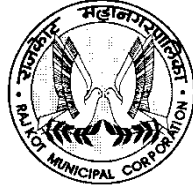


# RAJKOT MUNICIPAL CORPORATION

## Water Works Department

### Price Bid



#### : Name of work :

Supply, Installation, Testing Commissioning of Submerged Centrifugal Pump Sets, Floating Barge, Floating Bridge, vertical turbine pumps with other Mechanical Accessories & Electrical Equipments etc with Comprehensive Maintenance of Five Years at Nyari-1 DAM of RMC.

Milestone dates of e-Tendering are as under:		
1.	Downloading of e-Tender documents	Dt.:01/10/2020to Dt.:21/10/2020 up to 18:00 Hrs.
2.	Online submission of e-Tender	Dt.:21/10/2020 up to 18:00 Hrs.
3.	Physical submission of EMD, Tender fee and technical qualifications documents.	Dt.:22/10/2020 to Dt.:27/10/2020 up to 18:00 Hrs
4.	Opening of online tender (Technical bid)	Dt.:28/10/2020 at 12:00 Noon onwards
5.	Opening of Price Bid (if possible)	Dt.:04/11/2020 at 12:30 Hours onwards
6.	Tender Validity Period	180 Days

Add. City Engineer  
Water Works Department  
Rajkot Municipal Corporation  
RAJKOT - 360 001  
Phone no. 9723451964  
E mail- jlshingala@rmc.gov.in

**RAJKOT MUNICIPAL CORPORATION**  
**Water Works Branch**

**PREAMBLE TO PRICE SCHEDULE**

**General terms, condition and detail of works:**

1. EMD, Tender fees and documents should be sent by Speed Post or Reg. A.D. to **The Dy. Executive Engineer (Ele./Mech.) Room No.-12, Water Works Branch, Ele.-Mech. Division, West Zone Office, Shri Harisinhji Gohil Bhavan, B/h. Big Bazaar, 150' Ring Road, Rajkot Municipal Corporation, Rajkot- 360 005** on or before the prescribed date and time mentioned in the milestone dates for e-Tendering.
2. No joint venture is permitted.
3. Conditional tender will not be accepted and no advance payment against the tender will be made by department.
4. The rate should be clearly quoted in figure and words in online price bid only. The rates quoted in any other manner will not be acceptable.
5. The rate should be inclusive of all taxes & duties i.e. GST, and transportation charges etc.
6. Tender should be submitted along with relevant documents asked in tender and duly signed on every page of tender. Tender without any document will liable to reject.
7. Time for completion of job is **180 Days** from the date of work order. All erection, installation, testing and commissioning of this work should be completed in **180 Days**. In case of late handing over, penalty will be imposed on tenderer as per RMC rules.
8. The guarantee period should be 60 month from the date of commissioning / handing over of Pumping machinery with accessories to RMC.
9. Tender should be completely filled in all respects, incomplete tenders are liable to reject.
10. Inspection: RMC will depute the representative of technical person (Elect. & Mech.) of Rajkot Municipal Corporation & TPI for inspection

and load trial at manufacturer site. After successful inspection Contractor should inform RMC before dispatch of material. The bidder should arrange for the inspection at his own cost.

11. The tender will be treated as no responsive if Tender in the name of firm or a person who is not an approved manufacturer or Black Listed/Debar/ Terminated anywhere, in India by any Govt. / Semi-Govt. Department.
12. Payment will be made in following sequence :
  - 65% after supply of equipment at site in good condition.
  - 25% after erection, testing and commissioning.
  - 10% after trial period of 15 days.
13. Penalty: for late completion of work, penalty will be imposed as per RMC rules.
14. Successful bidder shall have to enter in to an agreement as per RMC rules and will have to pay Security Deposit @10% of contract value or tender amount which will be higher in form of FDR or Bank Guaranty as per Gujarat Government Resolution No.: EMD/10/2019/50/DMO, Date: 01/11/2019, in favor of RMC, with a period of not less than **70 months**.
15. The contractor shall have to arrange all tools and tackles, consumable like; Kerosene, cotton Waste, etc, and man power. No tools and man power will be provided by RMC.
16. Length of cable utilized will be measured and payment will be done on actual measurement of cable utilized. Quantity of cables shown in price bid is approximately and it is only for estimate purpose, but bidder must consider this quantity to quote the tender.
17. Extension of Delay: If work is delayed by force majeure like act of God, Serious loss or Damage by fire, Strike, Bandh, curfew, Rally, Heavy rain, flood, cyclone, earth quake or any natural calamities occurs, or any other cause which is beyond the control of contractor. In such case, Engineer in charges will decide sympathetically to waive penalty.
18. Municipal Commissioner, Rajkot Municipal Corporation, reserves the right to Accept or reject any or all the tender(s) without assigning any reason thereof.

