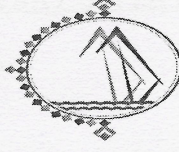


# DEENDAYAL PORT AUTHORITY



SIPC  
KANDLA  
RIDE THE WAVE OF PROGRESS



Office of the Executive Engineer(Construction),  
Room No. 114, Ground Floor,  
ANNEX, Administrative Office  
Gandhidham – Kutch, Pin – 370 201  
E – Mail: - executiveengineercivil1@gmail.com

No.CN/WK/CSR/

Dated: 20/09/2024

To,  
M/s \_\_\_\_\_

## Expression of Interest

**Sub: Budgetary-offer for Supply & Installation of RO Water Purifier under CSR request for BSF Campus Gandhidham, Shri Navchetan Andhjan Mandal-Madhapar & Shri United Salt works Prathmik shala-Kandla.**

Sir,

Deendayal Port Authority intends to Supply & Install RO Water Purifier under CSR request for BSF Campus Gandhidham, Shri Navchetan Andhjan Mandal-Madhapar & Shri United Salt works Prathmik shala-Kandla.

Kindly submit your Expression of interest along with budgetary-offer in the format given in **Annexure-I**. The rates quoted must be inclusive of all taxes, duties for performing scope of work & exclusive of GST.

Your Expression of interest along with budgetary offer for the above work should be submitted through email to the id: [executiveengineercivil1@gmail.com](mailto:executiveengineercivil1@gmail.com) or hard copy to the following address on or before **27/09/2024 by 15:00 Hrs.**

**Office of the Executive Engineer(Construction),**  
Room No. 114, Ground Floor,  
ANNEX, Administrative Office Gandhidham,  
Dist. Kutch, Gujarat, Pin – 370 201  
E – Mail: [executiveengineercivil1@gmail.com](mailto:executiveengineercivil1@gmail.com)

Thanking you,

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

**BUGETARY OFFER FORM**

To:  
The Executive Engineer (Construction),  
Deendayal Port Authority (DPA),

**Sub: Budgetary-offer for Supply & Installation of RO Water Purifier under CSR request for BSF Campus Gandhidham, Shri Navchetan Andhjan Mandal-Madhapar & Shri United Salt works Prathmik shala-Kandla..**

**Dear Sir,**

The budgetary offer for the subject work in accordance with your EOI request letter 20/09/2024 is given as under.

