



KRISHNA
ORGANICS & CHEMICALS
 (A unit of Power Chem. Chemicals)
 (Complete Solution of Water Technology)

18-	Media	4/8	50 kg	✓
19-	Activated Carbon	800IV	25 kg	✓
20-	Dosing Pump		1 nos	Healthy
21-	UV Sterlizer		1 nos	

SCHEDULE OF EXCLUSION

EXCLUSIONS

The following equipment/work is excluded from our scope:

1. All civil works
2. All electrical supply for work & control panel .Unloading, storage, insurance & security of equipment at site.
3. Relevant connections from termination points given in our offer.
4. Raw water, Break tank & final treated water storage tank.
5. Transfer pumps and all Interconnecting Pipe works.

TERMINATION POINTS

- Inlet point of Raw water Feed Pump
- Outlet of RO UNIT

ANNEXURE – V

PRICE & COMMERCIAL TERMS

Our prices for supply and supervision of erection and commissioning of equipment according to the various annexure are given below:

1. **Supply of Equipment Reverse Osmosis Plant : 115000/- Rs. Only**
(One Lakh Fifteen Thousand Rupees only)
2. **Supervision of Erraction and Commissioning: 5000/- Rs. Only**
(Five Thousand Rupees only)

(Unloading, storage and security of equipment and labor, tools and tackles by purchaser)

Final Rate
 Rs. 99,000/-

TERMS & CONDITIONS:-

Payment Terms - 50% against with P.o. releasing and 50% at material dispatch and balance after work completion

Taxes extra @ As the condition Taxes extra as actual service tax @ 18%

1. Freight & Forwarding Charges = Included.
2. Delivery = 7 days after received PO and Payment.
3. Validity = The offer is valid for 45 days.
4. Warranty 1 Year except plastic material, filter & membrane.
5. The estimated no. of days considered for supervision of erection and commissioning is 1 week.

CHECK LIST

DISCOUNT - *as per above*

PRICE BASIS : FOR BHIWADI *FOR-JALBA*

P & F : INCL / EXTRA

GST/IGST : *5% + 18% before*

DELIVERY : *One week*

PAYMENT : *100% After receipt of material within 7 days. warranty: one year*

GC/WC/TC

VALIDITY : *_____*

CHECKED BY : *Rajpal*

Total Rs. 1,20,000/-

5/11
Varn
 2/11/2025
 Discussed with Mr. Deepak and agreed to reduce above
 (Signature)
 3/11/25

• 3/75, RHB Housing Board Near Central Market, Bhiwadi (Raj) 301019
 • GST IN 08DIAPK5489L1Z1N

• Mail Id : krishnachemicals@gmail.com



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Reverse Osmosis Plant

Capacity:	500 LPH
No. of Membranes:	2 nos.
Size of Membranes:	4040 (4" Dia., 40" long)
Make of Membranes:	Dow
MOC:	Polyamide
Membrane Housing size:	AS per design
Membrane Housing operating:	300 psi
Make:	UKL/Pentair
Housing MOC:	FRP

NOTE: PUMPS FLOW RATE DEPENDS UPON HEAD (DECREASE THE HEAD INCREASE THE FLOWRATE)

ANNEXURE – IIIS

MISLANOUS SCOPE OF SUPPLY

SR. No.	ITEM DESCRIPTION	CAPACITY/SIZE	QUANTITY	MOC/MAKE
1-	Stand	500ltr.	1 nos	SS ✓ 304
2-	Vessel (MGF+ACF)	1054	2 nos	Pentair ✓
3-	Raw Water Pump	1 HP	1 nos	CRI ✓
4-	High Pressure Pump	2-11	1 nos	CRI ✓
5-	Jumbo Housing	4x20"	1 nos	FRP ✓
6-	Jumbo Spun	4x20"	1 nos	
7-	Membrane Housing	4080	1 nos	UKL/Pentair ✓
8-	Membrane	4040	2 nos	Dow (Dupont) →
9-	Rotameter		2 nos	Aster - Initiative
10-	Multiport Valve	¾"	2 nos	SS/Equip ✓
11-	Pressure Guage	0-7 & 0-21	2 nos	
12-	Panel Small Digital		1 nos	Manual ✓
13-	Low Pressure Switch		1 nos	Aster/NXT ✓
14-	Floty	3m	1 nos	
15-	Solenoid Valve	¾"	1 nos	
16-	Pipe and Fitting		1 lot	UPVC ✓
17-	Electricals		1 nos	