19. Technical Bid will be opened on the prescribed date and time (if possible) in c/o Add. City Engineer (Water Works), Central Zone, Water Works Branch, near S.T. Stand, Rajkot Municipal Corporation, Rajkot.
20. Rajkot Municipal Corporation will deploy own engineers and TPI who will inspect all the material at factory anywhere in India and will also supervise erection, testing and commissioning of the plant.
21. Every document, each page of tender and copy of commissioner's order must be duly signed.
22. All the drawings should be provided and Control Circuit Diagram of all panels should be provided with Manuals (in soft copy & Hard copy both) and also take approval of TPI & Rajkot Municipal Corporation.
23. If any necessary technical change required by competent authority or TPI in drawing, tenderer will do that immediately and no any extra payment will be paid for the same.
24. For any legal matter only Rajkot jurisdiction will be considered.
25. If any necessary extra material or extra work will be need to done which is not including in Tender/BOQ, then payment will be paid as per RMC/Government SOR. No tax or any + or - rate of tender apply for this.
26. Tenderer should visit site for Installation and take actual measurement for cable, PDB before quote the tender.
27. Bidder must quote their prices including work of new terminals (i.e. Lugs), laying cables, cable connection, all labour charges as per requirement or instruction of engineer in charge. No any extra amount will be paid.

**Signature of Contractor**

**Rajkot Municipal Corporation  
Water Works Branch**

**PRICE BID**

**Name of work:- Supply, Installation, Testing Commissioning of Submerged Centrifugal Pump Sets, Floating Barge, Floating Bridge, vertical turbine pumps with other Mechanical Accessories & Electrical Equipments etc with Comprehensive Maintenance of Five Years at Nyari-1 DAM of RMC.**

<b>Sr. No.</b>	<b>Location</b>	<b>Estimated Cost in Rs.</b>
1.	Supply, Installation, Testing Commissioning of Submerged Centrifugal Pump Sets, Floating Barge, Floating Bridge, vertical turbine pumps with other Mechanical Accessories & Electrical Equipments etc with Comprehensive Maintenance of Five Years at Nyari-1 DAM of RMC.	89,239,40/-

I/We agree to carry out the above work at **% Equal/Above/Below** the estimated cost.

**Note: Prices to be quoted ON LINE ONLY. (Inclusive of all Taxes)**

## BOQ & RATES WITH COST SUMMARY

Sr. No.	Description	Qty.	Total Amout
1	75 HP VERTICAL TURBINE PUMP MOTOR SET: Supply, Testing & Commissioning of Vertical Turbine pump motor set of 490 m <sup>3</sup> /hr, 28mtr head & guaranteed efficiency of following MOC with specified capacity horizontal foot mounted TEFC squirrel cage induction motor, working on three phase AC supply with 50 Hz $\pm$ 3%, 415 V $\pm$ 10%, rated speed 1450 RPM along with column pipe (valve tower depth 41 feet approx.)and bowl assembly, discharge head, base channel/RSJ etc. complete as per relevant IS. And tender specification.	2 set	15,59,750.00
2	SITC of 250 mm $\varnothing$ CI D/F Rising stem 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 RMC site etc. complete.(PN-1.6 With hand wheel /cap operated (PD type short body) as per tender specification.	2 Nos.	36,740.00
3	SITC of 250 mm $\varnothing$ Dual Plate Non return valve including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to RMC site etc etc. Complete as per tender specification.(PN 1.6)	2 Nos.	62,340.00
4	SITC of 250 mm $\varnothing$ expansion bellow as per IS standard including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to RMC site etc etc. complete.(PN 1.6) <b>(Length-210mm)</b>	2 Nos.	39,432.00
5	150 HP SCF PUMP MOTOR SET: Providing and erecting Submerged centrifugal pumpset (111 kw, 35 mtr Head, 800 m <sup>3</sup> /hr. Discharge) water immersed, dry air filled, class "F" insulated TEWC motor integrally mounted on volute casing pumpsets for raw water duty, 3-phase, 50Hz $\pm$ 3%, 415V $\pm$ 10% along with SS 304 lifting Chain with shackle with every 1.5 mtr SS 304 ring & suitable size of cable with 80 mtr length without joint as per tender's specifications & terms and suitable for install floating barge system.	2 Set	26,26,758.00

