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| --- | --- | --- | --- |
|  | | | Date :- 23rd July 2019  Tuesday |
| Quotation No | :- | RW/2019-20/Q\_2522/R\_6 |  |
| Concern Person | :- | Mr. Apurva |  |
| Concern Number | :- | 9820001716 |  |
| Email Id | :- | [apurva@essenrfid.com](mailto:apurva@essenrfid.com) |  |
| Company Name | :- |  |  |
| Address | :- |  |  |

# Quotation For Water Treatment Project

## Dear Sir ,

We are pleased to enclose our detailed Techno-Commercial offer, based on your requirement.

**Contents of the Quotation** Commercial Proposal Terms & Condition

Technical Specification for each product

## Machinery Offer

Water Treatment Project

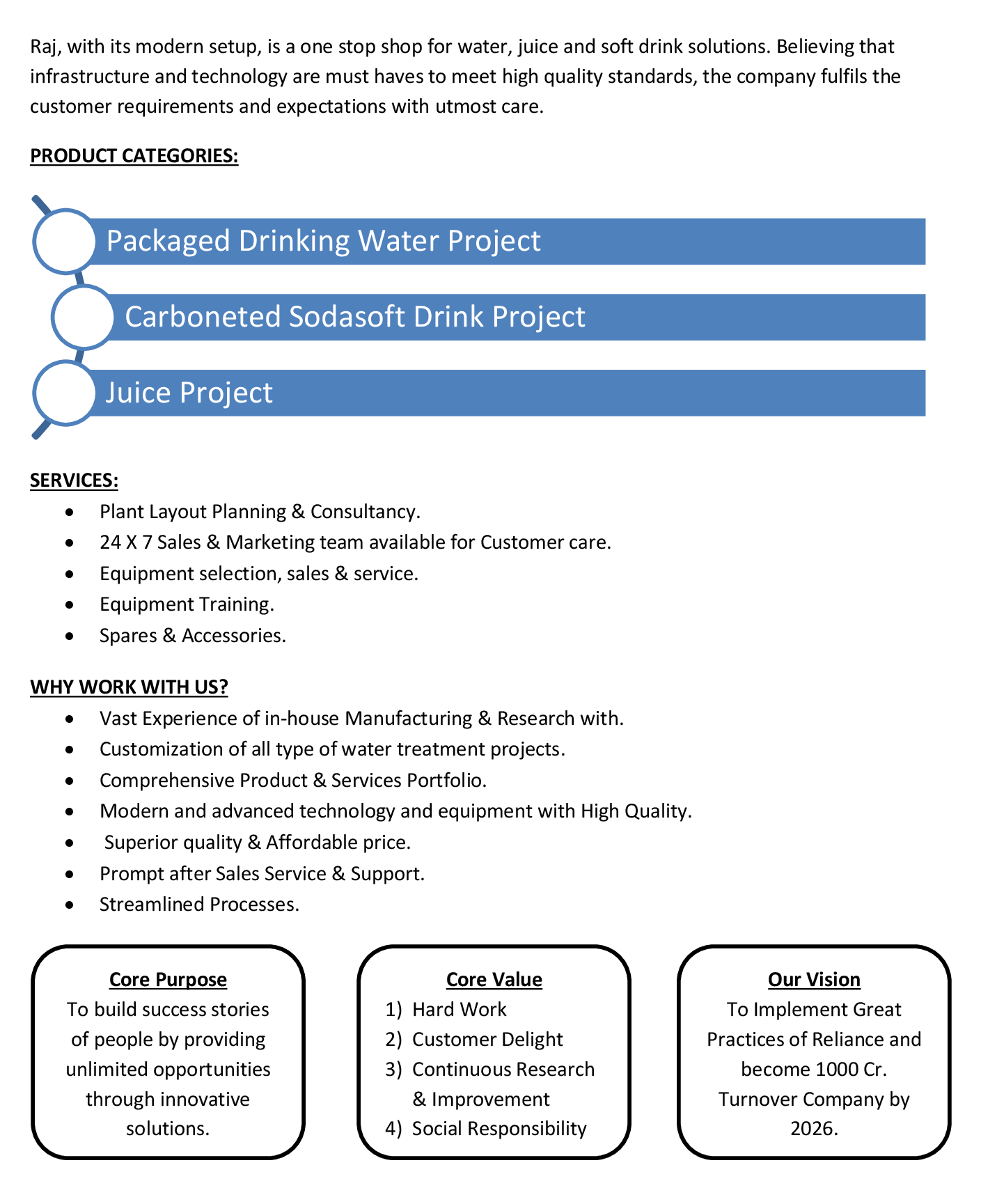
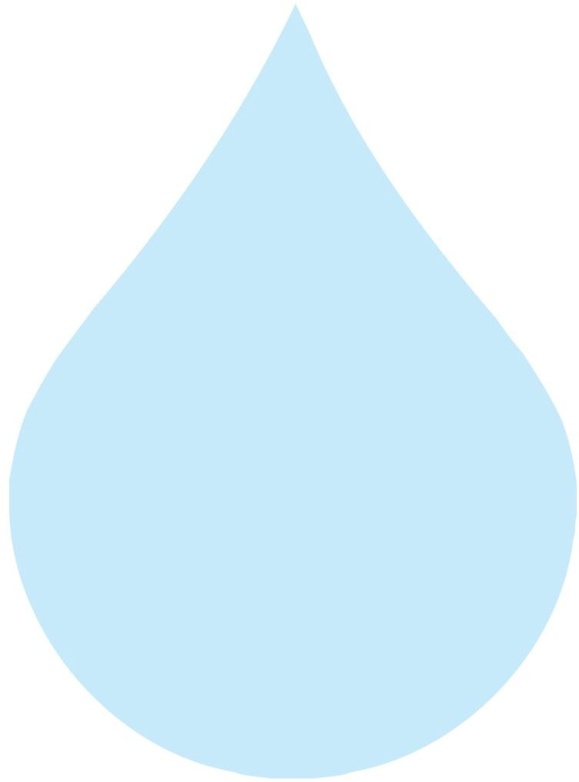
We hope the same is in line with your requirement. We shall gladly assist you in case you need any further clarification or information.

