p><b>Item No.19:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge.</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50 5.50 m depth.</p>	41.00	No.	75414.15	<b>3091980.15</b>	INR Thirty Lakh Ninety One Thousand Nine Hundred & Eighty and Paise Fifteen Only
276	6.0 m depth.	26.00	No.	83194.65	<b>2163060.90</b>	INR Twenty One Lakh Sixty Three Thousand &Sixty and Paise Ninety Only
277	6.5 m depth.	3.00	No.	90975.15	<b>272925.45</b>	INR Two Lakh Seventy Two Thousand Nine Hundred & Twenty Five and Paise Forty Five Only
278	<p><b>Item No. 20:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel</p>	6.04	MT	54803.70	<b>331014.35</b>	INR Three Lakh Thirty One Thousand &Fourteen and Paise Thirty Five Only



279	<p><b>Item No.21:</b> Providing as per required dia S.W. or R.C.C. pipes in vertical drop arrangement including providing 150 mm dia S.W. and R.C.C. Pipe fixed in B.B. masonry of manhole at the required level including providing 150 mm dia. double tee, 150 mm dia right angled bend encasing in B.B. masonry 1:4 proportion all around the pipe, double tee, bend up to the foundation of manhole, jointing, cutting, filleting including neat cement rendering, plugging the opening with jungle wood knob complete as directed by Engineer-in- charge ( 0.60 M. depth) excluding cost of chamber.</p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs. 791/-Add 5% for M.C .=Rs.830.55 For 200 mm dia Pipes a) For depth up to 1.10 M</p>	3.00	No.	3432.45	<b>10297.35</b>	INR Ten Thousand Two Hundred & Ninety Seven and Paise Thirty Five Only
280	<p>For 250 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 803/-Add 5% for M.C .=Rs.843.15 a) For depth up to 1.10 M</p>	2.00	No.	3960.60	<b>7921.20</b>	INR Seven Thousand Nine Hundred & Twenty One and Paise Twenty Only
281	b) For depth up to 1.10 M to 1.60 M	1.00	No.	4803.75	<b>4803.75</b>	INR Four Thousand Eight Hundred & Three and Paise Seventy Five Only
282	c) For depth up to 1.60 M to 2.10 M	1.00	No.	5646.90	<b>5646.90</b>	INR Five Thousand Six Hundred & Forty Six and Paise Ninety Only
283	d) For depth up to 3.10 M to 3.60 M	1.00	No.	8176.35	<b>8176.35</b>	INR Eight Thousand One Hundred & Seventy Six and Paise Thirty Five Only
284	<p>For 300 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 923/-Add 5% for M.C .=Rs.969.15 a) For depth up to 1.10 M to 1.60 M</p>	4.00	No.	5724.60	<b>22898.40</b>	INR Twenty Two Thousand Eight Hundred & Ninety Eight and Paise Forty Only
285	b) For depth up to 2.60 M to 3.10 M	1.00	No.	8632.05	<b>8632.05</b>	INR Eight Thousand Six Hundred & Thirty Two and Paise Five Only

286	For 350 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1029/-Add 5% for M.C .=Rs.1080.45 a) For depth up to 1.10 M to 1.60 M	3.00	No.	6735.75	<b>20207.25</b>	INR Twenty Thousand Two Hundred & Seven and Paise Twenty Five Only
287	b) For depth up to 1.60 M to 2.10 M	1.00	No.	7825.65	<b>7825.65</b>	INR Seven Thousand Eight Hundred & Twenty Five and Paise Sixty Five Only
288	c) For depth up to 2.10 M to 2.60 M	2.00	No.	8915.55	<b>17831.10</b>	INR Seventeen Thousand Eight Hundred & Thirty One and Paise Ten Only
289	For 400 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1135/-Add 5% for M.C .=Rs.1191.75 a) For depth up to 1.10 M	2.00	No.	6536.25	<b>13072.50</b>	INR Thirteen Thousand & Seventy Two and Paise Fifty Only
290	b) For depth up to 2.10 M to 2.60 M	1.00	No.	10168.20	<b>10168.20</b>	INR Ten Thousand One Hundred & Sixty Eight and Paise Twenty Only
291	For 600 mm dia Pipes a) Rebate for every decrease in depth of 50 cm or part there of Rs. 1254/-Add 5% for M.C .=Rs.1316.7 a) For depth up to 1.10 M	2.00	No.	8342.25	<b>16684.50</b>	INR Sixteen Thousand Six Hundred & Eighty Four and Paise Fifty Only
292	b) For depth up to 1.60 M to 2.10 M	1.00	No.	11372.55	<b>11372.55</b>	INR Eleven Thousand Three Hundred & Seventy Two and Paise Fifty Five Only
293	<b>Item No.22:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	179814.00	Cum	67.20	<b>12083500.80</b>	INR One Crore Twenty Lakh Eighty Three Thousand Five Hundred and Paise Eighty Only
294	<b>Item No.23:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	27003.00	Cum	195.62	<b>5282326.86</b>	INR Fifty Two Lakh Eighty Two Thousand Three Hundred & Twenty Six and Paise Eighty Six Only

295	<p><b>Item No.24:</b> Providing, fixing and erecting RCC (M20) Vent shaft with cowl, 125mm x 225mm internal and external dia respectively at top, 300mm and 450mm internal and external dia at bottom and 9.10m over all length, bottom 1.25m below ground level fixed in the pit 900mmx900mmx1500mm with PCC M15, 250mm in bed and 200mm around with top 150mm in cement concrete 1:2:4 (1 cement 2 coarse sand and 4 graded stone aggregate of 20mm nominal size) junction of vent shaft and concrete grouted with cement mortar 1:2 (1 cement and 2 fine sand) including making connection with sewer manhole with 150 mm dia NP4 RCC pipe (IS 458-ammended upto date) for 5.0 m length including Murum bedding complete and as per standard design and finished with water proofing cement of approved brand of required shade as per drawings and/or as directed by Engineer.Providing and fixing RCC ventilation shaft, making connection to manhole etc. complete as directed by EIC.</p>	10.00	No.	18516.00	<b>185160.00</b>	INR One Lakh Eighty Five Thousand One Hundred & Sixty Only
296	<p><b>Item No.25:</b> WBM Road restoration:Reinstating the road surface with supplying &amp; spreading 60mm metal of 20 cm thick with Hard murum &amp; 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering &amp; compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.</p>	76641.00	Sqm	208.74	<b>15998042.34</b>	INR One Crore Fifty Nine Lakh Ninety Eight Thousand &Forty Two and Paise Thirty Four Only

297	<p><b>Item No.26:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p>	20438.00	Sqm	873.47	17851979.86	<p>INR One Crore Seventy Eight Lakh Fifty One Thousand Nine Hundred &amp; Seventy Nine and Paise Eighty Six Only</p>
298	<p><b>Item No.27: Concrete Road restoration</b> :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p><b>Item No. 28A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	510.90	Cum	496.10	253457.49	<p>INR Two Lakh Fifty Three Thousand Four Hundred &amp; Fifty Seven and Paise Forty Nine Only</p>

299	<b>Item No. 28B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38	510.90	Cum	5918.00	<b>3023506.20</b>	INR Thirty Lakh Twenty Three Thousand Five Hundred & Six and Paise Twenty Only
300	<b>Item No. 28c:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge	255.45	Cum	6998.20	<b>1787690.19</b>	INR Seventeen Lakh Eighty Seven Thousand Six Hundred & Ninety and Paise Nineteen Only
301	<b>Item No.29: Shifting of Utilities:</b> All utilities like Electric Poles, waterline & Communication line Shifting while Manhole and Line Laying work etc., complete as per specifications and or as directed by engineer- in-charge. Utility Shifting <b>Item No.29A:</b> Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge. Water Supply Connections - 15 mm dia	30.00	Rmt	175.35	<b>5260.50</b>	INR Five Thousand Two Hundred & Sixty and Paise Fifty Only
302	Water Supply Connections - 20 mm dia	4.00	Rmt	205.80	<b>823.20</b>	INR Eight Hundred & Twenty Three and Paise Twenty Only

303	<b>Electrical Lines &amp; Poles</b> <b>Electrical Poles - RA for 10 km</b> <b>Item No.29B:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing & finishing in above manner ( for 9 mtr pole)	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only
304	<b>Item No.29C:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
305	<b>Item No.29D:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
306	<b>Item No.29E:</b> Earthling : Providing erecting pipe type earthling of 40 mm GI pipe dia with double earthling to the all equipments as per Detailed specifications. Electrical Cable - Providing and Jointing Communication Cable - Jelly Filled telephone lines and optical Fibre Cable	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only
307	<b>Item No.29F:</b> Supply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TW	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
308	<b>Item No.29G:</b> Supply & erecting of FR grade PVC armourd multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only

309	<b>Item No.29H:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only
310	<b>Highway Crossing</b> <b>Item No.30: Pushing</b> of M.S. pipe of following dia. For road crossing and railway crossing by push through metod in all types of strata by using hydraulic jack and drilling machine of required diameter of below MS casing pipes, loweing, laying & jointing of material , required welding machinery , tripod, chain pully block , crain , blower, compressor, loading & unloading of machinery into the trench , etc. transportation and dewatering , etc. complete as directed by Engineer-in-charge but excluding the cost of MS pipes.-500 to 1000 mm dia. MS Pipe MS pipes.-500 to 1000 mm dia. MS Pipe	100.00	Rmt	23920.05	<b>2392005.00</b>	INR Twenty Three Lakh Ninety Two Thousand &Five Only
311	MS Pipe 500 mm (ID) 10 mm thick	100.00	Rmt	6620.00	<b>662000.00</b>	INR Six Lakh Sixty Two Thousand Only
312	<b>Sub Work No.2 B :- PUMPING STATION FOR ZONE X @ HYDRABAD ROAD MHADA</b> <b>tem No.1:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. upto 1.5m	658.08	Cum	148.05	<b>97428.74</b>	INR Ninety Seven Thousand Four Hundred & Twenty Eight and Paise Seventy Four Only
313	1.5 to 3 m	138.33	Cum	160.65	<b>22222.71</b>	INR Twenty Two Thousand Two Hundred & Twenty Two and Paise Seventy One Only

314	<b>Item No. 2:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. upto 1.5m	73.12	Cum	189.00	<b>13819.68</b>	INR Thirteen Thousand Eight Hundred & Nineteen and Paise Sixty Eight Only
315	1.5 to 3 m	138.33	Cum	201.60	<b>27887.33</b>	INR Twenty Seven Thousand Eight Hundred & Eighty Seven and Paise Thirty Three Only
316	3m to 4.5m	59.29	Cum	214.20	<b>12699.92</b>	INR Twelve Thousand Six Hundred & Ninety Nine and Paise Ninety Two Only
317	<b>Item No. 3:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. 1.5 to 3 m	415.00	Cum	486.15	<b>201752.25</b>	INR Two Lakh One Thousand Seven Hundred & Fifty Two and Paise Twenty Five Only
318	3m to 4.5m	296.43	Cum	507.15	<b>150334.47</b>	INR One Lakh Fifty Thousand Three Hundred & Thirty Four and Paise Forty Seven Only
319	4.5m to 6m	332.00	Cum	528.15	<b>175345.80</b>	INR One Lakh Seventy Five Thousand Three Hundred & Forty Five and Paise Eighty Only
320	<b>Item No. 4:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. 3m to 4.5m	237.14	Cum	830.55	<b>196956.63</b>	INR One Lakh Ninety Six Thousand Nine Hundred & Fifty Six and Paise Sixty Three Only
321	4.5m to 6m	221.34	Cum	851.55	<b>188482.08</b>	INR One Lakh Eighty Eight Thousand Four Hundred & Eighty Two and Paise Eight Only



322	6m to 7.5m	513.81	Cum	872.55	448324.92	INR Four Lakh Forty Eight Thousand Three Hundred & Twenty Four and Paise Ninety Two Only
323	More than 7.5 m depth	474.29	Cum	893.55	423801.83	INR Four Lakh Twenty Three Thousand Eight Hundred & One and Paise Eighty Three Only
324	More than 7.5 m depth	59.29	Cum	914.55	54223.67	INR Fifty Four Thousand Two Hundred & Twenty Three and Paise Sixty Seven Only
325	<b>Item No. 5:</b> Providing dry trap granite quartzite gneiss, rubble stone soling in 15 cm to 20 cm thick layer including hand packing and compacting royelty charges etc.complete	30.07	Cum	957.60	28795.03	INR Twenty Eight Thousand Seven Hundred & Ninety Five and Paise Three Only
326	<b>Item No. 6:</b> Filling in murum bedding in trenches with approved murum from excavated materials from foundation in 15cm to 20 cm layers including watering and compaction, etc. complete.	18.00	Cum	67.20	1209.60	INR One Thousand Two Hundred & Nine and Paise Sixty Only
327	<b>Item No. 7:</b> Providing and laying in situ, M-15 grade of C.C. of trap/ granite/ quartzite/ gneiss/ metal for foundation and bedding including dewatering, formwork, compacting and curing, finishing, etc.complete	110.02	Cum	4444.65	489000.39	INR Four Lakh Eighty Nine Thousand and Paise Thirty Nine Only
328	<b>Item No. 8:</b> Dispossing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	1808.23	Cum	195.62	353725.95	INR Three Lakh Fifty Three Thousand Seven Hundred & Twenty Five and Paise Ninety Five Only
329	<b>Item No. 9:</b> Refilling the trenches with available approved excavated stuff with soft materials first over pipeline and then hard material in 15cm layers with all lead and lifts including consolidation , surcharging etc. complete.	904.11	Cum	67.20	60756.19	INR Sixty Thousand Seven Hundred & Fifty Six and Paise Nineteen Only

330	<b>Item No. 10:</b> Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in -charge (including cost of machinery, labour, fuel), stc complete Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	32550.00	<b>32550.00</b>	INR Thirty Two Thousand Five Hundred & Fifty Only
331	<b>Bypass &amp; Overflow Item No. 11:</b> Providing ISI Standard RCC NP3 900 mm dia pipe as overflow pipe for sump suitable for rubbering joint including all taxes, duties inspection charges transportation to site, unloading stacking etc complete. 900 mm NP3 Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment	100.00	RMT	4791.00	<b>479100.00</b>	INR Four Lakh Seventy Nine Thousand One Hundred Only
332	<b>Item No. 10:</b> Lowering, laying and jointing in propergrade and alignmentR.C.C.pipes with collar jointsinCM1:1proportion or socketed R.C.C.pipes with rubber joints(excluding cost of rubber ring or R.C.C.collar), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge. (IS-783/1985) Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 900 mm NP3	100.00	RMT	541.80	<b>54180.00</b>	INR Fifty Four Thousand One Hundred & Eighty Only

333	<b>Item No. 11:</b> Providing and constructing on sewer BB Masonary circular man hole with concentric cone 1.5 mm dia and 0.5 mm dia at top and upto a depth of 2m with 23cm brick work, upto depth of 2 m from top and 35mm thk brick work for balance depth in CM 1:4 proportion with 20 mm smooth plaster on both side in CM 1:2 proportion excluding excavation, including foundation concrete 250mm thick and haunches and channels in CC 1:2:4 proportion, finishing chanel in smooth rendering providing CI dapuri type steps each weighing 5.5 kg, 1:2:4 coping and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc complete as directed by EIC.	3.00	No	21155.40	<b>63466.20</b>	INR Sixty Three Thousand Four Hundred & Sixty Six and Paise Twenty Only
334	<b>Item No. 12:</b> Providing and casting in situ cement Concrete of trap/ granite / quartzite / gneiss metal for RC.C works as per detailed drawings and design as directed by Engineer-in-Charge including normal dewatering, centering form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc.complete.( By weigh batching and mix design for M-250 and M-300 only. Use of L & T, A.C.C. , Ambuja, Birla Gold, Manikgad, Rajashree, etc.cement is permitted. ) ( Excluding M.S. or Tor reinforcement) Raft Grade M 30	46.71	Cum	6325.20	<b>295450.09</b>	INR Two Lakh Ninety Five Thousand Four Hundred & Fifty and Paise Nine Only
335	Column Grade M 30	15.96	Cum	8086.05	<b>129053.36</b>	INR One Lakh Twenty Nine Thousand & Fifty Three and Paise Thirty Six Only
336	Beam Grade M 30	11.23	Cum	7966.35	<b>89462.11</b>	INR Eighty Nine Thousand Four Hundred & Sixty Two and Paise Eleven Only
337	Vertical Wall/Slabs/Staircase Grade M 30	243.51	Cum	8620.50	<b>2099177.96</b>	INR Twenty Lakh Ninety Nine Thousand One Hundred & Seventy Seven and Paise Ninety Six Only

338	<b>Item No. 13:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	31.74	M.T.	54803.70	<b>1739469.44</b>	INR Seventeen Lakh Thirty Nine Thousand Four Hundred & Sixty Nine and Paise Forty Four Only
339	<b>Item No.14:</b> Providing and fixing 900mm high S.S.304 Grade Stainless steel railing with 40mm diameter and 1.5mm thick at top,40mm diameter and 1.5mm thick vertical supports spaced at 1.5m center to center and 8mm thick toughened glass including fabricating ,fixtures, erecting , necessary welding , grinding , finishing, buffing to stainless steel pipe etc. complete.	30.00	Rmt	4411.00	<b>132330.00</b>	INR One Lakh Thirty Two Thousand Three Hundred & Thirty Only
340	<b>Item No. 15:</b> Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	33.69	Cum	5940.00	<b>200118.60</b>	INR Two Lakh One Hundred & Eighteen and Paise Sixty Only
341	<b>Item No. 16:</b> Providing internal cement plaster 20mm thick in two coats in cement mortar 1:5 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete 20 mm thick cement plaster in C.M.1:5	146.49	Sq.m	269.50	<b>39479.06</b>	INR Thirty Nine Thousand Four Hundred & Seventy Nine and Paise Six Only
342	<b>Item No. 17:</b> Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	146.49	Sq.m	440.00	<b>64455.60</b>	INR Sixty Four Thousand Four Hundred & Fifty Five and Paise Sixty Only

343	<b>Item No. 18:</b> Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/including ponding test etc.	35.42	Sqm	640.50	<b>22686.51</b>	INR Twenty Two Thousand Six Hundred & Eighty Six and Paise Fifty One Only
344	<b>Item No. 19:</b> Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and leaning etc. complete. Kotah stone flooring 30 cm. X 30 cm	28.36	Sq.m	979.00	<b>27764.44</b>	INR Twenty Seven Thousand Seven Hundred & Sixty Four and Paise Forty Four Only
345	<b>Item No. 20:</b> Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) complete. Spec. No.: Bd.P.5 Page No. 413 Two coat	97.66	Sq.m	57.20	<b>5586.15</b>	INR Five Thousand Five Hundred & Eighty Six and Paise Fifteen Only

