



Decide with Confidence



9001:2015



14001:2015

॥ Shree Umiya Matay Namah ॥



GSTIN : 24AAECR3013M1ZJ

MUMBAI OFFICE :  
116-D, Govt. Industrial Estate,  
Charkop, Kandiwali (West),  
Mumbai - 400067,  
Maharashtra.  
Cell : [+91 73595 95577](tel:+917359595577)  
E-mail : [info@rajwater.com](mailto:info@rajwater.com)

AHMEDABAD OFFICE :  
B/9, Sumel-7, Business Park,  
Opp. Soni ni Chal,  
BRTS Bus Stop, N.H.-8  
Ahmedabad - 382325.  
Cell : [+91 70432 55777](tel:+917043255777)  
E-mail : [export@rajwater.com](mailto:export@rajwater.com)

HEAD OFFICE :  
Plot No. : 27, Survey No. 47, Jivraj Industrial Area,  
Nr. Falcon Pump, Vavdi, Gondal Road,  
Rajkot - 360004. (Guj.) India.  
Cell : [+91 74050 50444](tel:+917405050444) / [+91 70439 55777](tel:+917043955777)  
Website : [www.rajwater.com](http://www.rajwater.com)  
Email : [inquiry@rajwater.com](mailto:inquiry@rajwater.com) / [sales@rajwater.com](mailto:sales@rajwater.com)

Date :- 9th January 2020

Thursday

Quotation No :- RW/2019-20/Q\_7249/R\_4  
Concern Person :- Mr. Ashir Kayavil  
Concern Number :- 7994428296  
Email Id :-  
Company Name :-  
Address :-

## **Quotation For Fully Automatic Sparkling Water Bottling Plant**

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**

- Carbonated Soda Soft Drink 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.

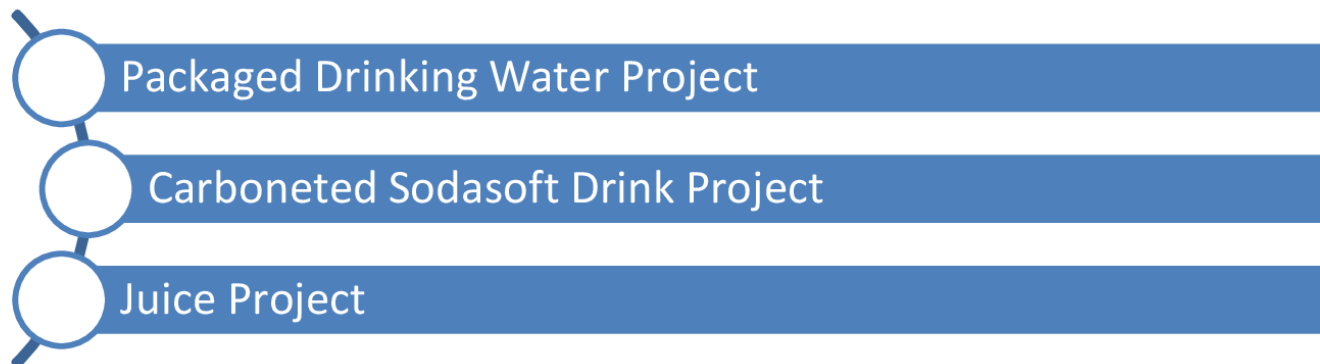
**DHARTI PATEL**

**Designation : Marketing Co-ordinator**

**Mobile : 2816131525**

Raj, with its modern setup, is a one stop shop for water, juice and soft drink solutions. Believing that infrastructure and technology are must haves to meet high quality standards, the company fulfils the customer requirements and expectations with utmost care.

#### **PRODUCT CATEGORIES:**



#### **SERVICES:**

- Plant Layout Planning & Consultancy.
- 24 X 7 Sales & Marketing team available for Customer care.
- Equipment selection, sales & service.
- Equipment Training.
- Spares & Accessories.

#### **WHY WORK WITH US?**

- Vast Experience of in-house Manufacturing & Research with.
- Customization of all type of water treatment projects.
- Comprehensive Product & Services Portfolio.
- Modern and advanced technology and equipment with High Quality.
- Superior quality & Affordable price.
- Prompt after Sales Service & Support.
- Streamlined Processes.