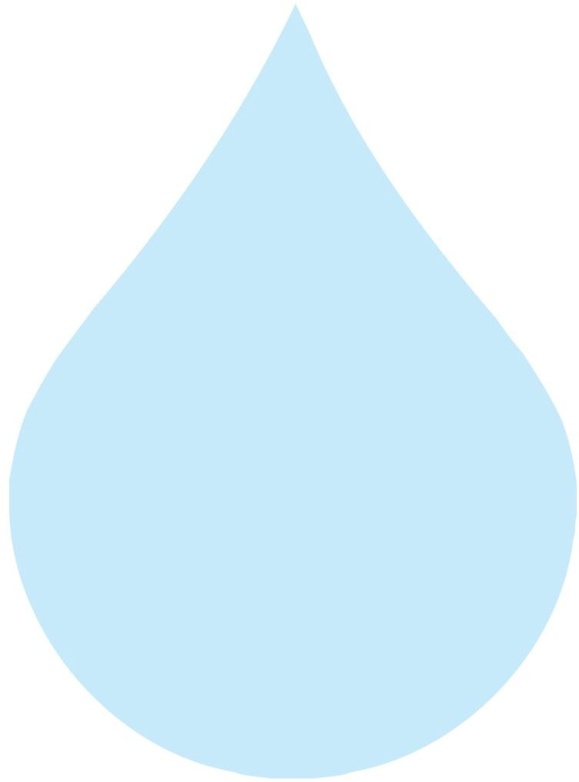
With warm Regards,

## For , Raj Water Technology (Guj.) Pvt. Ltd.

**PARMAR CHIRAG**

**Designation : Marketing Asst. Manager Mobile : 7043511222**





|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr No.** | **Equipment Name** | **Qty** | **Basic Rate** | **Amount** |
| 1 | RO Plant FRP 3000 Litre Per Hours | 1 | 375250.00 | 375250.00 |
|  |  |  |  |  |
| **Total Amount in Words :-**  Three Lakh Seventy Five Thousand Two Hundred Fifty | | | **Total Amount** | **3,75,250.00** |