346	<p><b>Item No. 21:</b> Providing and applying two coats of appex Appex Ace white exterior paint of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary , and watering the surface for two days etc. complete. Two coat</p>	97.66	Sq.m	176.00	<b>17188.16</b>	INR Seventeen Thousand One Hundred & Eighty Eight and Paise Sixteen Only
347	<p><b>Item No. 22:</b> Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)</p>	19.80	Sq.m.	2860.00	<b>56628.00</b>	INR Fifty Six Thousand Six Hundred & Twenty Eight Only

348	<p><b>Item No. 23:</b> Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With colour Anodising with box.</p>	18.00	Sqm.	4306.50	<b>77517.00</b>	INR Seventy Seven Thousand Five Hundred & Seventeen Only
349	<p><b>Item No. 24:</b> Providing and fixing heavy duty inter locking concrete Gray paving blocks of 80 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete.</p>	120.00	Sqm.	721.60	<b>86592.00</b>	INR Eighty Six Thousand Five Hundred & Ninety Two Only
350	<p><b>Item No. 25:</b> Providing and Applying of Elastomeric (450% Elongation) thermoplastic, fire retardant, Coatingskin tensile strength 18 to 21 kg/cm<sup>2</sup>, antifungalantibacterial, anticorrosive,graft, co polymer coating on smooth plastered surface 100 micron dyu film thiclness of self bonding with plasterd surface and 100 micron of top coat for puming station as directed by Engineer-in-charge.</p>	760.67	Sqm.	1143.45	<b>869788.11</b>	INR Eight Lakh Sixty Nine Thousand Seven Hundred & Eighty Eight and Paise Eleven Only

351	<p><b>Sub Work No.2 C :- PUMPING MAIN MAIN FROM PUMING STATION TO STP @ HYDRABAD ROAD (MHADA)</b></p> <p><b>Item No.1:</b> Providing DI Pipes (push on joints pressure pipes of DI of following class &amp; Dia meters confirming to the Indian Standard Specification inclusive cost of jointing materials (Rubber Gasket of EPDM Quality) including all statutory duties &amp; taxes such as GST levied by GOI &amp; GOM in all respect, Third Party Inspection charges of TPI agency approved by the MJP including transit insurance, Railway freight, unloading from railway wagon, loading in to the truck, transportation to departmental store / site of work, unloading, stacking etc. completed as directed by Engineer-in-Charge (IS:1536:2001 for pipes &amp; IS:158:1969 &amp; 15:12820:1989 or latest edition / revision with amendments for rubber gaskets). (IS:8329:2000 latest version) 500 mm dia.D.I. K-9 Pipe Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	150.00	Rmt	5968.00	<b>895200.00</b>	INR Eight Lakh Ninety Five Thousand Two Hundred Only
352	<p><b>Item No.2:</b> Providing and supplying ISI standard DI specials &amp; fittings with sealing rubber gasket of SBR complete with cast iron follwer gland &amp; MS nutbolts coated or otherwise protected from rusting and suitable for DI pipes cost of labour , material, and transportation to stores/site loading unloading including all taxes, etc. complete as per IS -9523 For all types of specials, bends, TEEs, etc.. 350 mm Dia.&amp; above</p>	500.00	Kg	129.68	<b>64840.00</b>	INR Sixty Four Thousand Eight Hundred & Forty Only



353	<b>Item No.3:</b> Providing & supplying DI fittings with ISI mark mechanical joints confirming to table 12 to 31 of IS Supply of CI mechanical joint double socket with flanged TEEs as dimensionally described in Table 19 of IS 9523/2000 upto latest ammendments including cost of SBR/EPDM gaskets, nut bolts, washers, & ductile iron folloer glands . Fittings should be internally OPC lined & externally metallic zinc coating / zinc rich paint with finishing layer of black bitumen coating including transportation and all taxes etc. complete 500 x500 x 150 mm dia. TEE	1.00	No	24866.00	<b>24866.00</b>	INR Twenty Four Thousand Eight Hundred & Sixty Six Only
354	500 mm dia. Tail Piece	2.00	No	15800.00	<b>31600.00</b>	INR Thirty One Thousand Six Hundred Only
355	150 mm dia. Tail Piece	1.00	No	2599.00	<b>2599.00</b>	INR Two Thousand Five Hundred & Ninety Nine Only
356	500 mm dia. Collars	1.00	No	22040.00	<b>22040.00</b>	INR Twenty Two Thousand & Forty Only
357	500 mm dia.90 Bend	3.00	No	31875.00	<b>95625.00</b>	INR Ninety Five Thousand Six Hundred & Twenty Five Only

358	<p><b>Item No.4:</b> Providing and supplying at site of ductile iron / spheroidal graphite (S.G.) iron D/F non rising spindle resilient seated glandless sluice valves with handwheel &amp; without bypass arrangement. Valves in accordance with BS 5163 of PN-10/16 rated, with body and bonnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr. 400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass, shaft of stainless steel 1.4021/ 1.4104, stem seals min 3 nos. of NBR, internal fasteners of stainless steel A2. Body &amp; Bonnet coated inside &amp; outside with electrostaically applied epoxy powder coated bule colour (suitable for drinking water ) as per DIN 30677-2 &amp; GSK guideliness with a coating thickness of min.600 microns. Valves should be full bore &amp; tight shut-off. Flange drilling as per IS 1538 raised face &amp; pressure testing at manufactures works shall be done as per IS 14846. Including all taxes and transportation charges etc. complete. Note:- (1) Against Supply of Valves - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment 500 mm dia Sluice Valve PN - 1.0</p>	1.00	No	387849.00	<b>387849.00</b>	INR Three Lakh Eighty Seven Thousand Eight Hundred & Forty Nine Only
359	150 mm dia Sluice Valve PN - 1.0	1.00	No	21592.00	<b>21592.00</b>	INR Twenty One Thousand Five Hundred & Ninety Two Only

360	<p><b>Item No.5:</b> Providing and supplying at site ductile iron / Spheroidal Graphite (S.G.) iron single / Double chamber tamper proof air valve without isolating sluice valve. Valves in accordance with BSEN 1074-4 of PN 10/16 rated, with body and bonnet of ductile iron conforming to EN 1563/IS 1865 GR. 500/7 or Gr. 400/15 floats, float guide, seat ring of stainless steel 1.4436/1.4306, seat ring gasket of WRAS approved EPDM rubber (suitable for drinking water), internal fasteners of stainless steel A2. Body &amp; Bonnet coated inside &amp; outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 &amp; GSK guidelines with a coating thickness of min. 600 microns. Flange connections as per IS 1538 raised face &amp; pressure testing at manufactures works shall be done as per IS 14845, Including all taxes and transportation charges etc. complete.</p> <p>Air valve 150 mm dia PN 1.0 Note:- (1) Against Supply of Valves - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	1.00	No	29041.00	<b>29041.00</b>	INR Twenty Nine Thousand &Forty One Only
361	<p><b>Item No.6:</b> Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar,Ciba or Mahindra &amp; Mahindra make) from inside &amp; outside including all taxes ( Central &amp; Local ) , octroi , inspection charges, transportation to stores/site and stacking etc. complete.</p> <p>Doble flanged specials of all Diameters Doble flanged specials of all Diameters</p>	500.00	Kg	64.20	<b>32100.00</b>	INR Thirty Two Thousand One Hundred Only

362	<b>Item No.7:</b> Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum including removing the excavated material up to distance of 50 M. and lift as below, stacking and spreading as directed, normal dewatering, preparing, the bed for foundation and excluding backfilling etc.complete. Lift 0-1.50 m	83.00	Cum	148.05	<b>12288.15</b>	INR Twelve Thousand Two Hundred & Eighty Eight and Paise Fifteen Only
363	<b>Item No.8:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to distance of 50 M. and lift as below, stacking and spreading as directed, normal dewatering, preparing, the bed for foundation and excluding backfilling etc.complete. Lift 0-1.50 m	83.00	Cum	189.00	<b>15687.00</b>	INR Fifteen Thousand Six Hundred & Eighty Seven Only
364	<b>Item No.9:</b> Excavation for foundation / pipe trenches in soft rock and old cement & lime masonry foundation , asphalt road including removing the excavated material up to distance of 50 M. and lift as below, stacking and spreading as directed, normal dewatering, preparing, the bed for foundation and excluding backfilling etc.complete. Lift 0-1.50 m	83.00	Cum	465.15	<b>38607.45</b>	INR Thirty Eight Thousand Six Hundred & Seven and Paise Forty Five Only
365	<b>Item No.10:</b> Filling in plinth and floors murum bedding in trenches with approved murum from excavated materials from foundation 15 cm to 20 cm layers including watering and compaction complete. Murrum available @ site	25.00	Cum	68.48	<b>1712.00</b>	INR One Thousand Seven Hundred & Twelve Only

366	<b>Item No.11:</b> Lowering, laying and jointing with SBR rubber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of materials from stores to site of work, including cost of jointing materials and rubber rings, labour giving hydraulic testing, etc.complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment 'Note :- Only SBR , rubber gaskets to be used. 500 mm dia DI K-9	150.00	Rmt	286.65	<b>42997.50</b>	INR Forty Two Thousand Nine Hundred & Ninety Seven and Paise Fifty Only
367	<b>Item No.12:</b> Lowering,laying and jointing in position following C.I. D/F Reflux valves, Butterfly valves and Sluice valves including cost of all labour jointing material, cincluding nut bolts and giving satisfactory hydraulic testing, etc.complete. Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 500 mm dia Sluice Valve PN - 1.0	1.00	No	8648.85	<b>8648.85</b>	INR Eight Thousand Six Hundred & Forty Eight and Paise Eighty Five Only
368	150 mm dia Sluice Valve PN - 1.0	1.00	No	3357.90	<b>3357.90</b>	INR Three Thousand Three Hundred & Fifty Seven and Paise Ninety Only
369	<b>Item No.13:</b> Lowering and fixing kinetic air valve of following dia in proper position and alignment as directed including cost of conveyance from store to site of work, all jointing material, labour and hydraulic testing etc. complete. Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment Air valve 150 mm dia PN 1.0	1.00	No	741.30	<b>741.30</b>	INR Seven Hundred & Forty One and Paise Thirty Only

370	<b>Item No.14:</b> Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding , excluding excavation B.B. masonry in C.M. 1:5 proportion with precast steel fibre reinforced concrete frame and covers ( S.F.R.C. frame and covers) etc Clear Size 1.20 x1.20 x1.50 M.	2.00	No	18420.15	<b>36840.30</b>	INR Thirty Six Thousand Eight Hundred & Forty and Paise Thirty Only
371	<b>Item No.15:</b> Providing and laying in situ following grades of C.C. of trap/ granite / quartzite / gneiss metal for foundation and bedding including dewatering form work, compacting and curing, finishing etc.complete. PCC M150	5.40	Cum	4444.65	<b>24001.11</b>	INR Twenty Four Thousand & One and Paise Eleven Only
372	<b>Item No.16:</b> Providing and laying in situ cement Concrete of trap/ granite / quartzite / gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, form work, compaction, finishing and curing , etc.complete ( By weigh batching and mix design for M-600 and M-300 only. Use of L & T, A.C.C. , Ambuja, Birla Gold, Manikgad, Rajashree, etc.cement is permitted. ) ( Excluding M.S. or Tor reinforcement) M-150 Grade RCC M150 Grade	9.72	Cum	5373.90	<b>52234.31</b>	INR Fifty Two Thousand Two Hundred & Thirty Four and Paise Thirty One Only
373	<b>Item No.17:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings, fins, arches, etc. as per detailed designs, drawings, and schedules, including cutting ,bending, hooking the bars, binding with wires or tack welding and supporting as required, etc.complete. ( including cost of binding wire.) Tor Steel Tor Steel	0.34	MT	54803.70	<b>18633.26</b>	INR Eighteen Thousand Six Hundred & Thirty Three and Paise Twenty Six Only

374	<b>Item No.18:</b> Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation , surcharging, etc. complete.	180.00	Cum	65.28	<b>11750.40</b>	INR Eleven Thousand Seven Hundred & Fifty and Paise Forty Only
375	<b>Item No.19:</b> Hydraulic testing of C.I./D.I. pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position using water supplied by the contractor. 500 mm dia DI K-9	0.15	Km	31796.10	<b>4769.42</b>	INR Four Thousand Seven Hundred & Sixty Nine and Paise Forty Two Only

376	<p><b>Sub Work No.1 D :- STP Cap. 15.50 MLD FOR ZONE X @ HYDRABAD ROAD MHADA SPECIFICATIONS OF SEWAGE TREATMENT SCHEME:</b></p> <p><b><u>Raw Sewage Characteristics:</u></b>  Temperature Ambient  PH 7.0-8.0  Total Suspended Solids 210mg/l  BOD 5 days at 20<sup>o</sup> C 170mg/l  COD 340 mg/l  Oil and Grease 30 mg/l  MPN 10<sup>6</sup> to 10<sup>7</sup> per 100ml</p> <p><b><u>Treated Sewage Quality</u></b>  PH 6.5-8.5  Total Suspended Solids 30mg/l  BOD &lt;10mg/l  COD &lt;50 mg/l  Oil and Grease 10 mg/l  MPN 1000 per 100ml</p> <p>Item No.1:Designing, providing,</p>	1.00	No	80384937.50	<b>80384937.50</b>	INR Eight Crore Three Lakh Eighty Four Thousand Nine Hundred & Thirty Seven and Paise Fifty Only
377	<p>Providing and Constructing Brick Masonary Compound wall all around the STP as directed by Engineer-in-charge  Plot Area = 150 M X 150 M = 22500 sqm, Total Length = 150 * 2+ 150*2 =600 Rmt - Gate Length of 5m x 2 No =590 M Compound wall</p>	590.00	Rmt	6031.10	<b>3558349.00</b>	INR Thirty Five Lakh Fifty Eight Thousand Three Hundred & Forty Nine Only



378	<p><b>Item No.2:</b> Providing and fixing mild steel grill gate with angle iron frame 65 mm x 65 mm x 10 mm with iron bars at 150mm.C/C and diagonal flats as per the detailed drawing including hinges, pivot blocks locking arrangement, welding riveting and oil painting of three coats of approved shade. Weight of gate 35 Kg/smt. Spec. No.: Bd.W.6 Page No. 585 Gate Size 4.0 m X 3.0 M</p>	24.00	Sqm	1878.45	<b>45082.80</b>	INR Forty Five Thousand &Eighty Two and Paise Eighty Only
379	<p><b>Item No.3:</b> Providing and fixing 50 mm. dia. medium class G.I.pipe gate with wicket gate of approved drawing with all fixtures &amp; fittings in two leaves with strong hold fast embedded in c.c. block at top &amp; bottom with locking arrangement including cutting, bending, making holes and with one coat of primer complete. Spec. No.: As directed by Engineer in charge. Gate Size 1.0 m X 2.0 M</p>	2.00	Sqm	4042.50	<b>8085.00</b>	INR Eight Thousand &Eighty Five Only
380	<p><b>Sub Work No.2 E :- PROPERTY CONNECTION- ZONE X</b></p> <p><b>Item No.1:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete.</p> <p>H.D.P.E. DWC pipes for Drainage Class SN 8 150 mm dia.(ID) Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	34750.50	Rmt	378.00	<b>13135689.00</b>	INR One Crore Thirty One Lakh Thirty Five Thousand Six Hundred & Eighty Nine Only

381	<p><b>Item No.2:</b> Providing , laying &amp; fixing ,jointing Supreme Eco- drain 110 mm SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete. Spec : As directed by Engineer In Charge HDPE Pipes - Class SN8 110 mm dia.(OD) Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment</p>	139002.00	Rmt	318.00	<b>44202636.00</b>	INR Four Crore Forty Two Lakh Two Thousand Six Hundred & Thirty Six Only
382	<p><b>Item No.3:</b> Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion precast S.F.R.C.frame and cover, etc. complete as directed by Engineer-in-charge. Inspection Chamber {900 x 600x 1200}</p>	5792.00	No.	11608.80	<b>67238169.60</b>	INR Six Crore Seventy Two Lakh Thirty Eight Thousand One Hundred & Sixty Nine and Paise Sixty Only
383	<p><b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, ashphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.</p>	23746.18	Cum	487.30	<b>11571513.51</b>	INR One Crore Fifteen Lakh Seventy One Thousand Five Hundred & Thirteen and Paise Fifty One Only
384	<p><b>Item No.5:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.</p>	23746.18	Cum	155.10	<b>3683032.52</b>	INR Thirty Six Lakh Eighty Three Thousand & Thirty Two and Paise Fifty Two Only

385	<b>Item No.6:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	23746.18	Cum	198.00	<b>4701743.64</b>	INR Forty Seven Lakh One Thousand Seven Hundred & Forty Three and Paise Sixty Four Only
386	<b>Item No.7:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	4170.06	Cum	67.20	<b>280228.03</b>	INR Two Lakh Eighty Thousand Two Hundred & Twenty Eight and Paise Three Only
387	<b>Item No.8:</b> Lowering, laying and jointing H.D.P.E.Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	34750.50	Rmt	33.60	<b>1167616.80</b>	INR Eleven Lakh Sixty Seven Thousand Six Hundred & Sixteen and Paise Eighty Only

388	<b>Item No.9:</b> Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. H.D.P.E. DWC pipes for Drainage CLASS SN 8 .	34.75	KM	3150.00	<b>109462.50</b>	INR One Lakh Nine Thousand Four Hundred & Sixty Two and Paise Fifty Only
389	<b>Item No.10:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	58748.64	Cum	67.20	<b>3947908.61</b>	INR Thirty Nine Lakh Forty Seven Thousand Nine Hundred & Eight and Paise Sixty One Only
390	<b>Item No.11:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	4784.20	Cum	195.62	<b>935885.20</b>	INR Nine Lakh Thirty Five Thousand Eight Hundred & Eighty Five and Paise Twenty Only

391	<p><b>Item No.12:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murram of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p>	26062.00	Sqm	873.47	<b>22764375.14</b>	INR Two Crore Twenty Seven Lakh Sixty Four Thousand Three Hundred & Seventy Five and Paise Fourteen Only
392	<p><b>Item No.13:</b> Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge.</p>	5791.00	No.	175.35	<b>1015451.85</b>	INR Ten Lakh Fifteen Thousand Four Hundred & Fifty One and Paise Eighty Five Only

