

# AURANGABAD MUNICIPAL CORPORATION



E-Tender Notice No. 2013 - 14

## TENDER DOCUMENT FOR

**Name of Work : - Development of Underground Sewerage Collection System for Zone I to VI & Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on Modern technology at Nakshatrawadi (Kanchanwadi), Banewadi, Siddarth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddarth Garden, Padegaon, Golwadi, Zalta, Ward No. 98 & CIDCO (Airport), Providing, Lowering, Laying, Jointing and Testing Rising Main GRP/DI pipe line from Golwadi SPS to Nakshatrawadi (Kanchanwadi), STP and ward no 98 to STP for Aurangabad City.**

*Under*

**Urban Infrastructure Development Scheme for Small and Medium Towns (UIDSSMT)**

## Volume – III

### **Commercial Bid (Bill of Quantities)**

**Aurangabad Municipal Corporation, Aurangabad**

Town Hall, Aurangabad - 431001 Maharashtra, India

Phone No.: +91-240-2331194

[www.aurangabadmahapalika.org](http://www.aurangabadmahapalika.org)

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**NAME OF WORK:** Development of Underground Sewerage Collection System for Zone I to VI & Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on Modern technology at Nakshatrawadi (Kanchanwadi), Banewadi, Siddarth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddarth Garden, Padegaon, Golwadi, Zalta, Ward No. 98 & CIDCO (Airport), Providing, Lowering, Laying, Jointing and Testing Rising Main GRP/DI pipe line from Golwadi SPS to Nakshatrawadi (Kanchanwadi), STP and ward no 98 to STP for Aurangabad City .

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**COMMERCIAL BID – SUMMARY SHEET OF BILL OF QUANTITIES**

**Name of Work:** Development of Underground Sewerage Collection System for Zone I to VI & Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on Modern technology at Nakshatrawadi (Kanchanwadi), Banewadi, Siddarth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddarth Garden, Padegaon, Golwadi, Zalta, Ward No. 98 & CIDCO (Airport), Providing, Lowering, Laying, Jointing and Testing Rising Main GRP/DI pipe line from Golwadi SPS to Nakshatrawadi (Kanchanwadi), STP and ward no 98 to STP for Aurangabad City .

A	PART A: LUMP SUM TURNKEY CONTRACT		
SR. NO.	DESCRIPTION	ESTIMATED COST (Rs.)	LUMP SUM AMOUNT QUOTED BY BIDDER (Rs.)
1	Designing, Constructing, Erecting and Commissioning of Sewage Treatment Plant based on modern technology including all necessary civil, electrical and mechanical, instrumentation items and all allied works , etc complete. at following places.		
a	Nakshatrawadi STP- 136.50 MLD.	60,11,68,026.38	
b	Banewadi STP- 30 MLD.	13,52,73,341.88	
c	Siddarth Garden STP - 4.5 MLD.	3,28,35,359.93	
d	Zalta STP - 20 MLD.	10,03,66,669.38	
e	Padegaon STP - 10 MLD.	6,44,41,869.63	
f	CIDCO STP- 15 MLD.	7,89,72,259.26	
	<b>TOTAL (PART A)</b>	<b>101,30,57,526.00</b>	
	; Bidders Shall quote individual rates for each STP with treatment technology specified for each STP.		
B	PART B: PERCENTAGE RATE CONTRACT		
SR NO	DESCRIPTION	ESTIMATED COST (Rs.)	
1.	Designing, Providing, Lowering, Laying, Testing and Commissioning and Improvement in Sewerage Network System of all zones of Aurangabad city, including condition assessment of Existing sewerage network.	<b>227,79,13,970.00</b>	
2.	Designing, Constructing, Erecting and Commissioning of seven numbers (6 Terminal + 1 Intermediate) Sewage pumping stations and pump house including all necessary civil, electrical and mechanical, instrumentation items and all allied works , etc complete.	<b>20,42,70,200.00</b>	

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3.	Designing, Providing, lowering, Laying, testing and commissioning of sewer pumping main from Golwadi Pumping Station to Nakshatrawadi STP and from Ward No. 98 pumping stations to Nakshatrawadi STP in Aurangabad city.	<b>5,13,76,063.00</b>
	<b>Total Part B (Rs)</b>	<b>253,35,60,233.00</b>
	<b>TOTAL PART A+ PART B (Rs.)</b>	<b>354,66,17,759.00</b>

(Rupees Three Fifty Four Crores Sixty-Six Lakhs Seventeen Thousand Seven Hundred Fifty Nine Only)

I/We have carefully studied the various items mentioned in the Volume III Commercial Bid herein above with the scope of work and detailed specification and all other terms and conditions of volume I, II of this tender, also inspected the work site. On the basis of that I/we hereby undertake to execute the work of UNDER GROUND SEWERAGE PROJECT OF AURANGABAD CITY UNDER UIDSSMT

Part A : ----- % (in words -----  
-----) above / below the estimated cost put to tender.

Part B : ----- % (in words -----  
-----) above / below the estimated cost put to tender.

Total Quoted Amount : In Figure \_\_\_\_\_  
(in words -----  
----).

Note :-1) All work shall be carried out as per Public Works Department Hand Book and Other specifications of the MJP/Corporation/CPHEEO or as directed.

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

Duly authorized to sign tenders for & on behalf of \_\_\_\_\_

Address:

Occupation:

Signature of Contractor

No. of Corrections

Executive Engineer

## FORM OF TENDER

**Name of the Contract:** Development of Underground Sewerage Collection System for Zone I to VI & Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on Modern technology at Nakshatrawadi(Kanchanwadi), Banewadi, Siddarth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddarth Garden, Padegaon, Golwadi, Zalta, Ward No. 98 & CIDCO (Airport), Providing, Lowering, Laying, Jointing and Testing Rising Main GRP/DI pipe line from Golwadi SPS to Nakshatrawadi (Kanchanwadi), STP and ward no 98 to STP for Aurangabad City .

1. Having examined the Conditions of Contract, Specifications, Drawings and allied Details for the execution of the above named works, we the undersigned, offer to design, execute and complete such Works and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings and allied Details for the sum of Rs. \_\_\_\_\_  
(In words Rs. \_\_\_\_\_)  
or such other sum as may be ascertained in accordance with said conditions.
2. We acknowledge that the Volume I, Volume II and Volume III form part of our tender.
3. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineers notice to commence and to complete the whole of the Works included in the Contract within the time stated in the tender.
4. We agree to abide by this Tender for the period of 180 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding contract between us.
6. We understand that you are not bound to accept the lowest or any tender you may receive.
7. Each bill of the contractor shall be counter signed by authorized signatory of technology provider in token of acceptance of the work done by contractor.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

Duly authorized to sign tenders for & on behalf of \_\_\_\_\_

Address:

Occupation:

Signature of Contractor

No. of Corrections

Executive Engineer

## SCHEDULE B – BILL OF QUANTITIES

### Schedule B for PART A – B-1 (Turnkey Work)

**Name of Work:** - Designing, Constructing, Erecting and Commissioning of Sewage Treatment Plant based on modern technology including all necessary civil, electrical and mechanical, instrumentation items and all allied works , etc complete. at following places.

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT	
				Figure	Words	Rs.	P
	<b>STP</b>						
1	<p><b>Item No. 1 :</b> - Designing (aesthetically), providing, constructing and giving satisfactory trials of modernised Sewage Treatment Plant consisting of receiving chamber, screen chamber, grit chamber, measuring flume, distribution chamber with primary and secondary treatment, etc.as detailed below, administration block of suitable size including allied units for waste disposal with all civil and mechanical works involved, etc. complete (turnkeyjob). or /Designing (aesthetically), providing, constructing and giving satisfactory hydraulic testing, commissioning and giving satisfactory trials of modernised Sewage Treatment Plant consisting of inlet chamber, screen chamber, detritus tanks, parshall flume, primary settling tanks, aeration tanks, secondary settling tanks, sludge sump and pump house, sludge thickener, primary digester, secondary digester, SST sump and pump house, chlorine contact tank, chlorinators, chlorinator room, sump cum blending tank, PST sludge sump cum blending tank, pump house, sludge centrifuge, gas holder, necessary piping work with required valves, gates, drains, pathways, administrative building cum laboratory, laboratory equipments, tools and plants, spare parts, etc. complete as turnkey job with all involved civil, electrical and mechanical works inclusive of following items, units as per detailed specification for civil, electrical and mechanical components with all duties and taxes, etc. complete or/.</p>						

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT	
				Figure	Words	Rs.	P
	<p><b>Cyclic Activated Sludge Process</b>            Designing, providing, constructing, hydraulic testing, commissioning and giving satisfactory trials of STP based on SBR technology consisting of Inlet Chamber, Screen Chamber, Detritus Tanks, Distribution Chamber and Biological CASP Basins, Sludge Sump, Chlorine Contact Tank, Chlorinator Room/Shed, Sludge Centrifuge necessary piping work with required valves, gates, drains, pathways Administration Block cum Laboratory, Laboratory Equipments, Tools and Plants, Spare Parts, etc. complete as turnkey job with all involved civil, electrical and mechanical works inclusive of following items, units as per detailed specification for civil, electrical and mechanical components with all duties and taxes, etc. complete.</p>						
	<p><b>Moving Media Bio Reactor (MMBR) / FAB (Fluidised Aerated Bed) Process</b> Designing, providing, constructing, hydraulic testing, commissioning and giving satisfactory trials of STP consisting of inlet chamber, screen chamber, grit separator, MMBR / FAB(based on technologies providing attached growth on plastic media kept suspended in the waste water due to low density of plastic and provided with compressed air for aeration with very high MLSS of greater than 15,000mg/lit.) tank, secondary clarifier, sludge sump, sludge thickener, chlorine contact tank, chlorinator room/shed, sludge centrifuge, associated piping work with required valves, gates, drains, pathways, administration block cum laboratory, laboratory equipments, spare parts for 2 years of operation, etc. complete as turnkey job with all involved civil, electrical and mechanical works inclusive of following items, units as per detailed specifications for civil, electrical and mechanical components with all duties and taxes, etc. complete. Treated sewage can be used for irrigation, horticulture purposes.</p>						

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	Suppling & erecting approved make of oil immersed and naturally cooled indoor /outdoor type , copper wound transformer with delta conn. on HV side & star conn. on LV side with additional neutral brought out in load side , voltage rating 11/0.433 v with tapping of +/- 2.5 % -5 % ,continuously rated for full load with standard accessories complete with test certificate with losses below 580 watts at no load , 4200 watts at full load asp er IS 2026. and approved by engineering incharge. The item includes Metering Kiosk, substation accessories for Plinth mounted Transformer					
1.1	STP at Nakshatrawadi of Capacity 136.50 MLD.	1	Job	601168026.38	Rupees Sixty Crore Eleven Lakh Sixty Eight Thousand & Twenty Six - Paise Thirty Eight Only	601168026.38
1.2	STP at Banewadi of Capacity 30 MLD.	1	Job	135273341.88	Rupees Thirteen Crore Fifty Two Lakh Seventy Three Thousand Three Hundred & Fourty One - Paise Eighty Eight Only	135273341.88
1.3	STP at Siddarth Garden of Capacity 4.5 MLD.	1	Job	32835359.93	Rupees Three Crore Twenty Eight Lakh Thirty Five Thousand Three Hundred & Fifty Nine - Paise Ninety Three Only	32835359.93
1.4	STP at Zalta of Capacity 20 MLD.	1	Job	100366669.38	Rupees Ten Crore Three Lakh Sixty Six Thousand Six Hundred & Sixty Nine - Paise Thirty Eight Only	100366669.38

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Executive Engineer



Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
1.5	STP at Padegaon of Capacity 10 MLD.	1	Job	64441869.63	Rupees Six Crore Forty Four Lakh Forty One Thousand Eight Hundred & Sixty Nine - Paise Sixty Three Only	64441869.63
1.6	STP at CIDCO of Capacity 15 MLD.	1	Job	78972259.26	Rupees Seven Crore Eighty Nine Lakh Seventy Two Thousand Two Hundred & Fifty Nine - Paise Twenty Six Only	78972259.26
<b>Total Cost (Rs.)</b>						<b>1013057526.46</b>

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No. of Corrections

Executive Engineer

**Schedule B for PART B – B-1 (Percentage Rate Contract)**

**Name of Work: Designing, Providing, Lowering, Laying, Testing and Commissioning and Improvement in Sewerage Network System of all zones of Aurangabad city, including condition assessment of Existing sewerage network.**

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	<b>Collection System</b>					
1	<b>Item No:1</b> Excavation for foundation/ pipe trenches in all types of soils, soft murum including removing the excavation material up to a distance of 50 meter and lift as below, stacking and spreading as directed, normal dewatering, preparing the bed for foundation and excluding backfilling, etc complete.					
1.1	a) 0 to 1.5 m	37111.91	Cum	140.80	Rupees One Hundred & Fourty - Paise Eighty Only	5225356.93
1.2	b) 1.5 to 3 m	117343.06	Cum	154.00	Rupees One Hundred & Fifty Four Only	18070831.24
1.3	c) 3 to 4.5 m	17329.23	Cum	167.20	Rupees One Hundred & Sixty Seven - Paise Twenty Only	2897447.26
1.4	d) 4.5 to 6.0 m	8555.99	Cum	180.40	Rupees One Hundred & Eighty - Paise Fourty Only	1543500.60
2	<b>Item No: 2</b> Excavation for foundation/ pipe trenches in in hard murum and boulders, W.B.M. road including removing the excavation material up to a distance of 50 meter and lift as below, stacking and spreading as directed, normal dewatering, preparing the bed for foundation and excluding backfilling, etc complete.					