1. **Price**

The Quoted Prices Are Ex-factory. (For India) The Quoted Prices Are FOB. (For Export)

1. **TAX**

GST 18% Extra Applicable. (For India)

1. **Payment**

50% Advance Along With The Purchase Order, 30% Before Material Dispatch & 20% After Installation,

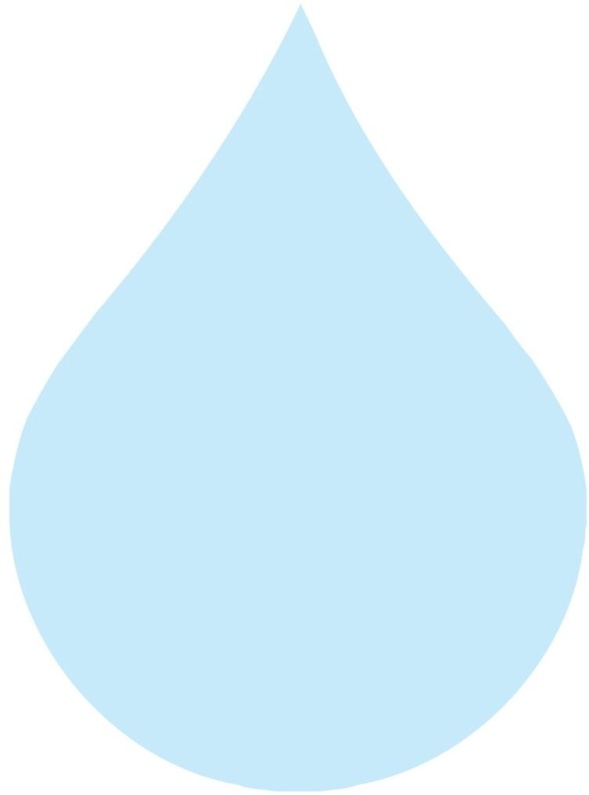
In Case Of Cancellation Of Confirmed Order Due To Any Reason, As A Part Of Penalty 25% Amount Of The Order Value Shall Have To Pay By You To Raj Water.

1. **Packing, Freight & Transit Insurance, & Unloading**

Packing Charge Will Be Extra (Depend On Packing Material)

Transport To Be Arranged By The Customer OR If Arranged By Raj Water: Extra At Actual Plus GST. Transportation Insurance In The Scope Of Buyer.

Unloading In The Scope Of Buyer. Buyer Has To Ready Forklift Or Crane And Unskilled Labor.

1. **Delivery**

Schedule For Dispatch Will Be Notified.

Delivery Dates Are Approximate Only, And Assume Timely Receipt Of All Information, Test Materials & Payment.

1. **Warranty**

We Shall Provide 1 Year Warranty For The Following:

Manufacturing Defects, Raw Water Pump, High Pressure Pump, Treated Water Transfer Pump.

Due To Fluctuation In Power Supply, Attempted Repaired By Person Other Than Our Technical Representative, Improper Handling Or Negligence By End Users, Poor Maintenance, Improper Use Of Equipment, That All Type Of Damage Not Covered In Warranty Create Area.

During The Warranty Period, We Shall Provide Supervisory Services Of Our Technical Representative As And When Required.

1. **Accommodation**

Technician Charge Will Be Extra 1000/- Rs. Per Day.

Travelling, Lodging And Boarding, Local Conveyance And Any Other Miscellaneous Expense Of Our Technical Representative Will Have To Be Borne By Client.

1. **Validity**

Our Offer Is Valid For Your Acceptance For A Period Of 6 Months From The Date; Thereafter It Will Be Subject To Confirmation By Us.

1. **Image**

Images Are For Representation Purpose Only.

1. **Jurisdiction**

All Terms Subject To Rajkot, Gujarat Jurisdiction.