393	<b>Sub Work No.3 A :- TRUNK MAIN FOR ZONE XI</b> <b>Item No.1</b> : Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete.Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 300 mm dia.	787.00	Rmt	757.00	<b>595759.00</b>	INR Five Lakh Ninety Five Thousand Seven Hundred & Fifty Nine Only
394	350 mm dia.	657.00	Rmt	1260.00	<b>827820.00</b>	INR Eight Lakh Twenty Seven Thousand Eight Hundred & Twenty Only
395	450 mm dia.	1660.00	Rmt	1449.00	<b>2405340.00</b>	INR Twenty Four Lakh Five Thousand Three Hundred & Forty Only
396	500 mm dia.	759.00	Rmt	1785.00	<b>1354815.00</b>	INR Thirteen Lakh Fifty Four Thousand Eight Hundred & Fifteen Only
397	700 mm dia.	25.00	Rmt	2940.00	<b>73500.00</b>	INR Seventy Three Thousand Five Hundred Only
398	1000 mm dia.	2535.00	Rmt	4095.00	<b>10380825.00</b>	INR One Crore Three Lakh Eighty Thousand Eight Hundred & Twenty Five Only
399	RCC NP 4 Class 350 mm dia.	30.00	Rmt	1344.00	<b>40320.00</b>	INR Forty Thousand Three Hundred & Twenty Only
400	450 mm dia.	93.00	Rmt	1575.00	<b>146475.00</b>	INR One Lakh Forty Six Thousand Four Hundred & Seventy Five Only
401	500 mm dia.	60.00	Rmt	1943.00	<b>116580.00</b>	INR One Lakh Sixteen Thousand Five Hundred & Eighty Only
402	600 mm dia.	1298.00	Rmt	2520.00	<b>3270960.00</b>	INR Thirty Two Lakh Seventy Thousand Nine Hundred & Sixty Only

403	<b>Item No.2</b> : Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	5460.76	Cum	155.10	<b>846963.88</b>	INR Eight Lakh Forty Six Thousand Nine Hundred & Sixty Three and Paise Eighty Eight Only
404	Lift 1.50 -3.0 M.	1769.02	Cum	168.30	<b>297726.07</b>	INR Two Lakh Ninety Seven Thousand Seven Hundred & Twenty Six and Paise Seven Only
405	<b>Item No.3</b> : Excavation for foundation / pipe trenches in hard murum & boulders , WBM road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	8734.92	Cum	198.00	<b>1729514.16</b>	INR Seventeen Lakh Twenty Nine Thousand Five Hundred & Fourteen and Paise Sixteen Only
406	Lift 1.50 -3.0 M.	885.18	Cum	211.20	<b>186950.02</b>	INR One Lakh Eighty Six Thousand Nine Hundred & Fifty and Paise Two Only
407	<b>Item No.4</b> : Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	2183.32	Cum	487.30	<b>1063931.84</b>	INR Ten Lakh Sixty Three Thousand Nine Hundred & Thirty One and Paise Eighty Four Only
408	Lift 1.5 -3.0 M.	8847.78	Cum	509.30	<b>4506174.35</b>	INR Forty Five Lakh Six Thousand One Hundred & Seventy Four and Paise Thirty Five Only

409	<b>Item No.5:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 1.5 -3.0 M.	1769.02	Cum	848.10	<b>1500305.86</b>	INR Fifteen Lakh Three Hundred & Five and Paise Eighty Six Only
410	Lift 3.0 -4.5 M.	3778.00	Cum	870.10	<b>3287237.80</b>	INR Thirty Two Lakh Eighty Seven Thousand Two Hundred & Thirty Seven and Paise Eighty Only
411	Lift 4.5-6.0 M.	453.00	Cum	892.10	<b>404121.30</b>	INR Four Lakh Four Thousand One Hundred & Twenty One and Paise Thirty Only
412	<b>Item No.6:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	1292.85	Cum	957.60	<b>1238033.16</b>	INR Twelve Lakh Thirty Eight Thousand &Thirty Three and Paise Sixteen Only
413	<b>Item No.7:</b> Providing & filling in sand boxing in pipeline or for foundation with sand of approved quality including watering and compaction,etc.complete.	164.66	Cum	977.55	<b>160963.38</b>	INR One Lakh Sixty Thousand Nine Hundred & Sixty Three and Paise Thirty Eight Only
414	<b>Item No.8:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	1481.92	Cum	67.20	<b>99585.02</b>	INR Ninety Nine Thousand Five Hundred & Eighty Five and Paise Two Only
415	<b>Item No.9 :</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubbar joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 300 mm dia.	787.00	Rmt	120.75	<b>95030.25</b>	INR Ninety Five Thousand &Thirty and Paise Twenty Five Only
416	350 mm dia.	687.00	Rmt	123.90	<b>85119.30</b>	INR Eighty Five Thousand One Hundred & Nineteen and Paise Thirty Only



417	450 mm dia.	1753.00	Rmt	189.00	<b>331317.00</b>	INR Three Lakh Thirty One Thousand Three Hundred & Seventeen Only
418	500 mm dia.	819.00	Rmt	206.85	<b>169410.15</b>	INR One Lakh Sixty Nine Thousand Four Hundred & Ten and Paise Fifteen Only
419	600 mm dia.	1298.00	Rmt	260.40	<b>337999.20</b>	INR Three Lakh Thirty Seven Thousand Nine Hundred & Ninety Nine and Paise Twenty Only
420	700 mm dia.	25.00	Rmt	295.05	<b>7376.25</b>	INR Seven Thousand Three Hundred & Seventy Six and Paise Twenty Five Only
421	1000 mm dia.	2535.00	Rmt	558.60	<b>1416051.00</b>	INR Fourteen Lakh Sixteen Thousand & Fifty One Only
422	<b>Item No.10:</b> Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. 300 mm dia.	0.79	KM	13650.00	<b>10783.50</b>	INR Ten Thousand Seven Hundred & Eighty Three and Paise Fifty Only
423	350 mm dia.	0.69	KM	13650.00	<b>9418.50</b>	INR Nine Thousand Four Hundred & Eighteen and Paise Fifty Only
424	450 mm dia.	1.75	KM	21000.00	<b>36750.00</b>	INR Thirty Six Thousand Seven Hundred & Fifty Only
425	500 mm dia.	0.82	KM	23100.00	<b>18942.00</b>	INR Eighteen Thousand Nine Hundred & Forty Two Only
426	600 mm dia.	1.30	KM	29400.00	<b>38220.00</b>	INR Thirty Eight Thousand Two Hundred & Twenty Only
427	700 mm dia.	0.03	KM	32550.00	<b>976.50</b>	INR Nine Hundred & Seventy Six and Paise Fifty Only
428	1000 mm dia.	2.54	KM	46200.00	<b>117348.00</b>	INR One Lakh Seventeen Thousand Three Hundred & Forty Eight Only

429	<b>Item No.11:</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area Lift 1.50 to 3.00 m.	696.60	Sqm	252.00	<b>175543.20</b>	INR One Lakh Seventy Five Thousand Five Hundred & Forty Three and Paise Twenty Only
430	Water Logged Area Lift 1.50 to 3.00 m.	464.40	Sqm	250.95	<b>116541.18</b>	INR One Lakh Sixteen Thousand Five Hundred & Forty One and Paise Eighteen Only
431	<b>Item No.12:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting and curring etc. complete.	561.78	Cum	4444.65	<b>2496915.48</b>	INR Twenty Four Lakh Ninety Six Thousand Nine Hundred & Fifteen and Paise Forty Eight Only
432	<b>Item No.13:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other divices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	1054620.00	<b>1054620.00</b>	INR Ten Lakh Fifty Four Thousand Six Hundred & Twenty Only

433	<b>Item No.14:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. Upto 1.50 m depth.	10.00	No.	18163.95	<b>181639.50</b>	INR One Lakh Eighty One Thousand Six Hundred & Thirty Nine and Paise Fifty Only
434	Upto 2 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5%for M.C.=Rs.2991.45	45.00	No.	21155.40	<b>951993.00</b>	INR Nine Lakh Fifty One Thousand Nine Hundred & Ninety Three Only
435	<b>Item No.15:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. Upto 2.5 m depth.	41.00	No.	29411.55	<b>1205873.55</b>	INR Twelve Lakh Five Thousand Eight Hundred & Seventy Three and Paise Fifty Five Only
436	Upto 3.0 m depth.	46.00	No.	35596.05	<b>1637418.30</b>	INR Sixteen Lakh Thirty Seven Thousand Four Hundred & Eighteen and Paise Thirty Only

437	Upto 3.50 m depth.	10.00	No.	41780.55	<b>417805.50</b>	INR Four Lakh Seventeen Thousand Eight Hundred & Five and Paise Fifty Only
438	Upto 4.0 m depth.	14.00	No.	47965.05	<b>671510.70</b>	INR Six Lakh Seventy One Thousand Five Hundred & Ten and Paise Seventy Only
439	Upto 4.5 m depth.	4.00	No.	54149.55	<b>216598.20</b>	INR Two Lakh Sixteen Thousand Five Hundred & Ninety Eight and Paise Twenty Only
440	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5%for M.C.=Rs.6184.50	3.00	No.	60334.05	<b>181002.15</b>	INR One Lakh Eighty One Thousand & Two and Paise Fifteen Only
441	<b>Item No.16:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. 5.50 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.7410/-Add 5% for M.C=Rs.7780.50	2.00	No.	75414.15	<b>150828.30</b>	INR One Lakh Fifty Thousand Eight Hundred & Twenty Eight and Paise Thirty Only
442	<b>Item No.17:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parodies, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	4.40	MT	54803.70	<b>241136.28</b>	INR Two Lakh Forty One Thousand One Hundred & Thirty Six and Paise Twenty Eight Only

443	<b>Item No.18:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	26621.00	Cum	67.20	<b>1788931.20</b>	INR Seventeen Lakh Eighty Eight Thousand Nine Hundred & Thirty One and Paise Twenty Only
444	<b>Item No.19:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	905.00	Cum	195.62	<b>177036.10</b>	INR One Lakh Seventy Seven Thousand &Thirty Six and Paise Ten Only
445	<b>Item No.20 :</b> Providing, fixing and erecting RCC (M20) Vent shaft with cowl, 125mm x 225mm internal and external dia respectively at top, 300mm and 450mm internal and external dia at bottom and 9.10m over all length, bottom 1.25m below ground level fixed in the pit 900mmx900mmx1500mm with PCC M15, 250mm in bed and 200mm around with top 150mm in cement concrete 1:2:4 (1 cement 2 coarse sand and 4 graded stone aggregate of 20mm nominal size) junction of vent shaft and concrete grouted with cement mortar 1:2 (1 cement and 2 fine sand) including making connection with sewer manhole with 150 mm dia NP4 RCC pipe (IS 458-ammended upto date) for 5.0 m length including Murum bedding complete and as per standard design and finished with water proofing cement of approved brand of required shade as per drawings and/or as directed by Engineer.Providing and fixing RCC ventilation shaft, making connection to manhole etc. complete as directed by EIC.	3.00	No.	18432.00	<b>55296.00</b>	INR Fifty Five Thousand Two Hundred & Ninety Six Only

446	<b>Item No.21</b> : Pushing of M.S. pipe of following dia. For road crossing and railway crossing by push through metod in all types of strata by using hydraulic jack and drilling machine of required diameter of below MS casing pipes, loweing, laying & jointing of material , required welding machinery , tripod, chain pully block , crain , blower, compressor, loading & unloading of machinery into the trench , etc. transportation and dewatering , etc. complete as directed by Engineer-in-charge but excluding the cost of MS pipes.-500 to 1000 mm dia. MS Pipe	150.00	Rmt	29899.80	<b>4484970.00</b>	INR Forty Four Lakh Eighty Four Thousand Nine Hundred & Seventy Only
447	MS Pipe 1500 mm (ID) 12 mm thick	150.00	Rmt	23550.00	<b>3532500.00</b>	INR Thirty Five Lakh Thirty Two Thousand Five Hundred Only
448	<b>Sub Work No.3 B:- TRUNK MAIN FOR ZONE XII</b> <b>Item No.1:</b> Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 350 mm dia.	298.00	Rmt	1260.00	<b>375480.00</b>	INR Three Lakh Seventy Five Thousand Four Hundred & Eighty Only
449	500 mm dia.	452.00	Rmt	1785.00	<b>806820.00</b>	INR Eight Lakh Six Thousand Eight Hundred & Twenty Only
450	1100 mm dia.	1776.00	Rmt	6916.00	<b>12282816.00</b>	INR One Crore Twenty Two Lakh Eighty Two Thousand Eight Hundred & Sixteen Only
451	RCC NP 4 Class 350 mm dia.	131.00	Rmt	1344.00	<b>176064.00</b>	INR One Lakh Seventy Six Thousand & Sixty Four Only
452	450 mm dia.	61.00	Rmt	1575.00	<b>96075.00</b>	INR Ninety Six Thousand & Seventy Five Only

453	500 mm dia.	1191.00	Rmt	1943.00	<b>2314113.00</b>	INR Twenty Three Lakh Fourteen Thousand One Hundred & Thirteen Only
454	<b>Item No.2:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	3852.56	Cum	155.10	<b>597532.06</b>	INR Five Lakh Ninety Seven Thousand Five Hundred & Thirty Two and Paise Six Only
455	Lift 1.50 -3.0 M.	2143.20	Cum	168.30	<b>360700.56</b>	INR Three Lakh Sixty Thousand Seven Hundred and Paise Fifty Six Only
456	<b>Item No.3:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	5135.15	Cum	198.00	<b>1016759.70</b>	INR Ten Lakh Sixteen Thousand Seven Hundred & Fifty Nine and Paise Seventy Only
457	Lift 0 -1.5 M.	1428.44	Cum	211.20	<b>301686.53</b>	INR Three Lakh One Thousand Six Hundred & Eighty Six and Paise Fifty Three Only
458	<b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	641.29	Cum	487.30	<b>312500.62</b>	INR Three Lakh Twelve Thousand Five Hundred and Paise Sixty Two Only
459	Lift 1.5 -3.0 M.	5714.84	Cum	509.30	<b>2910568.01</b>	INR Twenty Nine Lakh Ten Thousand Five Hundred & Sixty Eight and Paise One Only

460	<b>Item No.5:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 1.5 -3.0 M.	1429.51	Cum	848.10	<b>1212367.43</b>	INR Twelve Lakh Twelve Thousand Three Hundred & Sixty Seven and Paise Forty Three Only
461	Lift 3.0 -4.5 M.	4712.00	Cum	870.10	<b>4099911.20</b>	INR Forty Lakh Ninety Nine Thousand Nine Hundred & Eleven and Paise Twenty Only
462	Lift 4.5-6.0 M.	605.00	Cum	892.10	<b>539720.50</b>	INR Five Lakh Thirty Nine Thousand Seven Hundred & Twenty and Paise Fifty Only
463	<b>Item No.6:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	1172.70	Cum	957.60	<b>1122977.52</b>	INR Eleven Lakh Twenty Two Thousand Nine Hundred & Seventy Seven and Paise Fifty Two Only
464	<b>Item No.7:</b> Providing & filling in sand boxing in pipeline or for foundation with sand of approved quality including watering and compaction,etc.complete.	60.49	Cum	977.55	<b>59132.00</b>	INR Fifty Nine Thousand One Hundred & Thirty Two Only
465	<b>Item No.8:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	730.11	Cum	67.20	<b>49063.39</b>	INR Forty Nine Thousand & Sixty Three and Paise Thirty Nine Only
466	<b>Item No.9:</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 350 mm dia.	429.00	Rmt	123.90	<b>53153.10</b>	INR Fifty Three Thousand One Hundred & Fifty Three and Paise Ten Only
467	450 mm dia.	61.00	Rmt	189.00	<b>11529.00</b>	INR Eleven Thousand Five Hundred & Twenty Nine Only



468	500 mm dia.	1643.00	Rmt	206.85	<b>339854.55</b>	INR Three Lakh Thirty Nine Thousand Eight Hundred & Fifty Four and Paise Fifty Five Only
469	1100 mm dia.	1776.00	Rmt	558.60	<b>992073.60</b>	INR Nine Lakh Ninety Two Thousand & Seventy Three and Paise Sixty Only
470	<b>Item No.10:</b> Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. 350 mm dia.	0.43	KM	13650.00	<b>5869.50</b>	INR Five Thousand Eight Hundred & Sixty Nine and Paise Fifty Only
471	450 mm dia.	0.06	KM	21000.00	<b>1260.00</b>	INR One Thousand Two Hundred & Sixty Only
472	500 mm dia.	1.64	KM	23100.00	<b>37884.00</b>	INR Thirty Seven Thousand Eight Hundred & Eighty Four Only
473	1100 mm dia.	1.78	KM	61950.00	<b>110271.00</b>	INR One Lakh Ten Thousand Two Hundred & Seventy One Only
474	<b>Item No.11:</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area Lift 1.50 to 3.00 m.	180.00	Sqm	252.00	<b>45360.00</b>	INR Forty Five Thousand Three Hundred & Sixty Only
475	Water Logged Area Lift 1.50 to 3.00 m.	120.00	Sqm	250.95	<b>30114.00</b>	INR Thirty Thousand One Hundred & Fourteen Only

476	<b>Item No.12:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting and curring etc. complete.	659.42	Cum	4444.65	<b>2930891.10</b>	INR Twenty Nine Lakh Thirty Thousand Eight Hundred & Ninety One and Paise Ten Only
477	<b>Item No.13:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other divices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	1054115.00	<b>1054115.00</b>	INR Ten Lakh Fifty Four Thousand One Hundred & Fifteen Only
478	<b>Item No.14:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 2.5 m depth.	2.00	No.	29411.55	<b>58823.10</b>	INR Fifty Eight Thousand Eight Hundred & Twenty Three and Paise Ten Only
479	Upto 3.0 m depth.	2.00	No.	35596.05	<b>71192.10</b>	INR Seventy One Thousand One Hundred & Ninety Two and Paise Ten Only
480	Upto 3.50 m depth.	6.00	No.	41780.55	<b>250683.30</b>	INR Two Lakh Fifty Thousand Six Hundred & Eighty Three and Paise Thirty Only

481	Upto 4.0 m depth.	7.00	No.	47965.05	335755.35	INR Three Lakh Thirty Five Thousand Seven Hundred & Fifty Five and Paise Thirty Five Only
482	Upto 4.5 m depth.	5.00	No.	54149.55	270747.75	INR Two Lakh Seventy Thousand Seven Hundred & Forty Seven and Paise Seventy Five Only
483	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50	6.00	No.	60334.05	362004.30	INR Three Lakh Sixty Two Thousand & Four and Paise Thirty Only
484	<b>Item No.15:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. 5.50 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C ..=Rs.7780.50	4.00	No.	75414.15	301656.60	INR Three Lakh One Thousand Six Hundred & Fifty Six and Paise Sixty Only
485	<b>Item No.16:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	5.18	MT	54803.70	283883.17	INR Two Lakh Eighty Three Thousand Eight Hundred & Eighty Three and Paise Seventeen Only