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
2.1	a) 0 to 1.5 m	13744.21	cum	157.72	Rupees One Hundred & Fifty Seven - Paise Seventy Two Only	2167736.80
2.2	b) 1.5 to 3 m	84957.29	cum	170.67	Rupees One Hundred & Seventy - Paise Sixty Seven Only	14499660.68
2.3	c) 3 to 4.5 m	45745.08	cum	183.61	Rupees One Hundred & Eighty Three - Paise Sixty One Only	8399254.14
2.4	d) 4.5 to 6 m	14196.46	cum	196.56	Rupees One Hundred & Ninety Six - Paise Fifty Six Only	2790456.18
3	<b>Item No.: 3</b> Excavation for foundation/ pipe trenches in slush muddy/ Marshy/ Slushy / Soil use of poclain, labour for dewatering during execution including removing the exaction material up to a distance of 50 meter and lift as below, stacking and spreading as directed, preparing the bed by cleaning the mud, labour required for execution for shuttering shall be paid separately.					
3.1	a) 0 to 1.5 m	3178.51	cum	343.20	Rupees Three Hundred & Fourty Three - Paise Twenty Only	1090864.63
3.2	b) 1.5 to 3 m	1597.14	cum	366.30	Rupees Three Hundred & Sixty Six - Paise Thirty Only	585032.38
3.3	c) 3 to 4.5 m	968.80	cum	389.40	Rupees Three Hundred & Eighty Nine - Paise Fourty Only	377250.72

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Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
3.4	d) 4.5 to 6 m	908.31	cum	412.50	Rupees Four Hundred & Twelve - Paise Fifty Only	374677.88
4	<b>Item No.: 4</b> Excavation for foundation/ pipes trenches by all mean in soft rock & old cement and lime masonry foundation asphalt road including removing the excavated material up to a distance of 50M beyond area & lift as below, stacking as directed by Engineer-in - charge, normal dewatering, preparation of bed for foundation & excluding backfilling, etc. complete					
4.1	a) 0 to 1.5 m	6357.01	cum	493.90	Rupees Four Hundred & Ninety Three - Paise Ninety Only	3139727.24
4.2	b) 1.5 to 3 m	50974.37	cum	517.00	Rupees Five Hundred & Seventeen Only	26353749.29
4.3	c) 3 to 4.5 m	45745.08	cum	540.10	Rupees Five Hundred & Fourty - Paise Ten Only	24706917.71
4.4	d) 4.5 to 6.0 m	23660.76	cum	563.20	Rupees Five Hundred & Sixty Three - Paise Twenty Only	13325740.03
5	<b>Item No.: 5</b> Excavation in laterite rock masses mechanically including lift up to 1.5m including trimming & travelling bed, removing the excavated material up to a distance of 50m beyond the area as lift as below, stacking as directed by Engineer-in-charge, normal dewatering, excluding backfilling, etc. complete					
5.1	a) 0 to 1.5 m	3178.51	cum	856.90	Rupees Eight Hundred & Fifty Six - Paise Ninety Only	2723665.22

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
5.2	b) 1.5 to 3 m	84957.29	cum	880.00	Rupees Eight Hundred & Eighty Only	74762415.20
5.3	c) 3 to 4.5 m	73192.13	cum	903.10	Rupees Nine Hundred & Three - Paise Ten Only	66099812.60
5.4	d) 4.5 to 6 m	47321.52	cum	926.20	Rupees Nine Hundred & Twenty Six - Paise Twenty Only	43829191.82
5.5	e) 6.0 to 7.5 m	75389.18	cum	949.30	Rupees Nine Hundred & Fourty Nine - Paise Thirty Only	71566948.57
6	<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, bally, steel props, 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)	703.68	cum	5155.50	Rupees Five Thousand One Hundred & Fifty Five - Paise Fifty Only	3627822.24
7	<b>Item No.: 7</b> Filling in plinth and floors/ trenches with available excavated stuff for bedding in 15cm to 20cm layer including watering & compaction etc. complete.	70514.84	cum	63.00	Rupees Sixty Three Only	4442434.92
8	<b>Item No.: 8</b> Dismantling RCC concrete work including braking concrete by chiselling, welding etc. including cutting the reinforcement, stacking the serviceable material and the debris separately up to a distance of 50 meter or spreading the debris as directed etc. complete	3450.00	Cum	393.23	Rupees Three Hundred & Ninety Three - Paise Twenty Three Only	1356626.25

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
9	<b>Item No. : 9</b> Open Timbering in Trenches of depth more than 1.5 m for shoring and strutting including all timber works including walling, struts, open polling boards/horizontal sheeting, runners, etc. complete as directed by Engineer In-Charge.					
9.1	a) Lift 0 - 1.5 m non water logged	121169.20	Sqm	212.10	Rupees Two Hundred & Twelve - Paise Ten Only	25699987.32
9.2	b) Lift 1.5 - 3.0 m non water logged	192894.85	Sqm	238.35	Rupees Two Hundred & Thirty Eight - Paise Thirty Five Only	45976487.50
9.3	c) Lift 3.0 - 4.5 m non water logged	40816.32	Sqm	264.60	Rupees Two Hundred & Sixty Four - Paise Sixty Only	10799998.27
9.4	d) Lift 4.5-6.0 m non water logged	11944.27	Sqm	290.85	Rupees Two Hundred & Ninety - Paise Eighty Five Only	3473990.93
9.5	e) Lift 6.0 - 7.5 m non water logged	3835.74	Sqm	312.85	Rupees Three Hundred & Twelve - Paise Eighty Five Only	1200011.26
10	<b>Item No. : 10</b> Dewatering the excavated trenches and pools of water in the building trenches pipelines, as well works by using pumps and other devices including disposing of water to safe distance as directed by engineer-in-charge ( including cost of machinery, labour, fuel) etc. complete.	105968.05	BHP/hr	63.00	Rupees Sixty Three Only	6675987.15
11	<b>Item No. : 11 Transportation of earth</b> Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate	131578.86	cum	336.76	Rupees Three Hundred & Thirty Six - Paise Seventy Six Only	44310496.89

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
12	<b>Item No. : 12</b> Providing and Supplying in standard length Polyethylene (PE) DWC pipes for non pressure underground drainage and sewerage with smooth internal and corrugated (profiled) external surface with Anti rodent property confirming to ISO-211383:2007withnecessary jointing material like mechanical connector i.e. thread/insert joint/quick release coupler/compression fitting joint/ or flanged joint including all local and central taxes, transportation and freight charges, inspection charges, loading and unloading charges, conveyance to the departmental stores /site and stacking the same in closed shade duly protecting from sunrays and rains etc complete					
12.1	a) 175 mm	70278.33	RMT	379.60	Rupees Three Hundred & Seventy Nine - Paise Sixty Only	26677654.07
12.2	b) 200 mm	27493.52	RMT	457.60	Rupees Four Hundred & Fifty Seven - Paise Sixty Only	12581034.75
12.3	c) 250 mm	29245.49	RMT	873.60	Rupees Eight Hundred & Seventy Three - Paise Sixty Only	25548860.06
12.4	d) 315 mm	28531.84	RMT	1098.24	Rupees One Thousand & Ninety Eight - Paise Twenty Four Only	31334807.96

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Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
13	<b>Item No. : 13</b> Lowering laying and jointing HDPE/MDPE pipes in proper position including all specials by Compression fitting /Electro fusion and But fusion jointing procedure including hydraulic testing as per relevant IS Code complete with all materials for jointing procedures like Electro fusion machine, Electric mirror/heater /But fusion welding machine with hydraulic jack, top loading clamp etc pump and accessories for hydraulic testing and all labours as directed by engineer in charge as per IS 7634 Part II.					
13.1	a) 175 mm	70278.33	RMT	39.60	Rupees Thirty Nine - Paise Sixty Only	2783021.87
13.2	b) 200 mm	27493.52	RMT	40.95	Rupees Fourty - Paise Ninety Five Only	1125859.64
13.3	c) 250 mm	29245.49	RMT	51.45	Rupees Fifty One - Paise Fourty Five Only	1504680.46
13.4	d) 300 mm	28531.84	RMT	63.00	Rupees Sixty Three Only	1797505.92
14	<b>Item No. : 14</b> Providing ISI standard RCC NP2 pipes in standard lengths of following class and diameter suitable for rubber ring joints, including all taxes (central and local), inspection charges, transport to stores- sites, unloading and stacking etc complete					
14.1	a) 400 mm	22876.20	RMT	984.88	Rupees Nine Hundred & Eighty Four - Paise Eighty Eight Only	22530311.86
14.2	b) 450 mm	1200.80	RMT	1154.40	Rupees One Thousand One Hundred & Fifty Four - Paise Fourty Only	1386203.52

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Executive Engineer



Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
14.3	c) 500 mm	8071.60	RMT	1348.88	Rupees One Thousand Three Hundred & Fourty Eight - Paise Eighty Eight Only	10887619.81
15	<b>Item No. : 15 Providing and Laying Pipes (RCC NP3 pipe)</b> Providing ISI standard RCC NP3 pipes in standard lengths of following class and diameter suitable for rubber ring joints, including all taxes (central and local), inspection charges, transport to stores-sites, unloading and stacking etc complete. One rubber ring should be supplied with each full length socketed pipe, cost including in rates below. <b>Class NP III</b>					
15.1	a) 400 mm	5789.90	RMT	1826.24	Rupees One Thousand Eight Hundred & Twenty Six - Paise Twenty Four Only	10573746.98
15.2	b) 450 mm	1975.70	RMT	2171.52	Rupees Two Thousand One Hundred & Seventy One - Paise Fifty Two Only	4290272.06
15.3	c) 500 mm	1954.30	RMT	2411.76	Rupees Two Thousand Four Hundred & Eleven - Paise Seventy Six Only	4713302.57
15.4	d) 600 mm	8649.98	RMT	3178.24	Rupees Three Thousand One Hundred & Seventy Eight - Paise Twenty Four Only	27491712.44

Signature of Contractor

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
15.5	e) 700 mm	8022.30	RMT	4319.12	Rupees Four Thousand Three Hundred & Nineteen - Paise Twelve Only	34649276.38
15.6	f) 800 mm	4013.90	RMT	5145.92	Rupees Five Thousand One Hundred & Forty Five - Paise Ninety Two Only	20655208.29
15.7	g) 900 mm	9295.40	RMT	5943.60	Rupees Five Thousand Nine Hundred & Forty Three - Paise Sixty Only	55248139.44
15.8	h) 1000 mm	1676.10	RMT	7271.68	Rupees Seven Thousand Two Hundred & Seventy One - Paise Sixty Eight Only	12188062.85
15.9	i) 1100 mm	2121.50	RMT	8412.56	Rupees Eight Thousand Four Hundred & Twelve - Paise Fifty Six Only	17847246.04
15.10	j) 1200 mm	3090.20	RMT	9869.60	Rupees Nine Thousand Eight Hundred & Sixty Nine - Paise Sixty Only	30499037.92
15.11	k) 1400 mm	4000.10	RMT	11860.16	Rupees Eleven Thousand Eight Hundred & Sixty - Paise Sixteen Only	47441826.02
15.12	l) 1600 mm	2002.80	RMT	17282.72	Rupees Seventeen Thousand Two Hundred & Eighty Two - Paise Seventy Two Only	34613831.62

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
15.13	m) 1800 mm	783.30	RMT	22860.24	Rupees Twenty Two Thousand Eight Hundred & Sixty - Paise Twenty Four Only	17906425.99
16	<b>Item No. : 16 Providing and Laying Pipes (RCC NP4 pipe)</b> Providing ISI standard RCC pipes in standard lengths of following class and diameter suitable for rubber ring joints, including all taxes (central and local), inspection charges, transport to stores- sites, unloading and stacking etc complete. one rubber ring should be supplied with each full length socketed pipe, cost including in rates below. <b>Class NP IV</b>					
16.1	a) 400 mm	3940.10	RMT	1916.72	Rupees One Thousand Nine Hundred & Sixteen - Paise Seventy Two Only	7552068.47
16.2	b) 450 MM	1435.98	RMT	2260.96	Rupees Two Thousand Two Hundred & Sixty - Paise Ninety Six Only	3246693.34
16.3	c) 500 mm	1650.20	RMT	2762.24	Rupees Two Thousand Seven Hundred & Sixty Two - Paise Twenty Four Only	4558248.45
16.4	d) 600 mm	3694.38	RMT	3378.96	Rupees Three Thousand Three Hundred & Seventy Eight - Paise Ninety Six Only	12483162.24

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
16.5	4) 700 mm	1391.80	RMT	5056.48	Rupees Five Thousand & Fifty Six - Paise Fourty Eight Only	7037608.86
16.6	f) 800 mm	591.30	RMT	5775.12	Rupees Five Thousand Seven Hundred & Seventy Five - Paise Twelve Only	3414828.46
16.7	g) 900 mm	910.40	RMT	6764.16	Rupees Six Thousand Seven Hundred & Sixty Four - Paise Sixteen Only	6158091.26
16.8	h) 1000 mm	727.80	RMT	9575.28	Rupees Nine Thousand Five Hundred & Seventy Five - Paise Twenty Eight Only	6968888.78
16.9	i) 1100 mm	831.40	RMT	10387.52	Rupees Ten Thousand Three Hundred & Eighty Seven - Paise Fifty Two Only	8636184.13
16.10	j) 1200 mm	1102.30	RMT	10434.32	Rupees Ten Thousand Four Hundred & Thirty Four - Paise Thirty Two Only	11501750.94
16.11	k) 1400 mm	435.30	RMT	16292.64	Rupees Sixteen Thousand Two Hundred & Ninety Two - Paise Sixty Four Only	7092186.19

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
16.12	l) 1600 mm	853.10	RMT	20312.24	Rupees Twenty Thousand Three Hundred & Twelve - Paise Twenty Four Only	17328371.94
16.13	m) 2000 mm	1645.70	RMT	27844.96	Rupees Twenty Seven Thousand Eight Hundred & Fourty Four - Paise Ninety Six Only	45824450.67
17	<b>Item No. : 17</b> Lowering laying and jointing in proper grade and alignment R.C.C. pipes with spigot socketed RCC pipes in C.M.1:1 preparation or socketed RCC pipes with rubber joints (excluding cost of rubber ring ) including cost of conveyance from stores to site of work, cost of jointing material, labour, giving hydraulic testing etc. complete as directed by engineer-in charge <b>(For all class of pipes.) as per IS-783-1985</b>					
17.1	a) 400 mm	32606.20	RMT	162.75	Rupees One Hundred & Sixty Two - Paise Seventy Five Only	5306659.05
17.2	b) 450 mm	4612.48	RMT	194.25	Rupees One Hundred & Ninety Four - Paise Twenty Five Only	895974.24
17.3	c) 500 mm	11676.10	RMT	213.15	Rupees Two Hundred & Thirteen - Paise Fifteen Only	2488760.72
17.4	d) 600 mm	12344.36	RMT	266.70	Rupees Two Hundred & Sixty Six - Paise Seventy Only	3292240.81

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
17.5	e) 700 mm	9414.10	RMT	303.45	Rupees Three Hundred & Three - Paise Fourty Five Only	2856708.65
17.6	f) 800 mm	4605.20	RMT	350.70	Rupees Three Hundred & Fifty - Paise Seventy Only	1615043.64
17.7	g) 900 mm	10205.80	RMT	387.45	Rupees Three Hundred & Eighty Seven - Paise Fourty Five Only	3954237.21
17.8	h) 1000 mm	2403.90	RMT	424.20	Rupees Four Hundred & Twenty Four - Paise Twenty Only	1019734.38
17.9	i) 1100 mm	2952.90	RMT	574.35	Rupees Five Hundred & Seventy Four - Paise Thirty Five Only	1695998.12
17.10	j) 1200 mm	4192.50	RMT	611.10	Rupees Six Hundred & Eleven - Paise Ten Only	2562036.75
17.11	k) 1400 mm	4435.40	RMT	684.60	Rupees Six Hundred & Eighty Four - Paise Sixty Only	3036474.84
17.12	l) 1600 mm	2855.90	RMT	758.10	Rupees Seven Hundred & Fifty Eight - Paise Ten Only	2165057.79
17.13	m) 1800 mm	2157.20	RMT	831.60	Rupees Eight Hundred & Thirty One - Paise Sixty Only	1793927.52
17.14	n) 2000 mm	271.80	RMT	831.60	Rupees Eight Hundred & Thirty One - Paise Sixty Only	226028.88

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
18	<b>Item No. : 18 Providing and Laying Pipes (DI K9 pipe)</b> Providing DI K9 grade Pipe, with internal cement mortar lining including all taxes. insurance. railway freight, unloading from railway wagon. loading into truck, transport to departmental stores site, unloading- stacking etc complete. (IS 8329-2000 latest Version)					
18.1	a) 150 mm	1636.94	RMT	1350.96	Rupees One Thousand Three Hundred & Fifty - Paise Ninety Six Only	2211440.46
18.2	b) 200 mm	546.81	RMT	1832.48	Rupees One Thousand Eight Hundred & Thirty Two - Paise Fourty Eight Only	1002018.39
18.3	c) 250 mm	584.15	RMT	2392.00	Rupees Two Thousand Three Hundred & Ninety Two Only	1397286.80
18.4	d) 300 mm	584.12	RMT	3021.20	Rupees Three Thousand & Twenty One - Paise Twenty Only	1764743.34
18.5	e) 400 mm	673.06	RMT	4603.04	Rupees Four Thousand Six Hundred & Three - Paise Four Only	3098122.10
18.6	f) 500 mm	79.00	RMT	6214.00	Rupees Six Thousand Two Hundred & Fourteen Only	490906.00
18.7	g) 600 mm	244.45	RMT	8110.96	Rupees Eight Thousand One Hundred & Ten - Paise Ninety Six Only	1982724.17