# Technical Specification

## Raw Water Quality

R.O. plant is designed based On :

1500 TDS

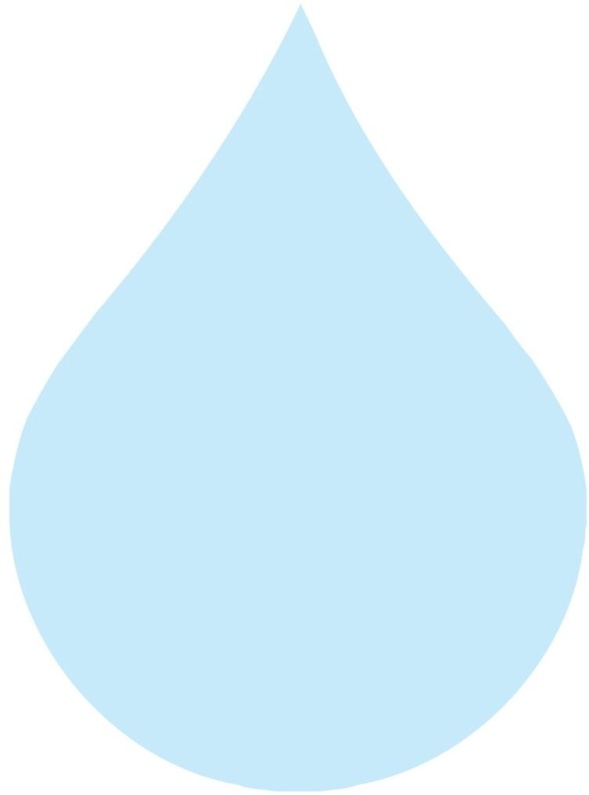
Hardness : 300

### Application :-

1. **Treated Water Quality**

Suspended Solids : Nill Turbidity : Nill

PH : 7.0 To 7.5

T D S : Less than 40 ppm Total Hardness : 30 ppm as CaCo3 Bacteria Coliform : Nill

### Application :-

The above water quality is approximate assumption, We can change property of minerals/ions in water by editing the raw water in R.O. treated water

Type : Centrifugal

Max. Flow : 6.0 m3/HR

Working Flow : 5.50 m3/HR Working Pressure : 2 Kg. / Cm 2

M.O.C. : C.I.

Power : 1 HP

Manufacturer : Kirloskar / EQI

Nos. Offered : 1 Nos.

### Application :-

To Pump Raw Water at Required Pressure so as to enable Transfer Through The RO Pre-Treatment Stage.

## 4. Pressure Sand Filter (FRP)

Type : Down Flow Graded Sand Type

Model : 2162/RW/MGF

M.O.C. : FRP

Size Dia X Height : 525 mmX 1550 mm Pipe Line Size : 25 mm

Sand Qty. : 385 kgs

Valves : Automatic valve

Max. Flow : 8.00m3/hr.

Working Flow : 6.00 m3 /hr.

### Application :-

By means of Multi size Graded sand filled in the Vessel of stainless steel material, which is natural process of filtration adopted by the nature Raw Water is first filtered by filtration unit in series prior feeding RO Plant. Pressure Sand Filter Unit is provided for removal of suspended matters & turbidity from raw water. PSF Unit is a SS vertical Pressure Vessel. Internally, it is fitted with bottom collecting system. Uniform grades silica quartz sand is charged on the supporting media of pebbles and gravels.

Type : Down Flow Graded Sand Type

Model : 2162/RW/MGF

M.O.C. : FRP

Size Dia X Height : 525 mmX 1550 mm Pipe Line Size : 25 mm.

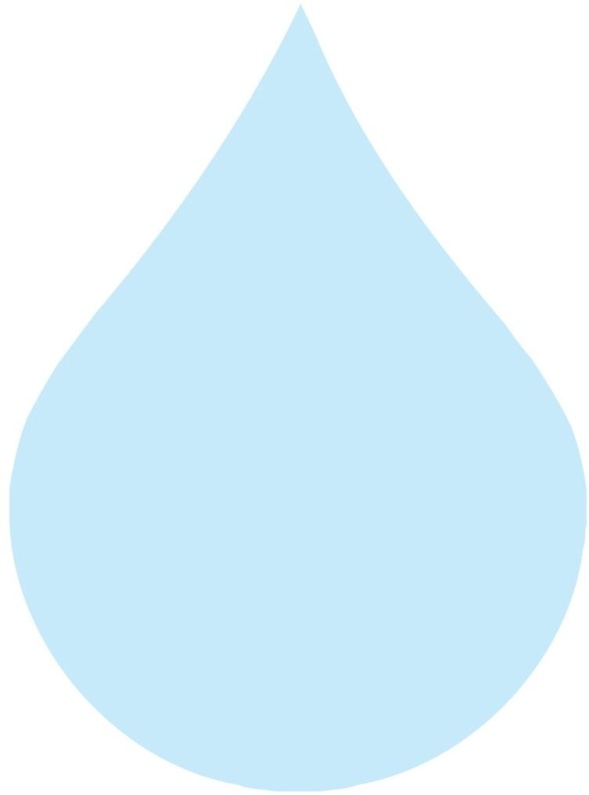
Carbon Qty. : 155 Kgs.