486	<b>Item No.17:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	20003.47	Cum	67.20	<b>1344233.18</b>	INR Thirteen Lakh Forty Four Thousand Two Hundred & Thirty Three and Paise Eighteen Only
487	<b>Item No.18:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	1734.15	Cum	195.62	<b>339234.42</b>	INR Three Lakh Thirty Nine Thousand Two Hundred & Thirty Four and Paise Forty Two Only
488	<b>Item No.19:</b> Providing, fixing and erecting RCC (M20) Vent shaft with cowl, 125mm x 225mm internal and external dia respectively at top, 300mm and 450mm internal and external dia at bottom and 9.10m over all length, bottom 1.25m below ground level fixed in the pit 900mmx900mmx1500mm with PCC M15, 250mm in bed and 200mm around with top 150mm in cement concrete 1:2:4 (1 cement 2 coarse sand and 4 graded stone aggregate of 20mm nominal size) junction of vent shaft and concrete grouted with cement mortar 1:2 (1 cement and 2 fine sand) including making connection with sewer manhole with 150 mm dia NP4 RCC pipe (IS 458-ammended upto date) for 5.0 m length including Murum bedding complete and as per standard design and finished with water proofing cement of approved brand of required shade as per drawings and/or as directed by Engineer.Providing and fixing RCC ventilation shaft, making connection to manhole etc. complete as directed by EIC.	1.00	No.	18432.00	<b>18432.00</b>	INR Eighteen Thousand Four Hundred & Thirty Two Only
489	<b>Item No.20:</b> Shifting of Utilities: All utilities like Electric Poles, waterline & Communication line Shifting while Manhole and Line Laying work etc., complete as per specifications and or as directed by engineer- in-charge.	1.00	Km	13506.00	<b>13506.00</b>	INR Thirteen Thousand Five Hundred & Six Only

490	<b>Item No.21:</b> Pushing of M.S. pipe of following dia. For road crossing and railway crossing by push through metod in all types of strata by using hydraulic jack and drilling machine of required diameter of below MS casing pipes, loweing, laying & jointing of material , required welding machinery , tripod, chain pully block , crain , blower, compressor, loading & unloading of machinery into the trench , etc. transportation and dewatering , etc. complete as directed by Engineer-in-charge but excluding the cost of MS pipes.-500 to 1000 mm dia. MS Pipe 500 to 1000 mm dia. MS Pipe	150.00	Rmt	29899.80	<b>4484970.00</b>	INR Forty Four Lakh Eighty Four Thousand Nine Hundred & Seventy Only
491	MS Pipe 1500 mm (ID) 12 mm thick	150.00	Rmt	23550.00	<b>3532500.00</b>	INR Thirty Five Lakh Thirty Two Thousand Five Hundred Only
492	<b>Sub Work No.3 C:- TRUNK MAIN FOR ZONE XIII</b> <b>Item No.1:</b> Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collor joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 1100 mm dia.	1786.00	Rmt	6916.00	<b>12351976.00</b>	INR One Crore Twenty Three Lakh Fifty One Thousand Nine Hundred & Seventy Six Only
493	1200 mm dia.	1593.00	Rmt	7884.00	<b>12559212.00</b>	INR One Crore Twenty Five Lakh Fifty Nine Thousand Two Hundred & Twelve Only
494	RCC NP 4 Class 1100 mm dia.	220.00	Rmt	8463.00	<b>1861860.00</b>	INR Eighteen Lakh Sixty One Thousand Eight Hundred & Sixty Only
495	1200 mm dia.	110.00	Rmt	8578.00	<b>943580.00</b>	INR Nine Lakh Forty Three Thousand Five Hundred & Eighty Only

496	<b>Item No.2:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	13168.09	Cum	155.10	<b>2042370.76</b>	INR Twenty Lakh Forty Two Thousand Three Hundred & Seventy and Paise Seventy Six Only
497	Lift 1.50 -3.0 M.	11666.17	Cum	168.30	<b>1963416.41</b>	INR Nineteen Lakh Sixty Three Thousand Four Hundred & Sixteen and Paise Forty One Only
498	<b>Item No.3:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	17551.97	Cum	198.00	<b>3475290.06</b>	INR Thirty Four Lakh Seventy Five Thousand Two Hundred & Ninety and Paise Six Only
499	Lift 0 -1.5 M.	7000.40	Cum	211.20	<b>1478484.48</b>	INR Fourteen Lakh Seventy Eight Thousand Four Hundred & Eighty Four and Paise Forty Eight Only
500	<b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	2191.94	Cum	487.30	<b>1068132.36</b>	INR Ten Lakh Sixty Eight Thousand One Hundred & Thirty Two and Paise Thirty Six Only
501	Lift 1.5 -3.0 M.	14000.80	Cum	509.30	<b>7130607.44</b>	INR Seventy One Lakh Thirty Thousand Six Hundred & Seven and Paise Forty Four Only
502	Lift 3.0 -4.5 M.	29735.00	Cum	531.30	<b>15798205.50</b>	INR One Crore Fifty Seven Lakh Ninety Eight Thousand Two Hundred & Five and Paise Fifty Only
503	Lift 4.5-6.0 M.	13419.00	Cum	553.30	<b>7424732.70</b>	INR Seventy Four Lakh Twenty Four Thousand Seven Hundred & Thirty Two and Paise Seventy Only

504	Lift 6.0-7.50 M.	119.00	Cum	575.30	68460.70	INR Sixty Eight Thousand Four Hundred & Sixty and Paise Seventy Only
505	<b>Item No.5:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 1.5 -3.0 M.	2334.63	Cum	826.10	1928637.84	INR Nineteen Lakh Twenty Eight Thousand Six Hundred & Thirty Seven and Paise Eighty Four Only
506	<b>Item No.6:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	2225.40	Cum	957.60	2131043.04	INR Twenty One Lakh Thirty One Thousand & Forty Three and Paise Four Only
507	<b>Item No.7:</b> Providing & filling in sand boxing in pipeline or for foundation with sand of approved quality including watering and compaction etc.complete. (CSR 2016-17, P. 39 I. 19)	25.33	Cum	977.55	24761.34	INR Twenty Four Thousand Seven Hundred & Sixty One and Paise Thirty Four Only
508	<b>Item No.8:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	227.98	Cum	67.20	15320.26	INR Fifteen Thousand Three Hundred & Twenty and Paise Twenty Six Only
509	<b>Item No.9:</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 1100 mm dia.	2006.00	Rmt	558.60	1120551.60	INR Eleven Lakh Twenty Thousand Five Hundred & Fifty One and Paise Sixty Only
510	1200 mm dia.	1703.00	Rmt	594.30	1012092.90	INR Ten Lakh Twelve Thousand & Ninety Two and Paise Ninety Only

511	<b>Item No.10:</b> Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. 1100 mm dia.	2.01	Rmt	61950.00	<b>124519.50</b>	INR One Lakh Twenty Four Thousand Five Hundred & Nineteen and Paise Fifty Only
512	1200 mm dia.	1.70	Rmt	66150.00	<b>112455.00</b>	INR One Lakh Twelve Thousand Four Hundred & Fifty Five Only
513	<b>Item No.11:</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, strutts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area Lift 1.50 to 3.00 m.	3121.20	Sqm	252.00	<b>786542.40</b>	INR Seven Lakh Eighty Six Thousand Five Hundred & Forty Two and Paise Forty Only
514	Water Logged Area Lift 1.50 to 3.00 m.	2080.80	Sqm	250.95	<b>522176.76</b>	INR Five Lakh Twenty Two Thousand One Hundred & Seventy Six and Paise Seventy Six Only
515	<b>Item No.12:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting and curring etc. complete.	759.53	Cum	4444.65	<b>3375845.01</b>	INR Thirty Three Lakh Seventy Five Thousand Eight Hundred & Forty Five and Paise One Only



516	<b>Item No.13:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	1054620.00	<b>1054620.00</b>	INR Ten Lakh Fifty Four Thousand Six Hundred & Twenty Only
517	<b>Item No.14:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 3.50 m depth.	1.00	No.	41780.55	<b>41780.55</b>	INR Forty One Thousand Seven Hundred & Eighty and Paise Fifty Five Only
518	Upto 4.0 m depth.	1.00	No.	47965.05	<b>47965.05</b>	INR Forty Seven Thousand Nine Hundred & Sixty Five and Paise Five Only
519	Upto 4.5 m depth.	1.00	No.	54149.55	<b>54149.55</b>	INR Fifty Four Thousand One Hundred & Forty Nine and Paise Fifty Five Only
520	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50	2.00	No.	60334.05	<b>120668.10</b>	INR One Lakh Twenty Thousand Six Hundred & Sixty Eight and Paise Ten Only

521	<b>Item No.15:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. 5.50 m depth.	6.00	No.	75414.15	<b>452484.90</b>	INR Four Lakh Fifty Two Thousand Four Hundred & Eighty Four and Paise Ninety Only
522	6.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50	3.00	No.	83194.65	<b>249583.95</b>	INR Two Lakh Forty Nine Thousand Five Hundred & Eighty Three and Paise Ninety Five Only
523	<b>Item No.16:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Ton Steel	5.97	MT	54803.70	<b>327178.09</b>	INR Three Lakh Twenty Seven Thousand One Hundred & Seventy Eight and Paise Nine Only
524	<b>Item No.17:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	38648.24	Cum	67.20	<b>2597161.73</b>	INR Twenty Five Lakh Ninety Seven Thousand One Hundred & Sixty One and Paise Seventy Three Only
525	<b>Item No.18:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	3374.54	Cum	195.62	<b>660127.51</b>	INR Six Lakh Sixty Thousand One Hundred & Twenty Seven and Paise Fifty One Only

526	<b>Item No.19:</b> Providing, fixing and erecting RCC (M20) Vent shaft with cowl, 125mm x 225mm internal and external dia respectively at top, 300mm and 450mm internal and external dia at bottom and 9.10m over all length, bottom 1.25m below ground level fixed in the pit 900mmx900mmx1500mm with PCC M15, 250mm in bed and 200mm around with top 150mm in cement concrete 1:2:4 (1 cement 2 coarse sand and 4 graded stone aggregate of 20mm nominal size) junction of vent shaft and concrete grouted with cement mortar 1:2 (1 cement and 2 fine sand) including making connection with sewer manhole with 150 mm dia NP4 RCC pipe (IS 458-ammended upto date) for 5.0 m length including Murum bedding complete and as per standard design and finished with water proofing cement of approved brand of required shade as per drawings and/or as directed by Engineer.Providing and fixing RCC ventilation shaft, making connection to manhole etc. complete as directed by EIC.	4.00	No.	18432.00	<b>73728.00</b>	INR Seventy Three Thousand Seven Hundred & Twenty Eight Only
527	<b>Item No.20:</b> Pushing of M.S. pipe of following dia. For road crossing and railway crossing by push through metod in all types of strata by using hydraulic jack and drilling machine of required diameter of below MS casing pipes, loweing, laying & jointing of material , required welding machinery , tripod, chain pully block , crain , blower, compressor, loading & unloading of machinery into the trench , etc. transportation and dewatering , etc. complete as directed by Engineer-in-charge but excluding the cost of MS pipes.-500 to 1000 mm dia. MS Pipe	90.00	Rmt	29899.80	<b>2690982.00</b>	INR Twenty Six Lakh Ninety Thousand Nine Hundred & Eighty Two Only
528	MS Pipe 1500 mm (ID) 12 mm thick	90.00	Rmt	23550.00	<b>2119500.00</b>	INR Twenty One Lakh Nineteen Thousand Five Hundred Only

529	<p><b>Sub Work No.4 A: SEWERAGE SYSTEM FOR ZONE I</b></p> <p><b>Item No.1:</b> ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete.</p> <p>Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment RCC NP 3 Class 300 mm dia.</p>	1177.00	Rmt	757.00	<b>890989.00</b>	INR Eight Lakh Ninety Thousand Nine Hundred & Eighty Nine Only
530	RCC NP 4 Class 300 mm dia.	884.00	Rmt	945.00	<b>835380.00</b>	INR Eight Lakh Thirty Five Thousand Three Hundred & Eighty Only
531	<p><b>Item No.2:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage Class SN 8 250 mm dia.(ID)</p>	892.00	Rmt	1007.00	<b>898244.00</b>	INR Eight Lakh Ninety Eight Thousand Two Hundred & Forty Four Only

532	<b>Item No.3:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete.	915.89	Cum	155.10	<b>142054.54</b>	INR One Lakh Forty Two Thousand & Fifty Four and Paise Fifty Four Only
533	<b>Item No.4:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	1332.69	Cum	198.00	<b>263872.62</b>	INR Two Lakh Sixty Three Thousand Eight Hundred & Seventy Two and Paise Sixty Two Only
534	<b>Item No.5:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, ashphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	2942.53	Cum	487.30	<b>1433894.87</b>	INR Fourteen Lakh Thirty Three Thousand Eight Hundred & Ninety Four and Paise Eighty Seven Only
535	Lift 1.5 -3.0 M.	1886.75	Cum	509.30	<b>960921.78</b>	INR Nine Lakh Sixty Thousand Nine Hundred & Twenty One and Paise Seventy Eight Only
536	<b>Item No.6:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0-1.50 M.	221.93	Cum	826.10	<b>183336.37</b>	INR One Lakh Eighty Three Thousand Three Hundred & Thirty Six and Paise Thirty Seven Only
537	Lift 1.5 -3.0 M.	3368.82	Cum	848.10	<b>2857096.24</b>	INR Twenty Eight Lakh Fifty Seven Thousand & Ninety Six and Paise Twenty Four Only

538	Lift 3.0 -4.5 M.	1541.72	Cum	870.10	1341450.57	INR Thirteen Lakh Forty One Thousand Four Hundred & Fifty and Paise Fifty Seven Only
539	Lift 4.5-6.0 M.	68.33	Cum	892.10	60957.19	INR Sixty Thousand Nine Hundred & Fifty Seven and Paise Nineteen Only
540	<b>Item No.7:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	192.00	Cum	957.60	183859.20	INR One Lakh Eighty Three Thousand Eight Hundred & Fifty Nine and Paise Twenty Only
541	<b>Item No.8:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	505.77	Cum	67.20	33987.74	INR Thirty Three Thousand Nine Hundred & Eighty Seven and Paise Seventy Four Only
542	<b>Item No.9:</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 300 mm dia.	2061.00	Rmt	120.75	248865.75	INR Two Lakh Forty Eight Thousand Eight Hundred & Sixty Five and Paise Seventy Five Only
543	<b>Item No.10:</b> Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. New item to be added 300 mm dia.	2.06	Km	13650.00	28119.00	INR Twenty Eight Thousand One Hundred & Nineteen Only

544	<b>Item No.11:</b> Lowering, laying and jointing H.D.P.E. Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete H.D.P.E. DWC pipes for Drainage CLASS SN 8 250 mm dia.(ID)	892.00	Rmt	49.35	<b>44020.20</b>	INR Forty Four Thousand &Twenty and Paise Twenty Only
545	Item No.12: Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position., etc. complete H.D.P.E. DWC pipes for Drainage CLASS SN 8 250 mm dia.(ID)	0.89	Km	5250.00	<b>4672.50</b>	INR Four Thousand Six Hundred & Seventy Two and Paise Fifty Only
546	<b>Item No.13:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	63.60	Cum	4444.65	<b>282679.74</b>	INR Two Lakh Eighty Two Thousand Six Hundred & Seventy Nine and Paise Seventy Four Only

547	<p><b>Item No.14:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.</p>	1.00	Job	1367100.00	<b>1367100.00</b>	INR Thirteen Lakh Sixty Seven Thousand One Hundred Only
548	<p>Item No.15: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. Upto 1.50 m depth.</p>	3.00	No.	18163.95	<b>54491.85</b>	INR Fifty Four Thousand Four Hundred & Ninety One and Paise Eighty Five Only
549	<p>Upto 2 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5% for M.C..=Rs.2991.45</p>	7.00	No.	21155.40	<b>148087.80</b>	INR One Lakh Forty Eight Thousand &Eighty Seven and Paise Eighty Only



550	Item No.16: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 2.5 m depth.	13.00	No.	29411.55	<b>382350.15</b>	INR Three Lakh Eighty Two Thousand Three Hundred & Fifty and Paise Fifteen Only
551	Upto 3.0 m depth.	12.00	No.	35596.05	<b>427152.60</b>	INR Four Lakh Twenty Seven Thousand One Hundred & Fifty Two and Paise Sixty Only
552	Upto 3.50 m depth.	31.00	No.	41780.55	<b>1295197.05</b>	INR Twelve Lakh Ninety Five Thousand One Hundred & Ninety Seven and Paise Five Only
553	Upto 4.0 m depth.	25.00	No.	47965.05	<b>1199126.25</b>	INR Eleven Lakh Ninety Nine Thousand One Hundred & Twenty Six and Paise Twenty Five Only
554	Upto 4.5 m depth.	9.00	No.	54149.55	<b>487345.95</b>	INR Four Lakh Eighty Seven Thousand Three Hundred & Forty Five and Paise Ninety Five Only
555	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50	1.00	No.	60334.05	<b>60334.05</b>	INR Sixty Thousand Three Hundred & Thirty Four and Paise Five Only

556	<p><b>Item No.17:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge.</p> <p><b>5.50 m depth.</b></p> <p>a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50</p>	2.00	No.	75414.15	<b>150828.30</b>	INR One Lakh Fifty Thousand Eight Hundred & Twenty Eight and Paise Thirty Only
557	<p><b>Item No.18:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel</p>	0.47	MT	54803.70	<b>25757.74</b>	INR Twenty Five Thousand Seven Hundred & Fifty Seven and Paise Seventy Four Only
558	<p><b>Item No.19:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.</p>	10160.00	Cum	67.20	<b>682752.00</b>	INR Six Lakh Eighty Two Thousand Seven Hundred & Fifty Two Only
559	<p><b>Item No.20:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.</p>	1612.00	Cum	195.62	<b>315339.44</b>	INR Three Lakh Fifteen Thousand Three Hundred & Thirty Nine and Paise Forty Four Only

560	<p><b>Item No.21:</b> WBM Road restoration:Reinstating the road surface with supplying &amp; spreading 60mm metal of 20 cm thick with Hard murum &amp; 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering &amp; compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.</p>	2635.50	Sqm	208.74	<b>550134.27</b>	INR Five Lakh Fifty Thousand One Hundred & Thirty Four and Paise Twenty Seven Only
561	<p><b>Item No.22:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p>	1933.00	Sqm	873.47	<b>1688417.51</b>	INR Sixteen Lakh Eighty Eight Thousand Four Hundred & Seventeen and Paise Fifty One Only

