

**PROJECT REPORT**  
**FOR**  
**BIS APRUVAL**

**ISI MARKED PECKAGED WATER**

**BASED ON**  
**R.O.MINARAL DRINKING WATER**  
**TRUNKEY PLANT**

**PROJECTED BY**

**A-ACCURATE ION EXCHANGE & CHEMICAL**  
**Vatva Ahmedabad**

# **A-ACCURATE ION EXCHANGE & CHEMICAL**

119, Rajdeep Indus. Estate/h Saurashtra Narolok Paint, Vatva Tolnaka, Vatva cross Road  
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E-mail: ronak@a-accuratewater.com Web: a-accuratewater.com

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## **INTRODUCTION & ABOUT OF PROJECT HOLDER & MINERAL WATER PLANT**

Welcome to all living life of earth by **A-ACCURATE ION EXCHANGE & CHEMICAL**. Airs, Water & Food are most Precious gift to human living from nature. Human life circles are start from first to last with mother touch of air & water. Most of water is unusable or highly polluted, this is the reason to treat or filter & count every drop of water. From Human consumption to versatile industrial applications, there is no choice for pure & sure water & here we are step in **A-ACCURATE Ion Exchange & Chemical**, We are Designing, Manufacturing & Supplying Water Treatment system which adheres to world's most stringent norms, with our on knowledge & on work shop.

**About A-ACCURATE Ion Exchange & Chemical** We are in design, development, & manufacturing since last 25 years. In this field we are working in turnkey project of Granule plant, water filtration system, pharma industry, chemical dies - intermediate & textile units. Our any suggestion, offer, or, solution are not as only types of sales agent or, traders, which one only one marketing office, & product of plant in various shops, assemble in other shop with help of 4 to 5 vendors, & contractor., They haven't knowledge of technical calculation, fundamentals & their parameters. We are working as manufacturer with our own work shop since last 20 years

**A-ACCURATE ION EXCHANGE & CHEMICAL** is our print view 20 year's hard work experiences, knowledge

& real advance technology for solution of your pure & sour water with in your budget cost.

## **A-ACCURATEION EXCHANGE &CHAMICAL**

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**We are working with :- 1 Government of Gujarat/India's all mega corporations boards & Nigams, 2 Fertilizers, 3 Chemical plants, 4 Thermal plant, 5 cement plant, 6 Paper plant, 7 Sugar plant.**

**In water filtration & purifier we have worked since last 20 years in strings or bore water with filtration R.O. & purifier to at least sewage treatment recycles or reuse of water.**

### **A-Accurate Ion Exchange & Chemical**

**For your ready reference here we are giving list of our product & spares & chemical supply in various companies.**

#### **List of Plant**

- **ISI Based R.O Plant & Mineral Water Plant.(COMBO/TRUNKEY BASIS )**
- **Semi/Automatic PET BOTTELS making machine**
- **FULLY Automatic single/double head pouch machine**
- **ZAR Washing& filling machine**
- **D.M. Plant & Pure water Generation Loops.**
- **WATER Softening & Filtration plant.**
- **Mix bed plant.**
- **Pressure send filter.**
- **Sewage treatment plant**
- **Micron cartridge filter.**
- **Ozone Generating Set.**
- **Effluent Treatment plant.**
- **Swimming pulls filtration plant.**
- **Waste Water Recycling plant.**
- **Sea – Water Desalination Plant.**
- **Water Park rides & Wave pools.**

- **Pure water generation with ultra filtration, EDI/Ozonation & Distribution system**

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- **List of Spares & Chemical**
- **R.O. Membranes.**
- **Cartridge.**
- **Steiner.**
- **U.V. Purifier..**
- **T.D.S. Miter.**
- **Dosing Pump**
- **Ozonation.**
- **All Types Skid. ( M.S. & S.S )**
- **All Type of Vessels.( M.S.R.L., S.S.316 & FRP )**
- **D.M. water Tank ( S.S. 316 ).**
- **Sterilizer Tank. ( s.s.316 )**
- **All type of Pressure Tube. (FRP , S.S.304, S.S.316 etc. )**
- **All type of piping.( ` u 'PVC, MSRL, S.S.304, S.S.316)**
- **Jumbo Filter Housing.**
- **High Pressure pump. ( S.S, Single / Multi Stage )**
- **Tasting Kit.**
- **P.H. Miter.**
- 
- **CHEMICAL**
- **Cooling Tower Chemical.**
- **Anti Corrosive Chemical.**
- **All type of Resin.**
- **Carbon.**
- **Media.**
- **Membrane Cleaning Chemical.**
- **Special antiskalent & Other as Required.**
- **Boiler Feed chemical.**
- **Effluent Treatment Chemical.**

- **Decaling Chemical.**
- **Pretreatment Chemical**

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### **ABOUT MINERAL WATER & THIRE QUALITY**

Mineral water can be safely defined as potable water, containing the necessary Mineral nutrients required by the body and beneficial to human metabolism.

Potable spring water containing, sulphur, iron, magnesium and other mineral Salts occurring in certain regions are claimed to be beneficial to human metabolism. The Therapeutic value of such waters is questionable carbonated mineral water also contain Lithium salts.

Natural fresh water supplies are derived indirectly from his oceans. The water Flows over the surface or percolates in to the ground excess water flows back to the oceans completing the hydrological cycle.

### **Water supplies are classified as**

1. **Surface supplies**
2. **Underground water**

**Surface water is rivers, lakes, ponds and reservoirs.**

**Wells and spring are the sources of underground water.**

Water vapor in clouds is generally pure but gathers dust and gases when it reached the earth suspended organic matter and soil turbidity are picked up. We it waters usually are free from suspended materials and organic matters due to filtrations through the earth. Surface water is generally low in mineral content but relatively high in suspended and organic materials.