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
18.8	h) 700 mm	239.41	RMT	10876.32	Rupees Ten Thousand Eight Hundred & Seventy Six - Paise Thirty Two Only	2603899.77
18.9	i) 750 mm	187.75	RMT	12310.48	Rupees Twelve Thousand Three Hundred & Ten - Paise Fourty Eight Only	2311292.62
18.10	j) 800 mm	90.83	RMT	13601.12	Rupees Thirteen Thousand Six Hundred & One - Paise Twelve Only	1235389.73
18.11	k) 900 mm	153.59	RMT	16655.60	Rupees Sixteen Thousand Six Hundred & Fifty Five - Paise Sixty Only	2558133.60
18.12	l) 1000 mm	48.00	RMT	19864.00	Rupees Nineteen Thousand Eight Hundred & Sixty Four Only	953472.00
19	<b>Item No. : 19</b> Lowering laying and jointing in proper grade with SBR rubber gaskets D.I K7 pipes with MS specials of following diameter 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 as directed by engineer-in charge. Only SBR Rubber Ring gaskets to be used as per IS-5382 and IS-12820					
19.1	a) 150 mm	1650.59	RMT	82.95	Rupees Eighty Two - Paise Ninety Five Only	136916.44

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No. of Corrections

Executive Engineer



Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
19.2	b) 200 mm	543.00	RMT	109.20	Rupees One Hundred & Nine - Paise Twenty Only	59295.60
19.3	c) 250 mm	582.00	RMT	141.75	Rupees One Hundred & Fourty One - Paise Seventy Five Only	82498.50
19.4	d) 300 mm	582.00	RMT	159.60	Rupees One Hundred & Fifty Nine - Paise Sixty Only	92887.20
19.5	e) 400 mm	665.00	RMT	241.50	Rupees Two Hundred & Fourty One - Paise Fifty Only	160597.50
19.6	f) 500 mm	79.00	RMT	294.00	Rupees Two Hundred & Ninety Four Only	23226.00
19.7	g) 600 mm	244.00	RMT	391.65	Rupees Three Hundred & Ninety One - Paise Sixty Five Only	95562.60
19.8	h) 700 mm	239.00	RMT	551.25	Rupees Five Hundred & Fifty One - Paise Twenty Five Only	131748.75
19.9	i) 750 mm	189.00	RMT	602.70	Rupees Six Hundred & Two - Paise Seventy Only	113910.30
19.10	j) 800 mm	92.00	RMT	707.70	Rupees Seven Hundred & Seven - Paise Seventy Only	65108.40
19.11	k) 900 mm	157.00	RMT	888.30	Rupees Eight Hundred & Eighty Eight - Paise Thirty Only	139463.10

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
19.12	l) 1000 mm	48.00	RMT	1077.30	Rupees One Thousand & Seventy Seven - Paise Thirty Only	51710.40
20	<b>Item No. : 20 Manholes</b> Providing and constructing on sewer. R.C.C circular manhole 2.0 m dia and up to a depth of 3.5 M of Reinforced Cement Concrete (M-20) including excavation, concrete, steel reinforcement and haunches and channels in C.C.1:2:4 proportion, finishing channel, in smooth rendering, providing C.I dapuri type steps each weighing 5.5 kg., and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge. (AS Per Rate Analysis)	1238.62	No.	56262.15	Rupees Fifty Six Thousand Two Hundred & Sixty Two - Paise Fifteen Only	69687424.23
20.1	rebate for every decrease in depth of 50 cm or part there of	434.91	50cm depth	5626.22	Rupees Five Thousand Six Hundred & Twenty Six - Paise Twenty Two Only	-2446899.34
21	<b>Item No. : 21</b> Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C.1:2:4 proportion, finishing channel, 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 SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge.	6945.58	No.	21025.20	Rupees Twenty One Thousand & Twenty Five - Paise Twenty Only	146032208.62
21.1	rebate for every decrease in depth of 50 cm or part thereof	4167.35	50cm depth	2875.95	Rupees Two Thousand Eight Hundred & Seventy Five - Paise Ninety Five Only	-11985090.23

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
22	<b>Item No. : 22</b> Providing and constructing on sewer. R.C.C circular manhole 2.2 m dia and up to a depth of 5 M of Reinforced Cement Concrete (M-20) including excavation, concrete, steel reinforcement and haunches and channels in C.C.1:2:4 proportion, finishing channel, in smooth rendering, providing C.I dapuri type steps each weighing 5.5 kg., and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge. (As Per Rate Analysis)	245.10	No.	144531.36	Rupees One Lakh Fourty Four Thousand Five Hundred & Thirty One - Paise Thirty Six Only	35424636.34
22.1	rebate for every decrease in depth of 50 cm or part thereof	122.55	50 cm depth	14453.14	Rupees Fourteen Thousand Four Hundred & Fifty Three - Paise Fourteen Only	-1771232.31
23	<b>Item No. : 23</b> Providing and constructing on sewer.BBM manhole 1.5 m dia at bottom and 0.5 m dia at top and up to a depth of 2 to 5.0 M in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C.1:2:4 proportion, finishing channel, 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 SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge.	727.20	No.	58791.60	Rupees Fifty Eight Thousand Seven Hundred & Ninety One - Paise Sixty Only	42753251.52
23.1	rebate for every decrease in depth of 50 cm or part thereof	387.35	50 cm depth	5913.60	Rupees Five Thousand Nine Hundred & Thirteen - Paise Sixty Only	-2290632.96

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
24	<b>Item No. : 24</b> Providing and constructing on sewer .R.C.C circular manhole 2.5 m dia and up to a depth of 9 M of Reinforced Cement Concrete (M-20) including excavation, concrete, steel reinforcement and haunches and channels in C.C.1:2:4 proportion, finishing channel, in smooth rendering, providing C.I dapuri type steps each weighing 5.5 kg., and providing and fixing approved make and quality SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge. (AS Per Rate Analysis)	142.50	No.	302462.87	Rupees Three Lakh Two Thousand Four Hundred & Sixty Two - Paise Eighty Seven Only	43100958.98
24.1	rebate for every decrease in depth of 50 cm or part thereof	71.25	50 cm depth	30246.29	Rupees Thirty Thousand Two Hundred & Fourty Six - Paise Twenty Nine Only	-2155048.16
25	<b>Item No. : 25</b> Providing and constructing on sewer.BBM manhole 2.0 m dia at bottom and 0.5 m dia at top and up to a depth of 5 to 9.0 M in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C.1:2:4 proportion, finishing channel, 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 SFRC frame and cover of 56 cm dia etc., complete as directed by engineer- in-charge.	338.50	No.	126352.80	Rupees One Lakh Twenty Six Thousand Three Hundred & Fifty Two - Paise Eighty Only	42770422.80
25.1	rebate for every decrease in depth of 50 cm or part thereof	169.25	50 cm depth	7468.65	Rupees Seven Thousand Four Hundred & Sixty Eight - Paise Sixty Five Only	-1264069.01

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
26	<b>Item No. : 26 Drainage Drops</b> Providing 150mm dia S.W. or R.C.C. pipes in vertical drop arrangement including providing 150 dia S.W. 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 angle bend, encasing in BB 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. (0.60M depth) excluding cost of chamber.	705.57		1913.10	Rupees One Thousand Nine Hundred & Thirteen - Paise Ten Only	1349825.97
26.1	a) Extra for every 0.5 depth beyond initial depth of 0.60 M	37.09	50 cm depth	663.60	Rupees Six Hundred & Sixty Three - Paise Sixty Only	24612.92
26.2	b) As above but 200 mm dia pipes and depth 0.60M	100.88	No.	2532.60	Rupees Two Thousand Five Hundred & Thirty Two - Paise Sixty Only	255488.69
26.3	c) Extra for every 0.5 depth beyond initial depth of 0.60 M	17.28	50 cm depth	794.85	Rupees Seven Hundred & Ninety Four - Paise Eighty Five Only	13735.01
26.4	d) As above but 250 mm dia pipes and depth 0.60M	55.36	No.	3051.30	Rupees Three Thousand & Fifty One - Paise Thirty Only	168919.97
26.5	e) Extra for every 0.5 depth beyond initial depth of 0.60 M	23.32	50 cm depth	989.10	Rupees Nine Hundred & Eighty Nine - Paise Ten Only	23065.81
26.6	f) As above but 300 mm dia pipes and depth 0.60M	42.39	No.	3715.95	Rupees Three Thousand Seven Hundred & Fifteen - Paise Ninety Five Only	157519.12

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
26.7	g) Extra for every 0.5 depth beyond initial depth of 0.60 M	7.11	50 cm depth	1077.30	Rupees One Thousand & Seventy Seven - Paise Thirty Only	7659.60
26.8	) As above but 400 mm dia pipes and depth 0.60M	46.20	No.	5037.90	Rupees Five Thousand & Thirty Seven - Paise Ninety Only	232750.98
26.9	i) Extra for every 0.5 depth beyond initial depth of 0.60 M	10.80	50 cm depth	1492.05	Rupees One Thousand Four Hundred & Ninety Two - Paise Five Only	16114.14
26.10	j) As above but 500 mm dia pipes and depth 0.60M	10.05	No.	6793.50	Rupees Six Thousand Seven Hundred & Ninety Three - Paise Fifty Only	68274.68
26.11	k) Extra for every 0.5 depth beyond initial depth of 0.60 M	11.11	50 cm depth	1959.30	Rupees One Thousand Nine Hundred & Fifty Nine - Paise Thirty Only	21767.82
26.12	l) As above but 600 mm dia pipes and depth 0.60M	35.49	No.	8850.45	Rupees Eight Thousand Eight Hundred & Fifty - Paise Fourty Five Only	314102.47
27	<b>Item No. : 27 RCC</b> Providing and laying insitu 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 dewatering, formwork, compaction finishing & 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)					

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Executive Engineer

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
27.1	For RCC M-250 grade	425.00	cum	5719.35	Rupees Five Thousand Seven Hundred & Nineteen - Paise Thirty Five Only	2430723.75
28	<b>Item No. : 28 STEEL REINFORCEMENT</b> Providing and fixing in position steel bar reinforcement of various diameters for RCC piles caps ,footing 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)	60.70	MT	61122.60	Rupees Sixty One Thousand One Hundred & Twenty Two - Paise Sixty Only	3710141.82
29	<b>Item No. : 29 House Service Connection</b> Providing making underground drainage House Service Connection to consumer including all material & labour with considering four properties & one inspection chamber	39709.00	Nos	10811.00	Rupees Ten Thousand Eight Hundred & Eleven Only	429293999.00
30	<b>Item No. : 30 Refilling in trenches</b> Refilling the trenches with approved excavated stuff with soft materials first over pipeline & then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging etc. complete.	627240.78	cum	62.92	Rupees Sixty Two - Paise Ninety Two Only	39465989.88
31	<b>Item No. : 31 Road restoration - Supply, Spreading, Compacting</b> 80mm and 40 mm metal. Providing and laying 75mm hot mix bitumen layer, 20mm bituminous premix carpet using 60/70 grade, Providing liquid seal coat as per detailed specifications, etc complete as directed by Engineer-in-Charge.	323276.18	Sqm	730.00	Rupees Seven Hundred & Thirty Only	235991611.40

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Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
32	<b>Item No. : 32</b> Providing and fixing RCC ventilation shaft, making connection to manhole etc. complete as directed by EIC.	1134.00	Nos	9185.40	Rupees Nine Thousand One Hundred & Eighty Five - Paise Fourty Only	10416243.60
33	<b>Item No. : 33</b> Making cross connection to existing distribution main of any type including excavation, breaking and removing exiting pipes, lowering, laying of specials and pipes in their position, refilling, closing the water supply in that area, dewatering and restarting the water supply, etc. complete as directed by Engineer-in-charge for following diameters of existing pipeline, irrespective of diameter of branch line (the number of joints involved will be paid separately depending upon the nature of joints and required pipes, valves and specials will be supplied free of cost at stores).					
33.1	a) 80 mm	1500.00	No	1433.25	Rupees One Thousand Four Hundred & Thirty Three - Paise Twenty Five Only	2149875.00
33.2	b) 100 mm	1000.00	No	1634.85	Rupees One Thousand Six Hundred & Thirty Four - Paise Eighty Five Only	1634850.00
33.3	c) 125 mm	300.00	No	1799.70	Rupees One Thousand Seven Hundred & Ninety Nine - Paise Seventy Only	539910.00
33.4	d) 150 mm	750.00	No	2058.00	Rupees Two Thousand & Fifty Eight Only	1543500.00
33.5	e) 200 mm	50.00	No	2160.90	Rupees Two Thousand One Hundred & Sixty - Paise Ninety Only	108045.00

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Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
33.6	f) 250 mm	50.00	No	2568.30	Rupees Two Thousand Five Hundred & Sixty Eight - Paise Thirty Only	128415.00
33.7	g) 300 mm	50.00	No	3126.90	Rupees Three Thousand One Hundred & Twenty Six - Paise Ninety Only	156345.00
33.8	h) 350 mm	50.00	No	3816.75	Rupees Three Thousand Eight Hundred & Sixteen - Paise Seventy Five Only	190837.50
33.9	i) 400 mm	50.00	No	4453.05	Rupees Four Thousand Four Hundred & Fifty Three - Paise Five Only	222652.50
33.10	j) 450 mm	50.00	No	6186.60	Rupees Six Thousand One Hundred & Eighty Six - Paise Sixty Only	309330.00
33.11	k) 500 mm	50.00	No	6333.60	Rupees Six Thousand Three Hundred & Thirty Three - Paise Sixty Only	316680.00
34	<b>Item No. : 34</b> Dismantling dead pipeline of M.S./R.C.C./ C.I./ P.S.C. and G.I./ A. C. / P. V. C. / S. W. / H. D. P. E. pipe including cost of necessary excavation and refilling of trenches, breaking the joints, lifting the pipes and stacking to the place as directed by Engineer-in-charge with all leads and lifts including cleaning the surface, etc. complete.					
34.1	a) 80 mm	1459.00	RMT	128.10	Rupees One Hundred & Twenty Eight - Paise Ten Only	186897.90

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Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
34.2	b) 100 mm	1000.00	RMT	140.70	Rupees One Hundred & Fourty - Paise Seventy Only	140700.00
34.3	c) 125 mm	300.00	RMT	143.85	Rupees One Hundred & Fourty Three - Paise Eighty Five Only	43155.00
34.4	d) 150 mm	750.00	RMT	147.00	Rupees One Hundred & Fourty Seven Only	110250.00
34.5	e) 200 mm	50.00	RMT	161.70	Rupees One Hundred & Sixty One - Paise Seventy Only	8085.00
34.6	f) 250 mm	50.00	RMT	178.50	Rupees One Hundred & Seventy Eight - Paise Fifty Only	8925.00
34.7	g) 300 mm	50.00	RMT	194.25	Rupees One Hundred & Ninety Four - Paise Twenty Five Only	9712.50
34.8	h) 350 mm	50.00	RMT	216.30	Rupees Two Hundred & Sixteen - Paise Thirty Only	10815.00
34.9	i) 400 mm	50.00	RMT	237.30	Rupees Two Hundred & Thirty Seven - Paise Thirty Only	11865.00
34.10	j) 450 mm	50.00	RMT	269.85	Rupees Two Hundred & Sixty Nine - Paise Eighty Five Only	13492.50
34.11	k) 500 mm	50.00	RMT	282.45	Rupees Two Hundred & Eighty Two - Paise Fourty Five Only	14122.50

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Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
35	<b>Item No. : 35</b> Shifting of Existing Utilities Length considered up to 400 mm including all and as directed by Engineer In-Charge	191.07	Km	12527.00	Rupees Twelve Thousand Five Hundred & Twenty Seven Only	2393533.89
<b>Total Cost (Rs.)</b>						<b>2277913969.87</b>

**SCHEDULE B - FOR PART B – B 1 (Percentage Rate Contract)**

**Name of Work : - Designing, Constructing, Erecting and Commissioning of seven numbers (6 Terminal + 1 Intermediate) Sewage pumping stations and pump house including all necessary civil, electrical and mechanical, instrumentation items and all allied works , etc complete.**

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	<b>A) Civil Work Cost</b>					
1	<b>Item No 1 : -</b> Designing, Constructing, Erecting and Commissioning and giving satisfactory Performance test of seven numbers (6 Terminal + 1 Intermediate) Sewage pumping stations and pump house including cost of all equipments such as Pumps, Motors, necessary piping, valves, Starters, Change over switches, panel board, Cables, DG set, Mechanical and Manual Coarse Screen, gates, Civil/ Mechanical/Electrical work required to provide/installation of equipments as specified in detailed scope of work etc complete.					

