

# RAJKOT MUNICIPAL CORPORATION

e - Tender No. RMC/ENGG/EZ/22-23/



## Bid Documents For

**PROVIDING, LOWRING, LAYING, JOINTING, TESTING AND  
COMMISSIONING DI PIPELINE DISTRIBUTION NETWORK AND  
CONSTRUCTION OF 5 LAC LITRES CAPACITY ESR FOR MANCHHANAGAR  
AREA IN WARD NO.5 (UNDER AMRUT 2.0, SIX ATTEMPT)**

**Volume-III  
Price bid**



### Milestone Dates for e-tendering is as under

1. Downloading of e-Tender documents	18/09/2023 To 07/10/2023 up to 11.00 Hrs.
2. Pre-bid meeting in the O/o City Engineer at <b>EAST ZONE</b>	25/09/2023 at 17:00 hrs
3. Online submission of e - Tender	07/10/2023 up to 18.00 Hrs.
4. Physical submission of EMD, Tender fee and other documents required as per Financial and Experience criteria by Regd. Post. A.D. / Speed Post ONLY	10/10/2023 up to 18.00 Hrs.
5. Opening of online tender	11/10/2023 at 11.00 Hours onwards
6. Verification of submitted documents (EMD, e - Tender fee, etc.)	12/10/2023 at 11.00 Hours onwards
7. Agency to remain present in person along with original documents for verification	12/10/2023 between 11.00 to 16.00 Hours
8. Opening of Price Bid (If possible)	13/10/2023 at 11.00 Hours onwards
9. Bid Validity	180 Days
For further details, pre-qualification criteria etc. visit <a href="http://www.rmc.nprocure.com">www.rmc.nprocure.com</a>	

**2022-23**

**CITY ENGINEER  
RAJKOT MUNICIPAL CORPORATION  
ZAVAR CHAND MEGHANI BHAVAN EAST  
ZONE OFFICE, BHAVNAGAR MAIN ROAD,  
RAJKOT-360003(GUJARAT)**

**PART-III**  
**BILL OF QUANTITIES**  
**(Attached in Separate Folder)**

**BID FORM(WITH PRICE)**

(Bidders are required to fill up all blank spaces in this Bid Form)

**CONTRACT No:** RMC/ENGG/EZ/22-23/

The Commissioner  
Rajkot Municipal Corporation  
Dr. Ambedkar Bhavan  
Dhebar Road  
Rajkot

Dear Sir,

**SUB : PROVIDING, LOWRING, LAYING, JOINTING, TESTING AND COMMISSIONING DI PIPELINE DISTRIBUTION NETWORK AND CONSTRUCTION OF 5 LAC LITRES CAPACITY ESR FOR MANCHHANAGAR AREA IN WARD NO.5 (UNDER AMRUT 2.0)**

1. Having visited the site and examined the Bid Documents, Drawings, Conditions of Contract, Specifications, Schedules, Annexures, Preamble to Price Schedules, Price Schedules etc. including Addenda/Amendments to the above, for the execution of the above Contract, we the undersigned offer to carry out as given in Conditions of Contract and in conformity with the Drawings, Conditions of Contract, Specifications, Preamble to Price Schedules, Price Schedules, Annexures, Bidding Documents, including Addenda Nos. \_\_\_\_\_ (insert numbers) for (quoted online) %age below / above than the rates given in Price Schedule.
2. I / We agree that
  - (a) if we fail to provide required facilities to the Employer's representative or any other person/agency by the employer to perform on his behalf for carrying out the inspection and testing of materials and workmanship  
or
  - (b) if we incorporate into the Works, materials before they are tested and approved by the Engineer's representative  
or
  - (c) if we fail to deliver raw water of required quantity according to the conditions/stipulations of the Contract, the Engineer-in-charge will be at liberty to take any action including termination of Contract and impose at his absolute discretion any penalties, and/or reject the work.