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Ionic & Dissolved		Undissolved	
Cationic	Anionic	Solid	Gaseous
Calcium	Bicarbonate Alkalinity	Turbidity, Mud Dirt & Salt	Carbon Dioxide Nitrogen
Magnesium	Carbonate	Organics	Oxygen
Sodium	Hydroxyl	Color	Hydrogen Sulfide
Potassium	Sulfate	Micro Organisms	Ammonia
Ammonium	Chloride	Algae	Methane
Iron	Nitrate, Phosphate	Bacteria, Oil	
Manganese's	Silica, Fluoride,	Metal Oxides	
	Organics, Color	Hydroxides	

**Organic material may be suspended or dissolved ionic or nonionic.**  
**NATIONAL REGULATIONS FOR DRINKING WATER**

PARAMETER	MAX CONTAMINANT LEVEL
<b>Arsenic</b>	<b>0.05</b>
<b>Barium</b>	<b>1.00</b>
<b>Cadmium</b>	<b>0.010</b>
<b>Chromium</b>	<b>0.05</b>
<b>Lead</b>	<b>0.002</b>
<b>Mercury</b>	<b>1.0</b>
<b>Nitrate</b>	<b>0.01</b>
<b>Selenium Fluoride</b>	<b>1.4-2.4</b>
<b>Edrin</b>	<b>0.0002</b>

<b>Lindane</b>	<b>0.004</b>
<b>Methoxuchlor</b>	<b>0.1</b>
<b>Toxaphene (2,4,5- dichlorphenoxy)</b>	<b>0.0005</b>
<b>Acetic Acid</b>	<b>0.01</b>
<b>Turbidity NTU</b>	<b>1-5</b>

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### **USES & APPLICATION**

Mineral water is pouch & bottle under very hygienic conditions under strict Quality control before being marketed its major use is in hotels, tourist place, function & People houses where good quality pure water is required for potable purposes. It is marketed at place and regions where hygienic drinking water is not freely available.

### **MARKET**

The consumption of mineral water is linked with public health as the concept has virtually been imported from the western media. The necessity and hygienic nature of the product has led to an increase in its consumption in mainly the high income grade people and tourist. India's potential for tourism is virtually limitless.

The mineral water is one of the important items which are directly consumed by people all over the world. Due to consideration of health view point the consumption of ordinary water is gradually decreasing. The ordinary water contains many toxic elements, impurities which some time causes fatal. People are generally being aware to consume clean pure water where is available. Some time people have to suffer from different diseases. The mineral water consumption

is well advised. So major consumption of mineral water is generally assessed by the number of people & tourist. They generally consume mineral water sealed in pouch & bottle.

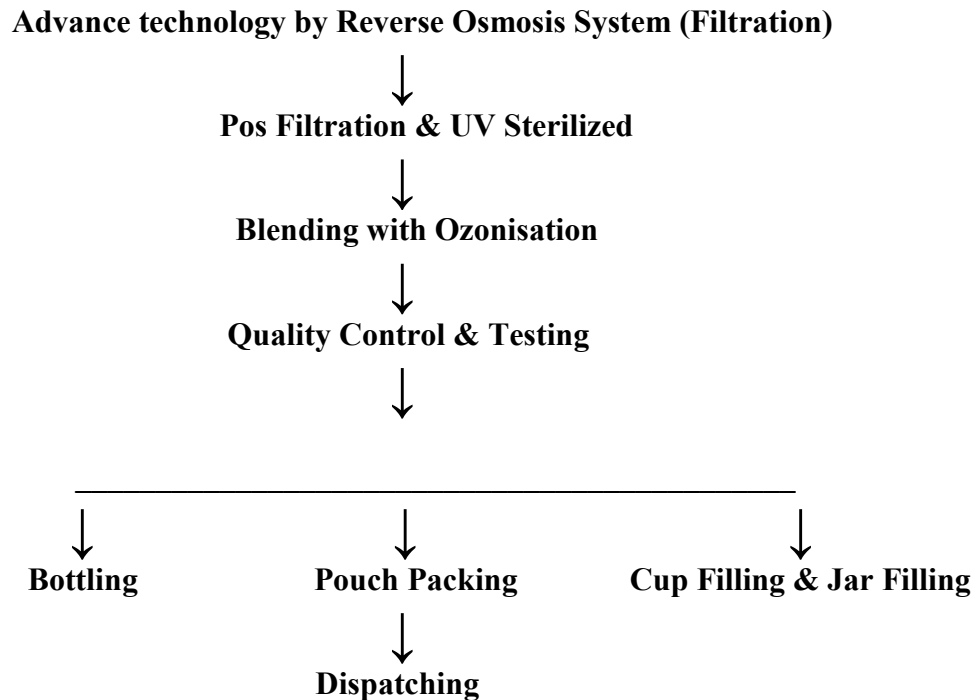
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### **MANUFACTURING PROCESS**

