

# दीनदयाल पत्तन प्राधिकरण DEENDAYAL PORT AUTHORITY

AnISO9001:200  
CertifiedPort

(Ministry of Ports, Shipping & Waterways, Govt. of India)

दूरभाष / Tel : 02836 223912  
फैक्स / Fax : 02836 220050  
इ. मेल : xenroadskpt@gmail.com



अभिशासी अभियंता का कार्यालय (R)  
Office of the Executive Engineer (R)  
उपभवन / Annexe Building  
ए ओ बिल्डिंग पोस्ट बॉक्स न. 50  
A.O. Building, Post Box No 50  
गांधीधाम(कच्छ) / Gandhidham (Kutch)

No: RW/WK/7776(1)/23-24

Date:-20/04/2023

To,

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

## Expression of Interest.

**Sub:- Supplying Installation and maintenance of RO plant for non-residential building at New port Colony Kandla..**

Sir,

Deendayal Port Authority intends to carry out the subject work of Road Division of Civil Engineering Department.

Kindly submit your Expression of Interest along with budgetary – offer for the items considered in preparation of the estimate under Annexure-I.

The rates quoted must be inclusive of all taxes, duties for performing scope of work & exclusive of GST. The GST applicable shall be shown separately, which shall not be considered for evaluation purposes.

Your expression of interest along with budgetary quotation for the above work should reach to the following address on or before **27/04/2023 by 15:00 Hrs.**

**Address:-**

Office of the Executive Engineer (Road),  
Road Division, Administrative Office Building,  
Room No. 128, Ground floor, Annexe,  
P.O. Box No. 50, Gandhidham – Kachchh.

Thanking you,

Yours faithfully,

**Executive Engineer (R)  
Deendayal Port Authority**

## BUDGETARY OFFER

## Annexure-I


| Sr. No. | Description   | Qty | Rate    |          | Unit  | Amount |
|---------|---|-----|---------|----------|-------|--------|
|         |   |     | In Fig. | In Words |       |        |
| 1       | Maintenance of 6 No's (Six no's) of R.O. plants of 250LPH capacity each provided at BVM school, Estate office, CISF complex, DPT Hospital i.e. at New Kandla Port Colony. Maintenance is to be done at least once a month at all the mentioned places and in between if required at the time of any complaint. Contractor has to check the plant thoroughly, incl. replacement of spun filter, GAC filter, CTO filter/sediment filter, Filter medias vessel back and wash. Membrane washing maintenance of PVC/GI Fittings and if required replacement the same. Contractor has to give testing of water after servicing and also give testing where ever required by Engineer-in-charge including TDS reading as per requirement for potable water. Contractor has to get signature from Engineer-in-charge or from user as proof of service done satisfactorily.  | 12  |         |          | Month |        |
| 2       | <p>Supplying &amp; fixing of 250 LPH R.O.Plant of following specifications:-</p> <p>(A) pH : Between 3 to 11<br/>           (B) Suspended solids : Nil<br/>           (C) Turbidity. : Less than 1 NTU<br/>           (D) Free Iron as Fe+3 : Nil<br/>           (E) Free organic solvents : Nil<br/>           (F) Free chlorine : Nil<br/>           (G) Oil &amp; Grease : Nil<br/>           (H) Output TDS : &lt;200 TDS 90%<br/>           (I) Dissolved Silica : Less than 10ppm<br/>           (J) Temperature : 40 Deg. C.maximum<br/>           (K) Input TDS : 2000 maximum</p> <p><b>RAW WATER TRANSFER PUMP</b></p> <p>Quantity : One No.<br/>           Type : Centrifugal pump<br/>           Make : C.R.I/Lubii/Crompton<br/>           Power consumption : 0.5 HP<br/>           Type of Drive : I Phase, 240 V AC, 50 Hz<br/>           Capacity : 700 LPH<br/>           Discharge Pressure : 2.0 – 2.5 kg/cm<sup>2</sup><br/>           Purpose : To pump raw water at required pressure so as to enable transfer through the RO pre-treatment stage.</p> |     |         |          |       |        |