##### **Core Purpose**

To build success stories of people by providing unlimited opportunities through innovative solutions.

##### **Core Value**

- 1) Hard Work
- 2) Customer Delight
- 3) Continuous Research & Improvement
- 4) Social Responsibility

##### **Our Vision**

To Implement Great Practices of Reliance and become 1000 Cr. Turnover Company by 2026.

# Commercial Proposal

Sr No.	Equipment Name	Qty	Basic Rate	Amount
1	8000 Litre Per Hours SS-304 RO Plant With U.V System, SS Storage Tank 4000 Litre 2-Nos	1	1500000.00	1500000.00
2	Flavored Mixing Tank 100 Litre, With Agitator & Pump	1	85000.00	85000.00
3	SS 304 Mixing Tank 5000 Litre, With Agitator & Transfer Pump	2	650000.00	1300000.00
4	Carbonation 3 KL  Carbonation With HP Pump And PHE For Glycol With PHE Tank 3000 Litre (3-KL)	1	1350000.00	1350000.00
5	Automatic Bottle Rinsing, Filling & Capping Machine 90BPM  To Fill From 200ml To 2000ml, With Neck Holding System Single Cap Hopper Unit, No Change Over Parts. Model 16X16X6 Cap, With Inspection Counter, Heat Shrink Tunnel S.S Body Cover, & Acrylic Doors & Fittings	1	2500000.00	2500000.00
6	SS Infeed Air Conveyor 24 Feet With 0.5 HP Blower (2-No)	1	200000.00	200000.00
7	SS Out Feed Discharge 24-Foot Conveyor, With Slate Belt	1	200000.00	200000.00
8	Fully Automatic Pet Blowing Machine 5800 BPH, 4 KVT  1. Auto Preform Ioder and Hopper(SS) 2. Auto Bottle Ejection and Transfer unit. 3. Scrow Stretch Blow unit 4. Air Recovery Unit 5. Air Receiver/Tank made of MS. Theoretical output 5800 Bottles/hr (200 ml - 2000 ml )	1	5500000.00	5500000.00

Sr No.	Equipment Name	Qty	Basic Rate	Amount
9	AIR COMPRESSOR - 75 HP With 20HP BUSTER COMPRESSOR  AIR RECEIVER TANK - 1,000LTR,LINE FILTER - 600 CFM,NEW AIR DRYER - 600 CFM,,NEW AIR COMPRESSOR ,LINE FILTER - HIGH PRESSURE 300 CFM,NEW AIR DRYER - 300 CFM (HIGH PRESSURE),L & T FN-160 TPN SFU IN SS - 50HP,,VFD DRIVE - YASKAWA 50HP,VFD DRIVE - YASKAWA 20HP,VFD DRIVE - PANEL 50HP,VFD DRIVE - PANEL 20HP	1	2075000.00	2075000.00
10	Online Water Chiller 10-Ton With Storage Tank	1	450000.00	450000.00
11	Cooling Tower With Pump	1	100000.00	100000.00
12	650 ML Mould 4-KVT	1	225000.00	225000.00
13	1 Litre Mould 4-KVT	1	225000.00	225000.00
14	2 Litre Mould 4-KVT	1	225000.00	225000.00
15	Sticker Label Machine For Round Bottle	1	800000.00	800000.00
16	Automatic Inkjet Batch Coding Machine	1	200000.00	200000.00
17	Automatic Shrink Wrapping With Auto Bottle Collating Feeding Unit, 90-BPM	1	1350000.00	1350000.00
18	SS Piping RO Plant To Bottle Filling Machine	1	100000.00	100000.00
<b>Total Amount in Words :-</b> One Crore Eighty Three Lakh Eighty Five Thousand			<b>Total Amount</b>	<b>₹ 1,83,85,000.00</b>

# **Terms & Condition**

## **1) Price**

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

## **2) TAX**

- GST 18% Extra Applicable. (For India)

## **3) Payment**

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

## **4) 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.

## **5) Delivery**

- Schedule For Dispatch Will Be Notified.
- Delivery Dates Are Approximate Only, And Assume Timely Receipt Of All Information, Test Materials & Payment.