**THE BASIC MANUFACTURING PROCESS CONSISTS THE FOLLOWING STEPS**



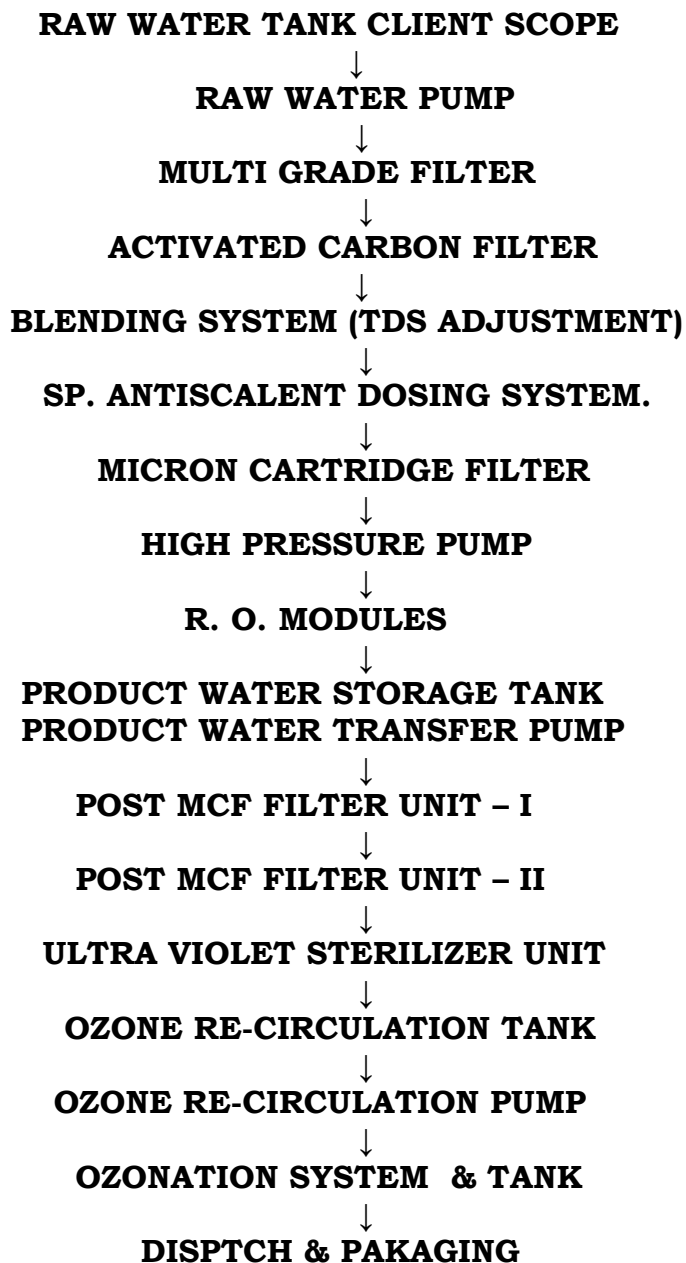


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## **TREATMENT SCHEME & FILTRATION SYSTEM.**



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## **HELPLINE**

### **GENERAL HELP**

1. To provide the information about the profitability of the project in general.
2. Inform you about the demand existing in your area.
3. Site selection considering following parameters:-
  - a) Raw Water Quality
  - b) Space Availability
  - c) Location Of Area
4. Free Raw Water Testing at our Advanced Laboratory
5. Designing appropriate scheme duly confirmed by our Associates Drawing, G.A. Drawing, Photograph etc.
6. On Order Confirmation We will submit the following:-
  - Total Building Construction Layout ( If new Building is consisting of all Hygienic Standards as per WHO, EEC, US FDA, ISI 010500 Standards is to be built.
  - Offering Necessary Changes in Existing Building ( If Existing Building is to be used.)

### **MARKETING HELP**

1. Recommending the Names of NID GUYS for Selection of Brand Name.
2. We can give you the Ideas and help you in Preparation of Literature. Action Plants for Marketing the product (I.E. Recommending Marketing Team etc.)
3. We Can Help you in Executing the Formalities to be done for the Govt.

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## **COST OF PRODUCTION**

### **FOR BOTTLE: 1 LTR**

#### **COST INCURRED FOR BOTTLE OF 1 LTR.**

A. COST OF BOTTLE + CAP	Rs. 2.20
B. COST OF LABEL SHRING	Rs. 0.15
C. COST OF CAP SHRING	Rs. 0.05
D. COST OF WATER	Rs. 0.03
E. COST OF MISC	Rs. 0.05
F. COST OF INTEREST PER LITER ON CAPITAL INVESTMENT	Rs. 0.03
G. PACKING ( CARTOON) COST PER BAG	Rs. 0.30
<b>TOTAL COSTING OF 1 LTR. BOTTLE</b>	<b>Rs. 2.81</b>

### **FOR POUCHES: 250ml.**

#### **COST INCURRED IN MFG.1 POUCH OF 250ml WATER**

A. COST OF EMPTY POUCH WITH PRINTING	Rs. 00.05
B. COST OF WATER 250ML.	Rs. 00.0075
C. COST OF MISLENIUS	Rs. 00.001
D. COST OF INTEREST PER LITER ON CAPITAL INVESTMENT OF 250ML.	Rs. 00.0042
<b>TOTAL COSTING OF 1 POUCH OF 250ML.</b>	<b>Rs. 00.0627</b>

### **FOR ZAR (CARVOYS) : 20 LTRS.**

#### **COST INCURRED IN MFG.1 ZAR OF 20 LTRS. WATER**

A. COST OF TRANSPORTATION	Rs. 00.30
B. COST OF WATER 20 LTRS.	Rs. 00.60
C. COST OF MISLENIUS	Rs. 00.01
D. COST OF INTEREST PER LITER ON CAPITAL INVESTMENT OF 250ML.	Rs. 00.30
E. COST OF MAINTAINOUS	Rs. 00.10
<b>TOTAL COSTING OF 1 ZAR OF 20LTRS.</b>	<b>Rs. 01.31</b>

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## PROFIBILITY CHART

PROFIT ABILITY CHART	BOTTLE	POUCH	ZAR
SELLING COST	6.50	0.55	20.00
OPRATING COST	2.80	0.10	2.20
PROFIT PER ITEM	3.70	0.45	17.80