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	<b>Items to include</b> 1) Carrying out contour survey of pumping station site, and collection of data such as foundation strata, water table level, HFL levels, etc, necessary for design of Pumping station					
	2) The design shall be in accordance with various relevant I.S. specification (I.S.456/2000, I.S. 875- 1987, I.S. 3370-1965 or revised					
	3) Designing of Pumping stations comprising of Sump to adequate capacity for ultimate stage flow and pump house of required size with floor level 1.0 m above the HFL to accommodate pumps required to be installed as specified in details scope of work, designing of pumping machinery as specified and approved by Engineer In Charge etc complete.					
	4) Excavation for foundation and construction of RCC sump of required capacity in all types of strata such as soil, marshy, Slushy/muddy soil, sand, gravel, murum, soft rock, hard rock, old cement and lime masonry foundation etc by chiselling, wedging line drilling by mechanical means or by any other means including well sinking works for all lifts including necessary shoring strutting, open timbering wherever necessary, removing, the excavated material up to safe distance and stacking and spreading, carting back for refilling, disposal of surplus excavated stuff up to 5 km lead as directed by, necessary dewatering for excavation and construction and necessary backfilling with compaction etc complete					

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT	
				Figure	Words	Rs.	P
	5) Providing and laying in situ cement concrete in proportion M30 of trap metal for foundation and bedding, vertical walls, slabs, flooring, roof, columns stairs including bailing out water necessary formwork, compaction, and curing etc complete.						
	6) Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, Pile Caps, footing, foundations, slabs, beams, columns, canopies, staircase newels, chajjs lintels, etc as per detailed design, 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)						
	7) providing, erecting and giving test of raw sewage pumping machinery for each pumping station as specified in detailed scope of work conforming to IS 9070 operating at 2900 RPM with necessary piping, valves, starters, panel board,cables and wiring, with CL impeller, priming funnel, cock, suitable flanges a at suction and delivery side motor shall be suitable for working on 415 V-+ 10% 3Ph,50 A.C Supply. motar shall be TEFC (energy efficient motor) at suction and delivery side motor shall be suitable for working on 415 V-+ 10% 3Ph,50 A.C Supply. motar shall be TEFC (energy efficient motor) type. Pump set shall be suitable for working at variable discharge and head requirements. Pump shall be erected on provided C.C foundation block or girders of suitable size with suitable foundation bolts grouted in C.C foundation block etc complete.						

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT	
				Figure	Words	Rs.	P
	8) providing, erecting elective valve actuators totally enclosed weather-proof and dust proof construction for each pumping station as specified in detailed scope of work with IP-67 protection class suitable for installation in any position without lubrication leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically disengage on restoration of power to motor and with 10 W single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with SS flap and operated with gear driven cams and of rating 250 Volt, 5 Amp AC/DC torque switch-dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2 insulation class F and temp rise restricted to class B with IP-67 protection class suitable for DOL starting and with three thermostat and 30% over load margin, The torque rating of reduction gear box shall be at least 1.5 times max torque required for opening and closing of valve etc complete						
	9) Providing Erecting EOT/chain pulley box for each pumping stations as specified in detail scope of work with 6m lift complete with load chain and hand chain suitable for above lift tested to 50% over load as per IS 3832 carrying ISI mark						

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	10) Providing and fixing steel rolling shutters, doors, windows, ventilators, providing and fixing polished kota flooring with False flooring as and when required, providing necessary electrification inside and outside plaster, providing and applying oil bound distemper from inside and snow cement paint to external exposed walling of the pump house for each of the pumping stations as specified in detailed scope of work etc complete					
	11) Providing necessary automation to enable unmanned operation					
1.1	Sewage Pumping Station and Pump House at Banewadi	1	No.	4493759.00	Rupees Fourty Four Lakh Ninety Three Thousand Seven Hundred & Fifty Nine Only	4493759.00
1.2	Sewage Pumping Station and Pump House at CIDCO	1	No.	3636171.00	Rupees Thirty Six Lakh Thirty Six Thousand One Hundred & Seventy One Only	3636171.00
1.3	Sewage Pumping Station and Pump House at Golwadi	1	No.	19674617.00	Rupees One Crore Ninety Six Lakh Seventy Four Thousand Six Hundred & Seventeen Only	19674617.00
1.4	Sewage Pumping Station and Pump House at Padegaon	1	No.	2407598.00	Rupees Twenty Four Lakh Seven Thousand Five Hundred & Ninety Eight Only	2407598.00

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
1.5	Sewage Pumping Station and Pump House at Siddarth Garden	1	No.	1715291.00	Rupees Seventeen Lakh Fifteen Thousand Two Hundred & Ninety One Only	1715291.00
1.6	Sewage Pumping Station and Pump House at Ward no 98	1	No.	2778584.00	Rupees Twenty Seven Lakh Seventy Eight Thousand Five Hundred & Eighty Four Only	2778584.00
1.7	Sewage Pumping Station and Pump House at Zalta	1	No.	3807688.50	Rupees Thirty Eight Lakh Seven Thousand Six Hundred & Eighty Eight - Paise Fifty Only	3807688.50
	<b>B ) - Mechanical Works - Item Include</b>					

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No. of Corrections

Executive Engineer



Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
2	<p><b>Pumps for Banewadi Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below.  Capacity - 630.00 m3/Hrs.  Pump Head in mWC- 20 mtr.  Efficiency of the pumps 75%  Required Motor rating HP- 80  Solid Handling size – 100mm  Sp Gravity – 1.05  MOC Casing – CI IS 210 Gr. FG 220  Impeller – CI IS 210 Gr. FG 220  Shaft and Sleeve – SS 316  Motor Parts – CI IS 210 Gr. FG 220  Fasteners – BHT Steel  Guide Pipe – Carbon Steel  Lifting Chain – Carbon Steel  Mech. Seal – Motor Side – Carbon / Crome Steel  - Pump Side – SiC V/s SiC</p>	6.00	No	456963.00	Rupees Four Lakh Fifty Six Thousand Nine Hundred & Sixty Three Only	2741778.00

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
3	<p><b>Pumps for CIDCO Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below.  Capacity - 825.00 m3/Hrs.  Pump Head in mWC- 20 mtr.  Efficiency of the pumps 75%  Required Motor rating HP-100  Solid Handling size – 100mm  Sp Gravity – 1.05  MOC Casing – CI IS 210 Gr. FG 220  Impeller – CF8M  Shaft and Sleeve – SS 316  Motor Parts – CI IS 210 Gr. FG 220  Fasteners – BHT Steel  Guide Pipe – Carbon Steel  Lifting Chain – Carbon Steel  Mech. Seal – Motor Side – Carbon / Crome Steel  - Pump Side – SiC V/s SiC</p>	3.00	No	844031.25	Rupees Eight Lakh Fourty Four Thousand &Thirty One - Paise Twenty Five Only	2532093.75

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
4	<p><b>Pumps for Golwadi Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below.  Capacity - 10267 m3/hr  Pump Head in mWC- 28 mtr.  Efficiency of the pumps 75%  Required Motor rating HP- 300  Solid Handling size – 100mm  Sp Gravity – 1.05  MOC  Casing – CI IS 210 Gr. FG 220  Impeller – CF8M  Shaft and Sleeve – SS 316  Motor Parts – CI IS 210 Gr. FG 220  Fasteners – BHT Steel  Guide Pipe – Carbon Steel  Lifting Chain – Carbon Steel  Mech. Seal – Motor Side – Carbon / Crome Steel  - Pump Side – SiC V/s SiC</p>	9.00	No	3980000.00	Rupees Thirty Nine Lakh Eighty Thousand Only	35820000.00

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
5	<p><b>Pumps for Padegaon Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below. Capacity - 639.00 m3/Hrs. Pump Head in mWC- 020 mtr. Efficiency of the pumps 75% Required Motor rating HP- 80 Solid Handling size – 100mm Sp Gravity – 1.05 MOC Casing – CI IS 210 Gr. FG 220 Impeller – CF8M Shaft and Sleeve – SS 316 Motor Parts – CI IS 210 Gr. FG 220 Fasteners – BHT Steel Guide Pipe – Carbon Steel Lifting Chain – Carbon Steel Mech. Seal – Motor Side – Carbon / Crome Steel - Pump Side – SiC V/s SiC</p>	3.00	No	782125.00	Rupees Seven Lakh Eighty Two Thousand One Hundred & Twenty Five Only	2346375.00

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
6	<p><b>Pumps for Siddarth Garden Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below. Capacity - 190.00 m3/Hrs. Pump Head in mWC- 20 mtr. Efficiency of the pumps 75% Required Motor rating HP- 25 Solid Handling size – 100mm Sp Gravity – 1.05 MOC Casing – CI IS 210 Gr. FG 220 Impeller – CF8M Shaft and Sleeve – SS 316 Motor Parts – CI IS 210 Gr. FG 220 Fasteners – BHT Steel Guide Pipe – Carbon Steel Lifting Chain – Carbon Steel Mech. Seal – Motor Side – Carbon / Crome Steel - Pump Side – SiC V/s SiC</p>	3.00	No	250106.25	Rupees Two Lakh Fifty Thousand One Hundred & Six - Paise Twenty Five Only	750318.75

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
7	<p><b>Pumps for Ward No 98 Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below. Capacity - 266.00 m3/Hrs. Pump Head in mWC- 25 mtr. Efficiency of the pumps 75% Required Motor rating HP- 40 Solid Handling size – 100mm Sp Gravity – 1.05 MOC Casing – CI IS 210 Gr. FG 220 Impeller – CI IS 210 Gr. FG 220 Shaft and Sleeve – SS 316 Motor Parts – CI IS 210 Gr. FG 220 Fasteners – BHT Steel Guide Pipe – Carbon Steel Lifting Chain – Carbon Steel Mech. Seal – Motor Side – Carbon / Crome Steel - Pump Side – SiC V/s SiC</p>	3.00	No	429762.50	Rupees Four Lakh Twenty Nine Thousand Seven Hundred & Sixty Two - Paise Fifty Only	1289287.50

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
8	<p><b>Pumps for Zalta Pumping Station</b></p> <p>Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps , as specified below. Capacity - 640.00 m3/Hrs. Pump Head in mWC- 20 mtr. Efficiency of the pumps 75% Required Motor rating HP- 80 Solid Handling size – 100mm Sp Gravity – 1.05 MOC Casing – CI IS 210 Gr. FG 220 Impeller – CF8M Shaft and Sleeve – SS 316 Motor Parts – CI IS 210 Gr. FG 220 Fasteners – BHT Steel Guide Pipe – Carbon Steel Lifting Chain – Carbon Steel Mech. Seal – Motor Side – Carbon / Crome Steel - Pump Side – SiC V/s SiC</p>	6.00	No	619975.00	Rupees Six Lakh Nineteen Thousand Nine Hundred & Seventy Five Only	3719850.00

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
9	<b>Butterfly Valve</b> Providing, double flanged short body pattern type manually operated Butterfly Valve PN 1.6 rating with bypass arrangement having body, disc and end cover in graded cast iron to IS 210 Gr.CF 200 generally conforming in IS-13095-1991, Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel screw stub shaft of stainless steel riding in Teflon bearing excluding C.C. foundation/Structural steel support.					
9.1	Size : 750 mm Common Header for Banewadi Pumping Station	1.00	No	248611.56	Rupees Two Lakh Fourty Eight Thousand Six Hundred & Eleven - Paise Fifty Six Only	248611.56
9.2	Size : 600 mm Common Header for CIDCO Pumping Station	1.00	No	123755.33	Rupees One Lakh Twenty Three Thousand Seven Hundred & Fifty Five - Paise Thirty Three Only	123755.33
9.3	Size : 1400 mm for Common Header for Golwadi Pumping Station	1.00	No	1200295.10	Rupees Twelve Lakh Two Hundred & Ninety Five - Paise Ten Only	1200295.10
9.4	Size : 500 mm for Common Header for Padegaon Pumping Station	1.00	No	100213.51	Rupees One Lakh Two Hundred & Thirteen - Paise Fifty One Only	100213.51
9.5	Size : 300 mm for Common Header for Siddarth Garden Pumping Station'	1.00	No	36156.39	Rupees Thirty Six Thousand One Hundred & Fifty Six - Paise Thirty Nine Only	36156.39

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Executive Engineer



Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
9.6	Size : 350 mm For Common Header Ward No 98 Pumping Station	1.00	No	73535.76	Rupees Seventy Three Thousand Five Hundred & Thirty Five - Paise Seventy Six Only	73535.76
9.7	Size : 750mm For Common Header for Zalta Pumping Station	1.00	No	248611.56	Rupees Two Lakh Fourty Eight Thousand Six Hundred & Eleven - Paise Fifty Six Only	248611.56
10	<b>NRV</b> Providing & supplying ISI mark CI D/F Reflux valve( non return valve) PN 1.6 rating without bypass arrangement, as per IS 5312 Part I (1984), including all taxes, inspection charges, transportation etc. complete.					
10.1	Size : 750 mm Common Header for Banewadi Pumping Station	1.00	No	461732.72	Rupees Four Lakh Sixty One Thousand Seven Hundred & Thirty Two - Paise Seventy Two Only	461732.72
10.2	Size : 600 mm Common Header for CIDCO Pumping Station	1.00	No	332868.56	Rupees Three Lakh Thirty Two Thousand Eight Hundred & Sixty Eight - Paise Fifty Six Only	332868.56
10.3	Size : 1400 mm for Common Header for Golwadi Pumping Station	1.00	No	1698194.78	Rupees Sixteen Lakh Ninety Eight Thousand One Hundred & Ninety Four - Paise Seventy Eight Only	1698194.78