562	<p><b>Item No.23: Concrete Road restoration :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</b></p> <p><b>Item No. 23A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	87.80	Cum	473.55	<b>41577.69</b>	INR Forty One Thousand Five Hundred & Seventy Seven and Paise Sixty Nine Only
563	<p><b>Item No. 23B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38</p>	87.80	Cum	5649.00	<b>495982.20</b>	INR Four Lakh Ninety Five Thousand Nine Hundred & Eighty Two and Paise Twenty Only
564	<p><b>Item No. 23C:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge</p>	43.90	Cum	6680.10	<b>293256.39</b>	INR Two Lakh Ninety Three Thousand Two Hundred & Fifty Six and Paise Thirty Nine Only
565	<p>Item No. 24: Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge. Water Supply Connections - 15 mm dia</p>	30.00	Rmt	175.35	<b>5260.50</b>	INR Five Thousand Two Hundred & Sixty and Paise Fifty Only

566	Water Supply Connections - 20 mm dia	4.00	Rmt	205.80	<b>823.20</b>	INR Eight Hundred & Twenty Three and Paise Twenty Only
567	<b>Item No. 24A:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in 1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing & finishing in above manner ( for 9 mtr pole)	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only
568	<b>Item No. 24B:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
569	<b>Item No. 24C:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
570	<b>Item No. 24D:</b> Earthing : Providing erecting pipe type earthing of 40 mm GI pipe dia with double earthing to the all equipments as per Detailed specifications.	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only
571	<b>Item No. 25: Communication Cable - Jelly Filled telephone lines and optical Fibre Cable</b> <b>Item No. 25A:</b> Supply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TW	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
572	<b>Item No. 25B:</b> Supply & erecting of FR grade PVC armoured multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only

573	<b>Item No. 25C:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only
574	Sub Work No.4 B: SEWERAGE SYSTEM FOR ZONE II Item No.1: Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete.Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 500 mm dia.	109.00	Rmt	1785.00	<b>194565.00</b>	INR One Lakh Ninety Four Thousand Five Hundred & Sixty Five Only
575	800 mm dia.	1456.00	Rmt	3150.00	<b>4586400.00</b>	INR Forty Five Lakh Eighty Six Thousand Four Hundred Only
576	900 mm dia.	1276.00	Rmt	3675.00	<b>4689300.00</b>	INR Forty Six Lakh Eighty Nine Thousand Three Hundred Only
577	RCC NP 4 Class 500 mm dia.	196.00	Rmt	1943.00	<b>380828.00</b>	INR Three Lakh Eighty Thousand Eight Hundred & Twenty Eight Only
578	600 mm dia.	800.00	Rmt	2520.00	<b>2016000.00</b>	INR Twenty Lakh Sixteen Thousand Only
579	800 mm dia.	374.00	Rmt	3413.00	<b>1276462.00</b>	INR Twelve Lakh Seventy Six Thousand Four Hundred & Sixty Two Only
580	900 mm dia.	74.00	Rmt	3990.00	<b>295260.00</b>	INR Two Lakh Ninety Five Thousand Two Hundred & Sixty Only

581	<b>Item No.2:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete.	1863.78	Cum	155.10	<b>289072.28</b>	INR Two Lakh Eighty Nine Thousand & Seventy Two and Paise Twenty Eight Only
582	<b>Item No.3:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete.	2671.00	Cum	198.00	<b>528858.00</b>	INR Five Lakh Twenty Eight Thousand Eight Hundred & Fifty Eight Only
583	<b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	6149.24	Cum	487.30	<b>2996524.65</b>	INR Twenty Nine Lakh Ninety Six Thousand Five Hundred & Twenty Four and Paise Sixty Five Only
584	Lift 1.5 -3.0 M.	4389.33	Cum	509.30	<b>2235485.77</b>	INR Twenty Two Lakh Thirty Five Thousand Four Hundred & Eighty Five and Paise Seventy Seven Only
585	<b>Item No.5:</b> Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0-1.50 M.	496.41	Cum	826.10	<b>410084.30</b>	INR Four Lakh Ten Thousand & Eighty Four and Paise Thirty Only
586	Lift 1.5 -3.0 M.	8355.53	Cum	848.10	<b>7086324.99</b>	INR Seventy Lakh Eighty Six Thousand Three Hundred & Twenty Four and Paise Ninety Nine Only

587	Lift 3.0 -4.5 M.	5791.18	Cum	870.10	<b>5038905.72</b>	INR Fifty Lakh Thirty Eight Thousand Nine Hundred & Five and Paise Seventy Two Only
588	Lift 4.5-6.0 M.	426.99	Cum	892.10	<b>380917.78</b>	INR Three Lakh Eighty Thousand Nine Hundred & Seventeen and Paise Seventy Eight Only
589	Lift 6.0-7.5 M.	44.25	Cum	914.10	<b>40448.93</b>	INR Forty Thousand Four Hundred & Forty Eight and Paise Ninety Three Only
590	<b>Item No.6:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	878.40	Cum	957.60	<b>841155.84</b>	INR Eight Lakh Forty One Thousand One Hundred & Fifty Five and Paise Eighty Four Only
591	<b>Item No.7:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	1054.66	Cum	67.20	<b>70873.15</b>	INR Seventy Thousand Eight Hundred & Seventy Three and Paise Fifteen Only
592	<b>Item No.8:</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubbar joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment  500 mm dia.	305.00	Rmt	206.85	<b>63089.25</b>	INR Sixty Three Thousand & Eighty Nine and Paise Twenty Five Only
593	600 mm dia.	800.00	Rmt	260.40	<b>208320.00</b>	INR Two Lakh Eight Thousand Three Hundred & Twenty Only
594	700 mm dia.	1830.00	Rmt	341.25	<b>624487.50</b>	INR Six Lakh Twenty Four Thousand Four Hundred & Eighty Seven and Paise Fifty Only
595	900 mm dia.	1350.00	Rmt	376.95	<b>508882.50</b>	INR Five Lakh Eight Thousand Eight Hundred & Eighty Two and Paise Fifty Only



596	Item No.9: Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. New item to be added 500 mm dia.	0.31	Km	23100.00	<b>7161.00</b>	INR Seven Thousand One Hundred & Sixty One Only
597	600 mm dia.	0.80	Km	29400.00	<b>23520.00</b>	INR Twenty Three Thousand Five Hundred & Twenty Only
598	800 mm dia.	1.83	Km	37800.00	<b>69174.00</b>	INR Sixty Nine Thousand One Hundred & Seventy Four Only
599	900 mm dia.	1.35	Km	42000.00	<b>56700.00</b>	INR Fifty Six Thousand Seven Hundred Only
600	<b>Item No.10:</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area Lift 1.50 to 3.00 m.	294.00	Sqm	252.00	<b>74088.00</b>	INR Seventy Four Thousand & Eighty Eight Only
601	Water Logged Area Lift 1.50 to 3.00 m.	294.00	Sqm	250.95	<b>73779.30</b>	INR Seventy Three Thousand Seven Hundred & Seventy Nine and Paise Thirty Only
602	<b>Item No.11:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	214.62	Cum	4444.65	<b>953910.78</b>	INR Nine Lakh Fifty Three Thousand Nine Hundred & Ten and Paise Seventy Eight Only

603	<b>Item No.12:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	2734200.00	<b>2734200.00</b>	INR Twenty Seven Lakh Thirty Four Thousand Two Hundred Only
604	Item No.13: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 2.5 m depth.	14.00	No.	29411.55	<b>411761.70</b>	INR Four Lakh Eleven Thousand Seven Hundred & Sixty One and Paise Seventy Only
605	Upto 3.0 m depth.	15.00	No.	35596.05	<b>533940.75</b>	INR Five Lakh Thirty Three Thousand Nine Hundred & Forty and Paise Seventy Five Only
606	Upto 3.50 m depth.	18.00	No.	41780.55	<b>752049.90</b>	INR Seven Lakh Fifty Two Thousand &Forty Nine and Paise Ninety Only
607	Upto 4.0 m depth.	58.00	No.	47965.05	<b>2781972.90</b>	INR Twenty Seven Lakh Eighty One Thousand Nine Hundred & Seventy Two and Paise Ninety Only
608	Upto 4.5 m depth.	45.00	No.	54149.55	<b>2436729.75</b>	INR Twenty Four Lakh Thirty Six Thousand Seven Hundred & Twenty Nine and Paise Seventy Five Only

609	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50	4.00	No.	60334.05	<b>241336.20</b>	INR Two Lakh Forty One Thousand Three Hundred & Thirty Six and Paise Twenty Only
610	Item No.14: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. 5.50 m depth.	5.00	No.	75414.15	<b>377070.75</b>	INR Three Lakh Seventy Seven Thousand & Seventy and Paise Seventy Five Only
611	6.0 m depth.	2.00	No.	83194.65	<b>166389.30</b>	INR One Lakh Sixty Six Thousand Three Hundred & Eighty Nine and Paise Thirty Only
612	6.5 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50	2.00	No.	90975.15	<b>181950.30</b>	INR One Lakh Eighty One Thousand Nine Hundred & Fifty and Paise Thirty Only
613	Item No.15: Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parodies, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	1.65	MT	54803.70	<b>90426.11</b>	INR Ninety Thousand Four Hundred & Twenty Six and Paise Eleven Only
614	<b>Item No.16:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	23621.00	Cum	67.20	<b>1587331.20</b>	INR Fifteen Lakh Eighty Seven Thousand Three Hundred & Thirty One and Paise Twenty Only

615	<b>Item No.17:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	5511.00	Cum	195.62	<b>1078061.82</b>	INR Ten Lakh Seventy Eight Thousand &Sixty One and Paise Eighty Two Only
616	<b>Item No.18:</b> WBM Road restoration:Reinstating the road surface with supplying & spreading 60mm metal of 20 cm thick with Hard murum & 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering & compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.	5748.75	Sqm	208.74	<b>1199994.08</b>	INR Eleven Lakh Ninety Nine Thousand Nine Hundred & Ninety Four and Paise Eight Only
617	<b>Item No.19:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.	3832.00	Sqm	873.47	<b>3347137.04</b>	INR Thirty Three Lakh Forty Seven Thousand One Hundred & Thirty Seven and Paise Four Only

618	<p><b>Item No.20: Concrete Road restoration</b> :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p><b>Item No. 20A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	229.90	Cum	496.10	114053.39	INR One Lakh Fourteen Thousand & Fifty Three and Paise Thirty Nine Only
619	<p><b>Item No. 20B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38</p>	229.90	Cum	5918.00	1360548.20	INR Thirteen Lakh Sixty Thousand Five Hundred & Forty Eight and Paise Twenty Only
620	<p><b>Item No. 20C:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge</p>	114.95	Cum	6998.20	804443.09	INR Eight Lakh Four Thousand Four Hundred & Forty Three and Paise Nine Only
621	<p>Item No. 21: Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge. Water Supply Connections - 15 mm dia</p>	50.00	Rmt	175.35	8767.50	INR Eight Thousand Seven Hundred & Sixty Seven and Paise Fifty Only
622	<p>Water Supply Connections - 20 mm dia Electrical Lines &amp; Poles Electrical Poles - RA for 10 km</p>	15.00	Rmt	205.80	3087.00	INR Three Thousand & Eighty Seven Only

623	<b>Item No. 21A:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in 1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing & finishing in above manner ( for 9 mtr pole)	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only
624	<b>Item No. 21B:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
625	<b>Item No. 21C:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
626	<b>Item No. 21D:</b> Earthling : Providing erecting pipe type earthling of 40 mm GI pipe dia with double earthling to the all equipments as per Detailed specifications.	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only
627	<b>Item No. 22: Communication Cable - Jelly Filled telephone lines and optical Fibre Cable</b> <b>Item No. 22A:</b> Supply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TW	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
628	<b>Item No. 22B:</b> Supply & erecting of FR grade PVC armoured multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only
629	<b>Item No. 22C:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only

630	Sub Work No.4 C: SEWERAGE SYSTEM FOR ZONE III Item No.1: Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete.Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 450 mm dia.	368.00	Rmt	1449.00	<b>533232.00</b>	INR Five Lakh Thirty Three Thousand Two Hundred & Thirty Two Only
631	500 mm dia.	152.00	Rmt	1785.00	<b>271320.00</b>	INR Two Lakh Seventy One Thousand Three Hundred & Twenty Only
632	700 mm dia.	660.00	Rmt	2940.00	<b>1940400.00</b>	INR Nineteen Lakh Forty Thousand Four Hundred Only
633	RCC NP 4 Class 450 mm dia.	71.00	Rmt	1575.00	<b>111825.00</b>	INR One Lakh Eleven Thousand Eight Hundred & Twenty Five Only
634	500 mm dia.	190.00	Rmt	1943.00	<b>369170.00</b>	INR Three Lakh Sixty Nine Thousand One Hundred & Seventy Only
635	600 mm dia.	679.00	Rmt	2520.00	<b>1711080.00</b>	INR Seventeen Lakh Eleven Thousand & Eighty Only
636	700 mm dia.	71.00	Rmt	3150.00	<b>223650.00</b>	INR Two Lakh Twenty Three Thousand Six Hundred & Fifty Only
637	<b>Item No.2:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	1077.33	Cum	155.10	<b>167093.88</b>	INR One Lakh Sixty Seven Thousand & Ninety Three and Paise Eighty Eight Only

638	<b>Item No.3:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	1675.03	Cum	198.00	<b>331655.94</b>	INR Three Lakh Thirty One Thousand Six Hundred & Fifty Five and Paise Ninety Four Only
639	Item No.4: Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, ashphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	2518.34	Cum	487.30	<b>1227187.08</b>	INR Twelve Lakh Twenty Seven Thousand One Hundred & Eighty Seven and Paise Eight Only
640	Lift 1.5 -3.0 M.	2641.62	Cum	509.30	<b>1345377.07</b>	INR Thirteen Lakh Forty Five Thousand Three Hundred & Seventy Seven and Paise Seven Only
641	Item No.3: Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 1.5 -3.0 M.	2965.72	Cum	848.10	<b>2515227.13</b>	INR Twenty Five Lakh Fifteen Thousand Two Hundred & Twenty Seven and Paise Thirteen Only
642	Lift 3.0 -4.5 M.	2899.51	Cum	870.10	<b>2522863.65</b>	INR Twenty Five Lakh Twenty Two Thousand Eight Hundred & Sixty Three and Paise Sixty Five Only
643	Lift 4.5-6.0 M.	542.69	Cum	892.10	<b>484133.75</b>	INR Four Lakh Eighty Four Thousand One Hundred & Thirty Three and Paise Seventy Five Only
644	<b>Item No.4:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	113.88	Cum	957.60	<b>109051.49</b>	INR One Lakh Nine Thousand & Fifty One and Paise Forty Nine Only



645	<b>Item No.5:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	339.26	Cum	67.20	<b>22798.27</b>	INR Twenty Two Thousand Seven Hundred & Ninety Eight and Paise Twenty Seven Only
646	Item No.6: Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 450 mm dia.	439.00	Rmt	189.00	<b>82971.00</b>	INR Eighty Two Thousand Nine Hundred & Seventy One Only
647	500 mm dia.	342.00	Rmt	206.85	<b>70742.70</b>	INR Seventy Thousand Seven Hundred & Forty Two and Paise Seventy Only
648	600 mm dia.	679.00	Rmt	260.40	<b>176811.60</b>	INR One Lakh Seventy Six Thousand Eight Hundred & Eleven and Paise Sixty Only
649	700 mm dia.	731.00	Rmt	295.05	<b>215681.55</b>	INR Two Lakh Fifteen Thousand Six Hundred & Eighty One and Paise Fifty Five Only
650	Item No.7: Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. New item to be added 450 mm dia.	0.44	Km	21000.00	<b>9240.00</b>	INR Nine Thousand Two Hundred & Forty Only
651	500 mm dia.	0.34	Km	23100.00	<b>7854.00</b>	INR Seven Thousand Eight Hundred & Fifty Four Only
652	600 mm dia.	0.68	Km	29400.00	<b>19992.00</b>	INR Nineteen Thousand Nine Hundred & Ninety Two Only

653	700 mm dia.	0.73	Km	32550.00	<b>23761.50</b>	INR Twenty Three Thousand Seven Hundred & Sixty One and Paise Fifty Only
654	Item No.8: Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area Lift 1.50 to 3.00 m.	350.40	Sqm	252.00	<b>88300.80</b>	INR Eighty Eight Thousand Three Hundred and Paise Eighty Only
655	Water Logged Area Lift 1.50 to 3.00 m.	525.60	Sqm	250.95	<b>131899.32</b>	INR One Lakh Thirty One Thousand Eight Hundred & Ninety Nine and Paise Thirty Two Only
656	<b>Item No.9:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	274.50	Cum	4444.65	<b>1220056.43</b>	INR Twelve Lakh Twenty Thousand & Fifty Six and Paise Forty Three Only
657	<b>Item No.10:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other divices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	6835500.00	<b>6835500.00</b>	INR Sixty Eight Lakh Thirty Five Thousand Five Hundred Only

658	<p><b>Item No11:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. Upto 2 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5% for M.C..=Rs.2991.45</p>	11.00	No.	21155.40	<b>232709.40</b>	INR Two Lakh Thirty Two Thousand Seven Hundred & Nine and Paise Forty Only
659	<p>Item No.12: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 2.5 m depth.</p>	11.00	No.	29411.55	<b>323527.05</b>	INR Three Lakh Twenty Three Thousand Five Hundred & Twenty Seven and Paise Five Only
660	Upto 3.0 m depth.	5.00	No.	35596.05	<b>177980.25</b>	INR One Lakh Seventy Seven Thousand Nine Hundred & Eighty and Paise Twenty Five Only
661	Upto 3.50 m depth.	6.00	No.	41780.55	<b>250683.30</b>	INR Two Lakh Fifty Thousand Six Hundred & Eighty Three and Paise Thirty Only

662	Upto 4.0 m depth.	15.00	No.	47965.05	719475.75	INR Seven Lakh Nineteen Thousand Four Hundred & Seventy Five and Paise Seventy Five Only
663	Upto 4.5 m depth.	11.00	No.	54149.55	595645.05	INR Five Lakh Ninety Five Thousand Six Hundred & Forty Five and Paise Five Only
664	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50	14.00	No.	60334.05	844676.70	INR Eight Lakh Forty Four Thousand Six Hundred & Seventy Six and Paise Seventy Only
665	<b>Item No.13:</b> Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. 5.50 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50	13.00	No.	75414.15	980383.95	INR Nine Lakh Eighty Thousand Three Hundred & Eighty Three and Paise Ninety Five Only
666	<b>Item No.13:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	2.12	MT	54803.70	116183.84	INR One Lakh Sixteen Thousand One Hundred & Eighty Three and Paise Eighty Four Only