TOTAL PROFIT FOR WATER QTY. 72,000 LTRS:			
ITEM WISE PACKING	LITRS/Nose	ITEM	PROFIT Rs.
BOTTLE PACKING	8,000 let.	8,000 BOTTLES (3.70 X 8000)	29,600/-
POUCH PACKING	2500ltr/.250 10,000Nos.	0.45 X 10,000	4,500/-
JAR PACKING (20 LTRS)	30,000 let.	17.80 X 1500	26,700/-
TOTAL PROFIT PER DAY			60,800/-
TOTAL PROFIT PER MONTH			18,24,500/-
<b>TOTAL PROFIT PER YEAR (gross profit)</b>			<b>2,18,88,000/-</b>

-- 33 % Total handling, conveying & transportation cost on GP. -- 76,23,000/-

**TOTAL NET PROFIT APROXIMATLY 1, 46,65,000/-**

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## **QUOTATION FOR R.O. MINERAL WATER 2000 LPH PLANT.**

KIND ATTN: Managing Director

Dear Sirs,

SUB. :: YOUR REQUIREMENT OF WATER TREATMENT PLANT BASED ON  
R.O. SYSTEM (CAPACITY 2000 LTR/HR.)

REF. ::

We refer to the personally discussions you had with the undersigned in connection with your requirement of Water Treatment Plants and other machineries for your upcoming project to manufacture Packaged Drinking Water. We wish you the best success for the same.

As discussed, we are sending herewith our complete offer for the plant and machineries. Treatment Plant is considered of **2000 LPH capacity** comprising of complete system with Pre-treatment, State-of-the-Art reverse Osmosis Unit and Post Treatment etc. System is designed to produce water as per International Bottled Water Association (IBWA), Bureau of Indian Standards (BIS) and US Drinking Water Act (USDWA).

We also have offered filling machineries viz. Pouch Form, Fill & Seal Machine etc. Offered machineries are fully automatic and do not require much manpower.

Technical data, other required details are as per enclosed data sheet, while commercial terms and conditions are as per enclosed offer.

We are sure, you will find above as desired by you and now we look forward to receive your valuable order.

Meanwhile, if you require any further information, please feel free to contact us for the same.

With thanks and best regards,

Yours faithfully,

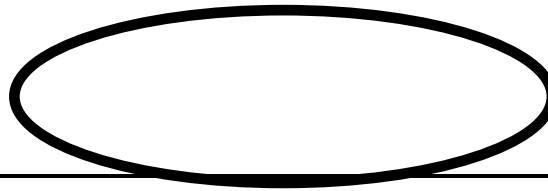
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## I D I N D E X



<b>ANNEXURE NO.</b>	<b>DESCRIPTION</b>
1.	SALIENT FEATURES OF R.O. SYSTEM
2.	BASIS OF DESIGN & TREATMENT SCHEME
3.	TECHNICAL SPECIFICATIONS
4.	SCOPE OF SUPPLY
5.	SCHEDULE OF EXCLUSION & TERMINATION
6.	PRICE, COMMERCIAL TERMS & CONDITIONS.
7.	SCHEMATIC DIAGRAM

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## ANNEXURE - I

### SALIENT FEATURES OF SYSTEM

01. The proposed Water Treatment Plant based on R O Technology is designed to produce product water at the flow rate of **2000 LPH** as per below mentioned.

**(FULLY AUTOMATIC WITH DIGITAL DISPLAY)**

Note :: The proposed water treatment system based on R O Technology can even work continuously for 20hrs. Per day.

02. M O C of the R O Membrane housing, which houses the R O Membranes inside them. The heart of the system becomes very much critical criteria when the chemical cleaning is done.  
Apart from that we have offered you the **S.S.316** RO Membrane Housing.
03. The proposed Water Treatment System is **AUTOMATIC** system not the conventional Manual & Semi-Automatic system, which will be operated through control panel & if fault in the system indicate in **digital display** with LCD blinking.  
The control panel will give the **continuous display** of the **Product water Quality**, before it enters into the RO Product water storage tank.  
The proposed Water treatment system will also **trip** in the eventuality of **Low Suction** pressure, **High Pressure** and product water **tank full** and Indicate on **digital display board**.
04. M O C of pressure vessel for **Pressure Sand Filter & Activated Carbon Filter** unit will be **Stainless Steel**.
05. **Multi port valve** mechanism is provided for Filter system instead of conventional Six - valve mechanism to facilitate the **smooth operation** and **less maintenance** requirement.
06. All inter connecting as well as **frontal pipe-work** for the entire system Will be made of **S.S.316** instead of conventional of UPVC/M.S. piping.

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## **ANNEXURE - II BASIS OF DESIGN AND TREATMENT SCHEME**

### 1.1 PLANT INTRODUCTION ::

The proposed Water Treatment Plant based on R O Technology is designed to produce product water at the flow rate of 2000 LPH as per below mentioned.

### 1.2 RAW WATER ANALYSIS ::

We have designed the proposed water treatment system based on Assumed raw water analysis.

Color	:: True color
Odour	:: Agreeable
Taste	:: Salty
PH Value	:: 7.20
Total Dissolved Solids as CaCO <sub>3</sub>	:: < 1500 ppm.
Total Hardness as CaCO <sub>3</sub>	:: < 250 ppm
Silica as SiO <sub>2</sub>	:: 05 ppm
TOTAL SUSPENDED SOLIDS	:: NIL

### 1.3 END WATER QUALITY :: (AFTER R. O. SYSTEM)

T. D. S. :: Less than equal to 100 PPM

### 1.4 PLANT OPERATING DATA

Feed flow rate	:: 4000 LPH
Product flow rate	:: 2000 LPH
Average recovery	:: 50-60%
Operating Pressure	:: 10-12 Kg/cm <sup>2</sup>

Note: The proposed water treatment system based on R O Technology can even work Continuo sally for 20hours per day.

