

RIO/DCA/Asta Infra / 24-25**8th Oct, 2024**

To,
M/s. Asta Infra Pvt Ltd
Hyderabad

Kind Attn : **Mr. Ashok**

Dear Sir,

Subject: Offer for 1000 LPH RO System – Indromatic 405 model-Ion Exchange Make

This is in reference to the meeting your good self-regarding the requirement of RO Water Treatment Plant for drinking water application. Based on the same, we are pleased to submit our offer for INDION Reverse Osmosis water treatment plant.

The R.O. Plant offers you the following advantages over the conventional Water Treatment Plants :

1. It removes upto 90-95% dissolved solids.
2. It is simple to operate, moreover the operation of the R.O. Plant is a continuous process.
3. The modular construction of RO Plant makes the expansion easy.
4. Since the size of the plant is very small, herefore, it offers economy of space.
5. RO Plant requires smaller investment in respect to chemical storage facilities.
6. R.O. is better suited to handle deteriorating feed water quality than other water treatment sytems. Deterioration in feed water quality can occur particularly if the water is from an underground source.

The following annexes form part of our offer:

ANNEXURE - I : DESIGN BASIS & TREATMENT SCHEME.
ANNEXURE - II : SCOPE OF SUPPLY.
ANNEXURE - III : SCHEDULE OF TECHNICAL DETAILS.
ANNEXURE - IV : SCHEDLUE OF EXCLUSIONS.
ANNEXURE - V : SCHEDULE OF COMMERCIAL TERMS & CONDITIONS.

We hope that you will find the above in line with your requirements. Should you require any further clarifications, please feel free to contact us.

Thanking you & assuring you our best services at all times,

Yours faithfully,

P Srinivas Reddy

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ANNEXURE - I**DESIGN BASIS & TREATMENT SCHEME**

Design basis :

Raw water source : Bore well- Test
Feed water TDS (Tested water sample TDS-450PPM)
TH- 250 PPM

Plant Design TDS is 25000PMM

Silt density Index: < 4

Turbidity : 1 NTU

BOD: Nil

COD : Nil

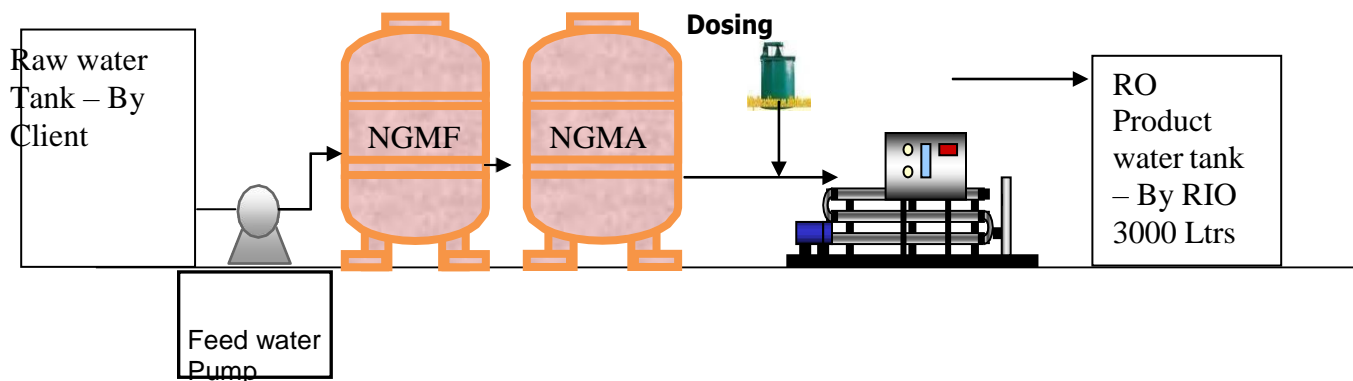
CLIENT REQUIREMENT

You have indicated your treated water requirement to be 1000 Lit./hr.