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
10.4	Size : 500 mm for Common Header for Padegaon Pumping Station	1.00	No	226539.06	Rupees Two Lakh Twenty Six Thousand Five Hundred & Thirty Nine - Paise Six Only	226539.06
10.5	Size : 300 mm for Common Header for Siddarth Garden Pumping Station'	1.00	No	59376.66	Rupees Fifty Nine Thousand Three Hundred & Seventy Six - Paise Sixty Six Only	59376.66
10.6	Size : 350 mm For Common Header Ward No 98 Pumping Station	1.00	No	102263.80	Rupees One Lakh Two Thousand Two Hundred & Sixty Three - Paise Eighty Only	102263.80
10.7	Size : 750mm For Common Header for Zalta Pumping Station	1.00	No	461732.72	Rupees Four Lakh Sixty One Thousand Seven Hundred & Thirty Two - Paise Seventy Two Only	461732.72
11	Lowering, laying & jointing in position following C.I.D/F Reflux valves, Butterfly valves & Sluice valves including cost of all labour jointing material, including nut bolts & giving satisfactory hydraulic testing etc. complete.					
11.1	Size : 750 mm	4.00	No	10077.90	Rupees Ten Thousand & Seventy Seven - Paise Ninety Only	40311.60
11.2	Size :600 mm	2.00	No	8487.15	Rupees Eight Thousand Four Hundred & Eighty Seven - Paise Fifteen Only	16974.30

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
11.3	Size : 1400 mm	2.00	No	19060.65	Rupees Nineteen Thousand & Sixty - Paise Sixty Five Only	38121.30
11.4	Size : 500 mm	2.00	No	7996.80	Rupees Seven Thousand Nine Hundred & Ninety Six - Paise Eighty Only	15993.60
11.5	Size : 300mm	2.00	No	4365.90	Rupees Four Thousand Three Hundred & Sixty Five - Paise Ninety Only	8731.80
11.6	Size : 350 mm	2.00	No	5380.20	Rupees Five Thousand Three Hundred & Eighty - Paise Twenty Only	10760.40
11.7	Size : 350 mm	18.00	No	5380.20	Rupees Five Thousand Three Hundred & Eighty - Paise Twenty Only	96843.60
12	<b>SLUICE VALVE</b> Providing double flange Sluice Valve PN 1.6 rating without bypass arrangement, confirming for IS-2906/14846 including worn gear arrangements as per test pressure stainless steel spindle, caps including all taxes transportation etc. complete.					
12.1	Size -400 mm for Pump Delivery for Banewadi Pumping Station	6.00	No	108694.80	Rupees One Lakh Eight Thousand Six Hundred & Ninety Four - Paise Eighty Only	652168.80
12.2	Size -400 mm Pump Delivery for CIDCO Pumping Station	3.00	No	108694.80	Rupees One Lakh Eight Thousand Six Hundred & Ninety Four - Paise Eighty Only	326084.40

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Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
12.3	Size -600 mm for Pump delivery for Golwadi Pumping Station	9.00	No	265940.40	Rupees Two Lakh Sixty Five Thousand Nine Hundred & Forty - Paise Forty Only	2393463.60
12.4	Size -400 mm for Pump delivery for Padegaon Pumping Station	3.00	No	108694.80	Rupees One Lakh Eight Thousand Six Hundred & Ninety Four - Paise Eighty Only	326084.40
12.5	Size -200 mm for Pump delivery for Siddarth Garden Pumping Station	3.00	No	26270.09	Rupees Twenty Six Thousand Two Hundred & Seventy - Paise Nine Only	78810.27
12.6	Size -250 mm for Pump delivery for Ward No 98 Pumping Station	3.00	No	40746.38	Rupees Fourty Thousand Seven Hundred & Fourty Six - Paise Thirty Eight Only	122239.14
12.7	Size -350 mm for Pump delivery for Zalta Pumping Station	6.00	No	79363.99	Rupees Seventy Nine Thousand Three Hundred & Sixty Three - Paise Ninety Nine Only	476183.94
13	<p><b>Butterfly Valve</b>            Providing, double flanged short body pattern type manually operated Butterfly Valve PN 1.6 rating with bypass arrangement having body, disc and end cover in graded cast iron to IS 210 Gr.CF 200 generally confirming in IS-13095-1991, Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel screw stub shaft of stainless steel riding in Teflon bearing excluding C.C. foundation/Structural steel support.</p>					

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
13.1	Size -400 mm for Pump Delivery for Banewadi Pumping Station	6.00	No	78998.84	Rupees Seventy Eight Thousand Nine Hundred & Ninety Eight - Paise Eighty Four Only	473993.04
13.2	Size -400 mm Pump Delivery for CIDCO Pumping Station	3.00	No	78998.84	Rupees Seventy Eight Thousand Nine Hundred & Ninety Eight - Paise Eighty Four Only	236996.52
13.3	Size -600 mm for Pump delivery for Golwadi Pumping Station	9.00	No	123755.30	Rupees One Lakh Twenty Three Thousand Seven Hundred & Fifty Five - Paise Thirty Only	1113797.70
13.4	Size -400 mm for Pump delivery for Padegaon Pumping Station	3.00	No	78998.84	Rupees Seventy Eight Thousand Nine Hundred & Ninety Eight - Paise Eighty Four Only	236996.52
13.5	Size -200 mm for Pump delivery for Siddarth Garden Pumping Station	3.00	No	18285.84	Rupees Eighteen Thousand Two Hundred & Eighty Five - Paise Eighty Four Only	54857.52
13.6	Size -250 mm for Pump delivery for Ward No 98 Pumping Station	3.00	No	22851.85	Rupees Twenty Two Thousand Eight Hundred & Fifty One - Paise Eighty Five Only	68555.55
13.7	Size -350 mm for Pump delivery for Zalta Pumping Station	6.00	No	73535.76	Rupees Seventy Three Thousand Five Hundred & Thirty Five - Paise Seventy Six Only	441214.56

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
14	<b>NRV</b> Providing & supplying ISI mark CI D/F Reflux valve( non return valve) PN 1.6 rating without bypass arrangement, as per IS 5312 Part I (1984), including all taxes, inspection charges, transportation etc. complete.					
14.1	Size -400 mm for Pump Delivery for Banewadi Pumping Station	6.00	No	118182.16	Rupees One Lakh Eighteen Thousand One Hundred & Eighty Two - Paise Sixteen Only	709092.96
14.2	Size -400 mm Pump Delivery for CIDCO Pumping Station	3.00	No	118182.16	Rupees One Lakh Eighteen Thousand One Hundred & Eighty Two - Paise Sixteen Only	354546.48
14.3	Size -600 mm for Pump delivery for Golwadi Pumping Station	9.00	No	332868.60	Rupees Three Lakh Thirty Two Thousand Eight Hundred & Sixty Eight - Paise Sixty Only	2995817.40
14.4	Size -400 mm for Pump delivery for Padegaon Pumping Station	3.00	No	118182.16	Rupees One Lakh Eighteen Thousand One Hundred & Eighty Two - Paise Sixteen Only	354546.48
14.5	Size -200 mm for Pump delivery for Siddarth Garden Pumping Station	3.00	No	26469.56	Rupees Twenty Six Thousand Four Hundred & Sixty Nine - Paise Fifty Six Only	79408.68
14.6	Size -250 mm for Pump delivery for Ward No 98 Pumping Station	3.00	No	42494.74	Rupees Fourty Two Thousand Four Hundred & Ninety Four - Paise Seventy Four Only	127484.22

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Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
14.7	Size -350 mm for Pump delivery for Zalta Pumping Station	6.00	No	102263.80	Rupees One Lakh Two Thousand Two Hundred & Sixty Three - Paise Eighty Only	613582.80
15	Lowering, laying & jointing in position following C.I.D/F Reflex valves, Butterfly valves & Sluice valves including cost of all labour jointing material, including nut bolts & giving satisfactory hydraulic testing etc. complete					
15.1	Size : 200	9.00	No	3383.60	Rupees Three Thousand Three Hundred & Eighty Three - Paise Sixty Only	30452.40
15.2	Size : 250 mm	9.00	No	4408.80	Rupees Four Thousand Four Hundred & Eight - Paise Eighty Only	39679.20
15.3	Size : 350 mm	18.00	No	5636.40	Rupees Five Thousand Six Hundred & Thirty Six - Paise Fourty Only	101455.20
15.4	Size 400 mm	36.00	No	6800.20	Rupees Six Thousand Eight Hundred - Paise Twenty Only	244807.20
15.5	Size : 600 mm	27.00	No	8891.30	Rupees Eight Thousand Eight Hundred & Ninety One - Paise Thirty Only	240065.10
16	Providing , Erecting Triple Spur Gear <b>Chain Pulley Block</b> with Travelling Trolley suitable for <b>3T</b> Capacity with 6 m lift complete With load chain and hand chain suitable for above lift, Tested to 50% overload as per IS 3832 Carrying ISI Mark					

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
16.1	Chain Pulley Block - 3T	4.00	No	69130.00	Rupees Sixty Nine Thousand One Hundred & Thirty Only	276520.00
16.2	Chain Pulley Block - 2T	1.00	No	54674.00	Rupees Fifty Four Thousand Six Hundred & Seventy Four Only	54674.00
17	<b>Electric Operated Circular or Rectangular Travelling Travelling Crane</b> Providing, erecting & commissioning single girder electric operated circular/ rectangular over head travelling crane with 10 m lift complete with wire rope hoist, class II duty, all three motions electrically operated of suitable rating motor IP54 etc. complete as per detailed specifications & as directed by Engineer : 5 Tonne Capacity. add 30 % for spam up to 20 mtrs					
17.1	5 Tonne Capacity	2.00	No	805355.00	Rupees Eight Lakh Five Thousand Three Hundred & Fifty Five Only	1610710.00
18	Providing and erecting <b>Cast Iron Sluice Gates</b> manufactured & tested as per IS3042-1965. Gates to be provided with brass seats and spindle of MS bright bar of required height to enable to operate the gate from operating slab of intake structure including GM nut bolts SS304 hardware, necessary wedges to be provided to achieve leak tightness, including operational wheel headstock, foundation material, labour etc. complete including taxes & duties ,as per detailed specification & as directed by Engineer In charge.					

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No. of Corrections

Executive Engineer



Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
18.1	Size :1000*1000 mm	6.00	No	268565.00	Rupees Two Lakh Sixty Eight Thousand Five Hundred & Sixty Five Only	1611390.00
18.2	Size :1000*1200 mm for Golwadi	2.00	No	279307.60	Rupees Two Lakh Seventy Nine Thousand Three Hundred & Seven - Paise Sixty Only	558615.20
19	Providing, installing a <b>SS Screens</b> along with the channel guide, & railing accessories as per detailed specifications & as directed by Engineer.	2915.73	kg.	800.00	Rupees Eight Hundred Only	2332584.00
20	Providing and supplying ISI standard welded <b>DI DF</b> pipe including all taxes (central & local) railway freight, insurance, unloading from railway wagon, loading into truck transport to store / site, unloading, stacking etc. complete as directed by Engineer -in-charge. (for 2.75 m bare pipe)					
20.1	400 mm Dia for Delivery lines for Banewadi	120.00	mtrs	9504.80	Rupees Nine Thousand Five Hundred & Four - Paise Eighty Only	1140576.00
20.2	750 mm Dia for Rising Main for Banewadi	10.00	mtrs	22315.28	Rupees Twenty Two Thousand Three Hundred & Fifteen - Paise Twenty Eight Only	223152.80
20.3	400 mm Dia for Delivery lines for CIDCO	120.00	mtrs	9504.80	Rupees Nine Thousand Five Hundred & Four - Paise Eighty Only	1140576.00

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
20.4	600 mm Dia for Rising Main for CIDCO	10.00	mtrs	16583.84	Rupees Sixteen Thousand Five Hundred & Eighty Three - Paise Eighty Four Only	165838.40
20.5	600 mm Dia for Delivery lines for Golwadi	180.00	mtrs	16583.84	Rupees Sixteen Thousand Five Hundred & Eighty Three - Paise Eighty Four Only	2985091.20
20.6	1350 mm Dia for Rising Main for Golwadi	10.00	mtrs	36634.00	Rupees Thirty Six Thousand Six Hundred & Thirty Four Only	366340.00
20.7	400 mm Dia for Delivery lines for Padegaon	60.00	mtrs	9504.80	Rupees Nine Thousand Five Hundred & Four - Paise Eighty Only	570288.00
20.8	500 mm Dia for Rising Main for Padegaon	10.00	mtrs	13199.90	Rupees Thirteen Thousand One Hundred & Ninety Nine - Paise Ninety Only	131999.00
20.9	200 mm Dia for Delivery lines for Siddarth Garden	80.00	mtrs	3529.42	Rupees Three Thousand Five Hundred & Twenty Nine - Paise Fourty Two Only	282353.60
20.10	300 mm Dia for Rising Main for Siddarth Garden	10.00	mtrs	6028.79	Rupees Six Thousand & Twenty Eight - Paise Seventy Nine Only	60287.90
20.11	250 mm Dia for Delivery lines for Ward no 98	60.00	mtrs	4789.46	Rupees Four Thousand Seven Hundred & Eighty Nine - Paise Fourty Six Only	287367.60

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Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
20.12	400 mm Dia for Rising Main for Ward no 98	10.00	mtrs	9504.80	Rupees Nine Thousand Five Hundred & Four - Paise Eighty Only	95048.00
20.13	350 mm Dia for Delivery lines for Zalta	120.00	mtrs	7851.27	Rupees Seven Thousand Eight Hundred & Fifty One - Paise Twenty Seven Only	942152.40
20.14	700 mm Dia for Rising Main for Zalta	10.00	mtrs	23388.13	Rupees Twenty Three Thousand Three Hundred & Eighty Eight - Paise Thirteen Only	233881.30
21	Lowering, Laying, and Jointing with SBR rubber gasket of DI pipes 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.					
21.1	200 mm Dia	80.00	mtrs	114.40	Rupees One Hundred & Fourteen - Paise Fourty Only	9152.00
21.2	250 mm Dia	60.00	mtrs	148.50	Rupees One Hundred & Fourty Eight - Paise Fifty Only	8910.00
21.2	350 mm Dia	130.00	mtrs	204.60	Rupees Two Hundred & Four - Paise Sixty Only	26598.00
21.3	400 mm Dia	310.00	mtrs	253.00	Rupees Two Hundred & Fifty Three Only	78430.00
21.4	500 mm Dia	10.00	mtrs	308.00	Rupees Three Hundred & Eight Only	3080.00

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
21.5	600 mm Dia	190.00	mtrs	316.80	Rupees Three Hundred & Sixteen - Paise Eighty Only	60192.00
21.6	700 mm Dia	10.00	mtrs	577.50	Rupees Five Hundred & Seventy Seven - Paise Fifty Only	5775.00
21.7	750 mm Dia	10.00	mtrs	631.40	Rupees Six Hundred & Thirty One - Paise Fourty Only	6314.00
22	Providing, installing, testing & commissioning of 150 mm dia bourden type Pressure Gauges complete with siphon U tube, isolating cock,C-class heavy duty 15 mm GI Pipe & brought out on wall for observation at place directed by engineer. Range 0 to 15 kg/Cm <sup>2</sup> .as per detailed specifications & as directed by Engineer.	55.00	No.	751.10	Rupees Seven Hundred & Fifty One - Paise Ten Only	41310.50
23	<b>Ultrasonic Flow meter</b> Providing, Installing & giving satisfactory test and trial of ultrasonic Insertion fixed type flowmeter working on conditions and specifications, calibration, inspection, testing, training, guarantees, and manufacturers test certificate along with mandatory accessories given bellow complete with detailed specifications and as directed by engineer in charge.					
23.1	For Other PS	5.00	No	325000.00	Rupees Three Lakh Twenty Five Thousand Only	1625000.00
23.2	For Golwadi	1.00	No	371800.00	Rupees Three Lakh Seventy One Thousand Eight Hundred Only	371800.00