6.	Designing & Supplying of Floating Platform suitable for SCF pump set of 150 HP capacity with required material like M.S angles, M.S channels, chequered plate, PVC/MS barrels, GI/M.S pipes, Nut, bolt etc complete with Chain Pully Block (Manually Operated) :- Providing chain pulley block with triple gear arrangement. Lifting hook, load chain & hand chain & locking device with necessary mounting girder/ structure, spur gear travelling trolley & all accessories. 2 Tonne capacity. (1 Pontoon with 1 Chain pully block)	2 Set	8,20,000.00
7	Erection of Floating platform prepared for pump set of 150 HP SCF Pump set into Dam/Reservoir as per instruction of E.I.C with manpower and machineries as required to complete the job as per instruction of EIC.	2 Job	80,000.00
8	Supply, safe storage, installation, testing & Commissioning of heavy duty MS steel wire braided Rubber flexible hose pipe with asbestos cover and approved by engineer in charge having size 250 mm Dia. and 10 Kg/cm <sup>2</sup> Working pressure with crimped MS flanges at 6 mts.( One Single Piece of each) interval length & in suitable overall required length as per site requirement with Sun protection cover and pipe manufactured as per IS 3549 - Part 2 1983.	8 Nos.	6,68,000.00
9	Supplying and erecting approved make 60 W FLOOD LED lighting luminair. Suitable for vertical mounting directly on pole top in floating barge.	4 Nos.	22,400.00
10	Supplying and erecting of pipe float size 1.130, Dimension : Dia. 300 mm x ID 80 mm x Length 600 mm. Dredger float with PU fittings and HDPE flange for reducing ID till 80 mm for pump cable.	20 Set	1,14,450.00
11	Supplying and erecting of pipe float size 2.250, Dimension : Dia. 670 mm x ID 250 mm x Length 1000 mm. Dredger float with PU fittings for MS steel wire braided Rubber flexible hose pipe.	18 Set	2,64,600.00
12	Providing and supplying 350mm Ø Dual Plate Non return valves as per as per tender specification including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete.(PN-1.6)	4 Nos.	2,85,080.00

13	Providing and supplying 400mm Ø Dual Plate Non return valve as per tender specification including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete.(PN-1.6)	6 Nos	5,61,180.00
14	Providing and supplying 350 mm Ø expansion bellow as per tender specification including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to RMC site etc etc. complete.(PN 1.6) <b>(Length-215mm)</b>	4 Nos.	90,720.00
15	Providing and supplying 400 mm Ø expansion bellow as per tender specification including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to RMC site etc etc. complete.(PN 1.6) <b>(length-210mm)</b>	6 Nos.	1,81,440.00
16	MCC PANEL: S.I.T.C of LV MCC Panel totally enclosed, dust & bermin proof, indoor type, minimum degree of protection - IP 52 as per IS: 2147, operation on 3-Phase, 4 Wire, 415V, 50Hz, Neutral effectively grounded, with instrumentation compartments accomodating LED type indicating lamps, control contactors as per IS: 13947, CT of accuracy class-I as per IS: 2705, relays, meters & control MCBs, air insulated electrolitic grade Copper busbar for three phase & neutral system with microprocessor based Air Circuit Breakers (electrically operated drawout type), current limiting type as per IS: 8828, Motor Contractor (as per type-2 coordination), Overload Relay with built-in single phasing prevention feature & auxiliary feeders as per SLD drawings, momentary contact type push buttons, equipment fittings, busbars, cable boxes, cable gland, incoming & ougoing cable connection for 1100V grade, Aluminium/ Copper conductor XLPE/ PVC insulated & PVC sheathed armoured cable, 10% spare terminals, power wiring using 1100V grade, FRLS insulated copper conductor wires conforming to IS: 694 & 8130, cable compartments/ alleys of minimum 300 mm size, GI earth bus bar for entire length. MCC shall be fabricated from cold rolled, coled annealed (CRCA) sheet steel & minimum thickness of various members shall be as follows: Base Frame/ Channel/ Gland Plate - 3 mm, Load Bearing Members/ Doors - 2 mm and Internal Partitions - 1.6 mm. This MCC Panel Consists-	1 Set	14,28,771.00