We have designed the R.O. system based on the raw water analysis (TDS -450 PPM)

PROPOSAL

Based on the above, we have envisaged the following water treatment scheme, to cater to your requirement :



Treated water Parameters

Unit	Parameter	Treated Water	Unit
RO Plant	Total Dissolved Solids	< 50	PPM

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ANNEXURE – II**SCOPE OF SUPPLY**

Two No	Filter Feed Pump With r panel , Level control /Starter Panel
One No.	Multi grade Filtration plant, complete with pressure vessel, internals, frontal pipe work, valves and the first charge of filtering media.
One No.	Activated Carbon Filtration plant, complete with pressure vessel, internals, frontal pipe work, valves and the first charge of filtering media.
One No	Dosing system for antiscalant comprising of an electronic metering pump and a solution preparation tank.
One No.	High pressure pump.
One Set	R.O. skid in mild steel frame painted with one coat coats, of primer and two finishing consisting of : One No. cartridge pre-filter One No High pressure pump along with drive motor. One Set of PVC / SS high pressure piping. One Set of valves for permeate, reject and inlet lines. One Set of FRP pressure tubes with end caps. One Set of RO membranes-5 Nos One No. control panel fitted with conductivity indicator. One No. wet panel, consisting of two nos. pressure gauges and Two nos. rate of flow indicators. One No. low pressure switch for pump suction.
One set.	Interconnecting pipe work - CPVC ISI approved (standard make)within RO Plant area only From Raw water pump to Sand filter to Carbon filter to RO plant and to Storage (treated water tan

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Sr.No.	Items Offered by RIO WATER SOLUTIONS	Quantity
		(Nos)/Unit
1	NGMF- 30-Flow rate , 3m3/Hr Sand Filter- Make Ion Exchange	1.00
2	NGMA-30-, Flow rate 3m3/Hr, Carbon Filter- Make Ion Exchange	1.00
3	Dosing System- CDS - For Antiscalant & PH correction, Dosing pump rating 0-6 LPH , With Dosing tank 100 Ltrs – Make -E Dose	2.00
4	RO System with control panel , and complete skid - INDROMATIC 405 with -4Inch -5 Membranes - Make Ion Exchange	1.00
5	ICPW- Plumbing between Filters & RO plant and SS tanks	LS
6	Alfa UV system with Panel 1000 LPH-ECS15L Model-Make Alfa	1.00
7	Antiscalant- Indion 8110 30 Ltrs for Dosing-Make Ion Exchange	30.00 Kgs
8	SS Tank 3000 Ltrs -SS 304 , thickness 0.6 mm, Food grade with stand – Make : Nova	1 no
9	Fedd water pump with motor , 3 Phase-1.5 HP, Kirloskar make , Flow rate 4m3/hr- Head 35 Mtrs- Model AGNES 4-50	1W+1S
10	Electrical cabling with Cable tray on flooring with necessary supports for feed water pumps and other electrical equipment	LS
11	Welding, unloading, Freight charges	
12	Erection & Commissioning,	

ANNEXURE – III**SCHEDULE OF TECHNICAL DETAILS****1. Filter Feed pump**

Type	:	Centrifugal
Make / Model	:	Kirloskar/Eq.
Capacity	:	4 m3/hr
Motor	:	3 Phase 2900 RPM

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2. MULTI GRADE FILTER MODEL

: **NGMF-30**

Max. flow Rate	:	m ³ /hr	3.0
Inlet/Outlet connection	:	mm	32MM
Max. working pressure	:	kg/cm ² g	3.5
Width	:	Inch	14
Height	:	Inch	65
			150
Media	:	Kgs	

3. ACTIVATED CARBON FILTER MODEL

: **NGMA-30**

Max. flow Rate	:	m ³ /hr	3.0
Inlet/Outlet connection	:	mm	32 mm
Max. working pressure	:	kg/cm ² g	3.5
Width	:	Inches	14
Height	:	Inches	65
Media	:	Kgs	65