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### **TREATMENT SCHEME ::**

- RAW WATER PUMP
- MULTI GRADE FILTER
- ACTIVATED CARBON FILTER
- BLENDING SYSTEM (TDS ADJUSTMENT)
- SP. ANTI SCALENT DOSING SYSTEM.
- MICRON CARTRIDGE FILTER
- HIGH PRESSURE PUMP
- R. O. MODULES
- PRODUCT WATER STORAGE TANK
- PRODUCT WATER TRANSFER PUMP
- POST MCF FILTER UNIT – I
- POST MCF FILTER UNIT – II
- ULTRA VIOLET STERILIZER UNIT
- OZONE RE-CIRCULATION TANK
- OZONE RE-CIRCULATION PUMP
- OZONATION SYSTEM

#### 1.6 R. O. FEED WATER LIMING CONDITIONS ::

T. D. S.	:: 1,500 PPM (MAX.)
Suspended Solids	:: Nil
Heavy metals	:: Nil
Oil and Grease	:: Nil
Turbidity	:: Nil
Residual Chlorine	:: Nil
Color / Odour	:: Absent

The END WATER quality shall be achieved subject to ::

1. Feed quality is same as specified in your enquiry. In case of any change in the quality of raw water, the same may have any implications on the Operating parameters and End - water quality of the system.
2. Feed limiting condition mentioned in our this offers are strictly maintained.
3. Operation of water treatment plant is strictly followed in totality as per our operating manual & instruction.

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**ANNEXURE - III**  
**TECHNICAL SPECIFICATION**

01. RAW WATER PUMP  
Quantity offered :: One No. ( 1 HP )  
Capacity :: 5000 LPH  
Discharge press. :: 2.5 Kg/cm<sup>2</sup>  
Make :: CROMTON/ Kirloskar / Equi.
02. MULTI GRADE FILTER  
Quantity offered :: One No.  
Type :: Vertical pressure vessel  
Capacity :: 10000 LPH  
Dimension :: Ø 400mm X 1500mm ht. X 2 mm thick.  
M O C :: **Stainless Steel – 316**  
Filter media :: Silica Quartz sand with pebbles & Gravels  
Service cycle :: Whenever pressure drop across unit exceeds 0.8kg/cm<sup>2</sup>  
Backwash dur. :: 15 - 20 Minutes.  
Discharge press. :: 2.5 Kg/cm<sup>2</sup>
03. ACTIVATED CARBON FILTER  
Quantity offered :: One No.  
Type :: Vertical pressure vessel  
Capacity :: 10000 LPH  
Dimension :: Ø 400mm X 1500 mm ht. X 2 mm thick.  
M O C :: **Stainless Steel – 316**  
Filter media :: Activated Carbon  
Service cycle :: Whenever pressure drop across unit exceeds 0.8kg/cm<sup>2</sup>  
Backwash dur. :: 15 - 20 Minutes.  
Discharge press. :: 2.5 Kg/cm<sup>2</sup>
04. SPECIAL ANTI-SCALENT DOSING SYSTEM ::  
Quantity offered :: One No.  
Type :: Electronic diaphragm type dosing pump  
Flow rate :: 0 – 5 LPH  
HDPE tank cap. :: 50 Ltr.  
Operating press. :: 2.0 Kg/cm<sup>2</sup>  
Make :: E-Dos/Emec/Meter pump – Italy/equi.

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05. MICRON CARTRIDGE FILTER UNIT  
Quantity offered :: One No.  
Type :: Replaceable Cartridge  
M O C of cartridge:: Polypropylene  
M O C of housing :: Stainless Steel  
Capacity :: 10000 LPH  
Dimension in Inch:: 4" Dia x 20" HOS, 1 Nos  
Discharge press. :: 1.0 Kg/cm<sup>2</sup>
06. HIGH PRESSURE PUMP :  
Quantity offered :: One No.  
Type :: Vertical Multi Stage centrifugal  
Capacity :: 5000 LPH  
M O C :: Stainless Steel  
Discharge press. :: 10-12 Kg/cm<sup>2</sup>  
Type of drive :: Squirrel cage induction motor,  
Motor rating :: III Phase 3.5 KW  
Make :: SUMO/CRI/Equi.
07. R. O. MODULE ::  
Item :: R O Module with SS-316 Pressure tubes & R O Membrane.  
Type of membrane:: Thin film composite poly amide spirally wounded.  
Operating pressure:: -----10-12 Kg/cm<sup>2</sup>-----  
Make of membrane:: Filmtec(Dow)-USA/Hydranautics-USA/Eq.  
MOC of press. Tube hsg.::SS-316 (Ø 8" X 80" with 80 40- 2Nos Membrane)
08. PRODUCT WATER STORAGE TANK ::  
Quantity offered :: One No.  
M O C of tank :: Stainless Steel  
Capacity :: 1000 Ltrs.
09. PERMEATE WATER TRANSFER PUMP ::  
Quantity offered :: One No.  
Capacity :: 2000 LPH  
Discharge press. :: 2.5 Kg/cm<sup>2</sup>  
M O C :: S.S.  
Make :: STD.

**A-ACCURATEION EXCHANGE &CHAMICAL**

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10. MICRON CARTRIDGE FILTER UNIT – I  
Quantity offered :: One No.  
Type :: Replaceable Cartridge  
M O C of cartridge:: P.P.  
Cartridge rating :: 1.0 Micron  
M O C of housing :: Stainless Steel – 316  
Capacity :: 2000 LPH  
Discharge pressure:: 1.0 Kg/cm<sup>2</sup>
  
11. MICRON CARTRIDGE FILTER UNIT – II  
Quantity offered :: One No.  
Type :: Replaceable Cartridge  
M O C of cartridge:: P.P.  
Cartridge rating :: 0.5 Micron  
M O C of housing :: Stainless Steel – 316  
Capacity :: 2000 LPH  
Discharge pressure:: 1.0 Kg/cm<sup>2</sup>
  
12. ULTRA VIOLET STERILIZER UNIT ::  
Quantity offered :: One No.  
Type :: Vertical  
M O C :: **Stainless Steel.**
  
13. OZONATION SYSTEM ::  
Quantity offered :: One No.  
Type :: Vertical  
M O C :: Stainless Steel
  
14. OZONE RE-CIRCULATION TANK  
Quantity offered :: One No.  
M O C of tank :: Stainless Steel  
Capacity :: 1000 Ltrs.
  
15. OZONE RE-CIRCULATION PUMP ::  
Quantity offered :: One No.  
Capacity :: 2000 LPH  
Discharge press. :: 2.5 Kg/cm<sup>2</sup>  
M O C :: S.S.

