

# RAJKOT MUNICIPAL CORPORATION

TENDER No. : RMC/WW/CZ/18-19/01



## Bid Documents For

Designing and construction of 2.00 Lac Liter RCC **shaft type** Elevated service reservoir (ESR) for Filter Bad Backwash at Nyari filter plant

## VOLUME III BID FORM WITH PRICE

### The last date of e-Tendering are as under:

1. Downloading of e-Tender documents	11-02-2019 to 05-03-2019 upto 1800 Hours
2. Pre-Bid Meeting at Central Zone in the O/o ADD. CITY Engineer	19-02-2019 at 1200 Hours
3. Online submission of e-Tender	05-03-2019 upto 1800 Hours
4. Physical submission of EMD, Tender fee and other documents.	07-03-2019 upto 1800 Hours
5. Verification of submitted documents (EMD, e-Tender fee, etc.)	08-03-2019 at 1100 Hours
6. Opening of online tender (Technical bid)	08-03-2019 at 1100 Hours
7. Opening of Price Bid if possible	11-03-2019 at 1100 Hours
8. Bid Validity	180 Days
For further particulars, visit us on <a href="http://www.rmc.nprocure.com">www.rmc.nprocure.com</a>	

**ADD. CITY ENGINEER  
RAJKOT MUNICIPAL CORPORATION  
Dr.AMBEDKAR BHAVAN  
DHEBARBHAI ROAD  
RAJKOT - 360 001**



# **BID FORM (WITH PRICE)**

**CONTRACT No: RMC/WW/CZ/18-19/01**

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

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

Dear Sir,

**SUB :** **BID DOCUMENT FOR** Designing and construction of 2.00 Lac Liter RCC Elevated service reservoir (ESR) **shaft type** for Bad Backwash at Nyari filter plant

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 design, engineer, procure, construct, complete the whole of the said Works from the date of commissioning including defects liability period 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 Lumpsum fixed price \_\_\_\_\_ of \_\_\_\_\_ Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) for Construction and Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) such other sum as may be ascertained in accordance with the Conditions.

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 water of required quantity according to the conditions/stipulations of the Contract, the Engineer 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 9 months, inclusive of monsoons, from the date of receipt of Letter of Acceptance 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 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.
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 \_\_\_\_\_ 2018.

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

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

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

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

Company Seal

Duly authorised to sign Bid for and on behalf of  
(Fill in block capitals)

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

Witness

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

# **PREAMBLE TO PRICE SCHEDULES**

### **Note on Schedule**

The bid is **lump sum** bid for design, engineering, procurement, construction, testing, commissioning for the work of **Designing and construction of 2.00 Lac Liter RCC Elevated service reservoir (ESR) shaft type for Bad Backwash at Nyari filter plant**

1. The bidder shall quote his firm and fixed lump sum price for the entire work under this Contract, of this bid document.
2. The rates and prices shall be submitted in the formats given in the online Price Schedules A. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.
3. It will be entirely at the discretion of the Employer to accept or reject the bidder's design proposal, without giving any reasons whatsoever and the bidder shall not be permitted to withdraw his bid on this account.
4. In Price Schedule-A, bidder shall quote his lump sum price for entire work. Prices quoted in Schedule-A only will be considered for price evaluation & shall form a part of the Contract Agreement.
5. Schedule 'B' gives the basis of interim payment for construction of civil works.
6. Only Price Schedule - A will be considered for financial evaluation of the bid.
7. 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.
- 8. Prices quoted by the bidder shall be firm for the entire period of Contract without any escalation.**
9. The bidder shall interpret the data furnished and carry out any additional survey work, or investigation work required at his own cost.
10. The prices quoted shall also include the cost of materials utilized for testing WITH ALL TYPE OF TESTING CHARGE.
11. 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.
12. The material to be consumed in the project Viz; Pipes, Valves, Pumps, Motors, Panel etc., shall have to be procured only from the approved Vendors preferably having ISO 9001-2000 Certificate or its latest Edition.
14. For construction work, Rajkot Municipal Corporation will supply water at the rate of Rs.\_\_\_\_\_/KL from nearby existing pipeline, if available. The agency shall have to make its own arrangement for drawing of water.
15. For testing of ESR Rajkot Municipal Corporation will supply water free of cost once.
16. Project Authority Certificate for Excise Duty Exemption for pipes will be issued. The liability of Rajkot Municipal Corporation is limited to issuing the Project Authority Certificate to the contractor and Rajkot Municipal Corporation does not take any responsibility whether the agency gets the Excise exemption or not. Complete responsibility rests with the contractor only.

Signature of contractor

# PRICE SCHEDULES

# **PRICE SCHEDULE - A**

**PRICE SCHEDULE A : QUOTED PRICES**

<b>Item</b>	<b>Lumpsum Price (Rs.)</b>	
	<b>In figure</b>	<b>In Words</b>
<b>I) CONSTRUCTION PHASE</b>		
I) Designing and construction of 2.00 Lac Liter RCC Elevated service reservoir (ESR) shaft type for Bad Backwash at Nyari filter plant		
Total Price of I		
Total Price of I Rs. (Words)		

Bidder's Stamp and Initials

**Deputy EXE. Engineer  
Rajkot Municipal Corporation**

**ADD. CITY Engineer  
Rajkot Municipal Corporation**

**PREAMBLE**

As mentioned in the Conditions of contract, the Contract being a lump sum type turnkey Contract on EPC basis, the provision of measurement will be applicable only for the assessment of value of work done for inclusion in any interim certificate for part payment to the Contractor.