4. ANTISCALANTDOSING SYSTEM

: **E -Dose/Eqvt**

Chemical Tank Volume	:	ltr	100
Dosing Pump Capacity	:	0-6 LPH	

REVERSE OSMOSIS SYSTEM WITH Control Panel - Ion Exchange India Ltd. Model Indromatic 405

Permeate flow rate	:	
1000 LPH	:	1000LPH
Raw water flow rate m ³ /hr	:	3.0
Recovery %	:	30 %
Membrane dia. Inch	:	4
No. Of Membrane-	:	
Make Ion Exchange –	:	
Hydramem	:	5nos

II)

High pressure pump	:	
Type	:	Multistage centrifugal
Make / Model	:	Grundfos/Equivalent
Capacity	:	3.3 m ³ /hr
Motor	:	3 Phase 2900 RPM

III) Cartridge filter

Micron rating	:	5/10
Housing type	:	P P
Number	:	1 Nos.
Make	:	Parker / equivalent

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5 UV Lamp – Alfa Make- 1000 LPH, Model ECS 15L in Product water Outlet-1 No

6) 30 Ltrs of Antiscalant chemical - for commissioning and continuous Operation of RO plant

7) SS Tank 3000 Ltrs -SS 304 , thickness 0.6 mm, Food grade with stand – Make : Nova-1 No

8) Raw water Feed pumps 1 working + 1 Standby – Kirloskar Make – Model AGNES 4-50, 1.5 HP, 3 Phase , Monoblock , SS 304 Impeller and casing -Head 35 Mtrs- 2 Nos (1W+ 1S)

ANNEXURE - IV

EXCLUSIONS

1. All civil works including equipment foundations, drains, drain sumps etc.
2. Raw water storage tanks , Treated water Storage Tanks Transfer pumps for treated water.
3. All electricals Incomer cabling, power cabling, earthing, wiring, lighting etc.
4. Unloading, storage, handling, safety & transportation of equipment at site.
5. All pipe work beyond termination points mentioned below.
6. Equipment's / services not specifically mentioned as forming part of our offer.

TERMINATION POINTS

- Inlet Filter feed pump
- Permeate from R.O. storage tank
- Reject from R.O. Unit
- Incomer to junction box

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Client scope

S No	Description	
1	All Civil work/ HDPE Tanks	As per requirement
2	Inlet, outlet, drain and inter-connection pipe work/ Distribution and Re-circulation pipe lines	As per requirement
3	MCC electrical panel- Incomer to RO control pnael	As per Requirement

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Authorized Channel partner for Ion Exchange(India) Ltd



ANNEXURE - V

COMMERCIAL TERMS & CONDITIONS

Prices : Our prices as per **Annexure 'II'** of scope of supply are as follows :

Reverse Osmosis System of capacity 1000 LPH – Ion Exchange Make with necessary schedule of items will be Rs. **8,72,255/- (Rupees Eight Lakhs Seventy Two Thousand Two Hundred & Fifty Five Only)-**

Freight is Inclusive :

Taxes- Extra at actuals (GST-18%)

Terms & conditions: 40 % in advance along with your commercially and technically clear order.

-40 % against Proforma Invoice prior to dispatch.

-20% After installation & commissioning.

Please Note: In case of any delays due to the site condition's the final payment to be released within Four weeks from the date of 100% supply of the equipment.

Delivery Schedule: Our delivery for the above equipment shall be within 4 to 6 weeks from the date of receipt of your commercial order along with advance.

WARRANTY: The plant supplied by us will remain under warranty for a period of 12 months from the date of commissioning or 18 months from the date of dispatch, which ever is earlier, provided the unit is operated as per the recommended procedure in the operating / instruction manual. Consumables are not covered under warranty.

Validity: This offer stands valid for 30 days from the date of this offer.

We trust our offer is in line with your requirements. Please revert for any further information / clarifications required.

Looking forward for your valuable order and assuring you of our best services at all times.

Thanking You,
Yours faithfully,
For **RIO WATER SOLUTIONS**

P Srinivas Reddy
9030000767

RIO WATER SOLUTIONS

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