3. We undertake, if our Bid is accepted, to complete and deliver the Works in accordance with the Contract within **18 months** of construction period from the date of Work Order issued to us by you.
4. We agree to abide by this Bid for a 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 expiry of that period.
5. In the event of our Bid being accepted, we agree to enter into a formal Contract Agreement with you within 10 days incorporating the conditions of Contract thereto annexed but until such agreement is prepared this Bid together with your written acceptance thereof shall constitute a binding Contract between us.
6. We agree, if our Bid is accepted, to furnish Performance Bond/Security in the forms and of value specified in the Conditions of Contract of a sum equivalent to 5% of the Contract price for due performance of the Contract.(as per condition no.GC 10 of volume I)
7. We have independently considered the amounts of liquidated damages shown in Appendix to Bid and agree that they represent a fair estimate of the damages likely to be suffered by you in the event of the Work not being completed by us in time.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 2023.

\_\_\_\_\_  
(Signature)

Company Seal

\_\_\_\_\_  
(Name of the person)

\_\_\_\_\_  
(Name of firm)

\_\_\_\_\_  
(In the capacity of)

Duly authorised to sign Bid for and on behalf of

(Fill in block capitals)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness

Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

I/We have enclosed a DEMAND DRAFT as an "**Earnest Money Deposit**", for the sum of **Rs. 2,86,441/-** the full value of which is to be absolutely forfeited to the Employer should I/We fail to commence the works specified. Otherwise the said sum shall be retained, by the Employer as on account of such 'Security Deposit' as provided for in the aforesaid documents.

I/We agree not to employ Sub-contractors other than those that may be approved in accordance with conditions in the aforesaid documents.

I/We understand that you are not bound to accept the lowest or any tender which you may receive.

I/We am/are bound to execute the job if the work order is issued within **180 Days** from the date of opening of the tender.

I/We agree to pay the Government Income-Tax and other taxes prevailing from time to time on such items on which the same are levied and the rates quoted by me/us are inclusive of the same except GST

Yours faithfully,

---

Signature of Contractor

Date: \_\_\_\_\_

Address:

# PREAMBLE TO PRICE SCHEDULES

### **Note on Schedule:**

The bid is percentage rate bid for **PROVIDING, LOWRING, LAYING, JOINTING, TESTING AND COMMISSIONING DI PIPELINE DISTRIBUTION NETWORK AND CONSTRUCTION OF 5 LAC LITRES CAPACITY ESR FOR MANCHHANAGAR AREA IN WARD NO.5 (UNDER AMRUT 2.0)**

1. The whole work is to be done under the supervision of RMC.
2. Before starting the work, the details survey has to be done by the contractor and shall have to prepare and submit Survey and Level drawings in soft copy (Auto Cad) and Hard copy, and has to mark permanent levels at all necessary locations for Reference, for which, no extra payment will be made by Rajkot Municipal Corporation. After permission / approval from the engineering in charge, the work will have to be executed accordingly on site.
3. The rates and prices shall be submitted in the formats given in the enclosed Price Schedules. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
4. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reasons whatsoever.
5. In Price Schedule, bidder shall quote his percentage Equal/Above/Below for items listed in the schedule. Prices quoted in Schedule only will be considered for price evaluation & shall form a part of the Contract Agreement.
6. Only Price Schedule will be considered for financial evaluation of the bid with the successful bidder.
7. The bidder shall be deemed to have allowed in his price for provision, maintenance and final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, dewatering, etc. for the proper execution of works. The rates shall also be deemed to include any works and setting out that may be required to be carried out for laying out of all the works involved.
8. Where there is a discrepancy between the unit rates and the amount entered, in the price schedule the latter shall govern.
9. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.

10. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.
11. The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
12. The prices quoted shall also include the cost of materials utilized for testing.
13. The bidder should acquaint himself with the site conditions including the access to Worksite. The successful bidder shall have to make suitable access to worksites at his own cost. These accesses will be used by the other contractors working for RMC.
14. From each Running Account Bill, labour cess will be deducted as per norms.
15. The quoted rates should be inclusive of all taxes and duties except GST.
16. The prices shall have to be quoted firm & fix including all the taxes & duties without any statutory variation except GST. RMC will not consider any statutory variation as well as the price rise in the market and if any, those shall be on account of contractor.
17. The work contract tax will be borne by the agency.
18. Use of ready mix concrete may be permitted if it fulfils tender specifications.
19. No extra item or extra width will be paid due to excavating method or type of machinery.
20. For any type of license regarding labour, etc. has to be achieved by agency.
21. Appendix - P mentioned in tender is a sample format. The bidder shall furnish the details of concern tender and financial terms shall be certified by Chartered Accountant.
22. In Every running bill 0.25% amount shall be retained as extra security deposit if Drawings of work done are not submitted by agency.
23. As Road restoration is the responsibility of work contract agency, in Every running bill 0.50% amount shall be retained as extra security deposit for purpose all trenches must be back filled by excavated stuff so that vehicular movement