# A-ACCURATE ION EXCHANGE & CHEMICAL

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## **ANNEXURE – IV SCOPE OF SUPPLY**

- |   |          |
|---|----------|
| 01. Raw Water Pump with motor   | One No.  |
| 02. Pressure Sand Filter consists of ----<br>- SS Pressure vessels with manual multiport valve<br>- Initial charge of media<br>- Frontal pipe work with necessary fittings  | One No.  |
| 03. Activated Carbon Filter consists of ----<br>- SS Pressure vessels with manual multiport valve<br>- Initial charge of media<br>- Frontal pipe work with necessary fittings   | One No.  |
| 04. Special Anti Scalent Dosing System ---<br>- Dosing Pump & tank  | One No   |
| 05. Micron Cartridge Filter unit incorporating of ---<br>- Micron cartridge with housing  | One No.  |
| 06. High pressure pump with motor   | One No.  |
| 07. R O Modules incorporating ---<br>- RO Membrane : M/s. Filmtec-Dow/Hydranautics/Equi.<br>- R O Pressure tubes (MOC : SS316)<br>- R O Skid with control panel along with instruments<br>* High pressure inter connecting piping (S.S.316) | One Lot. |
| 08. Product Water Storage tank.   | One No.  |
| 09. Product water transfer pump   | One No.  |
| 10. Post Micron Cartridge Filter unit – I   | One No.  |
| 11. Post Micron Cartridge Filter unit – II  | One No.  |
| 12. Ultra Violet Sterilizer Unit  | One No.  |
| 13. Ozonation system  | One No.  |
| 14. Ozone re-circulation tank.  | One No.  |
| 15. Ozone re-circulation Pump   | One No.  |
| <b>INSTRUMENTATION</b>  |          |
| 01. Conductivity meter  | One No.  |
| 02. Flow indicator (Product/Reject)   | Two No.  |
| 03. Low pressure switch / High pressure switch  | One No.  |
| 04. Pressure Gauges   | One Lot. |

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## **ANNEXURE - V SCHEDULE OF EXCLUSION AND TERMINATIONS**

### **SCHEDULE OF EXCLUSIONS ::**

01. All civil works such as plant foundation of the equipments, mass concreting etc.
02. Supply of power to Motors, regeneration chemical for trial run and commissioning.
03. Laboratory testing facility, instruments and reagents.
04. Lubricants, Oil & Grease as and when required.
05. Raw water storage tank and transfer pump, product water storage tank and transfer pump.
06. All equipments, works and services, not specifically mentioned in our proposal.
07. Storage & site security.

### **TERMINATION POINTS ::**

01. Inlet of Raw Water Pump at 2.5 Kg/cm<sup>2</sup>
02. Permeate / Reject outlet of R O System.
03. Overflow and drain pipe work of all vessels.
04. Power control termination at High Pressure Pump, R O Product / raw water transfer pump, Ozonation system.

### **CLIENT TO PROVIDE ::**

01. Control supply :: 220 Volts (I Phase, 50Hz for all Instrumentations.
02. Power supply :: 220 Volts  $\pm$  10 Three / Single phase 50 Hz for high Pressure pump
03. Service water :: Flow rate 2500 LPH
04. Lab testing facility:: For analysis of water.
05. Labor :: As and when required.
06. Chemicals :: Sp.Anti Scalent dosing

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## **ANNEXURE - VI**

### **PRICE, COMMERCIAL TERMS & CONDITION**

#### **PRICE ::**

Our price for Design & Engineering of proposed water treatment system, based on R.O. System as described in our earlier Annexure shall be ..... **2000 LPH..... S.S. 316 ...Rs. 8,51,000/-**

**(Rupees Eight Lac Fifty One Thousand Only)**

Our price is Ex-works (Factory) and Exclusive of -  
- Transportation up to your site.

EXCISE DUTY: Extra at actual, if applicable. At present Nil.

SALES TAX: Extra at actual, @ 5 % VAT.

OCTROI : Extra at actual, if applicable.

However, any change in Govt. levies / interpretation / etc. at the time of Execution will be on Buyer's Account.

PAYMENT TERMS: 70% Advance with clear P O

30% against performa Invoice prior to dispatch

05% of Erection & commissioning charges.

DELIVERY :: Within 8-10 weeks from the date of receipt of P O along with Advance subject to Force Major Clause.

VALIDITY :: 30 DAYS

#### **GUARANTEE / WARANTEE**

The water treatment system supplied is guaranteed for a period of 12 months from the date of commissioning OR 18 Months from the date of last major supply, whichever is earlier.

Equipment guarantee is valid against defective workmanship and / or poor performance of the system only. Our liability is limited to repair or replace the same and not subject to any wear / tear or supply of consumables / spares.

Above guarantee is subjected to :

01. Using spare parts / consumables recommended by us.

02. Operation and maintenance of the plant as per our operation manual.

#### **FOREIGN EXCHANGE VARIATION CLAUSE ::**

We have considered the prevailing foreign exchange market rates at the date and time of our proposal for our imported components. However, any change in the Foreign Exchange rates at the date and time of issuance of Purchase Order will be on Buyer's Account.