Valves : Automatic valve

Max. Flow : 8.00 m3/hr

Working Flow : 6.00 m3/hr.

### Application :-

To Remove taste, odour, chlorine, colour and. It can absorb contaminated particles of Oil & Grease from the raw water. It will control the BOD & COD in the raw water. Activated Carbon can remove Chlorine, Odour, & Colour other organic material from feed water prior to reverse osmosis. This Carbon granules having larger surface area and specific property to absorb organics.

## 6. Micron Cartridge Filter Housing

Model : MCF 20/RW/PP

Size : 20" Long

Micron Rating : 5 Micron

Type of Candle : P. P. Spun / Wound Material of Housing : PP

Nos. of Candles : 1 nos

Max. Flow : 8.00m3/HR

Working Flow : 6.00 m3/HR

### Application :-

To protect the membrane and the high pressure pump from suspended particles by removing them up to 5 Micron.

Type : Ele. Diaphragm Type

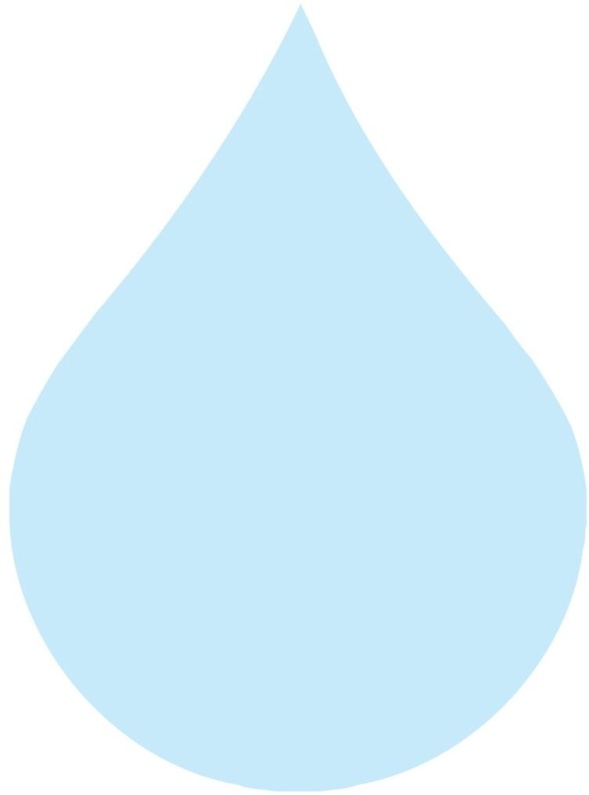
Capacity : 0 to 6 LPH

M.O.C. : PP

Dosing Chemical : Antiscalent Dosing Rate : 3 to 4 LPH

Manufacturer : E Dose / I dose

### Application :-

The hardness salts of calcium & magnesium are likely to be precipitated if concentration exceeds its solubility limit & it may faults the membranes resulting into scaling which ultimately leads to poor treated water quality from R.O.System.

## 8. Antiscaling Dosing Tank

Type : Conical Bottom

Capacity : 100 Ltr.