## **6) Warranty**

- We Shall Provide 1 Year Warranty For The Following:
- Manufacturing Defects, All Type Of Pump And Pneumatic Parts.
- 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.

## **7) 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.

## **8) 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.

## **9) Image**

- Images Are For Representation Purpose Only.

## **10) Jurisdiction**

- All Terms Subject To Rajkot, Gujarat Jurisdiction.

# Technical Specification

## 1. Raw Water Quality

R.O. plant is designed based On : 1500 TDS

Hardness : 300

### Application :-

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## 2. Treated Water Quality

Suspended Solids : Nill

Turbidity : Nill

PH : 7.0 To 7.5

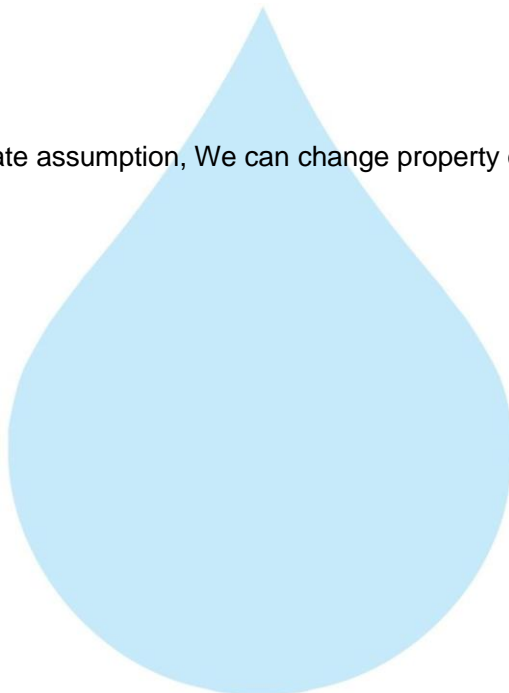
T D S : Less than 40 ppm

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



### 3. Chlorination Dosing Pump

Type :	Dosing Type
Capacity : :	6 LPH
Make of pumps :	E-dose / I Dose
Power Requirement :	Single phase 240 V
Nos :	1 Nos.



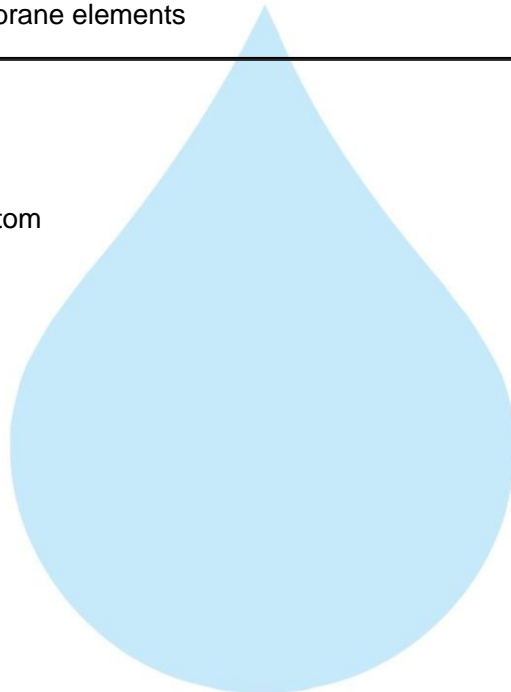
#### Application :-

To Kill the harmful Bacteria in the raw water as well as To control the biological growth in the raw water, To prevent The organic fouling in the R.O. Membrane elements

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### 4. Chlorination Dosing Tank

Type :	Conical Bottom
Capacity :	100 ltr
M.O.C. :	HDPE



## 5. Dechlorination Dosing Pump

Type :	Dosing type
Capacity :	6 LPH
Make of pumps :	Make of pumps
Power Requirement :	Single phase 240 V