With thanks and best regards,

For, A-ACCURATE ION EXCHANGE AND CHAMICAL.

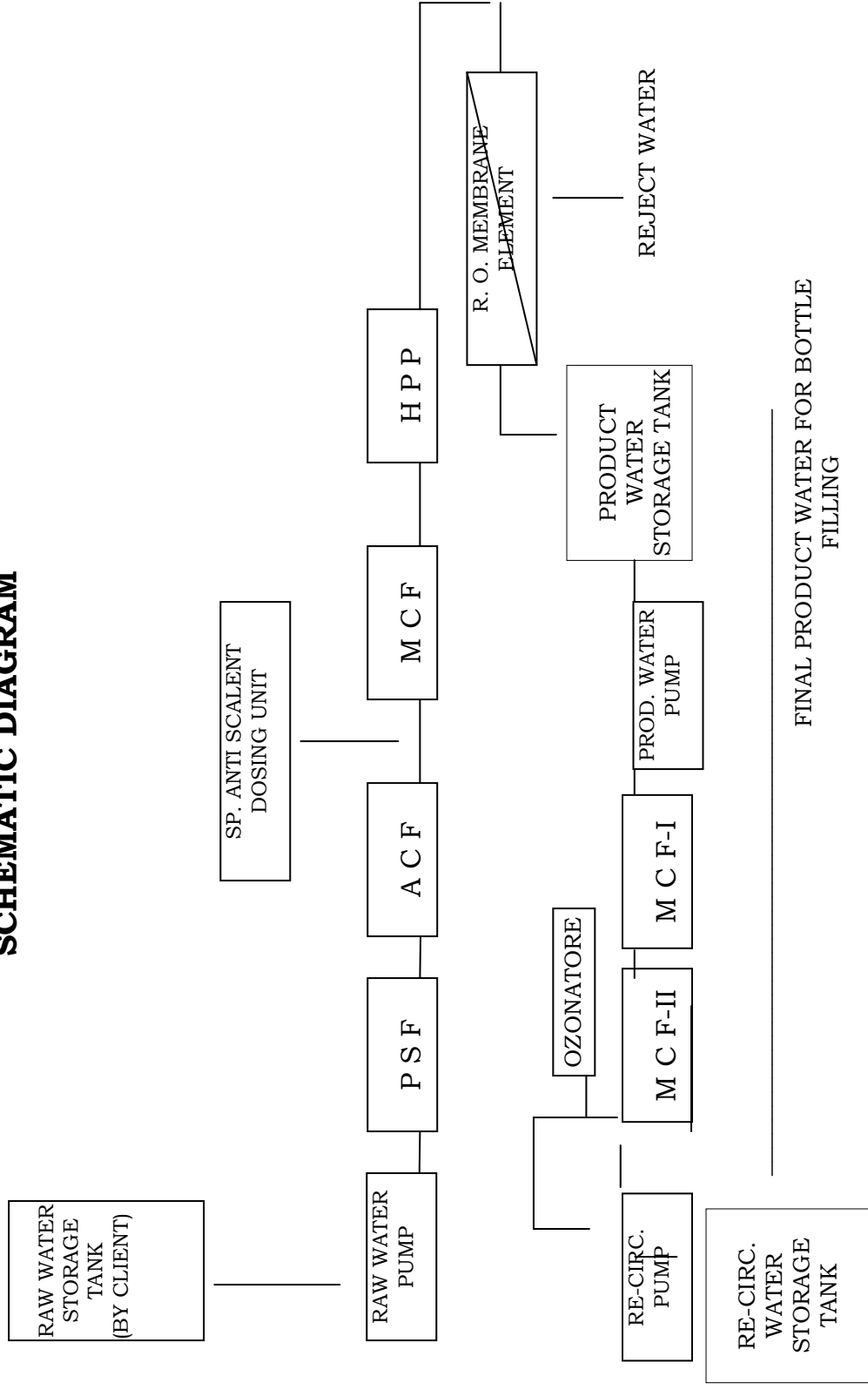
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## ANNEXURE – VII SCHEMATIC DIAGRAM





# **A-ACCURATE ION EXCHANGE & CHEMICAL**

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**Ai/ro/210/11**

## **QUOTATION FOR: - JAR WASHING & FILLING MACHINE.**

Ref :- As per Personal Matting.

Respected Sir,

We are very much thankful for showing your keen interest in our water treatment range of products & very much thankful for furnishing us an opportunity this will be a small but significant step in establishing the long lasting and mutually beneficial relationship between A-ACCURATE and your Good Self.

- 1- 20 LTRS. Jar washing machine two head hot washing & normal washing  
Machine SS304  
SS316
- 2- 20 LTRS. Jar FILLING machine two head.  
Machine SS304  
SS316

Our price is Ex- works (Factory) and Exclusive of -Transportation up to your site

- Packing Forwarding , Lading & Unloading charges extra (Apex 5%)

EXCISE DUTY :: Extra at actual, if applicable. At Present Nil

SALES TAX :: Extra at actual, at present 5% VAT or Against Form 'C'

OCTROL :: Extra at actual, if applicable.

However, any change in Govt. levies / interpretation etc. at time of Execution will be on Buyer's A/c

**PAYMENT TERSM :-** 80% Advance with clear PO, 20% against prior to dispatch.

**DELIVERY :** With in Six - Eight Week.

With thanks and best regards.

For **A-ACCURATE ION EXCHANGE & CHEMICAL**

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**Ai/ro/210/11**

## QUOTATION FOR POUCH MACHINE

KIND ATTN.: Managing Director

Dear Sirs,

We are very much thankful for showing your keen interest in our water treatment range of products & are very much thankful for furnishing us an opportunity. This will be a small but significant step in establishing the long lasting and mutually beneficial relationship between ACCURATE and your Good-Self.