<b>It.No.</b>	<b>Description of Item</b>	<b>No.</b>	<b>Rate</b>																																								
<b>1</b>	<p><b>Supplying &amp; fixing of 250 LPH R.O. Water purifier at Shri Navchetan Andhjan Mandal - Madhapar - Bhuj. with following specifications:-</b></p> <ul style="list-style-type: none"><li>• Power stabilizer with necessary arrangements for electricity supply (wiring, plug point, etc.)</li><li>• ISO standard water tank (500 liters capacity, up to 4.00m height) with all necessary ISO standard fixtures and fittings.)</li><li>• One-year warranty and services for the RO plant and cooler, including all labor and materials at no cost</li><li>• Completion as directed by the Engineer in charge, with all materials, labor, tools, and tackles.</li></ul> <p>Feed Water Quality</p> <table><tr><td>(A) pH</td><td>: Between 3 to 11</td></tr><tr><td>(B) Suspended solids</td><td>: Nil</td></tr><tr><td>(C) Turbidity.</td><td>: Less than 1 NTU</td></tr><tr><td>(D) Free Iron as Fe+3</td><td>: Nil</td></tr><tr><td>(E) Free organic solvents</td><td>: Nil</td></tr><tr><td>(F) Free chlorine</td><td>: Nil</td></tr><tr><td>(G) Oil &amp; Grease</td><td>: Nil</td></tr><tr><td>(H) Output TDS</td><td>: &lt;200 TDS 90% Rejection from Raw Water</td></tr><tr><td>(I) Dissolved Silica</td><td>: Less than 10ppm.</td></tr><tr><td>(J) Temperature</td><td>: 40 Deg. C.maximum</td></tr><tr><td>(K) Input TDS</td><td>: 2500 maximum</td></tr></table> <p><b>RAW WATER TRANSFER PUMP</b></p> <table><tr><td>Quantity</td><td>One No.</td></tr><tr><td>Type</td><td>Centrifugal pump</td></tr><tr><td>Make</td><td>Lubi/Crompton/Aroma</td></tr><tr><td>Material</td><td>Stainless Steel 304 or 316</td></tr><tr><td>Power consumption</td><td>0.5 HP</td></tr><tr><td>Type of Drive</td><td>I Phase, 240 V AC, 50 Hz</td></tr><tr><td>Capacity</td><td>1.5 m3/hr</td></tr><tr><td>Discharge Pressure</td><td>2.5 – 3.0 kg/cm<sup>2</sup></td></tr><tr><td>Purpose</td><td>To pump raw water at required pressure so as to enable transfer through the RO pre-treatment stage.</td></tr></table>	(A) pH	: Between 3 to 11	(B) Suspended solids	: Nil	(C) Turbidity.	: Less than 1 NTU	(D) Free Iron as Fe+3	: Nil	(E) Free organic solvents	: Nil	(F) Free chlorine	: Nil	(G) Oil & Grease	: Nil	(H) Output TDS	: <200 TDS 90% Rejection from Raw Water	(I) Dissolved Silica	: Less than 10ppm.	(J) Temperature	: 40 Deg. C.maximum	(K) Input TDS	: 2500 maximum	Quantity	One No.	Type	Centrifugal pump	Make	Lubi/Crompton/Aroma	Material	Stainless Steel 304 or 316	Power consumption	0.5 HP	Type of Drive	I Phase, 240 V AC, 50 Hz	Capacity	1.5 m3/hr	Discharge Pressure	2.5 – 3.0 kg/cm <sup>2</sup>	Purpose	To pump raw water at required pressure so as to enable transfer through the RO pre-treatment stage.	<b>1</b>	
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**PRESSURE SAND FILTER & ACTIVATED CARBON FILTER**

Quantity	1 No.
Type	Vertical Pressure Vessle
M.O.C. of Vessel	FRP
Make of Vessel	Waterflow / Wave Cber / UKL
Size	12" x 52"
Service Cycle	Whenever pressure drop across unit exceeds 0.8 kg/cm <sup>2</sup>
Capacity	1200 LPH
Frontal Pipe Work	APVC
Operating Pressure	3.0 kg/cm <sup>2</sup>
Make of valve	Innitiative / UKL
Type of Valve	1" DIAPHRAGM
Backwash Duration	15-20 Mins.
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.
Replaceable Cartridge	Spun
Size of Cartridge	4" x 20" (w x l)
Type	Replaceable Cartridge
Flow Rate	1.5 m <sup>3</sup> /hr
Operating Pressure	2.5 kg/cm <sup>2</sup>
Application of Cartridge	To protect the membrane and the high pressure pump from suspended particles.

**Dosing Pump**

Quantity	One Nos.
Capacity	0-6 L.P.H.
Type	Electronic Diapharm type Dosing pump with level controller.
Operating Pressure	1.5 kg/cm <sup>2</sup>
HDPE Tank Size	100 Liters
Make	Edose / Aqua / UKL

**HIGH PRESSURE PUMP**

Quantity	One No.
Type	Vertical Pump
Capacity	1200 LPH
Make	SUMO/C.R.I/LUBI
Discharge Pressure	14 to 15 KG/cm <sup>2</sup>
Power Consumption	1.5 HP
Make	Lubi
MOC	Brass
Application	To boost water energy so as to pass through the membrane module at high pressure for obtaining the desired permeate quality.