remains smooth this deposit will be released after completion of the project

24. This office Circular bearing No. RMC/C/329 dated 22-12-2012 and Order No. RMC/C/132 dated 10-06-2013 are uploaded in tender document. The Contractors quoting their rates Above/Below shall have to read, implement, and submit the same duly signed along with the will be documents to be submitted during physical submission.
25. In reference to the above Circular and Order cited at above, the Contractor firm who have quoted their rates for this work will be called in person for verification of original documents. The date and time for verification of original documents will be intimated to the Contractors.
26. The routes and levels shown in the maps are indicative and not final. There are possibilities of change in routes and levels at the time of execution of work and due to which the diameter of pipeline and depth of drainage line may increase or decrease. Under the circumstances, the contractor shall have to carry out the work accordingly at the approved rates without any extra cost. Rajkot Municipal Corporation will not entertain any dispute in this regard.
27. The contractor shall have to carry out the Sub-soil strata investigation at his own cost.
28. final payment will be made after carrying out hydro test of the all components of the project
29. If the progress of work is found slow then Extra security Deposit may be recovered from any running bill as decided by Engineer in charge up to maximum 5% amount of concerned R.A. Bill amount.
30. Wherever the sanction from Forest and State High Way (R & B) department is required that has to be procured and also any other sanction of any other Institute/Authority is required contracting agency shall have to arrange itself i.e. whole liaison shall be on account of working agency. However, if required, RMC will recommend for the same wherever necessary. The expenditure incurred for this type sanctions will be reimbursed by RMC on submission of necessary documentary evidence like; Receipt, as proof.
31. Blasting may not be permitted in the areas having dense population or any other unsuitability.
32. Big machinery may not enter in the areas having narrow streets (3

to 4 Mtr. wide).

33. Kachcha houses shall not be get damaged. Considering this, manual labour work is more feasible in these types of areas.
34. No extra item or extra width will be paid due to excavating method or type of machinery.
35. The bidders are advised to visit the project area and get acquainted with the local condition as the said area is residential area with numbers of underground utility services like water supply pipe line, sullage water pipe line, gas pipeline, telephone/electric cable, KHALKuVAS etc, which requires to be maintained during the progress of work. The safety of the work is prime important factor and all the bidder should be very much vigilant for the same. Thus, there may be some locations where clear ROW or ROU may not be available due to certain reasons like TP Road open Issues, Permissions etc. If work of that much location is affected due to such reasons time limit may be extended considering that non-working period but in no case Price Escalation will be given for that extended period.  
Thus, it is to be clear that to work within utility services is a part of this work. If utilities are affected, it shall be the responsibility of contractor to make same as it was as before. The expenditure and arrangement shall be bear by contractor.
36. In case of Extra Item, No **"On"** %age i.e. +ve % age Rate will be given but if there is Down %age i.e, -ve % age Rate that will be applied to that rate of that Extra Item.
37. Before procurement of Material the Quality Assurance Plan (QAP) shall be approved by RMC. QAP for approval shall be submitted in 3 Original copy duly signed and stamped by Manufacturer, PMC/PMC and Tenderer, The draft QAP has been attached herewith.
38. The contractor shall have to quote their rates including all types of taxes except GST. GST will be paid after producing necessary documents.  
  
The contractor shall have to purchase the material required for this tender work, only from the supplier having registered GST Number. RMC will not be responsible to pay any amount towards GST if the material is purchased from the unregistered supplier not having GST Number.
39. The contractor shall be responsible for Railway Crossing, Highway crossing etc and the detailed design shall have to be provided by the contractor and carry out the same, for which, payment will be made as per norms.