667	<b>Item No.14:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	11351.00	Cum	67.20	<b>762787.20</b>	INR Seven Lakh Sixty Two Thousand Seven Hundred & Eighty Seven and Paise Twenty Only
668	<b>Item No.15:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	2629.00	Cum	195.62	<b>514284.98</b>	INR Five Lakh Fourteen Thousand Two Hundred & Eighty Four and Paise Ninety Eight Only
669	<b>Item No.16:</b> WBM Road restoration:Reinstating the road surface with supplying & spreading 60mm metal of 20 cm thick with Hard murum & 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering & compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.	2593.50	Sqm	208.74	<b>541367.19</b>	INR Five Lakh Forty One Thousand Three Hundred & Sixty Seven and Paise Nineteen Only
670	<b>Item No.17:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.	1729.00	Sqm	873.47	<b>1510229.63</b>	INR Fifteen Lakh Ten Thousand Two Hundred & Twenty Nine and Paise Sixty Three Only

671	<p><b>Item No.14: Concrete Road restoration</b> :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p><b>Item No.14A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	69.20	Cum	496.10	<b>34330.12</b>	INR Thirty Four Thousand Three Hundred & Thirty and Paise Twelve Only
672	<p><b>Item No.14B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38</p>	69.20	Cum	5918.00	<b>409525.60</b>	INR Four Lakh Nine Thousand Five Hundred & Twenty Five and Paise Sixty Only
673	<p><b>Item No.14C:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge</p>	34.60	Cum	6998.20	<b>242137.72</b>	INR Two Lakh Forty Two Thousand One Hundred & Thirty Seven and Paise Seventy Two Only

674	Item No.15: All utilities like Electric Poles, waterline & Communication line Shifting while Manhole and Line Laying work etc., complete as per specifications and or as directed by engineer-in-charge. Item No.16: Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge. Water Supply Connections - 15 mm dia	50.00	Rmt	175.35	<b>8767.50</b>	INR Eight Thousand Seven Hundred & Sixty Seven and Paise Fifty Only
675	Water Supply Connections - 20 mm dia	20.00	Rmt	205.80	<b>4116.00</b>	INR Four Thousand One Hundred & Sixteen Only
676	<b>Electrical Lines &amp; Poles</b> <b>Electrical Poles - RA for 10 km</b> <b>Item No.16A:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing & finishing in above manner ( for 9 mtr pole)	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only
677	<b>Item No.16B:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
678	<b>Item No.16C:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
679	<b>Item No.16D:</b> Earthing : Providing erecting pipe type earthing of 40 mm GI pipe dia with double earthing to the all equipments as per Detailed specifications.	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only

680	<b>Item No.17: Communication Cable - Jelly Filled telephone lines and optical Fibre Cable</b> <b>Item No.17A:</b> CSupply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TW	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
681	<b>Item No.17B:</b> Supply & erecting of FR grade PVC armoured multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only
682	<b>Item No.17C:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only
683	<b>Sub Work No.4 D: SEWERAGE SYSTEM FOR ZONE IV</b> Item No.1: Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete. Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment RCC NP 3 Class 300 mm dia.	225.00	Rmt	757.00	<b>170325.00</b>	INR One Lakh Seventy Thousand Three Hundred & Twenty Five Only
684	350 mm dia.	75.00	Rmt	1260.00	<b>94500.00</b>	INR Ninety Four Thousand Five Hundred Only
685	RCC NP 4 Class 300 mm dia.	254.00	Rmt	945.00	<b>240030.00</b>	INR Two Lakh Forty Thousand &Thirty Only
686	350 mm dia.	100.00	Rmt	1344.00	<b>134400.00</b>	INR One Lakh Thirty Four Thousand Four Hundred Only



687	<p><b>Item No.2:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage Class SN 8 250 mm dia.(ID)</p>	603.00	Rmt	1007.00	<b>607221.00</b>	INR Six Lakh Seven Thousand Two Hundred & Twenty One Only
688	<p><b>Item No.3:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.</p>	400.84	Cum	155.10	<b>62170.28</b>	INR Sixty Two Thousand One Hundred & Seventy and Paise Twenty Eight Only
689	<p><b>Item No.4:</b> Excavation for foundation / pipe trenches in hard murum &amp; boulders , WBM road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.</p>	585.88	Cum	198.00	<b>116004.24</b>	INR One Lakh Sixteen Thousand &Four and Paise Twenty Four Only

690	Item No.5: Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	1233.51	Cum	487.30	<b>601089.42</b>	INR Six Lakh One Thousand & Eighty Nine and Paise Forty Two Only
691	Lift 1.5 -3.0 M.	721.99	Cum	509.30	<b>367709.51</b>	INR Three Lakh Sixty Seven Thousand Seven Hundred & Nine and Paise Fifty One Only
692	Item No.6: Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0-1.50 M.	92.52	Cum	826.10	<b>76430.77</b>	INR Seventy Six Thousand Four Hundred & Thirty and Paise Seventy Seven Only
693	Lift 1.5 -3.0 M.	1334.38	Cum	848.10	<b>1131687.68</b>	INR Eleven Lakh Thirty One Thousand Six Hundred & Eighty Seven and Paise Sixty Eight Only
694	Lift 3.0 -4.5 M.	569.34	Cum	870.10	<b>495382.73</b>	INR Four Lakh Ninety Five Thousand Three Hundred & Eighty Two and Paise Seventy Three Only
695	Lift 4.5-6.0 M.	21.54	Cum	892.10	<b>19215.83</b>	INR Nineteen Thousand Two Hundred & Fifteen and Paise Eighty Three Only
696	<b>Item No.7:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	84.00	Cum	957.60	<b>80438.40</b>	INR Eighty Thousand Four Hundred & Thirty Eight and Paise Forty Only
697	<b>Item No.8:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	211.29	Cum	67.20	<b>14198.69</b>	INR Fourteen Thousand One Hundred & Ninety Eight and Paise Sixty Nine Only

698	Item No.9: Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubbar joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 300 mm dia.	479.00	Rmt	120.75	<b>57839.25</b>	INR Fifty Seven Thousand Eight Hundred & Thirty Nine and Paise Twenty Five Only
699	350 mm dia.	175.00	Rmt	123.90	<b>21682.50</b>	INR Twenty One Thousand Six Hundred & Eighty Two and Paise Fifty Only
700	Item No.10: Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. New item to be added 300 mm dia.	0.48	Km	13650.00	<b>6552.00</b>	INR Six Thousand Five Hundred & Fifty Two Only
701	350 mm dia.	0.18	Km	13650.00	<b>2457.00</b>	INR Two Thousand Four Hundred & Fifty Seven Only

702	<b>Item No.11:</b> Lowering, laying and jointing H.D.P.E. Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage CLASS SN 8 250 mm dia.(ID)	603.00	Rmt	49.35	<b>29758.05</b>	INR Twenty Nine Thousand Seven Hundred & Fifty Eight and Paise Five Only
703	<b>Item No.12:</b> Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position., etc. complete H.D.P.E. DWC pipes for Drainage CLASS SN 8 250 mm dia.(ID)	0.60	Km	5250.00	<b>3150.00</b>	INR Three Thousand One Hundred & Fifty Only
704	<b>Item No.13:</b> Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	29.57	Cum	4444.65	<b>131428.30</b>	INR One Lakh Thirty One Thousand Four Hundred & Twenty Eight and Paise Thirty Only

705	<p><b>Item No.14:</b> Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.</p>	1.00	Job	2050650.00	<b>2050650.00</b>	INR Twenty Lakh Fifty Thousand Six Hundred & Fifty Only
706	<p>Item No.15: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. Upto 1.50 m depth.</p>	2.00	No.	18163.95	<b>36327.90</b>	INR Thirty Six Thousand Three Hundred & Twenty Seven and Paise Ninety Only
707	<p>Upto 2 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5% for M.C..=Rs.2991.45</p>	5.00	No.	21155.40	<b>105777.00</b>	INR One Lakh Five Thousand Seven Hundred & Seventy Seven Only

708	Item No.16: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 2.5 m depth.	8.00	No.	29411.55	<b>235292.40</b>	INR Two Lakh Thirty Five Thousand Two Hundred & Ninety Two and Paise Forty Only
709	Upto 3.0 m depth.	3.00	No.	35596.05	<b>106788.15</b>	INR One Lakh Six Thousand Seven Hundred & Eighty Eight and Paise Fifteen Only
710	Upto 3.50 m depth.	15.00	No.	41780.55	<b>626708.25</b>	INR Six Lakh Twenty Six Thousand Seven Hundred & Eight and Paise Twenty Five Only
711	Upto 4.0 m depth.	10.00	No.	47965.05	<b>479650.50</b>	INR Four Lakh Seventy Nine Thousand Six Hundred & Fifty and Paise Fifty Only
712	Upto 4.5 m depth.	1.00	No.	54149.55	<b>54149.55</b>	INR Fifty Four Thousand One Hundred & Forty Nine and Paise Fifty Five Only
713	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C.=Rs.6184.50	1.00	No.	60334.05	<b>60334.05</b>	INR Sixty Thousand Three Hundred & Thirty Four and Paise Five Only
714	<b>Item No.17:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	0.24	MT	54803.70	<b>13152.89</b>	INR Thirteen Thousand One Hundred & Fifty Two and Paise Eighty Nine Only

715	<b>Item No.18:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	4082.00	Cum	67.20	<b>274310.40</b>	INR Two Lakh Seventy Four Thousand Three Hundred & Ten and Paise Forty Only
716	<b>Item No.19:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.	666.00	Cum	195.62	<b>130282.92</b>	INR One Lakh Thirty Thousand Two Hundred & Eighty Two and Paise Ninety Two Only
717	<b>Item No.20:</b> WBM Road restoration:Reinstating the road surface with supplying & spreading 60mm metal of 20 cm thick with Hard murum & 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering & compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.	1101.75	Sqm	208.74	<b>229979.30</b>	INR Two Lakh Twenty Nine Thousand Nine Hundred & Seventy Nine and Paise Thirty Only
718	<b>Item No.21:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.	881.00	Sqm	873.47	<b>769527.07</b>	INR Seven Lakh Sixty Nine Thousand Five Hundred & Twenty Seven and Paise Seven Only

719	<p><b>Item No.22: Concrete Road restoration</b> :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p><b>Item No. 22A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	22.00	Cum	496.10	<b>10914.20</b>	INR Ten Thousand Nine Hundred & Fourteen and Paise Twenty Only
720	<p><b>Item No. 22B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38</p>	22.00	Cum	5918.00	<b>130196.00</b>	INR One Lakh Thirty Thousand One Hundred & Ninety Six Only
721	<p><b>Item No. 22C:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge</p>	11.00	Cum	6998.20	<b>76980.20</b>	INR Seventy Six Thousand Nine Hundred & Eighty and Paise Twenty Only



722	<p>Item No. 23: Shifting of Utilities: All utilities like Electric Poles, waterline &amp; Communication line Shifting while Manhole and Line Laying work etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p>Utility Shifting</p> <p>Item No. 23A: Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge.</p> <p>Water Supply Connections - 15 mm dia</p>	30.00	Rmt	175.35	<b>5260.50</b>	INR Five Thousand Two Hundred & Sixty and Paise Fifty Only
723	Water Supply Connections - 20 mm dia	10.00	Rmt	205.80	<b>2058.00</b>	INR Two Thousand & Fifty Eight Only
724	<p><b>Electrical Lines &amp; Poles</b></p> <p><b>Electrical Poles - RA for 10 km</b></p> <p><b>Item No. 23B:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in 1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing &amp; finishing in above manner ( for 9 mtr pole)</p>	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only
725	<p><b>Item No. 23D:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level</p>	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
726	<p><b>Item No. 23E:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.</p>	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
727	<p><b>Item No. 23F:</b> Earthling : Providing erecting pipe type earthing of 40 mm GI pipe dia with double earthing to the all equipments as per Detailed specifications.</p>	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only

728	Item No. 23G: Electrical Cable - Providing and Jointing Communication Cable - Jelly Filled telephone lines and optical Fibre Cable Supply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TW	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
729	<b>Item No. 23H:</b> Supply & erecting of FR grade PVC armoured multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only
730	<b>Item No. 23I:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only
731	<b>Sub Work No.4 E: SEWERAGE SYSTEM FOR ZONE VI</b> Item No.1: Providing ISI Standard RCC pipes in standard length of following class and diameter, suitable for either collar joints or rubber ring joints, including all taxes ( central and local) inspection charges, transport to departmental store / site unloading and stacking etc.complete. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Notes :- One rubber ring should be supplied with each full length of socketed pipe, cost included in the rates below. RCC NP 3 Class 350 mm dia.	628.00	Rmt	1260.00	<b>791280.00</b>	INR Seven Lakh Ninety One Thousand Two Hundred & Eighty Only
732	400 mm dia.	754.00	Rmt	1344.00	<b>1013376.00</b>	INR Ten Lakh Thirteen Thousand Three Hundred & Seventy Six Only
733	450 mm dia.	728.00	Rmt	1449.00	<b>1054872.00</b>	INR Ten Lakh Fifty Four Thousand Eight Hundred & Seventy Two Only

734	500 mm dia.	2268.00	Rmt	1785.00	<b>4048380.00</b>	INR Forty Lakh Forty Eight Thousand Three Hundred & Eighty Only
735	RCC NP 4 Class 350 mm dia.	289.00	Rmt	617.00	<b>178313.00</b>	INR One Lakh Seventy Eight Thousand Three Hundred & Thirteen Only
736	450 mm dia.	126.00	Rmt	1344.00	<b>169344.00</b>	INR One Lakh Sixty Nine Thousand Three Hundred & Forty Four Only
737	600 mm dia.	729.00	Rmt	2520.00	<b>1837080.00</b>	INR Eighteen Lakh Thirty Seven Thousand & Eighty Only
738	<b>Item No.2:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	1963.95	Cum	155.10	<b>304608.65</b>	INR Three Lakh Four Thousand Six Hundred & Eight and Paise Sixty Five Only
739	<b>Item No.3:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	2945.92	Cum	198.00	<b>583292.16</b>	INR Five Lakh Eighty Three Thousand Two Hundred & Ninety Two and Paise Sixteen Only
740	<b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, asphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	5891.85	Cum	487.30	<b>2871098.51</b>	INR Twenty Eight Lakh Seventy One Thousand & Ninety Eight and Paise Fifty One Only
741	Lift 1.5 -3.0 M.	2458.55	Cum	509.30	<b>1252139.52</b>	INR Twelve Lakh Fifty Two Thousand One Hundred & Thirty Nine and Paise Fifty Two Only

742	Item No.5: Excavation for pipe trenches in hard rock and concrete road, by chiselling, wedging, lime drilling by mechanical means or by all means other than blasting, including trimming and levelling the bed, removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0-1.50 M.	420.85	Cum	826.10	<b>347664.19</b>	INR Three Lakh Forty Seven Thousand Six Hundred & Sixty Four and Paise Nineteen Only
743	Lift 1.5 -3.0 M.	4245.98	Cum	848.10	<b>3601015.64</b>	INR Thirty Six Lakh One Thousand & Fifteen and Paise Sixty Four Only
744	Lift 3.0 -4.5 M.	3278.84	Cum	870.10	<b>2852918.68</b>	INR Twenty Eight Lakh Fifty Two Thousand Nine Hundred & Eighteen and Paise Sixty Eight Only
745	Lift 4.5-6.0 M.	1424.18	Cum	892.10	<b>1270510.98</b>	INR Twelve Lakh Seventy Thousand Five Hundred & Ten and Paise Ninety Eight Only
746	Lift 6.0-7.5 M.	879.11	Cum	914.10	<b>803594.45</b>	INR Eight Lakh Three Thousand Five Hundred & Ninety Four and Paise Forty Five Only
747	<b>Item No.6:</b> Providing dry trap/ granite/quartzite/ gneiss, rubble stone soling in 15 cm to 20 cm thick layers including hand packing and compacting etc.complete.	349.92	Cum	957.60	<b>335083.39</b>	INR Three Lakh Thirty Five Thousand & Eighty Three and Paise Thirty Nine Only
748	<b>Item No.7:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	946.91	Cum	67.20	<b>63632.35</b>	INR Sixty Three Thousand Six Hundred & Thirty Two and Paise Thirty Five Only
749	Item No.8: Lowering laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in CM 1:1 proportion or socketed R.C.C. pipes with rubber joints ( excluding cost of rubber ring or R.C.C. collar ), including cost of conveyance from stores to site of works, cost of jointing material, labour, giving hydraulic testing, etc.complete as directed by Engineer-in-charge Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment 350 mm dia.	917.00	Rmt	123.90	<b>113616.30</b>	INR One Lakh Thirteen Thousand Six Hundred & Sixteen and Paise Thirty Only

750	400 mm dia.	754.00	Rmt	158.55	<b>119546.70</b>	INR One Lakh Nineteen Thousand Five Hundred & Forty Six and Paise Seventy Only
751	450 mm dia.	854.00	Rmt	189.00	<b>161406.00</b>	INR One Lakh Sixty One Thousand Four Hundred & Six Only
752	500 mm dia.	2268.00	Rmt	206.85	<b>469135.80</b>	INR Four Lakh Sixty Nine Thousand One Hundred & Thirty Five and Paise Eighty Only
753	600 mm dia.	729.00	Rmt	260.40	<b>189831.60</b>	INR One Lakh Eighty Nine Thousand Eight Hundred & Thirty One and Paise Sixty Only
754	Item No.9: Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position. New item to be added 350 mm dia.	0.92	Km	13650.00	<b>12558.00</b>	INR Twelve Thousand Five Hundred & Fifty Eight Only
755	400 mm dia.	0.75	Km	17850.00	<b>13387.50</b>	INR Thirteen Thousand Three Hundred & Eighty Seven and Paise Fifty Only
756	450 mm dia.	0.85	Km	21000.00	<b>17850.00</b>	INR Seventeen Thousand Eight Hundred & Fifty Only
757	500 mm dia.	2.27	Km	23100.00	<b>52437.00</b>	INR Fifty Two Thousand Four Hundred & Thirty Seven Only
758	600 mm dia.	0.73	Km	29400.00	<b>21462.00</b>	INR Twenty One Thousand Four Hundred & Sixty Two Only

759	Item No.10: Open timbering in trenches of depth more than 1.5 m for shoring and strutting including use of and waste of all necessary timber works including walling, struts, open polling boards/ horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face/area timbered) Non Water Logged Area, Lift 1.50 to 3.00 m.	328.50	Sqm	252.00	<b>82782.00</b>	INR Eighty Two Thousand Seven Hundred & Eighty Two Only
760	Water Logged Area, Lift 1.50 to 3.00 m.	328.50	Sqm	250.95	<b>82437.08</b>	INR Eighty Two Thousand Four Hundred & Thirty Seven and Paise Eight Only
761	Item No.11: Providing and laying in situ cement concrete 1:2:4 of trap/ granite / quartzite/ gneiss metal for foundation and bedding including bailing out water manually, formwork, compacting and curring etc. complete.	169.96	Cum	4444.65	<b>755412.71</b>	INR Seven Lakh Fifty Five Thousand Four Hundred & Twelve and Paise Seventy One Only
762	Item No.12: Dewatering the excavated trenches and pools of water in the pipeline trenches, well works by using pumps and other divices including disposing off water to safe distance as directed by Engineer-in- charge (including cost of machionary, labour,fuel ) etc.complete.Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.	1.00	Job	2460780.00	<b>2460780.00</b>	INR Twenty Four Lakh Sixty Thousand Seven Hundred & Eighty Only