M.O.C. : HDPE

Manufacturer : Reputed

Type : Vertical Centrifugal Pump

M.O.C. : SS

Max. Pressure : 13 Kgs. / Cm 2. Working Pressure : 10 Kgs. / Cm 2. Max. Flow : 8.00 m3/HR

Working Flow : 6.00 m3/HR

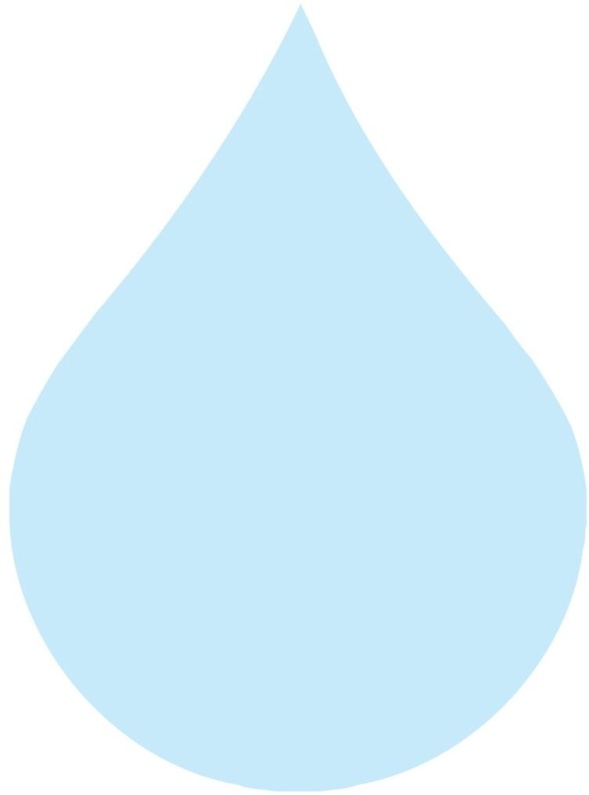
Motor : 3HP

Manufacturer : 2900 RPM

Nos. Offered : 3 Phase

Make of Pump : PNC

### Application :-

For Reverse Osmosis Process to take place feed pressure of water need to be raised. For this purpose a Vertical Multistage Centrifugal High Pressure Pump in S.S construction is provided R.O. System requires operating pressure of about 14-16 kg/cm^2 . High-pressure pump is fitted with S.S. discharge pipe work with necessary control valves. Necessary instruments like a High Pressure Switch, Pressure Gauge and recirculation valves are provided for safer operation of system

## 10. RO Membrane

Model : 4040 Element

Type : TFC Spiral Wound

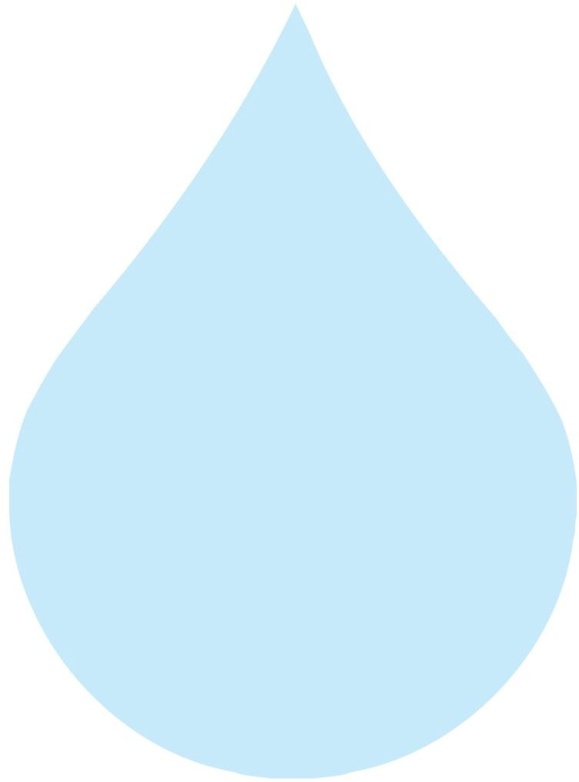
Material : Polymide

Size : 8" Dia X 40" Long

Manufacturer : Toray / Hydranautics / Dow / EQI Nos. Offered : 3 Nos.

### Application :-

To reduce Raw Water T.D.S. through the concept of Reverse Osmosis where R.O. Modules processes Raw Water and produces Purified Water having the Salt Rejection of Raw Water in the range of 90 – 95%. By using Semi permeable Membrane filter elements, where ion filtration process is carried out by applying pressure in the water. So finally we will get Low salt water with low total dissolve solids and High purity. Here will have to drain the water at one side to Wash the Membrane filter elements continuously because of filtration process there is nothing to be polluted in the system.