| Sr.<br>No.                              | Description  | Qty | Rate    |          | Unit | Amount |
|---|--|-----|---------|----------|------|--------|
|   |  |     | In Fig. | In Words |      |        |
| PRESSURE SAND FILTER & ACTIVATED CARBON |  |     |         |          |      |        |
| Quantity                                | 1 No.  |     |         |          |      |        |
| Type                                    | Vertical with manual multi port valve type System  |     |         |          |      |        |
| M O C. of Vessel                        | FRP  |     |         |          |      |        |
| Make of Vessel                          | PANTAIRE OR PANTHAR  |     |         |          |      |        |
| Diameter of Vessel                      | 12"  |     |         |          |      |        |
| Length of Vessel                        | 48"  |     |         |          |      |        |
| Capacity                                | 1200 LPH   |     |         |          |      |        |
| Frontal Pipe Work                       | APVC   |     |         |          |      |        |
| Operating Pressure                      | 3.0 kg/cm <sup>2</sup>   |     |         |          |      |        |
| Make of valve                           | FRP Multiport Valve  |     |         |          |      |        |
| Type of Valve                           | 1" DIAPHRAGM   |     |         |          |      |        |
| Filtering Media                         | Silica Quartz Sand, Gravel, Pebbles & activated Carbon etc   |     |         |          |      |        |
| Application                             | To filter out suspended solids up to 25 micron size & To remove color, odor and some of organics impurities.                 |     |         |          |      |        |
| MICRON CARTRIDGE FILTER                 |  |     |         |          |      |        |
| Quantity                                | 1 Nos.   |     |         |          |      |        |
| Diameter of Cartridge                   | 4.5" Inches  |     |         |          |      |        |
| Length of Cartridge                     | 10" Inches   |     |         |          |      |        |
| Capacity                                | 1200 LPH   |     |         |          |      |        |
| Frequency of change                     | 1 months   |     |         |          |      |        |
| Application of Cartridge                | To protect the membrane and the high pressure pump from suspended particles  |     |         |          |      |        |
| HIGH PRESSURE PUMP                      |  |     |         |          |      |        |
| Quantity                                | One No.  |     |         |          |      |        |
| Make                                    | SUMO/C.R.I./LUBI   |     |         |          |      |        |
| Power Consumption                       | 1.5 HP   |     |         |          |      |        |
| Type of drive                           | 1 phase, 50Hz, 240V  |     |         |          |      |        |
| Capacity                                | 1200 LPH   |     |         |          |      |        |
| Discharge Pressure                      | 10 to 12 KG  |     |         |          |      |        |
| Application                             | To boost water energy so as to pass through the membrane module at high pressure for obtaining the desired permeate quality. |     |         |          |      |        |

| Description               |  | Qty  | Rate    |          | Unit      | Amount |
|---------------------------|--|------|---------|----------|-----------|--------|
|                           |  |      | In Fig. | In Words |           |        |
| RO MODULE                 |  |      |         |          |           |        |
| Quantity                  | One Lot  |      |         |          |           |        |
| Item                      | RO Module consisting of Membrane Housing with RO membranes Mounted on skid |      |         |          |           |        |
| Type of Membrane          | Thin Film Composite Polyamide  |      |         |          |           |        |
| MOC of Membrane           | Polyamide  |      |         |          |           |        |
| Make of Membrane          | HI-TECH/TORAY  |      |         |          |           |        |
| Size of Membrane          | 4"Dia 40" Length (4040) 2500GPD  |      |         |          |           |        |
| No. of Membranes Required | 1 Nos.   |      |         |          |           |        |
| MOC of Membrane Housing   | FRP Nos.   |      |         |          |           |        |
| Make of Membrane Housing  | ALPHA/PANTHARE   |      |         |          |           |        |
| Size of Housing           | 4" DIA 40" LENTH 250 PSI.  |      |         |          |           |        |
| No. of Housing Required   | 1 Nos  |      |         |          |           |        |
| Operating Pressure        | 10 to 12 kg/cm <sup>2</sup>  |      |         |          |           |        |
| Feed Flow                 | 1200 LPH   |      |         |          |           |        |
| Product Flow Rate         | 250 LPH  |      |         |          |           |        |
| Application of membrane   | To reduce dissolved salts present in water. (TDS)                          |      |         |          |           |        |
| Skid                      | MS   |      |         |          |           |        |
| Rota Meter                | 2 Nos.   |      |         |          |           |        |
| Pressure Gauge Meter      | 2 Nos. Glisrine  |      |         |          |           |        |
| Electric System           | Fully Automatic  |      |         |          |           |        |
|                           |  | 6.00 |         |          | Each      |        |
|                           |  |      |         |          | Total Rs. |        |

|             |  |      |  |  |                      |  |
|-------------|--|------|--|--|----------------------|--|
| CREDIT ITEM |  |      |  |  |                      |  |
| 1           | Contractor has to paid the credit amount for taken out of existing R.O.Plants including separating out of existing plant from pipes at various locatios of A.O.Building & Gopalpuri and taken out the all the spare parts including M.S. frame of existing R.O.Plant |      |  |  |                      |  |
|             | (A) 150 LPH  | 4.00 |  |  | Each                 |  |
|             | (C) 60 LPH   | 2.00 |  |  | Each                 |  |
|             |  |      |  |  | Total of Credit Item |  |

CONTRACTOR

  
Executive Engineer (R)  
Deendayal Port Authority