- 3/75 , RHB Housing Board Near Central Market ,Bhiwadi (Raj)-301019
- GST IN 08DIAPK5489L1ZN
- Mail Id : krishnachemicals84@gmail.com



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MGF (MULTI GRADE Filter)

Filter Media: ✓
Flow Rate:
MOC:
Make:
Size:
Operating pressure:
Warranty:

Media →
2M3/H
FRP
Pentair →
(dia-10" & hight-54")
75 psi (5 kg/cm²) ✓
1 Year ✓

ACF (ACTIVATED CARBON FILTER)

Filter Carbon: ✓
Flow Rate:
MOC:
Make:
Size:
Warranty:

Carbon
2M3/H
FRP
Pentair →
(dia-10" & hight-54")
1 Year

Cartridge Filter

Filter:
Flow:
MOC:
Make:
Pressure:

4x20" {1 NOS CARTRIDGE HOUSING}
5m3/hr
FRP →
NS Operating
1-3 kg/cm²

Chemical Dosing Pump (RO Antisclant)

Pump capacity:
Quantity:
MOC:
Make:
Dosing Tank Capacity:
Dosing Tank MOC:

0-6 LPH@4 bar ✓
01 Nos. ✓
PP ✓
CLD/EDOSE ✓
50 liter ✓
HDPE ✓

RO High pressure Pump

Pump Capacity:
Size:
Quantity:
MOC:
Make:

2.5m3/Hr@11 bar ✓
2-11 ✓
1 Nos.
SS 304
CRI ✓



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Recovery of 70 % APPX. LIMITING CONDITIONS ON FEED WATER TO R.O. UNIT

Bacteria, Organic	Nil ✓
Oil & Grease	Nil ✓
Temp	< 40 Deg.C.
BOD	<1
COD	<3
Colour	Absent
Odour	Absent
Turbidity	<1 NTU
Silt Density Index	<3 NTU
Free Chlorine / Strong oxidizing	Nil Total
Iron	<0.1 mg/l
Heavy Metal	Nil

All limiting conditions must be observed during the plant operation for satisfactory performance throughout the membranes/plant life .Please consult enterprises for remedial measuresrequired, if any, if the limiting conditions are exceeded.

Treated water Quality-RO PLANT

PH:	6.5 APPX. ✓
TDS :	<50PPM ✓
Total Hardness :	<10ppm ✓
Capacity:	500 LPH ✓
Operation	Hr/day) → 12 hours
chlorides:	<20PPM
Recovery %:	70% appx.

ANNEXURE – II

TECHNICAL SPECIFICATION & SCOPE OF SULLY

Feed Pump

Pump Capacity:	1 HP ✓ = CRI
Head:	06 MTR ✓
Quantity:	01 Nos. ✓
MOC:	MS ✓
Make:	CRI ✓



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Source of Water Bore well water

Total Dissolved Solids
Total Alkanity
Chloride
Sulphate
Temporary Hardness
Permanent Hardness
Total Hardness
Turbidity
Iron
Silica

1500 mg/ltr. ← *Poerant*
ppm → *350 PPM*
ppm → *450 PPM*
ppm → *250 PPM*
ppm → *250 to 270 PPM*
ppm → *ETP*
mg/ltr. → *—*
mg/ltr. → *—*

ANTISCALENT DOSING

A/S shall be dosed in order to avoid any scale formation on RO membrane, thereby leading to longer membrane life and avoid fouling problems, which may arise due to scaling. We are recommending dosage of 5 to 10 ppm of our Antiscalant.