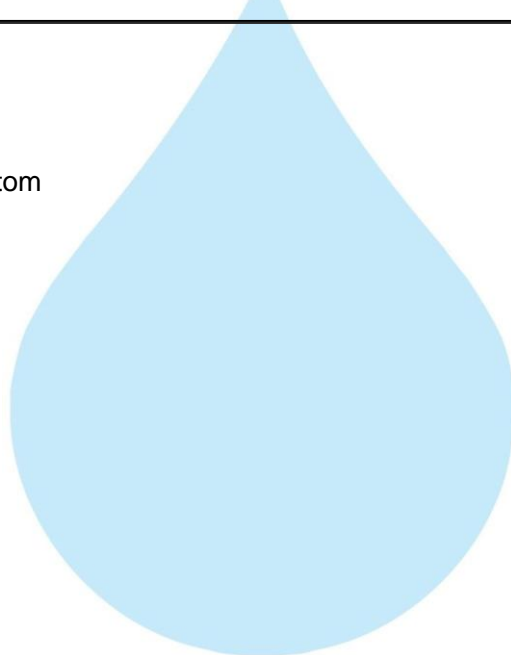
### Application :-

To Kill the harmful Bacteria in the raw water as well as, To control the biological growth in the raw water, To prevent, The organic fouling in the R.O. Membrane elements.

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## 6. Dechlorination Dosing Tank

Type :	Conical Bottom
Capacity : :	100 Ltr
M.O.C :	HDPE





## 7. Raw Water Feeding Pump

Type :	Centrifugal
Max. Flow :	25.00 m <sup>3</sup> /HR
Working Flow :	16.00 m <sup>3</sup> /HR
Working Pressure :	2 Kg. / Cm <sup>2</sup>
M.O.C. :	C.I.
Power :	3.0 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.

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## 8. Pressure Sand Filter (SS)

Type :	Down Flow Graded Sand Type
Model :	2472/RW/MFG
M.O.C. :	SS 304
Size Dia X Height :	600 mm Dia X 1800 mm
Pipe Line Size :	40 mm.
Sand Qty. :	475 Kgs.
Valves :	SS Valve
Max. Flow :	25.00m <sup>3</sup> /HR
Working Flow :	16.00 m <sup>3</sup> /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.

## 9. Activated Carbon Filter (SS)

Type :	Down Flow Graded Sand Type
Model :	2472/RW/MFG
M.O.C. :	SS 304
Size Dia X Height :	600 mm X 1800 mm
Pipe Line Size :	40 mm
Carbon Qty. :	190Kgs.
Valves :	SS Valve
Max. Flow :	25.00 m3/HR
Working Flow :	16.00 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.

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## 10. Antiscalant Dosing Pump

Type :	Ele. Diaphragm Type
Capacity :	0 to 6 LPH
M.O.C. :	PP
Dosing Chemical :	Antiscalant
Dosing Rate :	3 to 4 LPH
Make :	E Dose/ I Dose
Nos :	2 Nos



### Application :-

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

## 11. Antiscaling Dosing Tank

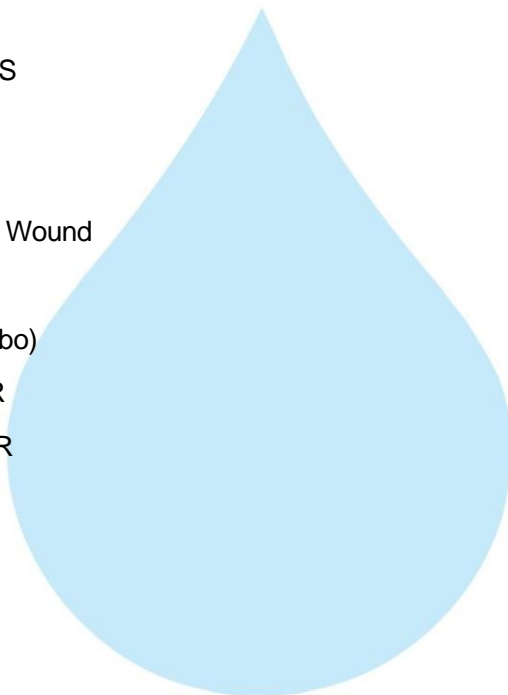
Type :	Conical Bottom
Capacity :	100 Ltr.
M.O.C. :	HDPE
Manufacturer :	Reputed
Nos :	2 Nos