40. The contractor shall have to obtain the approval from the concerned authorities for level crossing, Highway, Gas etc. However, Rajkot Municipal Corporation will extend its cooperation in obtaining the approval. The charges as per norms shall be paid by the agency and same will be reimbursed by Rajkot Municipal Corporation.
41. Engineering Store of Rajkot Municipal Corporation will accept the un-utilized D I Pipes 100% whereas the fittings / specials upto **10%** of the quantity actually as may be confirmed at the time of work order.
42. **Scope of Testing period:** During the testing period, agency will have to look after the maintenance and rectification of fault, if any. No extra payment will be made by RMC for this purpose.
43. Only for existing house connection, if additional pipe is to be provided over and above the 5 mt. for 15 mm connection then additional payment is to be made Acceptable (Rate of only 15 mm dia pipeline as per the rates of SOR of RMC).
44. e-Tender price:  
The tender price ( Pipe/specials Supply as shown in above scope of work and as per the detailed specifications + Labor work for laying jointing, testing & commissioning) shall include all materials, labor, tools and tackles, plant and machinery etc. necessary for the proper manufacture of pipes and specials and for tests at the contractor's works, for insurance and for delivery to RMC's store or site of works indicated in the project area

according to dispatch schedule and for laying and testing on site etc.

The rates quoted by the contractor online in the given price bid ( Pipe /specials Supply + Labor work for laying jointing, testing & commissioning) shall cover everything necessary for the due and complete execution of the work according to the drawings and other conditions and stipulations of the contract including specifications or the evident intent and meaning of all or either of them or according to customary usage and for periodical and final inspection and test and proof of the work in every respect and for measuring, numbering or weighing the same, including setting out and laying or fixing in positions and the provision of all materials, power, tools, rammers, labour, tackle, platforms with proper lapped joints for scaffolding, ranging rods, straight edges, centering and boxing, wedges, moulds, templates, posts, straight rails, boning-staves, strutting, barriers, fencing, lighting, pumping apparatus, temporary arrangement for passage of traffic, access to premises and continuance of drainage, water supply and lighting (if interrupted by contractor's work), temporary sheds, painting, varnishing, polishing, establishments for efficient supervision and watching arrangements for the efficient supervisions of life and property and all requisite plant and machinery of every kind except only such matter and things as it may be distinctly stated herein which are to be supplied to the contractor free. A rate for any one description of work is to be held to include such items of other classes of works as are obviously necessary for its due completion and for these no separate/specific charges will be admitted. The contractor shall keep every portion of the work clear of accumulation from time to time and shall leave every portion of the work clean, clear and perfect, at the conclusion of whole work at their own cost.

45. FDR or Bank Guarantee will not be acceptable towards Tender fee and Earnest Money Deposit.
46. Rajkot Municipal Corporation will engage PMC agency for pipe material inspection and testing at factory and to maintain the overall work supervision and quality control of the project. The PMC agency shall be from approved list of RMC or as decided by the competent authority of RMC. All necessary charges of PMC agency is to be borne by the contractor. The PMC charges is to be assumed 1.59% of the project cost (may be modified) which will be deducted from the bill of the agency and will paid to the PMC agency by contractor.

47. In case of damage to obstructing pipe line or other utilities is done by the agency then the rectification to the same and making it good shall have to be carried out by the agency at his own cost.
48. The contractor shall at his own cost fill up water in pipe line and given necessary hydraulic test section. water will be provided by the RMC (one time only ).
49. Available drawings shall have to be provided in soft copy as well as hard copy, for which, decision of engineer-in-charge will be final and binding to the agency.
50. After completion of work with all respect RMC will survey for reaming house connection work and shall be completed by agency in time period of 2 month.

**CITY ENGINEER**  
**Rajkot Municipal Corporation**

**Signature of Contractor**

### Check List for submission of Documents

Tender Fee submitted as per Tender	Yes / No
Tender Earnest Money Deposit submitted as per Tender	Yes / No
Registration documents submitted as per tender requirement	Yes / No
Information regarding Capability etc. as per clause No. <b>IT-12</b> (General Performance data) shall have to be submitted	Yes / No
All Appendixes shall have to be submitted physically duly filled	Yes / No
Declaration on Stamp paper of Rs.300/- regarding nowhere black listed / terminated / debarred	Yes / No
<b>Financial Details:</b>	
Turnover details submitted as per requirement	Yes / No
Working Capital as per requirement of tender is submitted	Yes / No
Valid Bank Solvency submitted	Yes / No
Validity of Bank Solvency	Date:
<b>Experience Details:</b>	
Details of Technical Staff and details of machineries submitted	Yes / No
Address proof submitted	Yes / No
Identity proof submitted	Yes / No
Fresh Declaration on Non-Judicial Stamp Paper regarding not black listed or Terminated or Debarred, is submitted	Yes / No
Professional Tax Receipt of current year	Yes / No