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
23.3	For Banewadi	1.00	No	340000.00	Rupees Three Lakh Fourty Thousand Only	340000.00
24	Providing, laying and jointing with test & trial of SENSOR/TRANSMITTER CABLE: - Providing, Laying and jointing with test and trail of sensor / transmitter cable 4 x 0.38 mm PVC cable common, braided copper shield etc. as per detailed specification.					
24.1	For Other PS	700.00	Mtrs	230.00	Rupees Two Hundred & Thirty Only	161000.00
24.2	For Golwadi	100.00	Mtrs	253.00	Rupees Two Hundred & Fifty Three Only	25300.00
25	<b>Conduit Pipe: -</b> Providing conduit pipe (PVC/HDPE Plumbing) 32 mm dia. With suitable rating.- Suitable conduit duct for routeing of cable with suitable digging, laying & concealing the duct. 32 mm dia	1600.00	Mtrs	18.00	Rupees Eighteen Only	28800.00
26	<b>PANEL CABINET :-</b> Fixing of flow meter transmitter to internal walls of binding /inside suitable designed panel cabinet with proper locking arrangement with glass window on front door for seeing reading of flow transmitter and data logger without opening of panel cabinet					
26.1	For Other PS	12.00	No	26500.00	Rupees Twenty Six Thousand Five Hundred Only	318000.00
26.2	For Golwadi	2.00	No	29150.00	Rupees Twenty Nine Thousand One Hundred & Fifty Only	58300.00

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
27	Excavation for foundation in earth, soils of all types sand, gravel & soft murum including removing the excavated material up to a distance of 50m and lift 1.5m. stacking & spreading as directed, dewatering, preparing die bed for the foundation and necessary back filling, ramming, watering ( including shoring and strutting), etc. complete.					
27.1	Lift 0 to 1.5 m	27.00	Cum	156.22	Rupees One Hundred & Fifty Six - Paise Twenty Two Only	4217.94
27.2	Lift 1.5 to 3.0 m	6.00	Cum	146.00	Rupees One Hundred & Fourty Six Only	876.00
27.3	Lift 3.0 to 4.5 m	6.00	Cum	171.84	Rupees One Hundred & Seventy One - Paise Eighty Four Only	1031.04
28	Providing and constructing B.B. masonry Valve Chamber with 15 cm. thick 1:3:6 proportion PCC bedding, excluding B.B. masonry in CM. 1:5 proportion precast RCC frame and cover, etc. complete					
28.1	As Above of 1.2 x 1.2 M Internal Size and depth up to 1.5 M with precast RCC Slab Cover.	24.00	No	15832.30	Rupees Fifteen Thousand Eight Hundred & Thirty Two - Paise Thirty Only	379975.20
29	Providing <b>Structural steel</b> work in rolled sections like joints, channels, angles, tees ect. As per detailed design and drawing including fix in position without connecting plates, braces ect. And one coat of anticorrosive paint and over it two coats of oil painting, of approved quality and shade, complete.	25.18	MT	64033.20	Rupees Sixty Four Thousand & Thirty Three - Paise Twenty Only	1612355.98

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
30	<b>DI Specials-</b> Providing and supplying ISI standard DI specials and fitting with sealing rubber gasket of SBR complete with cast iron follower gland MS nut bolts coated or otherwise protected from rusting and suitable for DI pipes including cost of labour, materials and transportation to store/ site loading and unloading including all taxes etc. complete as per IS 9523					
30.1	80 to 300 mm Dia	1200.46	kg	111.28	Rupees One Hundred & Eleven - Paise Twenty Eight Only	133587.19
30.2	350mm to above Dia	52031.83	kg	135.20	Rupees One Hundred & Thirty Five - Paise Twenty Only	7034703.42
31	Providing and laying insitu 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 dewatering, formwork, compaction finishing & 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)	39.55	cum	5992.14	Rupees Five Thousand Nine Hundred & Ninety Two - Paise Fourteen Only	236989.14
32	Providing & supplying Kinetic Double Orifice type air valves PN1.6 rating combined with screw down isolating sluice valve etc complete					
32.1	Size :100mm	42.00	No.	25404.08	Rupees Twenty Five Thousand Four Hundred & Four - Paise Eight Only	1066971.36

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
33	Manufacturing, providing and supplying spirally welded/ ERW / SAW / fabricated M.S. pipes (Commercial Quality) including procurements of plates, gas cutting to required size, rolling, tack welding, assembling in suitable lengths to form pipes, welding on automatic welding machine and forming 'V' edge on both ends of pipes including all taxes (Central and local), railway freight, insurance, unloading from railway wagon, loading into truck, transport to stores / site, unloading, stacking, etc. complete as per IS-3589 and IS-5504 as applicable as per specifications (No negative tolerance in thickness is permissible).					
33.1	1350 mm Internal dia MS pipe 12 mm Thick	10.00	Rmt	25230.40	Rupees Twenty Five Thousand Two Hundred & Thirty - Paise Fourty Only	252304.00
34	Lowering, laying, butt welding in position to correct line and level, M.S. pipes with / without any outcoating on pedestals or chairs upon prepared formation. The rate to include loading, unloading, hoisting, marginal cutting wherever required, assembling, tack welding and transportation up to 500M, etc. complete as specified.	10.00	Rmt	2027.30	Rupees Two Thousand & Twenty Seven - Paise Thirty Only	20273.00
<b>C) Electrical Works - Item Include</b>						
35	<b>Item No. 1 :- L.T. Control Panel Board</b> Designing, Providing , Erecting, Testing & Commissioning with Satisfactory Test & Trial of Various Panel Boards as per Detailed specifications.					

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	<b>A) L.T.Main Control Panel Board</b> Designing, Providing, Erecting, Main L. T. Control Panel Board comprises of 800 Amp. MCCB for Incoming & 200 Amp. MCCB for outgoing as per Detailed specification enclosed.					
35.1	800 Amp. MCCB for Incoming & 200 Amp. MCCB for outgoing For Banewadi Pumping Station.	1	each	365024.63	Rupees Three Lakh Sixty Five Thousand & Twenty Four - Paise Sixty Three Only	365024.63
35.2	630 Amp. MCCB for Incoming & 200 Amp. MCCB for outgoing For CIDCO Pumping Station.	1	each	558646.12	Rupees Five Lakh Fifty Eight Thousand Six Hundred & Forty Six - Paise Twelve Only	558646.12
35.3	2000 Amp. ACB for Incoming & 300 Amp. MCCB for outgoing For Golwadi Pumping Station.	1	each	3051870.98	Rupees Thirty Lakh Fifty One Thousand Eight Hundred & Seventy - Paise Ninety Eight Only	3051870.98
35.4	250 Amp. MCCB for Incoming & 100 Amp. MCCB for outgoing For Padegaon Pumping Station.	1	each	265323.29	Rupees Two Lakh Sixty Five Thousand Three Hundred & Twenty Three - Paise Twenty Nine Only	265323.29
35.5	250 Amp. MCCB for Incoming & 63 Amp. MCCB for outgoing For Sidharth Garden Pumping Station.	1	each	125066.67	Rupees One Lakh Twenty Five Thousand & Sixty Six - Paise Sixty Seven Only	125066.67
35.6	250 Amp. MCCB for Incoming & 63 Amp. MCCB for outgoing For Ward No. 98 Pumping Station.	1	each	127312.41	Rupees One Lakh Twenty Seven Thousand Three Hundred & Twelve - Paise Fourty One Only	127312.41

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
35.7	800 Amp. MCCB for Incoming & 100 Amp. MCCB for outgoing For Zalta Pumping Station	1	each	365024.63	Rupees Three Lakh Sixty Five Thousand & Twenty Four - Paise Sixty Three Only	365024.63
36	<b>B) Soft Starter</b> Supply erecting, commissioning electrical soft star starter of three wire system to operate on 380/440 Volts 3 phase 50 Hz consisting of, 1) Main contactor AC- 3 Duty and 1.5 times of full load current rating; 2) Suitable Thyresters, 3) Ammeter with selector switch & CTs, 4) Motor Protection relay with protection CTs for Protection against a) Single Phasing (Current Sensing) b) under voltage and over voltage c) Over current relay having IDMT characteristic.					
36.1	Rating suitable for 75 HP pumps For Banewadi Pumping Station.	6	each	168351.65	Rupees One Lakh Sixty Eight Thousand Three Hundred & Fifty One - Paise Sixty Five Only	1010109.90
36.2	Rating suitable for 100 HP pumps For CIDCO Pumping Station.	3	each	184523.75	Rupees One Lakh Eighty Four Thousand Five Hundred & Twenty Three - Paise Seventy Five Only	553571.25
36.3	Rating suitable for 300 HP pumps For Golwadi Pumping Station.	9	each	373514.4	Rupees Three Lakh Seventy Three Thousand Five Hundred & Fourteen - Paise Forty Only	3361629.60
36.4	Rating suitable for 80 HP pumps For Padegaon Pumping Station.	3	each	168351.65	Rupees One Lakh Sixty Eight Thousand Three Hundred & Fifty One - Paise Sixty Five Only	505054.95

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
36.5	Rating suitable for 30 HP pumps For Sidharth Garden Pumping Station.	3	each	99662.75	Rupees Ninety Nine Thousand Six Hundred & Sixty Two - Paise Seventy Five Only	298988.25
36.6	Rating suitable for 40 HP pumps For Ward No. 98 Pumping Station.	3	each	99662.75	Rupees Ninety Nine Thousand Six Hundred & Sixty Two - Paise Seventy Five Only	298988.25
36.7	Rating suitable for 80 HP pumps For Zalta Pumping Station.	6	each	168351.65	Rupees One Lakh Sixty Eight Thousand Three Hundred & Fifty One - Paise Sixty Five Only	1010109.90
37	<b>Item No. 2 :- Transformer</b> Supplying & erecting approved make of 400 kVA 50 c/s oil immersed and naturally cooled indoor /outdoor type , copper wound transformer with delta conn. on HV side & star conn. on LV side with additional neutral brought out in load side , voltage rating 11/0.433 vV with tapping of +/- 2.5 % -5 % ,continuously rated for full load with slandered accessories complete with test certificate with losses below 715 watts at no load , 5000 watts at full load as per IS 2026. and approved by engineering in charge.					
37.1	Below 715 watts at no load , 5000 watts at full load as per IS 2026. For Banewadi Pumping Station.	1	each	533690.96	Rupees Five Lakh Thirty Three Thousand Six Hundred & Ninety - Paise Ninety Six Only	533690.96

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
37.2	Below 580 watts at no load , 4200 watts at full load as per IS 2026. For CIDCO Pumping Station.	1	each	448163.21	Rupees Four Lakh Forty Eight Thousand One Hundred & Sixty Three - Paise Twenty One Only	448163.21
37.3	Below 850 watts at no load , 5800 watts at full load as per IS 2026. For Golwadi Pumping Station.	2	each	1643808.71	Rupees Sixteen Lakh Forty Three Thousand Eight Hundred & Eight - Paise Seventy One Only	3287617.42
37.4	Below 550 watts at no load , 3600 watts at full load as per IS 2026. For Padegaon Pumping Station.	1	each	396348.86	Rupees Three Lakh Ninety Six Thousand Three Hundred & Fourty Eight - Paise Eighty Six Only	396348.86
37.5	Below 260 watts at no load , 1760 watts at full load as per IS 2026. For Sidharth Garden Pumping Station.	1	each	279209.81	Rupees Two Lakh Seventy Nine Thousand Two Hundred & Nine - Paise Eighty One Only	279209.81
37.6	Below 260 watts at no load , 1760 watts at full load as per IS 2026. For Ward No. 98 Pumping Station.	1	each	279209.81	Rupees Two Lakh Seventy Nine Thousand Two Hundred & Nine - Paise Eighty One Only	279209.81
37.7	Below 850 watts at no load, 5800 watts at full load as per IS 2026. For Zalta Pumping Station.	1	each	627137.81	Rupees Six Lakh Twenty Seven Thousand One Hundred & Thirty Seven - Paise Eighty One Only	627137.81

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
38	<b>Item No- 3 ; - H T Metering Kiosk:</b> Supplying ,erecting testing ( By Licence) , commissioning cubical comprising 11kV HT metering resin cast CTs, PTs, as per licences requirement. DO fuse set, AB Switch 200- 400 A capacity duly interconnected with use of suitable insulators by maintaining adequate clearances as per IS, complete housed in the enclose made up of MS structure ans fibre glass 3 mm thick with gearbox & handle brought out for operating GOD, suitable door openings, locking arrangement as per approved design by Engineering in charge.					
38.1	Banewadi	1	Each	179895.12	Rupees One Lakh Seventy Nine Thousand Eight Hundred & Ninety Five - Paise Twelve Only	179895.12
38.2	CIDCO	1	Each	179895.12	Rupees One Lakh Seventy Nine Thousand Eight Hundred & Ninety Five - Paise Twelve Only	179895.12
38.3	Golwadi	2	Each	179503.8	Rupees One Lakh Seventy Nine Thousand Five Hundred & Three - Paise Eighty Only	359007.60
38.4	Padegaon	1	Each	179895.12	Rupees One Lakh Seventy Nine Thousand Eight Hundred & Ninety Five - Paise Twelve Only	179895.12

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
38.5	Sidharth Garden	1	Each	179503.8	Rupees One Lakh Seventy Nine Thousand Five Hundred & Three - Paise Eighty Only	179503.80
38.6	Ward No.98	1	Each	179503.8	Rupees One Lakh Seventy Nine Thousand Five Hundred & Three - Paise Eighty Only	179503.80
38.7	Zalta	1	Each	179895.12	Rupees One Lakh Seventy Nine Thousand Eight Hundred & Ninety Five - Paise Twelve Only	179895.12
39	<b>Item No- 4 ; - H.T. substation</b> Providing, supplying and erecting 11 Kv/ 0.433 Kv H T Substation as per Detailed specification.					
39.1	Banewadi	1	Each	1809783.55	Rupees Eighteen Lakh Nine Thousand Seven Hundred & Eighty Three - Paise Fifty Five Only	1809783.55
39.2	CIDCO	1	Each	1809783.55	Rupees Eighteen Lakh Nine Thousand Seven Hundred & Eighty Three - Paise Fifty Five Only	1809783.55
39.3	Golwadi	2	Each	4203037.24	Rupees Fourty Two Lakh Three Thousand &Thirty Seven - Paise Twenty Four Only	8406074.48

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
39.4	Padegaon	1	Each	1809783.55	Rupees Eighteen Lakh Nine Thousand Seven Hundred & Eighty Three - Paise Fifty Five Only	1809783.55
39.5	Sidharth Garden	1	Each	647501.13	Rupees Six Lakh Forty Seven Thousand Five Hundred & One - Paise Thirteen Only	647501.13
39.6	Ward No.98	1	Each	647529.58	Rupees Six Lakh Forty Seven Thousand Five Hundred & Twenty Nine - Paise Fifty Eight Only	647529.58
39.7	Zalta	1	Each	649898.86	Rupees Six Lakh Forty Nine Thousand Eight Hundred & Ninety Eight - Paise Eighty Six Only	649898.86
40	<b>Item No. 5 :-Cables</b> 1. 1 kv Aluminum PVC armoured cable from MSEB Supply to AMF panel & DG to AMF Panel to L.T.panel					
40.1	3.5 Core 240 Sq. MM Aluminium Armoured Cable	720	Rmt	2030.7	Rupees Two Thousand & Thirty - Paise Seventy Only	1462104.00
40.2	3.5 core x 50 sqmm	300	Rmt	502.11	Rupees Five Hundred & Two - Paise Eleven Only	150633.00
40.3	3.5 core x 35 sqmm	300	Rmt	397.95	Rupees Three Hundred & Ninety Seven - Paise Ninety Five Only	119385.00