**RO MODULE**

Quantity	One Lot
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	<table> <tr> <td>Item</td> <td>RO Module consisting of Membrane Housing with RO membranes Mounted on skid &amp; FRP pressure tubes.</td> </tr> <tr> <td>Type of Membrane</td> <td>Thin Film Composite Polyamide</td> </tr> <tr> <td>MOC of Membrane</td> <td>Polyamide</td> </tr> <tr> <td>Make of Membrane</td> <td>HI-TECH / TORAY USA / Flimtec USA</td> </tr> <tr> <td>Size of Membrane</td> <td>4”Dia 40” Length (4040) 2500GPD</td> </tr> <tr> <td>No. of Membranes Required</td> <td>1 Nos.</td> </tr> <tr> <td>MOC of Membrane Housing</td> <td>FRP Nos.</td> </tr> <tr> <td>Make of Membrane Housing</td> <td>ALPHA/PANTHARE</td> </tr> <tr> <td>Size of Housing</td> <td>4” DIA 40” LENTH 250 PSI,</td> </tr> <tr> <td>No. of Housing Required</td> <td>1 Nos.</td> </tr> <tr> <td>Operating Pressure</td> <td>14 to15 kg/cm<sup>2</sup></td> </tr> <tr> <td>Feed Flow</td> <td>1200 LPH</td> </tr> <tr> <td>Product Flow Rate</td> <td>250 LPH</td> </tr> <tr> <td>Application of membrane Skid</td> <td>To reduce dissolved salts present in water. (TDS) MS</td> </tr> <tr> <td>Rota Meter</td> <td>2 Nos.</td> </tr> <tr> <td>Pressure Gauge Meter</td> <td>2 Nos. Glisrine</td> </tr> <tr> <td>Electric System</td> <td>Fully Automatic</td> </tr> <tr> <td>TDS Meter</td> <td>1 Nos.</td> </tr> </table>	Item	RO Module consisting of Membrane Housing with RO membranes Mounted on skid & FRP pressure tubes.	Type of Membrane	Thin Film Composite Polyamide	MOC of Membrane	Polyamide	Make of Membrane	HI-TECH / TORAY USA / Flimtec USA	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	14 to15 kg/cm <sup>2</sup>	Feed Flow	1200 LPH	Product Flow Rate	250 LPH	Application of membrane Skid	To reduce dissolved salts present in water. (TDS) MS	Rota Meter	2 Nos.	Pressure Gauge Meter	2 Nos. Glisrine	Electric System	Fully Automatic	TDS Meter	1 Nos.		
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3	<p><b>Supplying &amp; fixing of 150 LPH R.O. Water Purifier at Shri United Salt works Prathmik shala-Kandla with following specifications:-</b></p> <ul style="list-style-type: none"> <li>• Power stabilizer with necessary arrangements for electricity supply (wiring, plug point, etc.)</li> <li>• ISO standard water tank (500 liters capacity, up to 4.00m height) with all necessary ISO standard fixtures and fittings)</li> <li>• One-year warranty and services for the RO plant and cooler, including all labor and materials at no cost</li> <li>• Completion as directed by the Engineer in charge, with all materials, labor, tools, and tackles</li> </ul> <p>Feed Water Quality</p> <table border="0"> <tr> <td>(A) pH</td> <td>: Between 3 to 11</td> </tr> <tr> <td>(B) Suspended solids</td> <td>: Nil</td> </tr> <tr> <td>(C) Turbidity.</td> <td>: Less than 1 NTU</td> </tr> <tr> <td>(D) Free Iron as Fe+3</td> <td>: Nil</td> </tr> <tr> <td>(E) Free organic solvents</td> <td>: Nil</td> </tr> <tr> <td>(F) Free chlorine</td> <td>: Nil</td> </tr> <tr> <td>(G) Oil &amp; Grease</td> <td>: Nil</td> </tr> <tr> <td>(H) Output TDS</td> <td>: &lt;200 TDS 90% Rejection from Raw Water</td> </tr> <tr> <td>(I) Dissolved Silica</td> <td>: Less than 10ppm.</td> </tr> <tr> <td>(J) Temperature</td> <td>: 40 Deg. C.maximum</td> </tr> <tr> <td>(K) Input TDS</td> <td>: 2500 maximum</td> </tr> </table> <p><b>RAW WATER TRANSFER PUMP</b></p> <p>Quantity One No.</p>	(A) pH	: Between 3 to 11	(B) Suspended solids	: Nil	(C) Turbidity.	: Less than 1 NTU	(D) Free Iron as Fe+3	: Nil	(E) Free organic solvents	: Nil	(F) Free chlorine	: Nil	(G) Oil & Grease	: Nil	(H) Output TDS	: <200 TDS 90% Rejection from Raw Water	(I) Dissolved Silica	: Less than 10ppm.	(J) Temperature	: 40 Deg. C.maximum	(K) Input TDS	: 2500 maximum	1	
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Type	Centrifugal pump
Make	Lubi/Crompton/Aroma
Material	Stainless Steel 304 or 316
Power consumption	0.5 HP
Type of Drive	I Phase, 240 V AC, 50 Hz
Capacity	1.5 m <sup>3</sup> /hr
Discharge Pressure	2.5 – 3.0 kg/cm <sup>2</sup>
Purpose	To pump raw water at required pressure so as to enable transfer through the RO pre-treatment stage.