R.O. Plant

a) Micron Filtration

The water from the above unit shall be passed through a Cartridge filter assembly with cartridges of 5 microns nominal rating. This has been incorporated to carry on fine filtration before subjecting the water to RO Membranes. This will avoid choking of the membranes.

b) R.O. FEED WATER PRESSURISATION

The RO plant works on higher pressures because of the Osmotic pressures, therefore, the feed water RO is first pressurized by pumping it through a High pressure pump.

c) DESALINATION BY R.O

Pressurized water from high pressure pump shall be fed to the RO Membranes held in RO Pressure Tubes, wherein there will be a rejection of the dissolved solids and the permeate you will get will be with reduced dissolved solids. We recommend you to go for R.O units with flow rate of and these units can deliver output of 450 LPH (15 hours operation Appx.) Recovery and quality of water from the system will vary based on your feed water characteristic and as per your present raw water analysis report you can run this unit with maximum



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M/S JINDAL ALUMINIUM LIMITED
Add: - SP-2/333, RIICO Industrial Area, Bhiwadi-301019
(Dist : Alwar) Rajasthan

Date:- 29-11-2022

SUBJECT: REVERSE OSMOSIS PLANT 500 LPH 70% RECOVERY

This is with reference to the discussion held with your good self-regarding your requirement of water treatment plant for RO drinking plant. We thank you very much for your kind interest in our range of products. We acknowledge with thanks the receipt of your enquiry for the above subject matter. We are also pleased to introduce ourselves as one of the leading company in the field of water Treatment, Filling systems and all other relevant machines and components. We have designed the plant as per your requirement and shall meet all the Indian standard norms for packaged drinking water. We have included all the necessary equipment to give you a well- engineered and reliable Water Treatment for Packaged Drinking Water. We have earned a high reputation in the industry for our quality, design and performance. Our technical expertise is always at your disposal to assist you in operating and maintaining systems for years to come. The enclosed bid index forms part of our detailed offer. We hope you will find our offer and business terms in the line of your requirement. Should you require any further clarifications/information we shall be glad to furnish the same.

In case you required any further clarification please feel free to contact us.

Thanking you and assuring you of our best services always.

ANNEXURE - I

DESIGN SCHEME

BASIS 1. Requirement - REVERSE OSMOSIS PLANT (RO) for Bore well Water- Water
(RO Cap:-500 LPH)

2. Raw Water Parameters

Our Design and system assembling is entirely based on the following Raw / feed water data. Water analysis as provided by you or assume and design at 1500 ppm.

DESIGN AT RAW WATER ANALYSIS

Our Design and system manufacturing / assembling is entirely based on the following Raw /feed Water analysis detail as tested by you.

*Present TDS
900 PPM*

- Approx - 350 (228) / kg

*Achievable
90 to 100 PPM
may go up to 50 to 60 PP.*



DELHI ENVIRONMENTAL SERVICES

ISO 9001:2015 CERTIFIED COMPANY
 Off. Add. : House No. H-154, Gali No.-14, Kunwar Singh Nagar, Near Budh Bazar Road, Nangloi, New Delhi-110041
 E-mail : delhienvironmental@gmail.com, rkguptanv@gmail.com Website : www.delhienvironmental.com,
 Mob. : +91-9911775384, +91-9250655679

SR. NO	DESCRIPTION	PRICE IN RS.
1	Our Prices for Supplies & Installation of Complete 500 LPH R.O. System With Standby Accessories as per Scope of Supplies mentioned in earlier Annexure.	Rs. 1,38,000/- (Without Civil Work)
<p>The above prices are Ex Works Delhi and the following will be Extra as under</p>		
A	Packing and Forwarding	<u>2 % on Basic</u>
C	IGST Tax on Basic,	<u>18 % on Basic</u>
D	Transit Insurance	<u>By Client</u>
E	Installation & Commissioning of All Equipments	<u>10% on Basic</u> Included
F	Works Contract Tax	<u>As applicable</u>
G	Transportation up to your site	<u>By Client</u>
H	Site Storage , Security Etc.	<u>By Client</u>

Final Rate including Installation Charges: Rs. 1,38,000/-
Total Price: Rs. 1,57,500/-

→
→
→
→
→
→

CHECK LIST

DISCOUNT : Rate as above.