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## 12. Micron Cartridge Filter

Model :	MCF /RW/SS
Size :	30" Long
Micron Rating :	5 Micron
Type of Candle :	P. P. Spun / Wound
Material of Housing :	SS 304
Nos. of Candles :	6 Nos. (Jumbo)
Max. Flow :	25.00m3/HR
Working Flow :	16.00 m3/HR



### Application :-

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

### 13. High Pressure Pump

Type :	Vertical Centrifugal Pump
M.O.C. :	SS
Max. Pressure :	13 Kgs. / Cm 2.
Working Pressure :	10 Kgs. / Cm 2.
Max. Flow :	25.00 m3/HR
Working Flow :	16.00 m3/HR
Motor :	10 HP
Manufacturer :	2900 RPM
Nos. Offered :	3 Phase
Make of Pump :	PNC / EQI



#### 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<sup>2</sup> . 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

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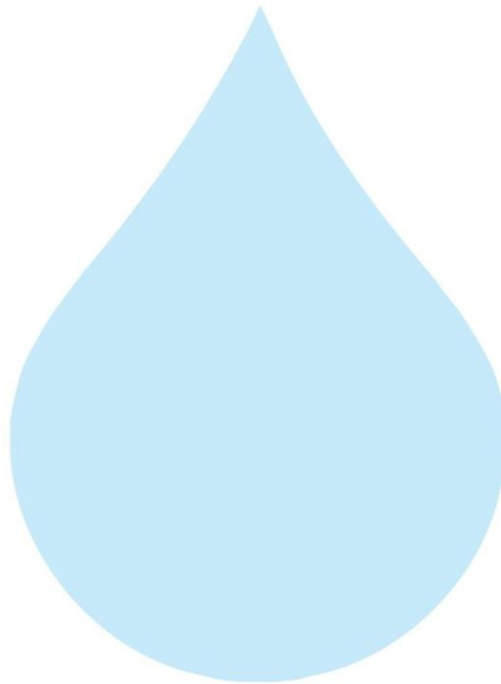
### 14. RO Membrane

Model :	8040 Element
Type :	TFC Spiral Wound
Material :	Polymide
Size :	8" Dia X 40" Long
Manufacturer :	Toray / Hydranautics / Dow / EQI
Nos. Offered :	8 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.



## 15. SS Pressure Vessels

M.O.C. : SS 304  
Type : Horizontal Tube Type  
Size : 8" X 80"  
Max. Pressure : 400 PSI  
Working Pressure : 150 PSI  
Nos. Offered : 4 Nos.

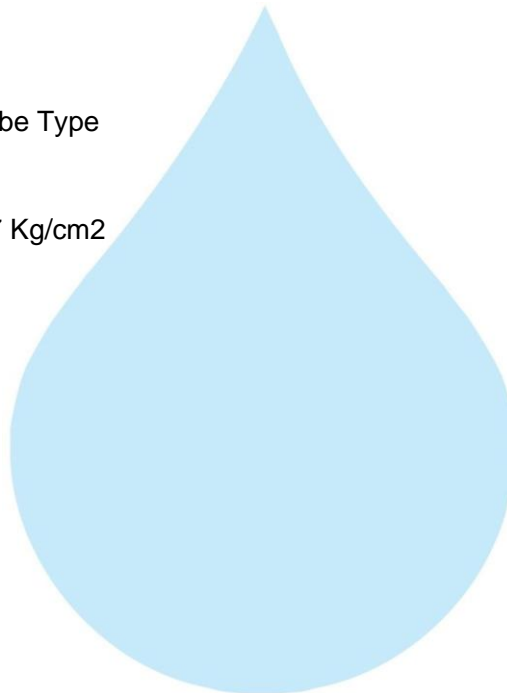


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## 16. Pressure Gauges

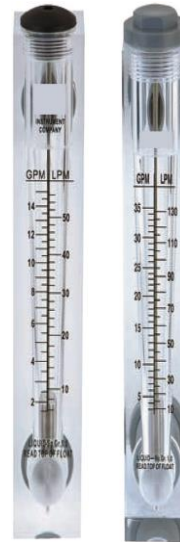
Pressure Gauges : 7 Nos.