As per your requirement, we are very much pleased to submit our proposal for Bottle sealing & filling machine as per following specification.

01. DOUBLE HEAD FULLY AUTOMATIC POUCH PACKING MACHINE.....

(RUPEES TWO LAC TWENTY FIVE THOUSAND ONLY)

TECHNICAL SPECIFICATION ::

Type of sealing	: Three side seal
Production capacity	: 30-36 Pouches / Minute
Packing range	: 50 ml to 1 Ltrs.
Power	: 0.5 HP + 0.5 HP, I Phase, 6 Kva,
Dimensions	: L – 1300 mm X H-1350 mm X W-690 mm
Weight	: 800 Kgs. (Aprox.)
Plastic bag	: 50 to 70 Micron

02. SINGAL HEAD FULLY AUTOMATIC POUCH PACKING MACHINE.....

(RUPEES ONE LAC FIFTIN THOUSAND ONLY)

TECHNICAL SPECIFICATION ::

Type of sealing	: Three side seal
Production capacity	: 15-20 Pouches / Minute
Packing range	: 50 ml to 1 ltrs.
Power	: 0.5 HP + 0.5 HP, I Phase, 6 Kva,
Dimensions	: L – 1300 mm X H-1350 mm X W-690 mm
Weight	: 500 Kgs. (Aprox.)
-	Plastic bag : 50 to 70 Micron

EXCISE DUTY: Extra at actual, if applicable. At present Nil.

SALES TAX :: Extra at actual, at present 4% +1% VAT

OCTROI : Extra at actual, if applicable.

However, any change in Govt.levies/interpretation etc. at the time of Execution will be on Buyer's A/c.

PAYMENT TERMS :: 80% Advance with clear P O, 20% against prior to dispatch.

DELIVERY :: With in One – Two Week after receiving your clear P.O.

With thanks and best regards,

For, ACCURATE ION EXCHANGE & CHEMICAL

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**Ai/ro/210/11**

## QUOTATION FOR BOTTLING MACHINE

Kind attn: - Managing Director

Dear Sir, TECHNICAL PARAMETERS FOR 200ml to 2,000 ml  
RINSING, FILLING & CAPPING for SÁMI automatic Machine

Model Number	DS 24
Production capacity	1440 Butt/Hr.
Production Capacity for 2 Liters	1440 Bottles / Hour and 720 Bott/Hr.
Filling Capacity	200 ml to 2000 ml
Neck Description	Standard for full range
Voltage	380 V / 3 Ph / 50Hz
Total Power	8 Kw
Unit Dimensions (L x D x H)	3000 x 2200 x 2150
Max Air pressure	0.4 m <sup>3</sup> /min, 6-7 Bar
Wash Stages	2 Stage
Stainless Steel Grade	316 for product contact, all rest 314
Rinsing & Washing Heads	8 to 12
Filling Heads	4 to 6
Capping Heads	2
Structure	Mono block
Bottle Type	PET Bottles only (NO GLASS)

Other General Features:

- New neck handling free suspension machines, helps to make bottles change over very easy, can change from one bottle size to another in matter of minutes
- All Full Stainless steel neck handling disc
- Inside and outside rinsing of Bottles
- Inside Recycle water tank to remove dirt
- Hot water for Wash cycle, with adjustable Heater temperature up to 60C
- Fully sealed units with large tempered glass windows for observation
- All transfer parts lower than filling valve
- No filling when there is no bottle, saving water
- Magnetic screwing heads with capping torque adjustable from 7-25 inch/pound
- All Parts contacting with finished product are made of AISI 316 and Anti-Ozone Food Grade material.
- Mitsubishi PLC controller equipped to make the entire process fully automatic
- Cap to be rinsed with final wash to remove any dirt and clean the cap
- All pipes are concealed to give better look and increase floor space
- Insulated Hot water tank to save energy
- Extremely Quite machine
- Low water sensor electric probe in the product tank to control the water level
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Kind attn: - Managing Director

Dear Sir,

## QUOTATION FOR LABORATORY INSTRUMENTS & CHEMICALS FOR PACKAGED DRINKING WATER

SR NO	DESCRIPTION OF ITEMS	MAKE
01.	Vertical Autoclave complete made of SS with pressure gauge safety valve, steam release.	BTI
02.	Hot Air Oven size 14 x 14 x 14 made of inner SS & outer MS.	BTI
03.	B. O . D. Incubator digital readout temp. of 20° C.	BTI
04.	Incubator digital readout temp. 20° C.	BTI
05.	Incubator bacteriological for 37° C , size 14" x 14" x 14"	BTI
06.	Water bath inner chamber of SS outer of SS six holes of 3" with thermostatic	BTI
07.	Innoculation chamber	BTI
08.	Conductivity Meter	E I
09.	pH Meter Digital	Global
10.	Visible spectrophotometer	E I
11.	Turbidity meter digital	E I
12.	Colony counter digital	E I
13.	SS filter Hoder	B T I
14.	Microscope Binocular with bulb in Halogen lamp	Lebomed Vision
15.	Magnetic Stirrer with Hotplate	Remi
16.	Centrifuge	Remi
17.	Single Pan Balance	Standard
18.	Hot Plate	B T I
19.	Pressure High Vacuum pump single stage with ¼ HP Motor	Micronvac
20.	Gas Stripping Apparatus with stand and clamp	Borosilicate
21.	Distill water Steel	SS
22.	Platinum Crucible	10 gm
23.	Glass Cuvette	Glass
24.	Membrane Filter paper	PJAL
25.	Chemicals Total 104 Nos. Make : Ranbaxy, S.D. Fin, Thomas Baker as per IS 14543:2004	
26.	Glasswares total 38 Nos. Make : Borosil and other Stds.	

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