**Note : Over and above, the agency shall also have to submit all other necessary documents as may be required for pre-qualification, failing which, the agency will be treated as Non-responsive and will be DISQUALIFIED and also the online price bid of such agency will not be opened.**

**Signature of contractor with seal**

## **SCHEDULE – A**

**Schedule showing a material to be supplied from Rajkot Municipal Corporation stores at free of cost for use in work contracted and to be executed**

**Name of Work:**

**PROVIDING, LOWRING, LAYING, JOINTING, TESTING AND COMMISSIONING DI PIPELINE DISTRIBUTION NETWORK AND CONSTRUCTION OF 5 LAC LITRES CAPACITY ESR FOR MANCHHANAGAR AREA IN WARD NO.5 (UNDER AMRUT 2.0)**

<b>Sr.</b>	<b>Particulars</b>	<b>Qty.</b>	<b>Rate at which material will be charged to the contractor</b>	<b>Total Amount</b>
1	NA			
			<b>Total</b>	
			<b>Say</b>	
Note No.1	The Contractor shall have to make his own arrangement for procuring the cement required for the work from open market. Cement shall be ordinary Portland cement confirming to IS 269. Or IS 8112 Grade 43/53 of repute make only. No mini-plant cement shall be allowed.			
Note No.2	The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Engineer-in-charge for the issue of the firm prior to submission of the tender.			
Note No.3	Material not included in "SCHEDULE – A" but required for the work shall be provided by the contractor and cost of such material shall be included in the respective tendered items by the contractor.			

**Asst. Engineer  
Rajkot Muni. Corporation**

**Dy. Executive Engineer  
Rajkot Muni. Corporation**

**City Engineer  
Rajkot Muni. Corporation**

# PRICE SCHEDULE

## Rajkot Municipal Corporation Price Schedule – B

**NAME OF WORK:- PROVIDING, LOWRING, LAYING, JOINTING, TESTING AND COMMISSIONING DI PIPELINE DISTRIBUTION NETWORK AND CONSTRUCTION OF 5 LAC LITRES CAPACITY ESR FOR MANCHHANAGAR AREA IN WARD NO.5 (UNDER AMRUT 2.0)**

Sr. No.	QTY.	Item	Rate	Unit	Amount
<b>A</b>	<b>for DI pipeline network</b>				
1	6550.00	Dismantelling Cement concrete of Foundation Or Flooring	255.02	Cu.M.	16,70,381.00
2		Excavation for pipe line trenches for water supply, manhole etc. all with shoring and struiling if required as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts and in hard murrum as specified etc. complete.			
2.1	4550.70	0 to 1.5 mt depth.	112.00	Cu.M.	5,09,678.40
2.2	2650.00	Excavation of Foundation in Hard Rock with Breaker / Blasting /Gann from 0.0 mtr. To 1.50 mtr	267.50	Cu.M.	7,08,875.00
3		Providing and supplying, Ductile Iron Pipes with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen; manufactured, tested and duly marked in strict accordance with and confirming to IS: 8329/2000 (as per latest amendment); suitable for push-on Jointing, along-with one number Rubber Gaskets for each length of pipe (EPDM Gasket as per IS: 5382/1985). Class-K-7 etc. complete with loading, unloading, stacking at site etc. complete			
3.1	7075.00	(A) 100 mm dia.	968.00	Rmt	68,48,600.00
3.2	840.00	(B)150mm dia.	1425.00	Rmt	11,97,000.00
3.3	990.00	I 200 mm dia.	1814.00	Rmt	17,95,860.00
3.4	1930.00	(D) 300 mm dia.	3000.00	Rmt	57,90,000.00
4		Lowering, laying and jointing C. I. S & S Spun pipes suitable for Tyton joints / Mortar lined D. I. Pipes of various classes with CI / MS specials of following diameters in proper position, grade and alignment as directed by Engineer-in-charge including hydraulic testing etc. comp.			
4.1	7075.00	(A) 100 mm dia.	55.00	Rmt	3,89,125.00
4.2	840.00	(B)150mm dia.	76.00	Rmt	63,840.00
4.3	990.00	I 200 mm dia.	99.00	Rmt	98,010.00
4.4	1930.00	(D) 300 mm dia.	155.00	Rmt	2,99,150.00
5		Manufacture, Supply & Delivery of Ductile Iron Flange socket spigot bends, tees, reducers or any other specials as per BS-EN-545/1995 Class-A series K12 suitable for use with D.I. Pipes manufactured as per IS:8329/1994 delivery of specials is to be made to GWSSB store or site of works any where in Gujarat including all taxes, loading, unloading, carting. Stacking, insurance, inspection charges,			