Type : Bourdon Tube Type  
Manufacturer : Raj  
Range : 0 - 28 , 0 - 7 Kg/cm<sup>2</sup>



## 17. Rota Meters

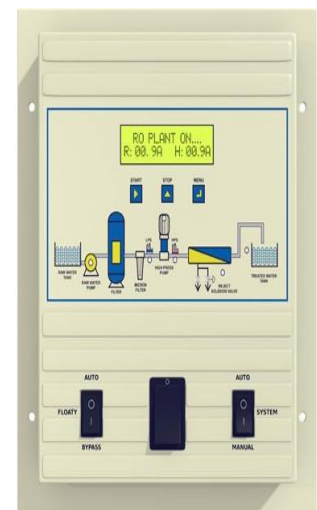
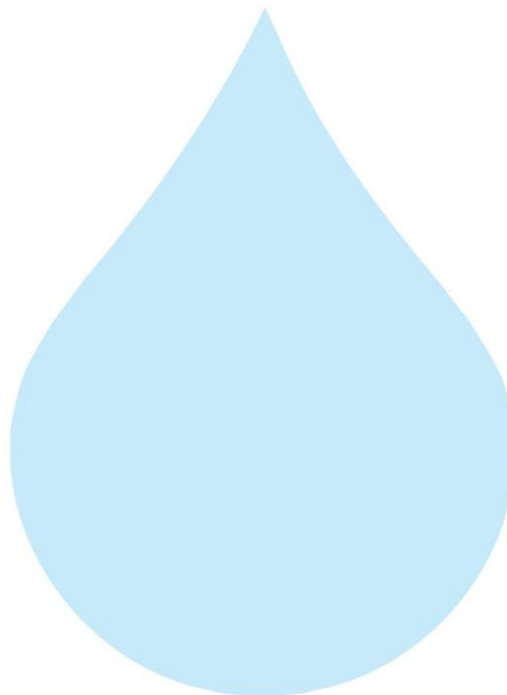
Rota Meters : 2 Nos.  
Type : Float  
M.O.C. : Acrylic Body  
Reject Water Range : SS Float (0 - 16000 Lph.)  
Treated Water Range : SS Float (0 - 10000 Lph.)  
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## 18. Control Panel - PLC Base

Manufacturer : Astral



## 19. Pressure Switch

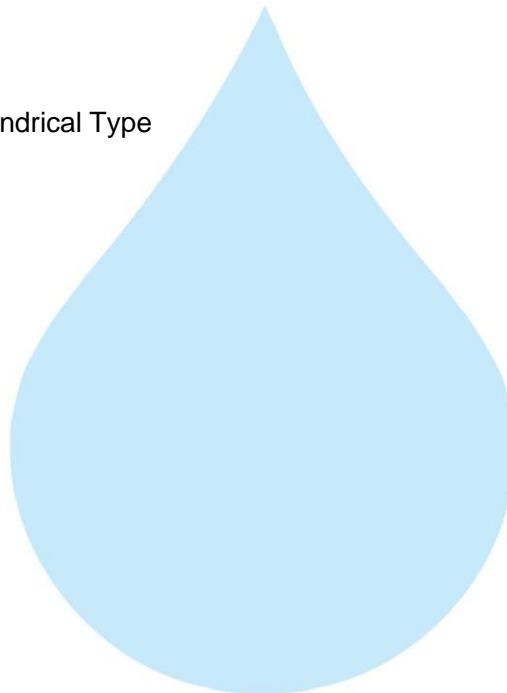
Pressure Switch : 2 Nos.  
Type : Low / High Pr.  
Manufacturer : Denfoss  
Model : IPS 70 / 400



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## 20. Treated Water Storage Tank

Nos. Offered : 1 Nos.  
Type : Vertical Cylindrical Type  
M.O.C. : SS 304  
Capacity : 4000 Ltr.



### Application :-

To store Reverse Osmosis permeate (product) water. It can remove back pressure in R.O. Membrane elements. It is only storage of the treated Water.