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
40.4	4 Core 10 Sq. MM Aluminium Armoured Cable	300	Rmt	233.1	Rupees Two Hundred & Thirty Three - Paise Ten Only	69930.00
40.5	3 Core 2.5 Sq. MM CU UnArmoured Cable	300	Rmt	228.06	Rupees Two Hundred & Twenty Eight - Paise Six Only	68418.00
	Note : - Above 5 Items For Other Pumping Station					
40.6	3 Run 3.5 Core 400 Sq. MM Aluminium Armoured Cable	1000	Rmt	3095.4	Rupees Three Thousand & Ninety Five - Paise Forty Only	3095400.00
40.7	3.5 core x 50 sqmm	100	Rmt	502.11	Rupees Five Hundred & Two - Paise Eleven Only	50211.00
40.8	3.5 core x 35 sqmm	100	Rmt	397.95	Rupees Three Hundred & Ninety Seven - Paise Ninety Five Only	39795.00
40.9	4 Core 10 Sq. MM Aluminium Armoured Cable	100	Rmt	233.1	Rupees Two Hundred & Thirty Three - Paise Ten Only	23310.00
40.10	3 Core 2.5 Sq. MM CU UnArmoured Cable	100	Rmt	228.06	Rupees Two Hundred & Twenty Eight - Paise Six Only	22806.00
	<b>Note</b> : - Above 5 Items For Golwadi Pumping Station					
41	<b>HT CABLE</b>					
41.1	11 kv XLPE cable 3 core x 95 sqmm	900	Rmt	1089.59	Rupees One Thousand & Eighty Nine - Paise Fifty Nine Only	980631.00

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
41.2	Indoor termination kit 11 kv	10	Each	8980.55	Rupees Eight Thousand Nine Hundred & Eighty - Paise Fifty Five Only	89805.50
41.3	Outdoor termination kit 11 kv	10	Each	13338.05	Rupees Thirteen Thousand Three Hundred & Thirty Eight - Paise Five Only	133380.50
<b>Note : - Above 3 Items For Other Pumping Station</b>						
41.4	11 kv XLPE cable 3 core x 95 sqmm	100	Rmt	1643.99	Rupees One Thousand Six Hundred & Fourty Three - Paise Ninety Nine Only	164399.00
41.5	Indoor termination kit 11 kv	2	Each	8980.55	Rupees Eight Thousand Nine Hundred & Eighty - Paise Fifty Five Only	17961.10
41.6	Outdoor termination kit 11 kv	2	Each	13338.05	Rupees Thirteen Thousand Three Hundred & Thirty Eight - Paise Five Only	26676.10
<b>Note : - Above 3 Items For CIDCO Pumping Station</b>						
41.7	11 kv XLPE cable 3 core x 150 sqmm	300	Rmt	2081.21	Rupees Two Thousand & Eighty One - Paise Twenty One Only	624363.00
41.8	Indoor termination kit 11 kv	4	Each	8980.55	Rupees Eight Thousand Nine Hundred & Eighty - Paise Fifty Five Only	35922.20

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
41.9	Outdoor termination kit 11 kv	4	Each	13338.05	Rupees Thirteen Thousand Three Hundred & Thirty Eight - Paise Five Only	53352.20
	<b>Note :</b> - Above 3 Items For Golwadi Pumping Station					
42	<b>Item No. 6 :- Cable Trench -</b> Making the trench in hard murum/ tar road of suitable width and depth for laying provided L.T. Cable of 10 sq mm complete as per detailed specifications.					
42.1	For Other Pumping Station	600	m	84	Rupees Eighty Four Only	50400.00
42.2	For Golwadi Pumping Station	300	m	86.11	Rupees Eighty Six - Paise Eleven Only	25833.00
43	Making the trench in hard murum/ tar road of suitable width and depth for lying provided L.T. Cable of 25 sq mm & above covered with half round hume pipe complete as per detailed specifications.					
43.1	For Other Pumping Station	600	m	252		151200.00
43.2	For Golwadi Pumping Station	300.00	m	258.43	Rupees Two Hundred & Fifty Eight - Paise Fourty Three Only	77529.00
44	<b>Item No. 7 :- Cable Tray -</b> Providing, fabricating and fixing G.I. perforated cable tray for cables as per requirement and specifications - 200 x 20 mm					
44.1	For Other Pumping Station	500.00	Mtr	177.45	Rupees One Hundred & Seventy Seven - Paise Fourty Five Only	88725.00

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Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
44.2	For CIDCO Pumping Station	100.00	Mtr	178.5	Rupees One Hundred & Seventy Eight - Paise Fifty Only	17850.00
44.3	For Golwadi Pumping Station	300.00	Mtr	195.2	Rupees One Hundred & Ninety Five - Paise Twenty Only	58560.00
45	<b>Item No. 8 :- Capacitor</b> Providing Erecting Individual Mixed dia electric type Capacitor of required capacity for each Submersible Pump set					
	Supply & erecting 150 kVAR 440 V three phase 50 cycles thyrester switched Micro APFC passive filter panel consisting of (25 x4 +15x1 +10x2) steps of APP type capacitor units confirming to IS: 13585 (part -1) with harmonic filter reactors suitable for 150 KW load as per specifications.					
45.1	Supply & erecting 150 kVAR 440 V three phase 50 cycles For Banewadi Pumping Station.	1.00	No	358669.5	Rupees Three Lakh Fifty Eight Thousand Six Hundred & Sixty Nine - Paise Fifty Only	358669.50
45.2	Supply & erecting 100 kVAR 440 V three phase 50 cycles For CIDCO Pumping Station.	1.00	No	270147.15	Rupees Two Lakh Seventy Thousand One Hundred & Fourty Seven - Paise Fifteen Only	270147.15
45.3	Supply & erecting 250 kVAR 440 V three phase 50 cycles For Golwadi Pumping Station.	5.00	Nos	360058.52	Rupees Three Lakh Sixty Thousand & Fifty Eight - Paise Fifty Two Only	1800292.60

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
45.4	Supply & erecting 125 kVAR 440 V three phase 50 cycles For Padegaon Pumping Station.	1.00	No	358669.5	Rupees Three Lakh Fifty Eight Thousand Six Hundred & Sixty Nine - Paise Fifty Only	358669.50
45.5	Supply & erecting 30 kVAR 440 V three phase 50 cycles For Sidharth Garden Pumping Station.	1.00	No	181624.8	Rupees One Lakh Eighty One Thousand Six Hundred & Twenty Four - Paise Eighty Only	181624.80
45.6	Supply & erecting 80 kVAR 440 V three phase 50 cycles For Ward No. 98 Pumping Station.	1.00	No	270147.15	Rupees Two Lakh Seventy Thousand One Hundred & Fourty Seven - Paise Fifteen Only	270147.15
45.7	Supply & erecting 250 kVAR 440 V three phase 50 cycles For Zalta Pumping Station.	1	No	631352.27	Rupees Six Lakh Thirty One Thousand Three Hundred & Fifty Two - Paise Twenty Seven Only	631352.27
46	<b>Item No. 9 :-Earthling Strip GI</b> Providing erecting GI earth strip	300	Kg	79.8	Rupees Seventy Nine - Paise Eighty Only	23940.00
	<b>Note :</b> - Above Item For Padegaon Pumping Station only					
47	<b>Item no- 10 :-GI Earthling -</b> Supplying & erecting GI earth plate size 60x 60x6 cms complete with all materials, testing & recording results as per specifications . As per IS 3043-1987 & as directed by engineering in charge.					
47.1	For Other Pumping Station	50	each	2052.75	Rupees Two Thousand & Fifty Two - Paise Seventy Five Only	102637.50

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
47.2	For Golwadi Pumping Station	20	each	2070.24	Rupees Two Thousand & Seventy - Paise Twenty Four Only	41404.80
47.3	For Zalta Pumping Station	10	each	2070.24	Rupees Two Thousand & Seventy - Paise Twenty Four Only	20702.40
48	<b>Item no- 11 :-Copper Earthling -</b> Supplying & erecting copper earth plate size 30 x 30 x 0.6 cms complete with all materials, testing & recording results as per specifications . As per IS 3043-1987 & as directed by engineering in charge.					
48.1	For Other Pumping Station	50	Each	3301.2	Rupees Three Thousand Three Hundred & One - Paise Twenty Only	165060.00
48.2	For Golwadi Pumping Station	10	Each	3321.03	Rupees Three Thousand Three Hundred & Twenty One - Paise Three Only	33210.30
48.3	For Zalta Pumping Station	10	Each	3321.03	Rupees Three Thousand Three Hundred & Twenty One - Paise Three Only	33210.30
49	<b>Item No. 12 :-Earthling Strip</b>					
49.1	Providing erecting GI earth strip For Other Pumping Station.	1200	Kg	103.95	Rupees One Hundred & Three - Paise Ninety Five Only	124740.00
49.2	Providing, erecting CU earth strip For Other Pumping Station.	600	Kg	647.85	Rupees Six Hundred & Fourty Seven - Paise Eighty Five Only	388710.00
49.3	Providing erecting GI earth strip For Golwadi Pumping Station.	300	Kg	105.06	Rupees One Hundred & Five - Paise Six Only	31518.00

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
49.4	Providing, erecting CU earth strip For Golwadi Pumping Station.	100	Kg	648.96	Rupees Six Hundred & Fourty Eight - Paise Ninety Six Only	64896.00
50	<b>Item No. 13 :- Pipe type earthing</b> Providing erecting pipe type earthing with double earthing to the all equipments as per Detailed specifications.					
50.1	For Other Pumping Station	24	Each	779.1	Rupees Seven Hundred & Seventy Nine - Paise Ten Only	18698.40
50.2	For CIDCO Pumping Station	6	Each	827.40	Rupees Eight Hundred & Twenty Seven - Paise Forty Only	4964.40
50.3	For Golwadi Pumping Station	6	Each	837.63	Rupees Eight Hundred & Thirty Seven - Paise Sixty Three Only	5025.78
50.4	For Zalta Pumping Station	6	Each	780.09	Rupees Seven Hundred & Eighty - Paise Nine Only	4680.54
51	<b>Item No. 14 :- Tools</b> Providing Tools as per Detailed specification enclosed.	7	Lot	66823.05	Rupees Sixty Six Thousand Eight Hundred & Twenty Three - Paise Five Only	467761.35
52	<b>Item No. 15 :- In door lighting</b> The lighting shall comprise fluorescent - 4 nos Bulkhead fitting - 3 nos D.B. - 2 nos Suitable size conductors with fuses, switches including H.G. conduit etc.					
52.1	For Other Pumping Station.	6	Job	13314	Rupees Thirteen Thousand Three Hundred & Fourteen Only	79884.00

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
52.2	For Golwadi Pumping Station.	1	Job	45476.55	Rupees Fourty Five Thousand Four Hundred & Seventy Six - Paise Fifty Five Only	45476.55
53	<b>Item No. 16 :- Area lighting</b> The area lighting shall comprise 2 250 w mercury vapour lamps with and mounted on tubular swivelled pole 7 m high including ballast, condensor,fuse reflector,cable and control switch etc out of the two lams.one shall be in the substation yard and the second lamp shall be erected for area lighting.					
53.1	For Other Pumping Station.	6	Job	40672.97	Rupees Fourty Thousand Six Hundred & Seventy Two - Paise Ninety Seven Only	244037.82
53.2	For Golwadi Pumping Station.	1	Job	64108.35	Rupees Sixty Four Thousand One Hundred & Eight - Paise Thirty Five Only	64108.35
54	<b>Item No. 17 :- Diesel Generating Set</b> Supplying Erecting diesel generating set 350 KVA capacity with AMF Panel as per Detailed specification with water cooled engine set including inspection charges.					
54.1	Diesel Generating set 350 KVA capacity with AMF Panel For Banewadi Pumping Station.	1	Each	2669942.1	Rupees Twenty Six Lakh Sixty Nine Thousand Nine Hundred & Fourty Two - Paise Ten Only	2669942.10

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
54.2	Diesel Generating set 350 KVA capacity with AMF Panel For CIDCO Pumping Station. inspection charges.21%	1	Each	1059731.40	Rupees Ten Lakh Fifty Nine Thousand Seven Hundred & Thirty One - Paise Fourty Only	1059731.40
54.3	Diesel Generating set 2000 KVA capacity with AMF Panel For Golwadi Pumping Station. inspection charges.21%	1	Each	10760006.25	Rupees One Crore Seven Lakh Sixty Thousand & Six - Paise Twenty Five Only	10760006.25
54.4	Diesel Generating set 180 KVA capacity with AMF Panel For Padegaon Pumping Station.	1	Each	1657366.20	Rupees Sixteen Lakh Fifty Seven Thousand Three Hundred & Sixty Six - Paise Twenty Only	1657366.20
54.5	Diesel Generating set 100 KVA capacity with AMF Panel For Sidharth Garden Pumping Station.	1	Each	161732.55	Rupees One Lakh Sixty One Thousand Seven Hundred & Thirty Two - Paise Fifty Five Only	161732.55
54.6	Diesel Generating set 100 KVA capacity with AMF Panel For Ward No. 98 Pumping Station.	1	Each	161732.55	Rupees One Lakh Sixty One Thousand Seven Hundred & Thirty Two - Paise Fifty Five Only	161732.55
54.7	Diesel Generating set 500 KVA capacity with AMF Panel For Zalta Pumping Station. inspection charges.21%	1	Each	4111380	Rupees Fourty One Lakh Eleven Thousand Three Hundred & Eighty Only	4111380.00
<b>Total Cost (Rs.)</b>						<b>204270200.06</b>

Signature of Contractor

No. of Corrections

Executive Engineer



**SCHEDULE B FOR PART B – B 1 (PERCENTAGE RATE CONTRACT)**

**Name of Work: - Designing, Providing, lowering, Laying, testing and commissioning of sewer pumping main from Golwadi Pumping Station to Nakshatrawadi STP and from Ward No. 98 pumping stations to Nakshatrawadi STP in Aurangabad city.**

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
	<b>Rising Main</b>					
1	<b>Item No. : 1</b> Providing & supplying Glass fibre reinforced polyester pipes confirming to BIS 12709 / BIS 14402 with double bell REKA - GRP couplings EPDM rubber gaskets for sealing of following pressure diameter and stiffness class including cost of all material and labour required cost of all taxes (Central and local) insurance, transportation to site of work / store unloading and stacking etc. complete.					
1.1	1500 mm dia. ,GRP Pipe	1600.00	RMT	14366.56	Rupees Fourteen Thousand Three Hundred & Sixty Six - Paise Fifty Six Only	22986496.00
2	<b>Item No. : 2</b> Providing D.I.K-9 grade pipes with internal cement mortar lining including all taxes, insurance, railway freight, unloading from railway wagon, loading into truck, transport to departmental store/ site, unloading, stacking, etc, complete.					
2.1	450mm dia. , Ductile Iron K-9	1775.00	RMT	6539.52	Rupees Six Thousand Five Hundred & Thirty Nine - Paise Fifty Two Only	11607648.00

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
3	<b>Item No. : 3</b> Providing and supplying ISI standard D.I. specials and fittings with sealing rubber gasket of S.B.R. complete with Cast Iron follower gland and M.S. nut and bolts coated or otherwise protected from rusting and suitable for D.I. pipes including cost of all labour and material and transportation transportation to stores/ site, loading, unloading including all taxes , etc. complete for all types of specials, tees, bends, etc					
3.1	a) 80 to 300 mm dia	1250	KG	107.00	Rupees One Hundred & Seven Only	133750.00
3.2	b) 350 mm and above	7900	KG	130.00	Rupees One Hundred & Thirty Only	1027000.00
4	<b>Item No. : 4</b> Providing and supplying double flanged short body pattern type manually operated Butterfly Valve having body, disc and end cover in graded cast iron to IS210 Gr. FG 200 generally conforming in BS 5155, Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel riding in Teflon bearing excluding C.C. foundation / structural steel support conforming to IS 13095-1991.					
4.1	900 mm diameter PN1.0 Butterfly Valves	1.00	No	313433.12	Rupees Three Lakh Thirteen Thousand Four Hundred & Thirty Three - Paise Twelve Only	313433.12

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT	
				Figure	Words	Rs.	P
5	<b>Item No. : 5</b> Providing and supplying double flanged non rising stem type sluice valve having body, disc and end cover in graded cast iron to IS 210 Gr. FG 200 generally conforming in BS 558, Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel riding in Teflon bearing excluding C.C. foundation / structural steel support confirming to IS 14846-2000 including all central and local taxes, octroi, third party inspection charges, railway freight, unloading from railway wagons loading into truck and transportation to departmental stores stacking etc. complete. Sluice valves as per I.S.14846-2006						
5.1	400 mm dia. Sluice valve PN1.0	1.00	No	75089.04	Rupees Seventy Five Thousand & Eighty Nine - Paise Four Only	75089.04	
5.2	600 mm dia. Sluice valve PN 1.0	1.00	No	174310.24	Rupees One Lakh Seventy Four Thousand Three Hundred & Ten - Paise Twenty Four Only	174310.24	
5.3	100 mm dia Sluice valve PN1.0	1	No	11374.00	Rupees Eleven Thousand Three Hundred & Seventy Four Only	11374.00	
6	<b>Item No. : 6</b> Providing and supplying Kinetic double Orifice type Ant temper Air Valves as per IS 14845 standard specifications having small orifice elastic ball resting on a gun metal orifice nipple, large orifice stainless steel float seating on moulded seat ring, with built-in Kinetic features, isolating sluice valve mounted in horizontal position and operated by wheel gearing, inlet face and drilled.						