763	Item No.13: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.2 M. dia. at bottom and 0.5 M. from top and up to depth of 2 m. with 23 cm thick brick work up to depth of 2 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. Upto 1.50 m depth.	95.00	No.	18163.95	<b>1725575.25</b>	INR Seventeen Lakh Twenty Five Thousand Five Hundred & Seventy Five and Paise Twenty Five Only
764	Upto 2 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.2849/-Add 5% for M.C.=Rs.2991.45	67.00	No.	21155.40	<b>1417411.80</b>	INR Fourteen Lakh Seventeen Thousand Four Hundred & Eleven and Paise Eighty Only
765	Item No.14: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and up to depth of 5 m. with 23 cm thick brick work up to depth of 2 M from top and 35 cm thick brick work for remaining depth up to 5 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in- charge. Upto 2.5 m depth.	5.00	No.	29411.55	<b>147057.75</b>	INR One Lakh Forty Seven Thousand & Fifty Seven and Paise Seventy Five Only
766	Upto 3.0 m depth.	6.00	No.	35596.05	<b>213576.30</b>	INR Two Lakh Thirteen Thousand Five Hundred & Seventy Six and Paise Thirty Only

767	Upto 3.50 m depth.	1.00	No.	41780.55	<b>41780.55</b>	INR Forty One Thousand Seven Hundred & Eighty and Paise Fifty Five Only
768	Upto 4.0 m depth.	3.00	No.	47965.05	<b>143895.15</b>	INR One Lakh Forty Three Thousand Eight Hundred & Ninety Five and Paise Fifteen Only
769	Upto 4.5 m depth.	3.00	No.	54149.55	<b>162448.65</b>	INR One Lakh Sixty Two Thousand Four Hundred & Forty Eight and Paise Sixty Five Only
770	Upto 5.0 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs.5890/-Add 5% for M.C..=Rs.6184.50	1.00	No.	60334.05	<b>60334.05</b>	INR Sixty Thousand Three Hundred & Thirty Four and Paise Five Only
771	Item No.15: Providing and constructing on sewer, B.B. masonry circular manhole with concentric cone 1.5 M. dia. at bottom and 0.5 M. from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth up to 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 Kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc.complete as directed by Engineer-in-charge. 5.50 m depth.	1.00	No.	75414.15	<b>75414.15</b>	INR Seventy Five Thousand Four Hundred & Fourteen and Paise Fifteen Only
772	6.0 m depth.	3.00	No.	83194.65	<b>249583.95</b>	INR Two Lakh Forty Nine Thousand Five Hundred & Eighty Three and Paise Ninety Five Only
773	6.5 m depth. a) Rebate for every decrease in depth of 50 cm or part there of Rs7410/-Add 5% for M.C .=Rs.7780.50	2.00	No.	90975.15	<b>181950.30</b>	INR One Lakh Eighty One Thousand Nine Hundred & Fifty and Paise Thirty Only



774	<b>Item No.16:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire). Tor Steel	1.33	MT	54803.70	<b>72888.92</b>	INR Seventy Two Thousand Eight Hundred & Eighty Eight and Paise Ninety Two Only
775	<b>Item No.17:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.	16132.00	Cum	67.20	<b>1084070.40</b>	INR Ten Lakh Eighty Four Thousand & Seventy and Paise Forty Only
776	<b>Item No.18:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering-in-charge.	6429.00	Cum	195.62	<b>1257640.98</b>	INR Twelve Lakh Fifty Seven Thousand Six Hundred & Forty and Paise Ninety Eight Only
777	<b>Item No.19:</b> WBM Road restoration:Reinstating the road surface with supplying & spreading 60mm metal of 20 cm thick with Hard murum & 40mm metal of 15 cm thick with Soft murum as a blindage, above WBM surfaceFor all the above layers watering & compacting with Power roller, including Excavation of required depth for road reinstating or as directed by Engineer-in-charge etc. complete.	5042.25	Sqm	208.74	<b>1052519.27</b>	INR Ten Lakh Fifty Two Thousand Five Hundred & Nineteen and Paise Twenty Seven Only

778	<p><b>Item No.20:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murum of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p>	2689.00	Sqm	873.47	<b>2348760.83</b>	INR Twenty Three Lakh Forty Eight Thousand Seven Hundred & Sixty and Paise Eighty Three Only
779	<p><b>Item No.21: Concrete Road restoration</b> :Reinstatement of Concrete road by excavating the concrete panels in rectangular shape and filling the trench with one layer of natural sand of 300 mm thick , one layer of M20 grade PCC of 150 mm thick and one layer of PCC M30 grade of 300 mm thick including dewatering etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.</p> <p><b>Item No. 22A:</b> Providing and filling in the foundation with sand of ap-proved quality including watering, compaction complete. Spec. No.: Bd.A.13 Page No. 264</p>	67.20	Cum	496.10	<b>33337.92</b>	INR Thirty Three Thousand Three Hundred & Thirty Seven and Paise Ninety Two Only

780	<b>Item No. 22B:</b> Providing and casting in situ cement concrete M- 15 of trap / granite / quartzite / gneiss metal for steps including centering, formwork, compacting, roughening them if special finish is to be provided and curing and finishing if required complete,with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer ... With natural sand. Spec. No.: Bd.E.2 Page No. 288 and B.7 Page No 38	67.20	Cum	5918.00	<b>397689.60</b>	INR Three Lakh Ninety Seven Thousand Six Hundred & Eighty Nine and Paise Sixty Only
781	<b>Item No. 22C:</b> Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with Natural sand etc. complete Spec : As directed by Engineer incharge	33.60	Cum	6998.20	<b>235139.52</b>	INR Two Lakh Thirty Five Thousand One Hundred & Thirty Nine and Paise Fifty Two Only
782	Item No. 23: Shifting of Utilities: All utilities like Electric Poles, waterline & Communication line Shifting while Manhole and Line Laying work etc., complete as per specifications and or as directed by engineer- in-charge. Utility Shifting Item No.24: Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge. Water Supply Connections - 15 mm dia	30.00	Rmt	175.35	<b>5260.50</b>	INR Five Thousand Two Hundred & Sixty and Paise Fifty Only
783	Water Supply Connections - 20 mm dia	4.00	Rmt	205.80	<b>823.20</b>	INR Eight Hundred & Twenty Three and Paise Twenty Only

784	<b>Electrical Lines &amp; Poles</b> <b>Electrical Poles - RA for 10 km</b> <b>Item No.24A:</b> Pole Foundation : Providing cement concrete foundation including excavation for the pole 60 cms x 60 cms x 1.5 mtr deep in1:3:6 cement concrete (20x 25 mm stone metal) and 45 cm x 45cm x45 cm / 45 cm x 45 cm height plinth duly plaster and with necessary curing & finishing in above manner ( for 9 mtr pole)	1.00	Nos	2771.00	<b>2771.00</b>	INR Two Thousand Seven Hundred & Seventy One Only
785	<b>Item No.24B:</b> Dismantling of existing poles above 6 mtr height with brackets. Clamps, insulators stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to ground level	1.00	Nos	701.00	<b>701.00</b>	INR Seven Hundred & One Only
786	<b>Item No.24C:</b> Re-Erecting: Supplying and erecting steel tubular swaged pole 165.1 X 139.7 X 114.3 mm dia with 4.5 X 4.5 X3.65 mm thick (5+2+2m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 147 kg) as per specifications.	1.00	Nos	12722.00	<b>12722.00</b>	INR Twelve Thousand Seven Hundred & Twenty Two Only
787	<b>Item No.24D:</b> Earthing : Providing erecting pipe type earthing of 40 mm GI pipe dia with double earthing to the all equipments as per Detailed specifications.	1.00	Nos	1585.00	<b>1585.00</b>	INR One Thousand Five Hundred & Eighty Five Only
788	<b>Electrical Cable - Providing and Jointing</b> <b>Item No.24E: Communication Cable - Jelly Filled telephone lines and optical Fibre Cable</b> <b>Item No.24F:</b> Supply & Erecting of Jelly filled armoured telephone cable 10 pair with 0.5 mm dia laid in provided trench as per specification no. WG-TW	3.00	Rmt	83.00	<b>249.00</b>	INR Two Hundred & Forty Nine Only
789	<b>Item No.24G:</b> Supply & erecting of FR grade PVC armourd multi mode Optical Fibre Cable with 6 fibres with core dia 50 µM, suitable for 1 GBps Ethernet distance at 850 nm of wavelength on wall/ ceiling or laid in provided pipe / trench as per specification no. WG- COC/ OFC	3.00	Rmt	247.00	<b>741.00</b>	INR Seven Hundred & Forty One Only

790	<b>Item No.24H:</b> Supply & fixing of wall /rack type 12 port light guide interconnection unit for termination of optical fibre cable on wall /provided U rack complete as per specification no. EG- NAS / LIU	1.00	Nos	4366.00	<b>4366.00</b>	INR Four Thousand Three Hundred & Sixty Six Only
791	<p><b>Sub Work No. 5 : PROPERTY CONNECTION FOR ZONE I,II,III,IV,VI</b></p> <p><b>Item No.1:</b> Providing and supplying in standard lengths Polyethelene (PE) Pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with anti rodent property conforming to ISO-21138-3:2007 with necessary jointing material like mechanical connectors, i.e. thread/ insert joint/quick release coupler joint/ compression fitting joint or flanged joint, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, conveyance to the departmental stores/site and stacking the same in closed shade duly protecting from sunrays and rains, etc. complete.</p> <p>H.D.P.E. DWC pipes for Drainage Class SN 8</p> <p>Note:- (1) Against Supply of Pipes - 60% Payment  (2) Against lowering and Laying - 25% Payment  (3) After Satisfactory Hydraulic testing - 15% Payment</p> <p>150 mm dia.(ID)</p>	8607.00	Rmt	378.00	<b>3253446.00</b>	INR Thirty Two Lakh Fifty Three Thousand Four Hundred & Forty Six Only

792	<b>Item No.2:</b> Providing , laying & fixing ,jointing Supreme Eco- drain 110 mm SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment Spec : As directed by Engineer In Charge HDPE Pipes - Class SN8 110 mm dia.(OD) (PWD CSR 2017-18, P. 176, I. 88/20)	34428.00	Rmt	318.00	<b>10948104.00</b>	INR One Crore Nine Lakh Forty Eight Thousand One Hundred & Four Only
793	<b>Item No.3:</b> Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion precast S.F.R.C.frame and cover, etc. complete as directed by Engineer-in-charge. Inspection Chamber {900 x 600x 1200}	1434.50	No.	11608.80	<b>16652823.60</b>	INR One Crore Sixty Six Lakh Fifty Two Thousand Eight Hundred & Twenty Three and Paise Sixty Only
794	<b>Item No.4:</b> Excavation for pipe trenches in soft rock and old cement and lime masonry foundation, ashphalt road includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	5881.45	Cum	487.30	<b>2866030.59</b>	INR Twenty Eight Lakh Sixty Six Thousand &Thirty and Paise Fifty Nine Only
795	<b>Item No.5:</b> Excavation for foundation / pipe trenches in earth, soils of all types , sand, gravel, and soft murum includng removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0.0 -1.5 M.	5881.45	Cum	155.10	<b>912212.90</b>	INR Nine Lakh Twelve Thousand Two Hundred & Twelve and Paise Ninety Only

796	<b>Item No.6:</b> Excavation for foundation / pipe trenches in hard murum & boulders , WBM road including removing the excavated material up to a distance of 50 m. and lift as below, stacking and spreading as directed by the Engineer-in- charge, normal dewatering, preparing the bed for foundation and excluding back filling. etc.complete. Lift 0 -1.5 M.	5881.45	Cum	198.00	<b>1164527.10</b>	INR Eleven Lakh Sixty Four Thousand Five Hundred & Twenty Seven and Paise Ten Only
797	<b>Item No.7:</b> Providing murum bedding in trenches with approved murum from excavated materials from foundation in 15 cm. to 20 cm. layers including watering & compaction complete.	1032.84	Cum	67.20	<b>69406.85</b>	INR Sixty Nine Thousand Four Hundred & Six and Paise Eighty Five Only
798	<b>Item No.8:</b> Lowering, laying and jointing H.D.P.E.Double Wall Corrugated Pipes for nonpressure Underground drainage and Sewerage applications and specials offollowing class and diameter includingcost of conveyance from stores to site of works including cost of all labour,material except O ring coupler giving satisfactory hydraulic testing as per relevent ISO, etc. complete Note:- (1) Against lowering and Laying - 85% Payment (2) After Satisfactory Hydraulic testing - 15% Payment H.D.P.E. DWC pipes for Drainage CLASS SN 8 150 mm dia.(ID)	8607.00	Rmt	33.60	<b>289195.20</b>	INR Two Lakh Eighty Nine Thousand One Hundred & Ninety Five and Paise Twenty Only

799	<p><b>Item No.9:</b> Hydraulic testing of HDPE double wall corrugated pipe for non pressure underground line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position.</p> <p>H.D.P.E. DWC pipes for Drainage CLASS SN 8</p>	8.61	KM	3150.00	<b>27121.50</b>	INR Twenty Seven Thousand One Hundred & Twenty One and Paise Fifty Only
800	<p><b>Item No.10:</b> Refilling the trenches with available excavated stuff with soft material first over pipe line and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc.complete.</p>	14550.86	Cum	67.20	<b>977817.79</b>	INR Nine Lakh Seventy Seven Thousand Eight Hundred & Seventeen and Paise Seventy Nine Only
801	<p><b>Item No.11:</b> Disposing of surplus excavated stuff from site of work up to a distance of 2 Km.including, loading, unloading, transportation etc.complete or as directed by the Engineering- in-charge.</p>	1184.94	Cum	195.62	<b>231797.96</b>	INR Two Lakh Thirty One Thousand Seven Hundred & Ninety Seven and Paise Ninety Six Only



802	<b>Item No.12:</b> Asphalt Road restoration: Reinstatement of road by excavating the potholes in rectangular shape and filling of potholes by one layers of one layer of 80 mm trap metal of 200 mm thick, one layer of 40 mm trap metal of 100 mm thick including supplying and spreading of stone dust/murram of 100 mm thick, watering compaction and 75 mm thick bituminous bound macadam with cold emulsion 60/70 grade and bituminous macadam of 50 mm thick with bitumen of S-65 grade and 20 mm thick asphalt concrete with S-35 grade of bitumen including compaction by vibratory roller of all layers and providing and applying tack coat of 50 Kg / 100 m2 on black top surface and seal coat of 1kg/sqm. B.B.M. surface and disposal of surplus soil etc., complete. for pipeline trenches of various diameter etc., complete as per specifications and or as directed by engineer- in-charge.	6455.25	Sqm	873.47	<b>5638467.22</b>	INR Fifty Six Lakh Thirty Eight Thousand Four Hundred & Sixty Seven and Paise Twenty Two Only
803	<b>Item No.12:</b> Reconnection of existing damaged connection including 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete including all labour, etc. complete. as directed by Engineer in charge.	1434.50	No.	175.35	<b>251539.58</b>	INR Two Lakh Fifty One Thousand Five Hundred & Thirty Nine and Paise Fifty Eight Only
804	<b>Sub Work No. 6A-I : NALLA INTERCEPTION - KT WEIR (FOR 350MM DIA. PIPE) -2 Nos</b> <b>Item No.1 :</b> Labour charges for removing grass thorney shrubs, Jungli shrub Kubabul and alike grass along roadside making the ground clean by showel and phavaras etc. complete. Spec : As directed by Engineer In Charge	176.00	Sqm.	10.50	<b>1848.00</b>	INR One Thousand Eight Hundred & Forty Eight Only

805	<b>Item No.2:</b> Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry condition for Head Works and allied works by well sinking process for average depth of 12 M and lead of 150 M including shoring, barricading, guarding, refilling, disposing off surplus excavated stuff as directed by Engineer-in-charge, etc. complete. For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr	222.00	Cum.	227.85	<b>50582.70</b>	INR Fifty Thousand Five Hundred & Eighty Two and Paise Seventy Only
806	<b>Item No.3:</b> Excavation in general in hard material comprising of soft rock, hard rock, Manjara rock, etc. by blasting / controlled blasting, chiselling as required in wet or dry condition for Head Works i.e. Intake Well, Connecting Pipe, Jack Well, Pump House, Supply Well, etc. for lift 0 to 1.5 M and lead of 150 M including barricading, guarding, disposing off surplus excavated stuff within a radius of 0.5 km. as directed by Engineer-in-charge, excluding refilling. For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr	185.00	cum	599.55	<b>110916.75</b>	INR One Lakh Ten Thousand Nine Hundred & Sixteen and Paise Seventy Five Only
807	<b>Item No.4:</b> Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.	93.60	cum	957.60	<b>89631.36</b>	INR Eighty Nine Thousand Six Hundred & Thirty One and Paise Thirty Six Only
808	<b>Item No.5:</b> Providing and laying in situ Cement Concrete M-15 of trap/ granite / quartzite / gneiss metal for foundation and bedding including bailing out water, form work, compaction, curing, etc. complete.	23.40	cum	4444.65	<b>104004.81</b>	INR One Lakh Four Thousand & Four and Paise Eighty One Only

809	<b>Item No.6:</b> Providing and laying in situ Cement Concrete of trap/ granite / quartzite / gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, form work, compaction, finishing and curing, etc. complete. (By weigh batching and mix design for M- 250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement) For RCC M-300 grade For raft	78.00	cum	6325.20	<b>493365.60</b>	INR Four Lakh Ninety Three Thousand Three Hundred & Sixty Five and Paise Sixty Only
810	<b>Item No.7:</b> Providing and casting in situ C.C. of trap / granite/ quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M- 250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement) For	124.52	cum	8620.50	<b>1073424.66</b>	INR Ten Lakh Seventy Three Thousand Four Hundred & Twenty Four and Paise Sixty Six Only
811	RCC M-300 grade - For walls	11.22	MT	54803.70	<b>614897.51</b>	INR Six Lakh Fourteen Thousand Eight Hundred & Ninety Seven and Paise Fifty One Only