PRICE BASIS : FOR BHIWADI FOR-JAL BWP

P & F : INCL / EXTRA

IGST : 18% Excl. of

DELIVERY : 10 days after

PAYMENT : 100% After Commissioning of Plant

Warranty : within 7 days

Checked by : Rajgopal

Date : 02/12/23

Discussed with Mr. Gupta and not agreed to reduce Price further

We Care: Waste Water Treatment, Sewage Treatment, ETP, OGD, Foundation Control Device, Turn-key Basis, O & M & Liaisoning Work
 Reg. Address: B Block, B-623/13, Chandan Park, Vasant Vihar, Nangloi, New Delhi-110041



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E-mail : delhienvironmental@gmail.com, rkguptanv@gmail.com Website : www.delhienvironmental.com,
Mob. : +91-9911775384. +91-9250655679

Hereby we are pleased to give our proposal for the same assignment, which is as follows: -

SCOPE OF WORK

Delhi Environmental Services shall design, supply and commission the R.O. Unit in the said assignment.

BASIS OF DESIGN

Input Data :

Design Flow: 500 Liters/Hrs.

Characteristics of Raw water

pH	- 7.0 – 7.5
Hardness	- 250 mg/Ltr. (Exp.)
Total Dissolved Solid	- 1500 mg/Ltr. (Exp.)
Output Permeate	- 6000 Ltrs./Day ✓

Quality of make up water:

pH	- 6.8 – 7.0
Total Dissolved Solid	- < 80 mg/l



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SPECIFICATION DETAIL:

Supply material details for RO Unit Cap.- 1000 LPH (TDS: 1500)

S.No.	Description	Model / Specification	Qty.
			2 Nos.
1	Raw Water Pump 100LPH / 30Mtr.	CRI / WILO ✓	01 No.
2	PSF(Vessel)	Pentair 1265 ✓	01 Lot.
3	Sand Media	Differnet Grade	01 No.
4	Multiport Valve	1.0" SMF	02 Nos.
5	Distribution System		01 No.
6	ACF(Vessel)	Pentair 1265	01 Lot.
7	Carbon	Carbon-800IV	01 No.
8	Multiport Valve	1.0" SMF	02 Nos.
9	Distribution System		01 Set.
10	BB Housing With Spun Cartridge	Denfos	01 No.
11	Low Pressure Switch	Minlac	02 Nos.
12	High Pressure Pump 1000LPH	CRI/ WILO	01 No.
13	High Pressure Switch	Denfos	01 No.
14	Membrane Housing	FRP 40X40 1 Ele.	02 Nos.
15	Membrane	TORY/HYDRONAUTIC	01 No.
16	Rotameter - Reject Water		01 No.
17	Rotameter - Product Water		01 No.
18	Rotameter - Recirculation Water		01 Set.
19	Control Panel (PLC BASED)	Electrical	01 Set.
20	Skid	SS 304 ✓	01 No.
21	Online TDS Meter		01 No.
22	Anti-Escalante Dosing Pump	E-Dose ✓	01 No.
23	LLDP Chemical Dosing Tank	Syntex/ Jindal ✓	02 Nos.
24	Pressure Guage		01 Lot.
25	S.Valve	1"	01 Lot.
26	NRV		01 Lot.
27	Pipe & Fitting (UPVC)	Astral U-PVC ✓	01 Set.
28	Dosing Pump & Tank	E-Dose ✓	03 Mtrs.
29	Floaty 3Mtr.		
30	Installation & Commissioning Expenses		

We Care: Waste Water Treatment, Sewage Treatment, ETP, OGT, Air Pollution Control Devices, on Turn-key Basis, O & M & Liaisoning We
 Reg. Address: B-Block, B-623/18, ChandanVihar, NihalVihar, Nangloi, New Delhi - 110 041



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COMMERCIAL TERMS AND CONDITIONS

Delhi Environmental Services has carefully tested and standardized with selected world renowned products and components for its system manufacturing. Although we will provide a test certificate for complete system offered by us. In case if any special test certificate for individual product/component is required, by the client, it will be charged extra by us.

PAYMENT TERMS:

50% Advance along with techno-commercial clear Purchase Order.

40% + IGST against Performa invoice prior to before dispatch the material.

10% after installation & commissioning.

VALIDITY:

The offer is valid for 30 days.

DELIVERY:

We shall complete supply of system as mentioned in our technical specification within 8 - 10 days from the date of receipt of Purchase Order along with advance payment. Delivery is subject to force majeure conditions.

GUARANTEE/WARRANTEE:

The equipment supplied is guaranteed for a period of 12 months from the date of commissioning or beneficial operation of plant.

Equipment Guarantee is valid against defective workmanship and /or poor performance of the system only. Our liability is limited to repair or replace