## 21. Treated Water Transfer Pump

Type :	Monoblock
Manufacturer :	PNC
M.O.C. :	SS
Capacity :	1.0 HP



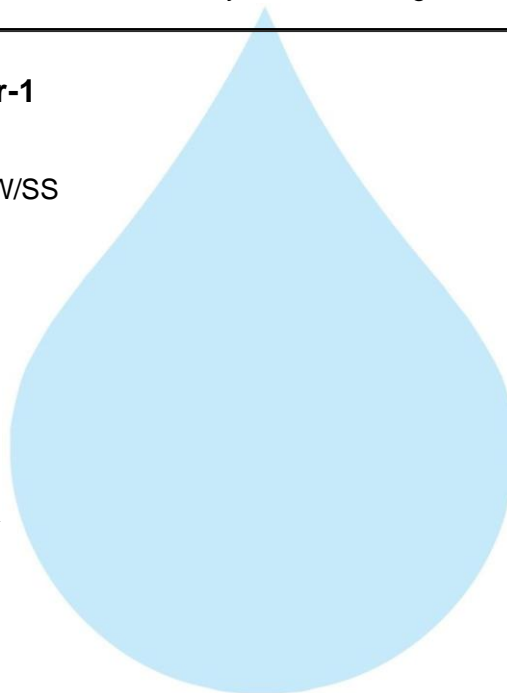
### Application :-

To feed water to downstream to micron filters and UV system and filling line

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## 22. Post Micron Cartridge Filter-1

Model :	MCF 30//RW/SS
Size :	30" Long
Micron Rating :	2.0 Micron
Type of Candle :	P. P Spun
Material of Housing :	SS 304
Nos. of Candles :	2 Nos
Working Flow :	8.00 m3/HR



### Application :-

During storage, atmospheric or any other contamination may take place in treated water. Hence, after passing water from R.O. System, water is once again passed through a micron cartridge filter. To remove micron particles up to 2.0 Micron sizes.

## 23. Post Micron Cartridge Filter-2

Model :	MCF /30/RW/SS
Size :	30" Long
Micron Rating :	1.0 Micron
Type of Candle :	P. P. Spun
Material of Housing :	SS 304
Nos. of Candles :	2 Nos
Working Flow :	8.00 m3/HR



### Application :-

This Vessel fitted internally with P.P spun micron cartridge elements having absolute ratings of 1.0 micron & 0.2 microns which removes all bacterial impurities present in the water and make the water free of particulates.

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## 24. Post Micron Cartridge Filter-3

Model :	MCF 30/RW/SS
Size :	30" Long
Micron Rating :	0.5 Micron
Type of Candle :	P. P Spun
Material of Housing :	SS 304
Nos. of Candles :	2 Nos
Working Flow :	8.00 m3/HR



### Application :-

During storage, atmospheric or any other contamination may take place in treated water. Hence, after passing water from R.O. System, water is once again passed through a micron cartridge filter. To remove micron particles up to 2.0 Micron sizes.

## 25. U. V. Disinfection System

Type :	Fluorescent Tube
Working Flow :	8000 Lph
Working Pressure :	1 Kg. / Cm 2
Material :	SS 304
Manufacturer :	Raj
Nos. Offered :	1 Nos.



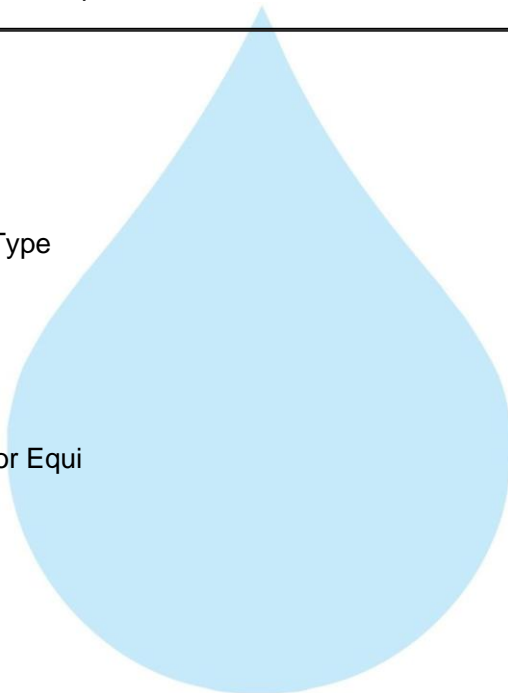
### Application :-

For removal of micro biological organisms up to 99.9%.