812	<p>Item No.8: Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes, caps, footings, foundation, slabs, beams, columns, canopies, staircases. newels, chajjas, lintels, pardies, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire) Corrosion resistant steel Fe500</p> <p>Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-incharge (including cost of machinery, labour, fuel), etc. complete. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.</p> <p>(i) The Contractor at his request may be allowed to start construction of masonry steining so as not to allow silting of well in oncoming monsoon and while paying masonry, 25% amount shall be withheld and released only when excavation to the full depth is completed.</p> <p>(ii) Dewatering : Note: Payment will be released</p>	1.00	Job	146475.00	<b>146475.00</b>	INR One Lakh Forty Six Thousand Four Hundred & Seventy Five Only
813	<p><b>Item No.9:</b> Providing, constructing coffer dam in river basin / dam storages as per type design including excavation, filling the middle portion with B. C. soil (in gunny bags if required). Providing impervious / semipervious materials on both side of B.C. soil (in gunny bags if required) including ramming, compacting to the satisfaction of Engineer-in-charge, till the completion of work including dismantling coffer dam after completion of works and disposing off the material as directed by the Engineer-in-charge.</p>	30.00	Cum.	523.95	<b>15718.50</b>	INR Fifteen Thousand Seven Hundred & Eighteen and Paise Fifty Only

814	Sub Work No. 6A-II : NALLA INTERCEPTION - SCREEN CHAMBER (FOR 350MM DIA. PIPE) - 2 Nos Item No.1: Excavation for foundation / pipe trenches in earth, soils of all types,sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below,stacking and spreading as directed,normal dewatering, preparing the bed for foundation and excluding backfilling,etc. complete. 1) For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtrLift 0.00 to 1.50 m	58.50	cum	227.85	<b>13329.23</b>	INR Thirteen Thousand Three Hundred & Twenty Nine and Paise Twenty Three Only
815	Lift 1.50 m to 3.0m	2.00	cum	249.90	<b>499.80</b>	INR Four Hundred & Ninety Nine and Paise Eighty Only
816	<b>Item No.2:</b> Providing and laying in situ, following grades of C.C. of trap /granite /quartzite / gneiss metal for foundation and bedding including dewatering,formwork, compacting and curing,finishing, etc. complete. PCC M150	1.80	cum	4444.65	<b>8000.37</b>	INR Eight Thousand and Paise Thirty Seven Only
817	Item No.3: Providing and casting in situ C. C. of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, plywood formwork,bully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish isto be provided and curing, etc. complete. (excluding M.S, or Tor reinforcement) a)For RCC M-300 grade For raft	1.80	cum	6325.20	<b>11385.36</b>	INR Eleven Thousand Three Hundred & Eighty Five and Paise Thirty Six Only
818	b) M-300 grade Vertical wall RCC slant Slab	6.20	cum	8620.50	<b>53447.10</b>	INR Fifty Three Thousand Four Hundred & Forty Seven and Paise Ten Only

819	<b>Item No.4:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, slabs,beams, columns, canopies, staircases.newels, chajjas, lintels, pardies, copings,fins, arches, etc. as per detailed designs,drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete.	0.72	MT	54803.70	<b>39458.66</b>	INR Thirty Nine Thousand Four Hundred & Fifty Eight and Paise Sixty Six Only
820	<b>Item No.5:</b> Providing and fixing mild steel grill work, of 20kg/sqm, for C.I. /M.S. screen as per drawing including necessary weilding and painting with epoxy paint including all labour material and as directed by engineer in charge etc complete.	13.60	sqm	1596.00	<b>21705.60</b>	INR Twenty One Thousand Seven Hundred & Five and Paise Sixty Only
821	<b>Item No.6:</b> Providing Lowering Laying &Jointing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either rubber ring joints, including all taxes (Central and local), inspection charges, transport to departmental stores / site, unloading and stacking, etc. complete. (IS-458/1988) including transportation from store to site of work including all labour &materials One collar should be supplied with each full length plain ended RCC pipe, cost included in rates below. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment 350 mm Dia RCC NP111	100.00	Rmt	1265.90	<b>126590.00</b>	INR One Lakh Twenty Six Thousand Five Hundred & Ninety Only
822	<b>Sub Work No. 6B-I : NALLA INTERCEPTION - KT WEIR (FOR 600MM DIA. PIPE)</b> <b>Item No.1 :</b> Labour charges for removing grass thorney shurbs, Jungli shurb Kubabul and alike grass along roadside making the ground clean by showel and phavaras etc. complete. Spec : As directed by Engineer In Charge	282.00	Sqm.	10.50	<b>2961.00</b>	INR Two Thousand Nine Hundred & Sixty One Only

823	<b>Item No.2:</b> Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry condition for Head Works and allied works by well sinking process for average depth of 12 M and lead of 150 M including shoring, barricading, guarding, refilling, disposing off surplus excavated stuff as directed by Engineer-in-charge, etc. complete. For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr	360.00	Cum.	227.85	<b>82026.00</b>	INR Eighty Two Thousand &Twenty Six Only
824	<b>Item No.3:</b> Excavation in general in hard material comprising of soft rock, hard rock, Manjara rock, etc. by blasting / controlled blasting, chiselling as required in wet or dry condition for Head Works i.e. Intake Well, Connecting Pipe, Jack Well, Pump House, Supply Well, etc. for lift 0 to 1.5 M and lead of 150 M including barricading, guarding, disposing off surplus excavated stuff within a radius of 0.5 km. as directed by Engineer-in-charge, excluding refilling. For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr	264.00	cum	599.55	<b>158281.20</b>	INR One Lakh Fifty Eight Thousand Two Hundred & Eighty One and Paise Twenty Only
825	<b>Item No.4:</b> Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.	149.40	cum	957.60	<b>143065.44</b>	INR One Lakh Forty Three Thousand &Sixty Five and Paise Forty Four Only
826	<b>Item No.5:</b> Providing and laying in situ Cement Concrete M-15 of trap/ granite / quartzite / gneiss metal for foundation and bedding including bailing out water, form work, compaction, curing, etc. complete.	37.35	cum	4444.65	<b>166007.68</b>	INR One Lakh Sixty Six Thousand &Seven and Paise Sixty Eight Only

827	<p><b>Item No.6:</b> Providing and laying in situ Cement Concrete of trap/ granite / quartzite / gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, form work, compaction, finishing and curing, etc. complete. (By weigh batching and mix design for M- 250 and M-300 only. Use of L&amp;T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement) For RCC M-300 grade For raft</p>	145.50	cum	6325.20	<b>920316.60</b>	INR Nine Lakh Twenty Thousand Three Hundred & Sixteen and Paise Sixty Only
828	<p><b>Item No.7:</b> Providing and casting in situ C.C. of trap / granite/ quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M- 250 and M-300 only. Use of L&amp;T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement) For</p>	152.10	cum	8620.50	<b>1311178.05</b>	INR Thirteen Lakh Eleven Thousand One Hundred & Seventy Eight and Paise Five Only
829	RCC M-300 grade - For walls	13.68	MT	54803.70	<b>749714.62</b>	INR Seven Lakh Forty Nine Thousand Seven Hundred & Fourteen and Paise Sixty Two Only



830	<p>Item No.8: Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes, caps, footings, foundation, slabs, beams, columns, canopies, staircases. newels, chajjas, lintels, pardies, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire) Corrosion resistant steel Fe500</p> <p>Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-incharge (including cost of machinery, labour, fuel), etc. complete. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.</p> <p>(i) The Contractor at his request may be allowed to start construction of masonry steining so as not to allow silting of well in oncoming monsoon and while paying masonry, 25% amount shall be withheld and released only when excavation to the full depth is completed.</p> <p>(ii) Dewatering : Note: Payment will be released</p>	1.00	Job	219712.50	<b>219712.50</b>	<p>INR Two Lakh Nineteen Thousand Seven Hundred &amp; Twelve and Paise Fifty Only</p>
831	<p><b>Item No.9:</b> Providing, constructing coffer dam in river basin / dam storages as per type design including excavation, filling the middle portion with B. C. soil (in gunny bags if required). Providing impervious / semipervious materials on both side of B.C. soil (in gunny bags if required) including ramming, compacting to the satisfaction of Engineer-in-charge, till the completion of work including dismantling coffer dam after completion of works and disposing off the material as directed by the Engineer-in-charge.</p>	45.00	Cum.	523.95	<b>23577.75</b>	<p>INR Twenty Three Thousand Five Hundred &amp; Seventy Seven and Paise Seventy Five Only</p>

832	Sub Work No. 6B-II : NALLA INTERCEPTION - SCREEN CHAMBER (FOR 600MM DIA. PIPE) Item No.1: Excavation for foundation / pipe trenches in earth, soils of all types,sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below,stacking and spreading as directed,normal dewatering, preparing the bed for foundation and excluding backfilling,etc. complete 1) For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr Lift 0.00 to 1.50 m	249.75	cum	227.85	<b>56905.54</b>	INR Fifty Six Thousand Nine Hundred & Five and Paise Fifty Four Only
833	Lift 1.50 m to 3.0m	3.00	cum	249.90	<b>749.70</b>	INR Seven Hundred & Forty Nine and Paise Seventy Only
834	<b>Item No.2:</b> Providing and laying in situ, following grades of C.C. of trap /granite /quartzite / gneiss metal for foundation and bedding including dewatering,formwork, compacting and curing,finishing, etc. complete. PCC M150	2.70	cum	4444.65	<b>12000.56</b>	INR Twelve Thousand and Paise Fifty Six Only
835	Item No.3: Providing and casting in situ C. C. of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, 'plywood formwork,bully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish isto be provided and curing, etc. complete. (excluding M.S, or Tor reinforcement) a)For RCC M-300 grade For raft	2.70	cum	6325.20	<b>17078.04</b>	INR Seventeen Thousand & Seventy Eight and Paise Four Only
836	b) M-300 grade Vertical wall RCC slant Slab	9.30	cum	8620.50	<b>80170.65</b>	INR Eighty Thousand One Hundred & Seventy and Paise Sixty Five Only

837	<b>Item No.4:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, slabs,beams, columns, canopies, staircases.newels, chajjas, lintels, pardies, copings,fins, arches, etc. as per detailed designs,drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete.	1.08	MT	54803.70	<b>59188.00</b>	INR Fifty Nine Thousand One Hundred & Eighty Eight Only
838	<b>Item No.5:</b> Providing and fixing mild steel grill work, of 20kg/sqm, for C.I. /M.S. screen as per drawing including necessary weilding and painting with epoxy paint including all labour material and as directed by engineer in charge etc complete.	20.40	sqm	1596.00	<b>32558.40</b>	INR Thirty Two Thousand Five Hundred & Fifty Eight and Paise Forty Only
839	<b>Item No.6:</b> Providing Lowering Laying &Jointing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either rubber ring joints, including all taxes (Central and local), inspection charges, transport to departmental stores / site, unloading and stacking, etc. complete. (IS-458/1988) including transportation from store to site of work including all labour &materials One collar should be supplied with each full length plain ended RCC pipe, cost included in rates below. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment 350mm Dia RCC NP111	150.00	Rmt	1265.90	<b>189885.00</b>	INR One Lakh Eighty Nine Thousand Eight Hundred & Eighty Five Only
840	<b>Sub Work No. 6C-I : NALLA INTERCEPTION - KT WEIR (FOR 900MM DIA. PIPE)</b> <b>Item No.1 :</b> Labour charges for removing grass thorney shrubs, Jungli shrub Kubabul and alike grass along roadside making the ground clean by showel and phavaras etc. complete. Spec : As directed by Engineer In Charge	282.00	Sqm.	10.50	<b>2961.00</b>	INR Two Thousand Nine Hundred & Sixty One Only

841	<b>Item No.2:</b> Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry condition for Head Works and allied works by well sinking process for average depth of 12 M and lead of 150 M including shoring, barricading, guarding, refilling, disposing off surplus excavated stuff as directed by Engineer-in-charge, etc. complete. For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr	378.00	Cum.	227.85	<b>86127.30</b>	INR Eighty Six Thousand One Hundred & Twenty Seven and Paise Thirty Only
842	<b>Item No.3:</b> Excavation in general in hard material comprising of soft rock, hard rock, Manjara rock, etc. by blasting / controlled blasting, chiselling as required in wet or dry condition for Head Works i.e. Intake Well, Connecting Pipe, Jack Well, Pump House, Supply Well, etc. for lift 0 to 1.5 M and lead of 150 M including barricading, guarding, disposing off surplus excavated stuff within a radius of 0.5 km. as directed by Engineer-in-charge, excluding refilling. For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr	277.20	cum	599.55	<b>166195.26</b>	INR One Lakh Sixty Six Thousand One Hundred & Ninety Five and Paise Twenty Six Only
843	<b>Item No.4:</b> Providing dry trap / granite / quartzite / gneiss, rubble stone soling in 15cm to 20 cm thick layers (including hand packing and compacting), etc. complete.	163.80	cum	957.60	<b>156854.88</b>	INR One Lakh Fifty Six Thousand Eight Hundred & Fifty Four and Paise Eighty Eight Only
844	<b>Item No.5:</b> Providing and laying in situ Cement Concrete M-15 of trap/ granite / quartzite / gneiss metal for foundation and bedding including bailing out water, form work, compaction, curing, etc. complete.	40.95	cum	4444.65	<b>182008.42</b>	INR One Lakh Eighty Two Thousand & Eight and Paise Forty Two Only

845	<b>Item No.6:</b> Providing and laying in situ Cement Concrete of trap/ granite / quartzite / gneiss metal for RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, form work, compaction, finishing and curing, etc. complete. (By weigh batching and mix design for M- 250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement) For RCC M-300 grade For raft	163.50	cum	6325.20	<b>1034170.20</b>	INR Ten Lakh Thirty Four Thousand One Hundred & Seventy and Paise Twenty Only
846	<b>Item No.7:</b> Providing and casting in situ C.C. of trap / granite/ quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M- 250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement) For	170.10	cum	8620.50	<b>1466347.05</b>	INR Fourteen Lakh Sixty Six Thousand Three Hundred & Forty Seven and Paise Five Only
847	RCC M-300 grade - For walls	15.30	MT	54803.70	<b>838496.61</b>	INR Eight Lakh Thirty Eight Thousand Four Hundred & Ninety Six and Paise Sixty One Only

848	<p>Item No.8: Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes, caps, footings, foundation, slabs, beams, columns, canopies, staircases. newels, chajjas, lintels, pardies, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire) Corrosion resistant steel Fe500</p> <p>Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-incharge (including cost of machinery, labour, fuel), etc. complete. Note: Payment will be released according to proportionate progress of work as directed by engineer-in-charge.</p> <p>(i) The Contractor at his request may be allowed to start construction of masonry steining so as not to allow silting of well in oncoming monsoon and while paying masonry, 25% amount shall be withheld and released only when excavation to the full depth is completed.</p> <p>(ii) Dewatering : Note: Payment will be released</p>	1.00	Job	195300.00	<b>195300.00</b>	<p>INR One Lakh Ninety Five Thousand Three Hundred Only</p>
849	<p><b>Item No.9:</b> Providing, constructing coffer dam in river basin / dam storages as per type design including excavation, filling the middle portion with B. C. soil (in gunny bags if required). Providing impervious / semipervious materials on both side of B.C. soil (in gunny bags if required) including ramming, compacting to the satisfaction of Engineer-in-charge, till the completion of work including dismantling coffer dam after completion of works and disposing off the material as directed by the Engineer-in-charge.</p>	45.00	Cum.	523.95	<b>23577.75</b>	<p>INR Twenty Three Thousand Five Hundred &amp; Seventy Seven and Paise Seventy Five Only</p>

850	Sub Work No. 6C-II : NALLA INTERCEPTION - SCREEN CHAMBER (FOR 900MM DIA. PIPE) Item No.1: Excavation for foundation / pipe trenches in earth, soils of all types,sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below,stacking and spreading as directed,normal dewatering, preparing the bed for foundation and excluding backfilling,etc. complete. 1) For Head Works on nalla or any other site of GSDA for initial lift of 0 to 1.5 M Lift 0 To 1.50 mtr Lift 0.00 to 1.50 m	249.75	cum	227.85	<b>56905.54</b>	INR Fifty Six Thousand Nine Hundred & Five and Paise Fifty Four Only
851	Lift 1.50 m to 3.0m	3.00	cum	249.90	<b>749.70</b>	INR Seven Hundred & Forty Nine and Paise Seventy Only
852	<b>Item No.2:</b> Providing and laying in situ, following grades of C.C. of trap /granite /quartzite / gneiss metal for foundation and bedding including dewatering,formwork, compacting and curing,finishing, etc. complete. PCC M150	2.70	cum	4444.65	<b>12000.56</b>	INR Twelve Thousand and Paise Fifty Six Only
853	Item No.3: Providing and casting in situ C. C. of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, 'plywood formwork,bully/steel prop-ups, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish isto be provided and curing, etc. complete. (excluding M.S, or Tor reinforcement) a)For RCC M-300 grade For raft	2.70	cum	6325.20	<b>17078.04</b>	INR Seventeen Thousand & Seventy Eight and Paise Four Only
854	b) M-300 grade Vertical wall RCC slant Slab	9.30	cum	8620.50	<b>80170.65</b>	INR Eighty Thousand One Hundred & Seventy and Paise Sixty Five Only

855	<b>Item No.4:</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, caps, footings, foundations, slabs,beams, columns, canopies, staircases.newels, chajjas, lintels, pardies, copings,fins, arches, etc. as per detailed designs,drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete.	1.08	MT	54803.70	<b>59188.00</b>	INR Fifty Nine Thousand One Hundred & Eighty Eight Only
856	<b>Item No.5:</b> Providing and fixing mild steel grill work, of 20kg/sqm, for C.I. /M.S. screen as per drawing including necessary weilding and painting with epoxy paint including all labour material and as directed by engineer in charge etc complete.	20.40	sqm	1596.00	<b>32558.40</b>	INR Thirty Two Thousand Five Hundred & Fifty Eight and Paise Forty Only
857	<b>Item No.6:</b> Providing Lowering Laying &Jointing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either rubber ring joints, including all taxes (Central and local), inspection charges, transport to departmental stores / site, unloading and stacking, etc. complete. (IS-458/1988) including transportation from store to site of work including all labour &materials One collar should be supplied with each full length plain ended RCC pipe, cost included in rates below. Note:- (1) Against Supply of Pipes - 60% Payment (2) Against lowering and Laying - 25% Payment (3) After Satisfactory Hydraulic testing - 15% Payment 500mm Dia RCC NPIII	150.00	Rmt	1794.85	<b>269227.50</b>	INR Two Lakh Sixty Nine Thousand Two Hundred & Twenty Seven and Paise Fifty Only
<b>Total in Figures</b>					<b>1743845985.21</b>	INR One Hundred Seventy Four Crore Thirty Eight Lakh Forty Five Thousand Nine Hundred & Eighty Five and Paise Twenty One Only
<b>Quoted Rate in Figures</b>			<b>Select</b>		<b>0.00</b>	INR Zero Only
<b>Quoted Rate in Words</b>					<b>INR Zero Only</b>	