## SCHEDULE – B

### BREAK UP FOR SCHEDULE OF PAYMENT

Item	Description of Items	Percentage Payment to be released
	<b>Break up for R.C.C ESR</b>	
1	On approval of design and drawings, excavation and foundation concrete, completion of RCC footing with reinforcement etc. complete	10%
2	Work up to ground level	5%
3	Upto 6 mt staging height and RCC staircase upto 6 mt.	5%
4	Upto 10 mt staging height and RCC staircase upto 10mt..	10%
5	Bottom slab and ring beam	15%
6	Vertical / slant wall up to roof slab of container	10%
7	Work of roof slab of container	15%
8	On supply of MS & CI pipe, sluice valve, pipe fitting, measuring gauge, conductors, copper wire, doors, windows etc. as per drawings	15%
9	On erection of MS & CI pipe, sluice valve, pipe fitting, measuring gauge, conductors, copper wire, doors, windows etc. as per drawings	5%
10	Hydraulic testing and on completion of remaining work	10%

Signature of Contractor

Rajkot Municipal Corporation  
Water Works Department

Name of work:

Designing and construction of 2.00 Lac Liter RCC Elevated service reservoir (ESR) **shaft type** for Bad Backwash at Nyari filter plant

Sr.No	Qty	Description	Rate	Unit	Amount
1	1	Designing structurally (and aesthetically) complying provisions of relevant Indian standards and constructing RCC Elevated services Reservoir of the following capacity and height, using data of SBC of proposed site, Seismic zone, Wind speed Zone including (1) Container shape any suitable type (or as specified), (2) Staging consisting of column brace trestle / shaft / combination column – brace trestle and shaft as appropriate (or as specified) and (3) Appropriate foundation system. This includes excavation in all types of soil strata (including hard rock) casting 100 mm thick PCC leveling <b>course in M-15</b> , Refilling the pit with proper soil and disposing of the surplus stuff within a lead of 50 mtrs (4) This will also include cement plaster in CM 1:2 with approved water proofing compound to inside face of container (5) All types of labour & material charges of lowering, laying, erecting / hoisting & joining of pipe assembly of inlet, outlet overflow, washout and by pass arrangement as per hydraulic design are including (6) Providing and fixing accessories (specified) <b>like MS / GI Ladder CI</b> Manhole frame and 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 jail (7) Scope of work includes constructing <b>RCC spiral staircase</b> with adequate tie beams, staircase footing BB Masonry chambers for valves, ventilating <b>shaft and ventilators as well as door in shaft</b> (8) including providing and applying three coats of cement paint / snow cem (as specified) to the whole structure (9) It also includes satisfactory water tightness test as per relevant IS Code and painting name of scheme & capacity on the tank as per	3160470.00	No	3160470.00

Bidders' stamp & initials

Sr.No	Qty	Description	Rate	Unit	Amount
		<p>direction of engineer-in-charge</p> <p>Note: The structural design of ESR shall be in accordance with provisions of relevant Indian Standards:</p> <p>(1) IS 3370 Part-I &amp; II 2009 or latest revised</p> <p>(1.1) IS 3370 part III &amp; IV 1965 or latest revised</p> <p>(2) IS 456-2000 or latest revised</p> <p>(3) IS 11682-1985 or latest revised</p> <p>(4) IS 1893-2002 Part I to V or latest revised</p> <p>(5) IS 13920-1993 or latest revised</p> <p>(6) IS 875 Part I to III, 1987 or latest revised</p>			
		<p>(7) IS 11089-1987 or latest revised</p> <p>General specifications:</p> <p>(1) The Min. concrete grade for RCC shall be M:30 Proportion of concrete ingredients shall be as per Mix design using weigh batching</p> <p>(2) <b>HYSD (Fe 500)</b> or higher grade reinforcing bars to IS 1786/1139 or CRS bars shall be used as per detailed specification</p> <p>(3) In case of column-brace trestle type staging having more than 6 columns internal horizontal bracing is obligatory. One bracing shall be at foundation level in case of individual footings</p> <p>(4) <b>Min. size / thickness of various components shall be provided as per design criteria / specifications (or as per standard practice)</b></p> <p>(5) Minimum dimensions specified for various components in tender data / specification shall be provided without fail</p> <p>(6) <b>The safe bearing capacity (SBC) / allowable pressure on soil shall be referred from SBC test report or tender datasheet.</b> If poor soil strata is met with or ground water table is met with the SBC shall have to be re-ascertained scientifically and the design shall be revised.</p> <p>(7) <b>Maximum spacing between horizontal bracings shall be 5 m (storey height</b></p> <p>(8) <b>The BB Masonry cabin with MS door shall be constructed when spiral staircase is outside the staging.</b></p>			