Sr.	QTY.	Item	Rate	Unit	Amount
No.					
		octroi etc. complete.			
5.1	4500.00	80 mmØ to 300 mmØ	148.00	Kg	6,66,000.00
6	5200.00	Removing Excavated stuff with spreading etc	175.00	Cu.M.	9,10,000.00
7		Providing and supplying ISI mark CI / D/F Sluice Valves as per IS:14846 (Latest Edition) of following class and diameter including all taxes. Insurance. Transportation, freight charges, octroi, inspection charges. Loading, unloading. Conveyance to departmental stores, stacking etc. complete			
		PN-1 with hand wheel / cap operated (PD type short body)			
7.1	7.00	supply of 100 mm dia sluice valve (kirloskar or equivalent)	8814.18	nos	61,699.26
7.2	3.00	supply of 150 mm dia sluice valve (kirloskar or equivalent)	13660.38	nos	40,981.14
7.3	3.00	supply of 200 mm dia sluice valve (kirloskar or equivalent)	23771.80	nos	71,315.40
7.4	3.00	supply of 300 mm dia sluice valve (kirloskar or equivalent)	40754.82	nos	1,22,264.46
8		Lowering, laying and jointing in position following C. I./ D/F Reflux valves, Butterfly valves, Sluice valves and Air valves including cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing, etc. complete.			
8.1	7.00	fixing of 100mm dia sluice valve	439.00	nos	3,073.00
8.2	3.00	fixing of 150mm dia sluice valve	585.00	nos	1,755.00
8.3	3.00	fixing of 200mm dia sluice valve	742.00	nos	2,226.00
8.4	3.00	fixing of 300mm dia sluice valve	1141.00	nos	3,423.00
9	1524.00	Providing & Supplying and fixing New Public Tap house Connection with all fixtures, labour, etc. complete as directed by Engineer in charge. - 15 mm dia type D.I.	984.00	nos	15,00,000.00
10	16.20	Providing and casting in situ C.C. in grade M-15 (approx. corresp. To prop. 1:2:4) (proportions as per mix design or as per Table 9 of IS456 2000 in masses by weigh batching ) using granite, quartzite trap metal of size 6 mm to 20 mm for RCC work, including scaffolding centering, form work, needle vibrated consolidation, curing comp. up to 6 meter depth or height (excluding cost of reinforcement and neat finishing) with centering and shuttering / deshuttering etc. comp for structure for other than water retaining. (with form work)	3811.36	cum	61,744.03
11	2.00	Providing and supplying C. I. Temper proof Air valves with ss 304 Float gun metal- nozzle of approved make & quality of following class and diameter including all taxes. Insurance. Transportation, freight charges, octroi, Inspection charges, loading. Unloading, conveyance to departmental stores. Stacking etc. complete. With Isolating Sluice Valve PN 1.0 80 mm dia. Air valve	12971.58	nos	25,943.16
12	2.00	Lowering, laying and jointing in position following CI / D/F Reflux valves, Butterfly valves, Sluice valves and Air valves including cost of all labour, jointing material, including nut bolts and giving	91.43	nos	182.86