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
6.1	80 mm dia. Air valve	3.00	No	15916.16	Rupees Fifteen Thousand Nine Hundred & Sixteen - Paise Sixteen Only	47748.48
6.2	200 mm dia. Air valve	3.00	No	58925.36	Rupees Fifty Eight Thousand Nine Hundred & Twenty Five - Paise Thirty Six Only	176776.08
	<b><u>LABOUR</u></b>					
7	<b><u>Item No. : 7</u></b> Excavation for pipe trenches in earth soils of all types of sand gravel and soft murum and hard murum including removing the excavated material up to a distance of 50 meters and lift as below stacking and spreading as directed dewatering shoring and strutting preparing the bed for the foundation including refilling the trench etc. complete.					
7.1	Lift 0 to 1.5 m	4026.72	Cum	158.50	Rupees One Hundred & Fifty Eight - Paise Fifty Only	638235.12
7.2	Lift 1.5 to 3.0 m	2168.15	Cum	170.27	Rupees One Hundred & Seventy - Paise Twenty Seven Only	369170.90
8	<b><u>Item No. : 8</u></b> Excavation for pipe trenches in soft rock and hard rock by blasting including trimming and levelling the bed by chiselling where necessary and removing the excavated material and stacking it in measurable heaps within a distance of 50 M from the area and lifts as below normal dewatering, including backfilling etc. complete.					
8.1	Lift 0 to 1.5 m	4026.72	Cum	576.73	Rupees Five Hundred & Seventy Six - Paise Seventy Three Only	2322330.23

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No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
8.2	Lift 1.5 to 3.0 m	2168.15	Cum	598.13	Rupees Five Hundred & Ninety Eight - Paise Thirteen Only	1296835.56
9	<b>Item No. : 9 Dewatering</b> 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), etc. complete.					
9.1	2 Nos of 5 HP pumps @ 12 hrs working per day for 30 days	21600.00	Cum	62.92	Rupees Sixty Two - Paise Ninety Two Only	1359072.00
10	<b>Item No. : 10</b> Lowering, laying and jointing with SBR rubber gaskets DI K-9 S/S pipes with DI specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of material from stores to site of work, including cost of jointing material from stores to site of work including cost of jointing materials and rubber rings, labour, giving hydraulic testing etc. complete.					
10.1	450mm dia. , Ductile Iron K-9	1775.00	RMT	221.55	Rupees Two Hundred & Twenty One - Paise Fifty Five Only	393251.25
11	<b>Item No. : 11</b> Lowering laying and jointing in proper grade and alignment Prestressed cement concrete pipe with rubber ring joint including cost of conveyance from store to site of work all labour involved giving hydraulic test etc complete but excluding cost of rubber ring ( For all class of pipes )					
11.1	1500mm dia. ,GRP Pipe	1600.00	RMT	519.23	Rupees Five Hundred & Nineteen - Paise Twenty Three Only	830760.00

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
12	<b>Item No. : 12</b> Lowering, laying and jointing in position following diameter C.I.D.F. sluice valves and butterfly valves including cost of all labour, hydraulic testing etc. complete.					
12.1	400 mm dia. Sluice valve PN1.0	1.00	No	6491.10	Rupees Six Thousand Four Hundred & Ninety One - Paise Ten Only	6491.10
12.2	900 mm diameter PN1.0 Butterfly Valves	1.00	No	12742.80	Rupees Twelve Thousand Seven Hundred & Forty Two - Paise Eighty Only	12742.80
13	<b>Item No. : 13</b> Lowering, laying, and fixing in proper alignment and position all types of C.I. air valves as directed by Engineer-in-charge including cost of conveyance from stores to site of work, cost of all material and giving satisfactory hydraulic testing etc. complete ( for all class of valves ).					
13.1	80 mm dia. Air valve	3.00	No	267.75	Rupees Two Hundred & Sixty Seven - Paise Seventy Five Only	803.25
13.2	200 mm dia. Air valve	3.00	No	442.05	Rupees Four Hundred & Fourty Two - Paise Five Only	1326.15
14	<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 precast SFRC frame and cover, etc. complete as directed by Engineer-in-charge.					

Signature of Contractor

No. of Corrections

Executive Engineer

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
14.1	Butterfly Valve 2.5 x 2.5 m	10.00	No	18768.87	Rupees Eighteen Thousand Seven Hundred & Sixty Eight - Paise Eighty Seven Only	187688.70
15	<b>Item No. : 15</b> Refilling the trenches with available stuff with soft material first over pipe line and then hard material in 15 cm layer with all leads and lifts involved consolidation surcharging etc. Complete.	9190.65	Cum	62.92	Rupees Sixty Two - Paise Ninety Two Only	578275.70
16	<b>Item No. : 16</b> Disposing of surplus excavated stuff at distance of 5 km or as directed by engineer in charge.	3199.32	Cum	61.79	Rupees Sixty One - Paise Seventy Nine Only	197685.98
17	<b>Item No. : 17</b> Pipe Encasing and thrust blocks for the pipeline by encasing the pipe with RCC 1:2:4 including all material, labour, mechanical mixing, compaction, curing etc. complete as directed by Engineer in-charge	119.69	Cum	5300.30	Rupees Five Thousand Three Hundred - Paise Thirty Only	634392.91
18	<b>Item No. : 18</b> Providing steel bar reinforcement for pipe encasing, thrust block, pile foundation, pile cap, and pedestal as per IS: 1786 High Yield Strength Deformed Bars etc. complete. as per specifications etc complete as directed by Engineer-In- Charge.	3.68	MT	61496.40	Rupees Sixty One Thousand Four Hundred & Ninety Six - Paise Fourty Only	226306.75
19	<b>Item No. : 19</b> Providing and filling in sand boxing in pipeline or for foundation with sand of approved quality including watering compaction, etc. complete.	6321.60	Cum	912.28	Rupees Nine Hundred & Twelve - Paise Twenty Eight Only	5767069.25
<b>Total Cost (Rs.)</b>						<b>51376062.61</b>

Signature of Contractor

No. of Corrections

Executive Engineer

## OPERATION AND MAINTENANCE OF THE SEWERAGE NETWORK, STP, SPS AND FACILITIES

**\*Name of Work: - Operation and Maintenance of the entire sewerage project including sewerage network, pumping station. Sewage treatment plants and allied duties for 10 years.**

Sl. No.	Description of work	Qty.	Unit	Estimated Rate		AMOUNT	
				Figure	Words	Rs.	P
1	* Operation and Maintenance (O&M) of the entire sewerage project including sewerage network, pumping station. Sewage treatment plants and allied duties for 10 years.						
	For Year 1 of O & M	12	Month				
	For Year 2 of O & M	12	Month				
	For Year 3 of O & M	12	Month				
	For Year 4 of O & M	12	Month				
	For Year 5 of O & M	12	Month				
	For Year 6 of O & M	12	Month				
	For Year 7 of O & M	12	Month				
	For Year 8 of O & M	12	Month				
	For Year 9 of O & M	12	Month				
	For Year 10 of O & M	12	Month				

Note: Include Taxes and Duties

\* Rates to be quoted for evaluation purpose only. The rates will not be part of Part A and Part B of the commercial bid.

Signature of Contractor

No. of Corrections

Executive Engineer



**SUMMARY FOR EVALUATION PURPOSE ONLY**

Sr.no	Description	Total Cost (Rs)
1	Total Cost of Part A	
2	Total Cost of Part B	
3	Total Cost of Operation and Maintenance for 10 years	
	Total Cost (Rs)	

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

Duly authorized to sign tenders for & on behalf of \_\_\_\_\_

Address:

Occupation:

Signature of Contractor

No. of Corrections

Executive Engineer

### PAYMENT SCHEDULE FOR PART “A”

**PART A :** Designing, Constructing, Erecting and Commissioning of Sewage Treatment Plant based on modern technology including all necessary civil, electrical and mechanical, instrumentation items and all allied works , etc complete. at following places.

- a) Nakshatrawadi STP- 136.50 MLD
- b) Banewadi STP- 30 MLD
- c) Siddarth Garden STP - 4.5 MLD
- d) Zalta STP - 20 MLD
- e) Padegaon STP - 10 MLD
- f) CIDCO STP- 15 MLD

#### Pro-rata payment for Part completion shall be admissible

SR. NO	DESCRIPTION	PERCENTAGE
<b>I</b>	<b>PRELIMINARY WORK PAYMENT SCHEDULE</b>	
1	Submission of Process Design	4.0%
2	Approval of Process Design (Engineer & Appd.)	2.0%
3	Submission of RCC, Mechanical, Electrical & Instrumentation Design	2.5%
4	Approval of RCC, Mechanical, Electrical & Instrumentation Design	0.5%
	Total	<b>9.0%</b>
<b>II</b>	<b>CONSTRUCTION WORK PAYMENT SCHEDULE</b>	
<b>1</b>	<b>Civil Works – Total 30%</b>	
	Foundation work	5.0%
	Raft Slab up to invert level including PCC	3.0%
	RCC Walls including Walkways	4.0%
	Fine Screen Chambers	3.0%
	Degriting Units	3.0%
	Sludge Sump & Centrifuge Unit	3.0%
	Sewerage Network in the STP Premises	2.0%
	Hydraulic Test of Water Retaining Structures Completion	4.0%
	Administration Building	7.5%
	Roads	0.5%
	<b>Total</b>	<b>35.0%</b>
<b>2</b>	<b>Mechanical Works – Total 35%</b>	
	Fine Screens	1.5%
	Detritus	1.5%
	Aeration Assembly (including Diffuse and Air Grid)	3.0%
	Air Blowers	2.0%
	Treated Water draw off unit	6.0%
	Return Pumps	2.0%
	Chlorination System	2.0%
	Centrifuge Feed pumps and Centrifuges	2.0%
	Chemical Dosing System	3.0%
	Interconnection Pipe Work (on prorata basis)	13.0%
	<b>Total</b>	<b>36.0%</b>
<b>3</b>	<b>Electrical Works – Total 11%</b>	

Signature of Contractor

No. of Corrections

Executive Engineer

SR. NO	DESCRIPTION	PERCENTAGE
	HT Substation	2.0%
	PCC	1.0%
	MCC	1.0%
	Cabling	2.0%
	Lighting Distribution Boards / Misc Panels / Area Lighting/ Building Illumination	2.0%
	PLC & PLC Panel	1.0%
	Field Instruments	1.0%
	<b>Total</b>	<b>10.0%</b>
<b>4</b>	<b>Successful Completion of Sewage Treatment Plant</b>	<b>10.0%</b>

### PAYMENT SCHEDULE FOR PART B

1.	Designing, Providing, Lowering, Laying, Testing and Commissioning and Improvement in Sewerage Network System of all zones of Aurangabad city, including condition assessment of Existing sewerage network.
2.	Designing, Constructing, Erecting and Commissioning of seven numbers (6 Terminal + 1 Intermediate) Sewage pumping stations and pump house including all necessary civil, electrical and mechanical, instrumentation items and all allied works , etc complete.
3.	Designing, Providing, lowering, Laying, testing, of sewer pumping main from Golwadi Pumping Station to Nakshatrawadi STP and from Ward No. 98 pumping stations to Nakshatrawadi STP in Aurangabad city.

### PIPES AND VALVES

SR. NO	DESCRIPTION	PERCENTAGE
<b>A</b>	<b>Providing of Pipes, Valves</b>	
1	On Supply of pipes and valves with requisite test report after third part inspection	70%
2	After lowering, Laying, jointing, fixing and installation	15%
3	After hydraulic testing	15%
<b>B</b>	<b>Lowering, laying and jointing with cost of jointing material labour etc.</b>	
1	After laying and jointing	70%
2	After hydraulic testing	15%
3	After satisfactory refilling	15%

Signature of Contractor

No. of Corrections

Executive Engineer

**PAYMENT SCHEDULE FOR PUMPING STATION**

Sr. No.	DESCRIPTION	PERCENTAGE
<b>I</b>	<b>PRELIMINARY WORK PAYMENT SCHEDULE</b>	
1	Submission of RCC, Mechanical, Electrical & Instrumentation Design	2.0%
2	Approval of RCC, Mechanical, Electrical & Instrumentation Design	2.0%
	<b>Total</b>	<b>4.0%</b>
<b>II</b>	<b>CONSTRUCTION WORK PAYMENT SCHEDULE</b>	
<b>1</b>	<b>Civil Works – Total 30%</b>	
	Excavation work	5%
	Raft Slab including PCC	2%
	RCC Walls and Column Structures, staircase Walkways up to Floor level	4%
	Coarse Screen Chambers	3%
	RCC works for pump House	7%
	Brick Masonary, Doors and Windows	5%
	Plastering and Flooring, Painting, Railing, misc works etc	2%
	Hydraulic Test of Water Retaining Structures Completion	2%
	<b>Total</b>	<b>30.0%</b>
<b>2</b>	<b>Mechanical Works – Total 43%</b>	
	Coarse Screens	5%
	Raw Sewage pumps	15%
	Pumping mains and valves, gates	5%
	EOT and girder fixing	5%
	Interconnection Pipe Work (on prorata basis)	13%
	<b>Total</b>	<b>43%</b>
<b>3</b>	<b>Electrical Works – Total 13%</b>	
	HT Substation	2%
	PCC	1%
	MCC	1%
	Cabling	2%
	Lighting Distribution Boards / Misc Panels / Area Lighting/ Building Illumination	2%
	PLC & PLC Pannel	1%
	Field Instruments	1%
	DG Set	3%
	<b>Total</b>	<b>13%</b>
<b>4</b>	<b>Successful Completion of Sewage Pumping Station</b>	<b>10%</b>

Signature of Contractor

No. of Corrections

Executive Engineer