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## 26. Ozone Generator

Nos. Offered :	1 Nos.
Type :	Natural Air Type
Flow Rate :	8000 Lph.
Ozone Dosing :	1 PPM
Casing :	SS
Manufacturer :	Aqua Zone or Equi



### Application :-

Though R.O. System rejects all the micro – organisms like bacterial & virus and even after passing through U.V. System it may redevelop in packed bottles over a period of time. Hence, it is necessary to disinfect RO water prior to bottling filling. So that by using ozone gas generator we are producing ozone gas i.e. O<sub>3</sub>, & is passed through the water, as ozone is having capacity to kill the bacteria as well as to control the further growth In the stored & packed water. Also it is increasing the level of oxygen in the water, where water Becoming very healthy.

## 27. Oxygen Generator

Nos. Offered :	1 Nos.
Type :	Natural Air Type
Flow Rate :	8000 Lph
Casing :	SS
Manufacturer :	NUVO



### Application :-

Though R.O. System rejects all the micro – organisms like bacterial & virus and even after passing through U.V. System it may redevelop in packed bottles over a period of time. Hence, it is necessary to disinfect RO water prior to bottling filling. So that by using ozone gas generator we are producing ozone gas i.e. O<sub>3</sub>, & is passed through the water, as ozone is having capacity to kill the bacteria as well as to control the further growth in the stored & packed water. Also it is increasing the level of oxygen in the water, where water becomes very healthy.

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## 28. Ozone Circulation Pump

Type :	Monoblock
Manufacturer :	PNC
M.O.C. :	SS
Capacity :	1.0 HP



## 29. Ozone Circulation Tank

Nos. Offered :	1 Nos.
Type :	Vertical Cylindrical Type
M.O.C. :	SS 304
Capacity :	4000 Ltr.



### Application :-

For required ppm Ozone gas mix up in finish product water. In ozone re-circulating tank water re-circulating by required flow rate pump . Ventury of ozone install out let of Pump it suction ozone and mix-up help with static mixer. This tank is provided with one no. of re-circulating pump and one no. of product water transfer pump to the filling section.

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## 30. Final Water Transfer Pump

Type :	Monoblock
Make :	PNC/Equi
M.O.C. :	SS
Capacity :	1.0 HP
Working Flow :	8 M3/ HR



### Application :-

To feed water to downstream to micron filters and UV system and filling line

### 31. Stand For Unit

Stainless Steel : S.S 304



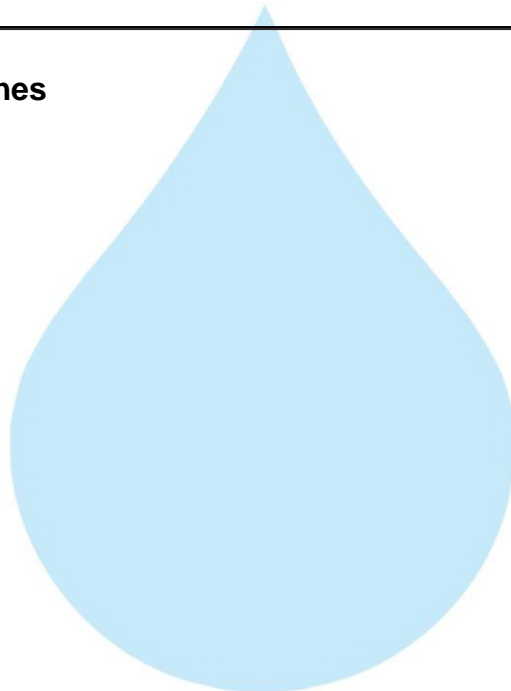
#### Application :-

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

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### 32. SS Interconnecting Pipe Lines

Stainless Steel : S.S 304



#### Application :-

All interconnecting pipelines Raw water Pump to Ozone Circulating tank will be provided of S.S 304 by us