Sr.	QTY.	Item	Rate	Unit	Amount
No.					
		satisfactory hydraulic testing, etc. complete.			
13	7622.00	Cutting Of DI pipe Line	11.00	per 10 cm	83,842.00
14		Providing , supplying and fixing M. S. Specials plain fittings like, bends, tees, reducers or any other specials as per site condition and as directed by Engineer in charge.			
14.1	1251.00	80 mm Ø to 300 mm Ø	96.00	Kg	1,20,096.00
					<b>2,30,45,064.71</b>
				say	<b>2,30,45,100.00</b>
<b>B</b>	<b>for RCC ESR</b>				
1		<b>RCC ESR (description of item For turnkey tender)</b>			
		<p>Designing, structurally (and aesthetically) complying Provisions of relevant Indian standards and constructing <b>5 Lac litre capacity 12 mt. staging height RCC Elevated Service Reservoir</b> (RCC M-30 grade concrete and reinforcement CRS Fe-500 steel for entire ESR) of the below mentioned size using latest S.B.C. of proposed site, Seismic zone-04, Wind speed Zone. Including (1) Container shape any suitable type (or as specified). (2) Staging consisting of Shaft Supporting Structure as appropriate (or as specified) and <b>(3) This includes excavation in all types of soil strata (including hard rock ). Casting 100 mm thick P.C.C. levelling course in M-15. Refilling the pit with proper soil and disposing of the surplus stuff at all required lead.</b> (4) This will also include cement plaster in CM 1:3 with approved water proofing compound &amp; Food Grade Epoxy Paint all over inside container (i.e. walls, base, top slab/dome bottom etc. all). (5) Providing and fixing of any accessories(specified) like Alluminium Pole ladder, CI Manhole frame and covers, water level indicator , lightening conductor/arrester, GI Pipe railing around walk way, at roof level, at gallery and around landing of inside shaft, Adequate cowl type ventilators or lantern type ventilator with stainless steel _ngi. (6) Scope of work includes constructing RCC spiral staircase with adequate tie beams, staircase footing , ventilating shaft and ventilators as well as door in shaft, SS grating to be provided to outlet pipe (Inside container) for safety, with proper arrangement of bird screen to prevent the entry of birds from staircase. (7) including providing and applying One Coat of Primer and Two coats of Weather Proof Exterior Emulsion Paint (as specified) to the whole structure. (Including Inside of Shaft in case of Shaft Supporting Structure &amp; Top of Top Dome) (8) It also includes satisfactory water tightness test as per relevant I.S Code and painting name of scheme &amp; capacity on the tank as per direction of engineer in charge.</p> <p><b>List of Indian Standard for design of ESR :</b>  Note : The structural design of ESR shall be in accordance with provisions of relevant Indian</p>			

Sr.	QTY.	Item	Rate	Unit	Amount
No.					
		Standards 1) I.S. 3370 part I & II 2009 or its latest revision (1:1) I.S. 3370 Part III & IV 1965 or its latest revision 2) IS 456-2000 or its latest revision 3) IS 11682-1985 or its latest revision 4) IS 1893-2002 Part I to V or its latest revision 5) Is 13920-1993 or its latest revision 6) IS 875 Part I to III, 1987 or its latest revision 7) IS 11089-1987 or its latest revision			
		<b>General Specifications :</b> 1) The Min. concrete grade for RCC shall be M:30. Proportion of concrete ingredients shall be as per Mix design using weigh batching.2) TMT CRS Fe-500 or higher grade reinforcing bars confirming to IS:1786/1139 and TMT bars shall be used as per detailed specification.3) Controlled cement concrete in M-30.4) Min. size/ thickness of various components shall be provided as per design criteria/specifications/IS Code (or as per std. practice). Capacity of the ESR shall be considered excluding free board.5) Minimum dimensions specified for various components in tender data /specifications should be provided.6) The foundation shall be referred from latest SBC test report or tender datasheet. During execution If poor soil strata or ground water table is encountered, the SBC shall have to be re ascertained and the design should be revised accordingly.7) Maximum spacing between horizontal bracings shall be 5 m (storey height)8) The BB Masonry cabin with MS door shall be constructed around the Staircase.9) RCC Staircase/ MS Staircase shall be provided and fixed for access to roof when height of roof from G.L. is up to 10 m. For ESR having more than 10 m height proper RCC staircase or suitable RCC spiral staircase shall be constructed. Railing should be provided through out the staircase and around the top ring beam also around the Inner & Outer Face of the Shaft Platform inside Container.10) For ESR-having staging height more than 15m the spiral staircase shall be provided inside the staging with effective tie beams in more than one direction11) Water level indictor shall be provided and fixed float type /electronic (as specified).12) The rate shall include cost of dewatering during execution making all arrangement with any dewatering technique.13) The structure shall be designed properly for uplift due to Ground water table specified in data or GWT encountered during execution. No extra payment shall be paid for the same.14) Effective curing shall be carried out up to required period as per specifications.15) Agency shall engage _ngineer_ (at least Post graduate) consulting _ngineer_ for designing the structure and he/she shall visit the site for guidance of work at all levels (i.e.below foundation, up to GL. Above GL for all lifts up to container).16) The Design of the Structure shall be			