Sr.No	Qty	Description	Rate	Unit	Amount
		<p>(9) MS ladder shall be provided and fixed for access to roof when height of roof from GL is upto to 10 m. for ESR having more than 10 m height RCC spiral staircase or suitable RC staircase shall be constructed</p> <p>(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 direction.</p> <p>(11) Water level indicator shall be provided and fixed float type / electronic (as specified)</p> <p>(12) The rate shall include providing and fixing pipes, specials and valves required for inlet, outlet, washout overflow and bye pass arrangement. The scope of work includes constructing supporting RC pillars, erecting, laying, fixing and joining pipes and specials etc up to 5 m length from face of staging (outer most column)</p>			
		<p>(13) CI pipes &amp; specials shall only be used</p> <p>(14) The rate shall include cost of dewatering during execution making all arrangement and any dewatering technique</p> <p>(15) The structure shall be designed properly for uplift due to Ground water table specified in data or GWT met with during execution. No extra shall be paid.</p> <p>(16) Effective curing shall be carried out as per specifications.</p> <p>(17) Agency shall engage qualified (atleast graduate) consulting engineer for designing the structure and he/she shall visit the site for guidance of work at least 3 times.</p> <p>(18) 75% part rate shall be payable for Concrete, Reinforcement and Plastering items of container until satisfactory hydraulic testing for water tightness is performed as per tender condition. Till then the work shall be treated as incomplete. Above conditions / general specifications Sr. No.1 to 17 are part &amp; parcel of tender (contract)</p> <p>A Up to staging height(L.S.L.) 12mt from G.L. And S.B.C.10</p>			

Sr.No	Qty	Description	Rate	Unit	Amount
		Capacity of ESR (shell type container like cylindrical, conical, intze, folded plates & its combination)			
		Cost of 200000 liters			
2		Excavation in Tranches from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. Lead area as instructed etc comp.			
	35.64	For Soft Soil, Murrum or sand	72.00	Cumt	2566.08
	35.64	For Hard Murrum	77.00	Cumt	2744.28
	23.76	For Soft Rock	166.00	Cumt	3944.16
	23.76	For Hard Rock	289.00	Cumt	6866.64
3	132.00	Supplying of 219.10 mm OD having Thickness 6.3 mm, Submerged Arc welded M.S. Pipe outside coated with best quality bituminous paint having beveled ends plate or coil Confirming to IS 3589 :2001 or its latest revision/ amendment. With Excise Duty.	2232.00	Rmt	294624.00
4	132.00	Lowering, laying & Jointing of 219.10 mm Ø MS Pipe (Bare Pipes) in position to correct line & level on prepared formation or prepared bedding in trenches. (This rate includes Generator, Welding Machine & Hydro-Crane rent)- 4 mm to 7 mm thick (excluding excavation & sand bedding) etc comp.	258.00	Rmt	34056.00
5	2.00	Supplying of ISI mark 200 mm dia. C.I. Sluice valve etc comp.	22053.00	Nos	44106.00
6	2.00	Labour work for Fixing of 200 mm dia. Sluice Valve / Reflux Valve on all types of pipes including all types of Jointing Materials (Excluding transportation and de-watering) etc comp.	374.70	Nos	749.40
7	3.00	Providing CC work 1:2:4 for Thrust Block using aggregate of size 10-20 mm centering, curing, and finishing without Reinforcement etc. Comp.	4116.00	Cumt	12348.00

Sr.No	Qty	Description	Rate	Unit	Amount
8	1.00	200 mm dia. Pipeline Job work for connecting new network with excavation-filling in required length with traffic regulating, testing and all essential materials Rubber Sheet, Nut-Bolt etc. for CI / DI / PVC / HDPE / AC Pressure / RCC / GI / MS / PS Pipe (excluding valve, joints, specials etc. materials, de-watering work, cutting & welding of DI / MS / CI pipes as required) with all required equipments, in case of PL chowk up, like Steel rod / Hard rubber pipe for line cleaning to be provided by Contractor etc comp.	462.00	Nos	462.00
9	1.00	300 mm dia. Pipeline Job work for connecting new network with excavation-filling in required length with traffic regulating, testing and all essential materials Rubber Sheet, Nut-Bolt etc. for CI / DI / PVC / HDPE / AC Pressure / RCC / GI / MS / PS Pipe (excluding valve, joints, specials etc. materials, de-watering work, cutting & welding of DI / MS / CI pipes as required) with all required equipments, in case of PL chowk up, like Steel rod / Hard rubber pipe for line cleaning to be provided by Contractor etc comp.	831.00	Nos	831.00
10	184.00	Providing M.S. Specials for 200 mm dia. Flange For Fixing of CI Sluice valve etc comp.	76.90	Kg	14149.60
				<b>Total =</b>	<b>3577917.16</b>
				<b>Say =</b>	<b>3578000.00</b>

Dy. Ex. Engineer  
R.M.C.

ADD. CITY Engineer  
R.M.C.

SIGNATURE OF CONTRACTOR