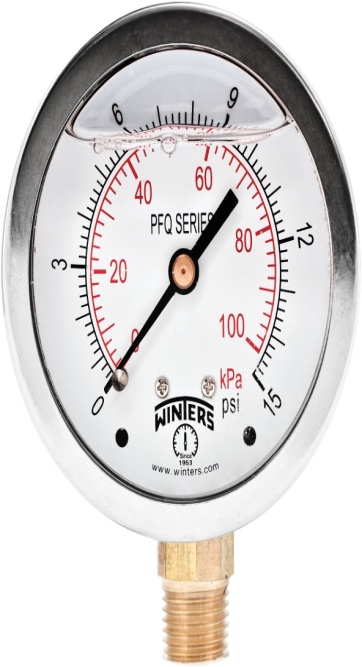
M.O.C. : FRP

Type : Horizontal Tube Type

Size : 8" X 120"

Max. Pressure : 400 PSI Working Pressure : 150 PSI Nos. Offered : 1 Nos.

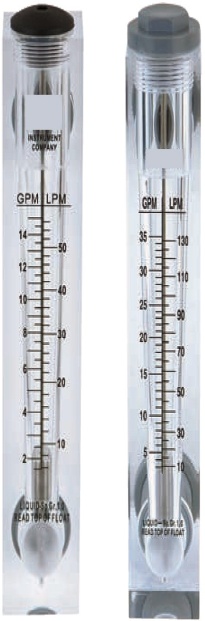
## 12. Pressure Gauges

Pressure Gauges : 4 Nos.

Type : Burdone Tube Type

Manufacturer : Raj

Range : 0 - 28,-7 Kg/cm2

Rota Meters : 2 Nos.

Type : Float

M.O.C. : Acrylic Body

Reject Water Range : SS Float (0 - 6000 Lph.)

Treated Water Range

:

SS Float (0 - 4000 Lph.)

## 14. Control Panel - PLC Base

Manufacturer : Astral

Pressure Switch : 2 Nos.

Type : Low / High Pr.

Manufacturer : Denfoss

Model : IPS 70 / 400

## 16. Stand For Unit

Stainless Steel : Complete stand for unit will be made of S.S.304

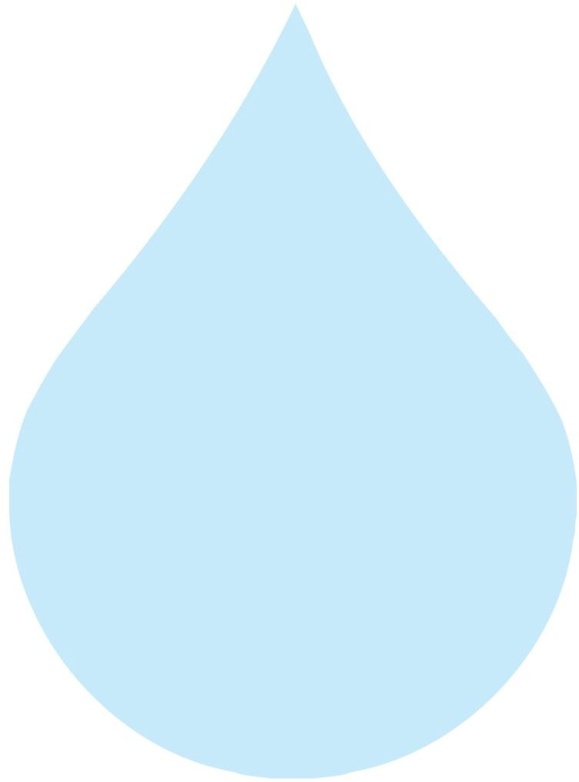
### Application :-

Complete stand for unit will be made of S.S.304

Interconnecting Pipe Lines :

### Application :-

All interconnecting Piping Raw Water Pump to RO will be provided of Upvc by us.

All interconnecting Piping Raw Water Pump To RO will be provided of UPVC by us.