Sr.	QTY.	Item	Rate	Unit	Amount
No.					
		in accordance with relevant IS 3370-1965 or as per latest revision.17) If Water Retaining Structure is designed with limit state method, then crack width should not exceed 0.1 mm.18) Minimum size / thickness of various components shall be provided as per design criteria / specifications provided in the tender.19) Above conditions/ general specifications Sr. No. 1 to 19 are part & parcel of tender. Contract			
	1.00	Cost of 500000 lakh litres	5041842.54	nos	50,41,842.54
		<b>Additional Items for ESR</b>			
2		Providing and fixing flanged D.I.D.F. / Class K-9 pipes vertically for RCC Reservoir incl. providing clamps at every 3 mt incl. jointing materials such as nuts, bolts, rubber packing, hydraulic testing and necessary scaffolding etc. complete.			
2.1	40.0	(I) 300 mm dia. Inlet pipes and overflow pipes	7,219.00	Rmt.	2,88,760.00
2.2	20.0	(II) 300 mm dia. Outlet pipes	7,219.00	Rmt.	1,44,380.00
3		Manufacture, Supply & Delivery of Ductile Iron Flange socket spigot bends, tees, reducers or any other specials as per BS-EN 545/1995 Class-A series K12 suitable for use with D.I. Pipes manufactured as per IS:8329/1994 delivery of specials is to be made to GWSSB store or site of works any where in Gujarat including all taxes, loading, unloading, carting. Stacking, insurance, inspection charges, octroi etc. complete.			
		<b>Duct foot bends</b>			
3.1	624.0	(I) For 300 mm dia.	148	Kg	92,352.00
		<b>Crippling flanges</b>			
3.2	74.4	(I) For 300 mm dia.	148	Kg	11,011.20
		<b>Bell mouths</b>			
3.3	135.0	(I) For 300 mm dia.	148	Kg	19,980.00
					<b>55,98,325.74</b>
				say	<b>55,98,400.00</b>
			<b>Grand Total Rs.</b>		<b>2,86,43,500.00</b>
				Say	<b>2,86,44,067.80</b>

**Addl/Asst. Engineer**  
**R.M.C.**

**Dy.Ex.Engineer**  
**R.M.C.**

**CITY ENGINEER**  
**R.M.C.**

**I/We agree to carry out the above said work at (to be quoted online) % Equal / above / below on the tendered rates shown in Schedule.**

**Signature of Contractor**

### SCHEDULE OF MILE STONE PAYMENT

#### MILE STONE PAYMENT BREAK-UP FOR CIVIL WORKS

Sr. No.	Item Description	Percentage Mile Stone Payment
<b>1.</b>	<b>ELEVATED SERVICE RESERVOIR (ESR)</b>	
a.	On completion of Excavation, PCC, Footings	10%
	On completion of Column & beam/shaft, staircases, etc. from ground level up to the required level	15%
b.	On completion of Bottom Dome & Platforms (with railing)	15%
c.	On completion of 100% Side Walls of Container	20%
d.	On completion of Bottom Dome	15%
e.	On completion of Finishing Items, Fixing of required Pipes, etc.	10%
f.	On completion of Hydraulic Test	10%
g.	On testing, commissioning and trial runs	5%

**Addl./Asst. Engineer**  
**R.M.C.**

**Dy. Ex. Engineer**  
**R.M.C.**

**CITY ENGINEER**  
**R.M.C.**