	<p>(a) Pgvcl incoming breaker and DG incoming Breaker with 1250A, 4 Pole, ACB EDO Type with Microprocessor release (O/C, S/C &amp; E/F) having breaking capacity Icu of 50kA at 415V with 6NO+6NC potential free auxiliary contacts, secondary isolating contacts with all necessary Electro Mechanical protections &amp; interlocks etc. (1250A-2 Nos)</p> <p>(b) Microprocessor based Soft Starter with external by pass Contactor, Line Contactor, Semiconductor Fuses, Harmonic Filters, cast resin type CT, Digital MFM, Digital Ammeter &amp; minimum 10 Channel Temperature Scanner with RS 485 communication port. (75 kw/100 HP-2 Nos and 132 kw/180 HP-4 Nos)</p> <p>(c) 50 KVAR Heavy Duty Box type Capacitor for Transformer</p>		
17	<p>200 KVAR APFC PANEL: Supply, installaton, testing &amp; commissioning LV 200 KVAR APFC Panel consisting of required capacitor banks for continuous duty to improve P.F. 0.85 to 0.99 in required steps enclosed in dust &amp; vermin proof compartment, indoor type, fabricated from CRCA sheet steel with minimum thickness of 3 mm for base frame / channel/ gland plates, 2.0 mm for load bearing members/ doors &amp; 1.6 mm for internal partitions, minimum degree of protection - IP 42, busbar chamber, required size of Copper bus bar/ terminals, minimum 12 stage APFC relay, metering, indicating lamps, push buttons, with detuned reactor complete as per IS: 16636-2017 with latest ammendment. 200 KVAR APFC panel consisting following items.</p> <p>a) 400 A, 50 kA for 1sec. TP, TM based MCCB with spreader terminals &amp; rotary handle</p> <p>b) 0-400 A range digital ammeter of 96 x 96 mm size with selector switch</p> <p>c) 3nos. 400 / 5A, 10 VA CL-1.0 cast resin type current transformer</p> <p>d) Suitable rating of MCCB &amp; Contractors for each capacitor bank</p> <p>e) Suitable rating APP type capacitor banks (vacuum impregnated with non-PCB / non toxic oil, internally delta connected with built in internal fuses complete with discharge resistances &amp; terminal cover) of approved make in required steps with well suited detuned reactor is placed in series with each capacitor step. (e.g., 200 KVAR capacity will be provided in steps of 3 nos x 10 KVAR, 2 nos x 15 KVAR, 2 nos x 20 KVAR &amp; 4 nos x 25 KVAR)</p>	1 Nos.	2,50,839.00

18	<p><b>METALLIC ENCLOSURE:</b>  Providing &amp; erecting weather proof, dust &amp; vermin proof, MS Stand mounted front operated outdoor type double door cubical switchgear enclosure having IP-64 protection made from 14 SWG thick CRC M.S. sheet for outer body &amp; doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions &amp; cable alley as per requirements &amp; instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire/ copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus &amp; earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating.</p> <p>(a) The panel shall be supplied with locally fabricated panel board with minimum 550 mm depth.</p> <p>(b) Supplying and erecting triple pole &amp; neutral 440V Panel mounting 400 A Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp./sq.mm (Rated current/ cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports/insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections.</p> <p>(c) Remote Start/Stop Push Button and Digital Ampere meter.</p>	2 Nos.	45,440.00
19	1.5 sq.mm x 4 core, Copper Armoured Cable (For Pump Protection, Remote Control Cable and LED Light)	1000 Mtr.	1,11,000.00
<b>Total Amount-A</b>			<b>92,48,940.00</b>
<b>Valuation of 75 Hp (2Nos) vertical Turbine pumps</b>			<b>2,05,000.00</b>
<b>Valuation of MCCC panel with 1000 kvar APFC panel</b>			<b>1,20,000.00</b>
<b>Total Buyback value-B</b>			<b>3,25,000.00</b>
<b>Total Tender Amount –(A-B)</b>			<b>89,23,940.00</b>

### BUY BACK ITEMS

<b>SR. NO.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.	RAMP MAKE LT PANEL BOARD WITH CHANGE OVER SWITCH 1000 AMP,800AMP ACB,BUSBAR,150 HP ATS STARTER PENAL-02 NOS,75HP ATS STARTER PENAL-02 NOS,100AMP APFC PANEL AND OTHER EXTRA FEEDERS.	1,20,000/-
2.	FLOWMORE MAKE VERTICAL TURBINE PUMP SET WITH COLUMN PIPE SET ASSEMBLY WITH SEIMENS MAKE 75 HP TEFC TYPE SQ. CASE INDUCTION MOTOR WITH 250MM DIA NRV, SLUICE VALVE - 2NOS.	2,05,000/-
<b>TOTAL</b>		<b>3,25,000/-</b>

**AAE(E)**

**AE(M)**

**DEE(E)**

**DEE(M)**

**ACE**