#### **PRESSURE SAND FILTER & ACTIVATED CARBON FILTER**

Quantity	1 No.
Type	Vertical Pressure Vessle
M.O.C. of Vessel	FRP
Make of Vessel	Waterflow / Wave Cber / UKL
Size	12" x 52"
Service Cycle	Whenever pressure drop across unit exceeds 0.8 kg/cm <sup>2</sup>
Capacity	1200 LPH
Frontal Pipe Work	APVC
Operating Pressure	3.0 kg/cm <sup>2</sup>
Make of valve	Innitiative / UKL
Type of Valve	1" DIAPHRAGM
Backwash Duration	15-20 Mins.
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.
Replaceable Cartridge	Spun
Size of Cartridge	4" x 20" (w x l)
Type	Replaceable Cartridge
Flow Rate	1.5 m <sup>3</sup> /hr
Operating Pressure	2.5 kg/cm <sup>2</sup>
Application of Cartridge	To protect the membrane and the high pressure pump from suspended particles.

#### **Dosing Pump**

Quantity	One Nos.
Capacity	0-6 L.P.H.
Type	Electronic Diapharm type Dosing pump with level controller.
Operating Pressure	1.5 kg/cm <sup>2</sup>
HDPE Tank Size	100 Liters
Make	Edose / Aqua / UKL

#### **HIGH PRESSURE PUMP**

Quantity	One No.
Type	Vertical Pump
Capacity	1200 LPH
Make	SUMO/C.R.I/LUBI

Discharge Pressure	14 to15 KG/cm <sup>2</sup>
Power Consumption	1.5 HP
Make	Lubi
MOC	Brass
Application	To boost water energy so as to pass through the membrane module at high pressure for obtaining the desired permeate quality.
<b>RO MODULE</b>	
Quantity	One Lot
Item	RO Module consisting of Membrane Housing with RO membranes Mounted on skid & FRP pressure tubes.
Type of Membrane	Thin Film Composite Polyamide
MOC of Membrane	Polyamide
Make of Membrane	HI-TECH / TORAY USA / Flimtec USA
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	14 to15 kg/cm <sup>2</sup>
Feed Flow	1200 LPH
Product Flow Rate	150 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
TDS Meter	1 Nos.

Note: The budgetary offer is inclusive of all taxes, duties for performing the work & exclusive of GST.

Signature [In full and initials]:

Name & Title of Signatory:

Name of Agency: