

Ref : IIECL-Q / rk / 4573 - 1 / 12

Date:06/09/2012

TO,
Dhaval Mistry
D/189 harisisddhpark society

KIND ATTN :Dhaval mistry
SUB:Accountant

Dear Sir,

Thank you for your telephonic discussion with our Test Entry for Mineral Water Plant regards to subject matter on 06/09/2012. Your sparing valued time for the discussion and showing interest in range of our products are sincerely appreciated.

In this regard, we are submitting herewith our offer for following capacities:

CAPACITY: 250 LITER/HR 5000 LITER/DAY

The detailed offer is as per attached INDEX and ANNEXURES.

We hope that you will find the above in line with your requirement.

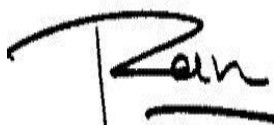
Kindly contact us for any further information / clarification require in this matter.

We shall be glad to furnish the same.

Thanking you and anticipating a favourable reply.

Yours faithfully,

For, INDIAN ION EXCHANGE
& CHEMICALS LTD.



Ravi Khakhariya
(Mkt. Co-ordinator)



DR. BHAVIN VYAS
(TECH.DIRECTOR)



REVERSE OSMOSIS PLANT

MODEL : X'AT

CAPACITY : 250-1000 LPH



C-1. Raw Water Pump(Client Scope) :

1. Multi Media Filter :
2. Dosing System
3. Micron Cartridge Filter (Pre-Treatment)
4. High Pressure Pump
5. Reverse Osmosis System
6. RO Storage Tank (Client Scope)

TECHNICAL SPECIFICATIONS

0A RAW WATER TANK = CLIENT SCOPE 0B RAW WATER PUMP = CLIENT SCOPE

	<p>Quantity : One No.</p> <p>Moc : PP/Construced</p> <p>Capacity : 2000 LTR</p>		<p>Quantity : One No.</p> <p>Moc : Cast Iron</p> <p>Operating Flow Rate : 1.75 M³/Hr.</p>
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1 MULTI MEDIA FILTER (DMF)

	<p>PROCESS</p> <p>Physical Impurity Removal by Graded Filtrations</p> <p>RESULT</p> <p>Removal of Physical Impurity from 250 micron to 50 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Down Flow</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>Operating Pressure : 2.5 Kg/cm².</p> <p>Type of Media : Dual, Sand, Pebbles,</p> <p>Supporting Media : Gravels & Silex</p> <p>M.O.C. of Shell : S.S.R.L.</p>
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2 ANTISCALENT DOSING SYSTEM (ADS)

	<p>PROCESS</p> <p>The system consisting of electronic diaphragm dosing pump along with distribution & subction systems.</p> <p>RESULT</p> <p>The equal distribution of Chemical makes antiscaling Process effective leads to zero scalling to Post treatment</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Electronic Dosing Pump</p> <p>Capacity : 5 LPH @ 3kg/cm²</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>M.O.C. of Pump : Advance Robust Plastic</p> <p>Make : Edose/asislml/equiv</p> <p>Dosing Tank : 50 Ltrs.</p> <p>M.O.C. of Shell : HDPE.</p>
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3 MICRON CARTRIDGE FILTER

	<p>PROCESS</p> <p>Micron Filtration by Cartridge below Visilibility.</p> <p>RESULT</p> <p>Removal of Physical Impurity from 20 to 1 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity Offered : One No.</p> <p>Type : Micron Cartridge Filter</p> <p>Operating Flow Rate : 1.25 M³/Hr.</p> <p>Operating Pressure : 2.5 Kg/Cm²</p> <p>Micron Rating of Cartridge : 5 Micron</p> <p>M.O.C. of Housing : S.S.R.L.</p> <p>M.O.C. of Cartridge : Polypropolylene</p> <p>Size of Cartridge : 20"</p> <p>Make of Cartridge : Amtech - USA/Osmonic</p>
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TECHNICAL SPECIFICATIONS

4 HIGH PRESSURE PUMP



PROCESS

To boost the pressure to the requisites pressure

RESULT

This will enable RO Membrane to produce pure water

TECHNICAL SPECIFICATIONS

Type	: Piston/Triplex/Ven
Operating flow rate	: 1.25 M ³ /Hr
Operating Pressure	: 12 Kg/cm ² .
Material of construction	: SS / CI / Eqv.
Type of drive	: III Phase, Squirrel cage Induction Motor.
POWER	: 1 HP

5 REVERSE OSMOSIS WITH STORAGE TANK



PROCESS

Hyper Filtration by Membranes
The Finest Filtration Based on Micron Rating & Molecular Cut-off Weight

RESULT

Physical Impu. Removal : 100%
Biological Impu. Removal : 100%
Chemical Impu. Removal : 90-95%

TECHNICAL SPECIFICATIONS

Type of Membrane	: Spiral wound TFC
Make	: HYDRONAUTICS EQV.
Operating Pressure	: 12 kg/cm ² .
Flow Rate	: 1.25 M ³ /Hr.
Qty Membrane	: 4" - 1 No.
Qty. Housing	: 4" - 1 Nos.
Membrane Size	: 1 No.
TANK	
Capacity	: 500 Ltr
Make	: S.S. 304

6 TRANSFER PUMP



PROCESS

To transfer RO Treated Water to Post-Treatment

Qty	: 1 Nos.
Flow Rate	: 0.5 M ³ /HR
MOC	: CI

7 MICRON CARTRIDGE FILTER - POST TREATMENT



PROCESS

Micron Filtration by Cartridge much below Visibility.

RESULT

Removal of Physical Impurity from 5 to 0.2 micron

TECHNICAL SPECIFICATIONS

Quantity offered	: One no.
Operating Flow rate	: 0.25 M ³ /HR
Operating Pressure	: 2.5 Kg/Cm ²
Micron Rating of cartridge	: 5 Micron
M.O.C. of Housing	: SS
M.O.C. of Cartridge	: Polypropylene
Size of cartridge	: 20"

TECHNICAL SPECIFICATIONS

8 ULTRA VIOLET SYSTEM (U.V.)



PROCESS

Disinfection with help of
Ultraviolet Rays.

RESULT

Biological Impurities
Removal : 99.999%

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Type	: Up flow
Operating Flow rate	: 0.25 M3/HR
Operating Pressure	: 2.0 Kg./cm ²
M.O.C. of Housing	: S.S.
Make of U.V. Tube	: Sankyo – Japan

A-2 / A-3 OZONE SYSTEM WITH TANK



PROCESS

Three Atoms of Oxygen from
air are taken and the same is
converted in Ozone

RESULT

The Ozone has more Dilution
Power compare to Oxygen Which makes
Water Disinfected for Long Time.

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Capacity	: 2 GPH
Flow Rate	: -
TANK	
Tank MOC	: -
Capacity	: 500 Ltr

TECHNICAL SPECIFICATIONS

0A RAW WATER TANK = CLIENT SCOPE 0B RAW WATER PUMP = CLIENT SCOPE

	<p>Quantity : One No.</p> <p>Moc : PP/Construced</p> <p>Capacity : 2000 LTR</p>		<p>Quantity : One No.</p> <p>Moc : Cast Iron</p> <p>Operating Flow Rate : 1.75 M³/Hr.</p>
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1 MULTI MEDIA FILTER (DMF)

	<p>PROCESS</p> <p>Physical Impurity Removal by Graded Filtrations</p> <p>RESULT</p> <p>Removal of Physical Impurity from 250 micron to 50 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Down Flow</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>Operating Pressure : 2.5 Kg/cm².</p> <p>Type of Media : Dual, Sand, Pebbles,</p> <p>Supporting Media : Gravels & Silex</p> <p>M.O.C. of Shell : S.S.R.L.</p>
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2 ANTISCALENT DOSING SYSTEM (ADS)

	<p>PROCESS</p> <p>The system consisting of electronic diaphragm dosing pump along with distribution & subction systems.</p> <p>RESULT</p> <p>The equal distribution of Chemical makes antiscaling Process effective leads to zero scalling to Post treatment</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Electronic Dosing Pump</p> <p>Capacity : 5 LPH @ 3kg/cm²</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>M.O.C. of Pump : Advance Robust Plastic</p> <p>Make : Edose/asislml/equiv</p> <p>Dosing Tank : 50 Ltrs.</p> <p>M.O.C. of Shell : HDPE.</p>
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3 MICRON CARTRIDGE FILTER

	<p>PROCESS</p> <p>Micron Filtration by Cartridge below Visilibility.</p> <p>RESULT</p> <p>Removal of Physical Impurity from 20 to 1 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity Offered : One No.</p> <p>Type : Micron Cartridge Filter</p> <p>Operating Flow Rate : 1.25 M³/Hr.</p> <p>Operating Pressure : 2.5 Kg/Cm²</p> <p>Micron Rating of Cartridge : 5 Micron</p> <p>M.O.C. of Housing : S.S.R.L.</p> <p>M.O.C. of Cartridge : Polypropolylene</p> <p>Size of Cartridge : 20"</p> <p>Make of Cartridge : Amtech - USA/Osmonic</p>
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TECHNICAL SPECIFICATIONS

4 HIGH PRESSURE PUMP



PROCESS

To boost the pressure to the requisites pressure

RESULT

This will enable RO Membrane to produce pure water

TECHNICAL SPECIFICATIONS

Type	: Piston/Triplex/Ven
Operating flow rate	: 1.25 M ³ /Hr
Operating Pressure	: 12 Kg/cm ² .
Material of construction	: SS / CI / Eqv.
Type of drive	: III Phase, Squirrel cage Induction Motor.
POWER	: 1 HP

5 REVERSE OSMOSIS WITH STORAGE TANK



PROCESS

Hyper Filtration by Membranes
The Finest Filtration Based on Micron Rating & Molecular Cut-off Weight

RESULT

Physical Impu. Removal : 100%
Biological Impu. Removal : 100%
Chemical Impu. Removal : 90-95%

TECHNICAL SPECIFICATIONS

Type of Membrane	: Spiral wound TFC
Make	: HYDRONAUTICS EQV.
Operating Pressure	: 12 kg/cm ² .
Flow Rate	: 1.25 M ³ /Hr.
Qty Membrane	: 4" - 1 No.
Qty. Housing	: 4" - 1 Nos.
Membrane Size	: 1 No.
TANK	
Capacity	: 500 Ltr
Make	: S.S. 304

6 TRANSFER PUMP



PROCESS

To transfer RO Treated Water to Post-Treatment

Qty	: 1 Nos.
Flow Rate	: 0.5 M ³ /HR
MOC	: CI

7 MICRON CARTRIDGE FILTER - POST TREATMENT



PROCESS

Micron Filtration by Cartridge much below Visibility.

RESULT

Removal of Physical Impurity from 5 to 0.2 micron

TECHNICAL SPECIFICATIONS

Quantity offered	: One no.
Operating Flow rate	: 0.25 M ³ /HR
Operating Pressure	: 2.5 Kg/Cm ²
Micron Rating of cartridge	: 5 Micron
M.O.C. of Housing	: SS
M.O.C. of Cartridge	: Polypropylene
Size of cartridge	: 20"

TECHNICAL SPECIFICATIONS

8 ULTRA VIOLET SYSTEM (U.V.)



PROCESS

Disinfection with help of
Ultraviolet Rays.

RESULT

Biological Impurities
Removal : 99.999%

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Type	: Up flow
Operating Flow rate	: 0.25 M3/HR
Operating Pressure	: 2.0 Kg./cm ²
M.O.C. of Housing	: S.S.
Make of U.V. Tube	: Sankyo – Japan

A-2 / A-3 OZONE SYSTEM WITH TANK



PROCESS

Three Atoms of Oxygen from
air are taken and the same is
converted in Ozone

RESULT

The Ozone has more Dilution
Power compare to Oxygen Which makes
Water Disinfected for Long Time.

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Capacity	: 2 GPH
Flow Rate	: -
TANK	
Tank MOC	: -
Capacity	: 500 Ltr

TECHNICAL SPECIFICATIONS

0A RAW WATER TANK = CLIENT SCOPE 0B RAW WATER PUMP = CLIENT SCOPE

	<p>Quantity : One No.</p> <p>Moc : PP/Construced</p> <p>Capacity : 2000 LTR</p>		<p>Quantity : One No.</p> <p>Moc : Cast Iron</p> <p>Operating Flow Rate : 1.75 M³/Hr.</p>
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1 MULTI MEDIA FILTER (DMF)

	<p>PROCESS</p> <p>Physical Impurity Removal by Graded Filtrations</p> <p>RESULT</p> <p>Removal of Physical Impurity from 250 micron to 50 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Down Flow</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>Operating Pressure : 2.5 Kg/cm².</p> <p>Type of Media : Dual, Sand, Pebbles,</p> <p>Supporting Media : Gravels & Silex</p> <p>M.O.C. of Shell : S.S.R.L.</p>
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2 ANTISCALENT DOSING SYSTEM (ADS)

	<p>PROCESS</p> <p>The system consisting of electronic diaphragm dosing pump along with distribution & subction systems.</p> <p>RESULT</p> <p>The equal distribution of Chemical makes antiscaling Process effective leads to zero scalling to Post treatment</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Electronic Dosing Pump</p> <p>Capacity : 5 LPH @ 3kg/cm²</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>M.O.C. of Pump : Advance Robust Plastic</p> <p>Make : Edose/asislml/equiv</p> <p>Dosing Tank : 50 Ltrs.</p> <p>M.O.C. of Shell : HDPE.</p>
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3 MICRON CARTRIDGE FILTER

	<p>PROCESS</p> <p>Micron Filtration by Cartridge below Visilibility.</p> <p>RESULT</p> <p>Removal of Physical Impurity from 20 to 1 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity Offered : One No.</p> <p>Type : Micron Cartridge Filter</p> <p>Operating Flow Rate : 1.25 M³/Hr.</p> <p>Operating Pressure : 2.5 Kg/Cm²</p> <p>Micron Rating of Cartridge : 5 Micron</p> <p>M.O.C. of Housing : S.S.R.L.</p> <p>M.O.C. of Cartridge : Polypropolylene</p> <p>Size of Cartridge : 20"</p> <p>Make of Cartridge : Amtech - USA/Osmonic</p>
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TECHNICAL SPECIFICATIONS

0A RAW WATER TANK = CLIENT SCOPE 0B RAW WATER PUMP = CLIENT SCOPE

	<p>Quantity : One No.</p> <p>Moc : PP/Construced</p> <p>Capacity : 2000 LTR</p>		<p>Quantity : One No.</p> <p>Moc : Cast Iron</p> <p>Operating Flow Rate : 1.75 M³/Hr.</p>
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1 MULTI MEDIA FILTER (DMF)

	<p>PROCESS</p> <p>Physical Impurity Removal by Graded Filtrations</p> <p>RESULT</p> <p>Removal of Physical Impurity from 250 micron to 50 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Down Flow</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>Operating Pressure : 2.5 Kg/cm².</p> <p>Type of Media : Dual, Sand, Pebbles,</p> <p>Supporting Media : Gravels & Silex</p> <p>M.O.C. of Shell : S.S.R.L.</p>
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2 ANTISCALENT DOSING SYSTEM (ADS)

	<p>PROCESS</p> <p>The system consisting of electronic diaphragm dosing pump along with distribution & subction systems.</p> <p>RESULT</p> <p>The equal distribution of Chemical makes antiscaling Process effective leads to zero scalling to Post treatment</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Electronic Dosing Pump</p> <p>Capacity : 5 LPH @ 3kg/cm²</p> <p>Operating flow rate : 1.25 M³/Hr</p> <p>M.O.C. of Pump : Advance Robust Plastic</p> <p>Make : Edose/asislml/equiv</p> <p>Dosing Tank : 50 Ltrs.</p> <p>M.O.C. of Shell : HDPE.</p>
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3 MICRON CARTRIDGE FILTER

	<p>PROCESS</p> <p>Micron Filtration by Cartridge below Visilibility.</p> <p>RESULT</p> <p>Removal of Physical Impurity from 20 to 1 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity Offered : One No.</p> <p>Type : Micron Cartridge Filter</p> <p>Operating Flow Rate : 1.25 M³/Hr.</p> <p>Operating Pressure : 2.5 Kg/Cm²</p> <p>Micron Rating of Cartridge : 5 Micron</p> <p>M.O.C. of Housing : S.S.R.L.</p> <p>M.O.C. of Cartridge : Polypropolylene</p> <p>Size of Cartridge : 20"</p> <p>Make of Cartridge : Amtech - USA/Osmonic</p>
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TECHNICAL SPECIFICATIONS

4 HIGH PRESSURE PUMP



PROCESS

To boost the pressure to the requisites pressure

RESULT

This will enable RO Membrane to produce pure water

TECHNICAL SPECIFICATIONS

Type	: Piston/Triplex/Ven
Operating flow rate	: 1.25 M ³ /Hr
Operating Pressure	: 12 Kg/cm ² .
Material of construction	: SS / CI / Eqv.
Type of drive	: III Phase, Squirrel cage Induction Motor.
POWER	: 1 HP

5 REVERSE OSMOSIS WITH STORAGE TANK



PROCESS

Hyper Filtration by Membranes
The Finest Filtration Based on Micron Rating & Molecular Cut-off Weight

RESULT

Physical Impu. Removal : 100%
Biological Impu. Removal : 100%
Chemical Impu. Removal : 90-95%

TECHNICAL SPECIFICATIONS

Type of Membrane	: Spiral wound TFC
Make	: HYDRONAUTICS EQV.
Operating Pressure	: 12 kg/cm ² .
Flow Rate	: 1.25 M ³ /Hr.
Qty Membrane	: 4" - 1 No.
Qty. Housing	: 4" - 1 Nos.
Membrane Size	: 1 No.
TANK	
Capacity	: 500 Ltr
Make	: S.S. 304

6 TRANSFER PUMP



PROCESS

To transfer RO Treated Water to Post-Treatment

Qty	: 1 Nos.
Flow Rate	: 0.5 M ³ /HR
MOC	: CI

7 MICRON CARTRIDGE FILTER - POST TREATMENT



PROCESS

Micron Filtration by Cartridge much below Visibility.

RESULT

Removal of Physical Impurity from 5 to 0.2 micron

TECHNICAL SPECIFICATIONS

Quantity offered	: One no.
Operating Flow rate	: 0.25 M ³ /HR
Operating Pressure	: 2.5 Kg/Cm ²
Micron Rating of cartridge	: 5 Micron
M.O.C. of Housing	: SS
M.O.C. of Cartridge	: Polypropylene
Size of cartridge	: 20"



TECHNICAL SPECIFICATIONS

0A RAW WATER TANK = CLIENT SCOPE 0B RAW WATER PUMP = CLIENT SCOPE

	<p>Quantity : One No. Moc : PP/Construced Capacity : 10000 LTR</p>		<p>Quantity : One No. Moc : Cast Iron Operating Flow Rate : 2.0 M³/Hr.</p>
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1 MULTI MEDIA FILTER (DMF)

	<p>PROCESS Physical Impurity Removal by Graded Filtrations</p> <p>RESULT Removal of Physical Impurity from 250 micron to 50 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos. Type : Down Flow Operating flow rate : 3.0 M³/Hr Operating Pressure : 2.5 Kg/cm². Type of Media : Dual, Sand, Pebbles, Supporting Media : Gravels & Silica M.O.C. of Shell : S.S.R.L.</p>
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2 ANTISCALENT DOSING SYSTEM (ADS)

	<p>PROCESS The system consisting of electronic diaphragm dosing pump along with distribution & suction systems.</p> <p>RESULT The equal distribution of Chemical makes antiscaling Process effective leads to zero scaling to Post treatment</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos. Type : Electronic Dosing Pump Capacity : 5 LPH @ 3kg/cm² Operating flow rate : 3.0 M³/Hr M.O.C. of Pump : Advance Robust Plastic Make : Edose/asism/equiv Dosing Tank : 100 Ltrs M.O.C. of Shell : HDPE.</p>
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3 MICRON CARTRIDGE FILTER

	<p>PROCESS Micron Filtration by Cartridge below Visibility.</p> <p>RESULT Removal of Physical Impurity from 20 to 1 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity Offered : One No. Type : Micron Cartridge Filter Operating Flow Rate : 3.0 M³/Hr. Operating Pressure : 2.5 Kg/Cm² Micron Rating of Cartridge : 5 Micron M.O.C. of Housing : S.S.R.L. M.O.C. of Cartridge : Polypropylene Size of Cartridge : 20" Make of Cartridge : Amtech - USA/Osmonic</p>
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SPECIAL FEATURES :

- TOTAL SS PLANT
- ISI APPROVED QUALITY
- HIGH GRADE SS316L STEEL
- UV SYSTEM - JAPANESE TECHNOLOGY
- WATER SYSTEM - EUROPEAN TECHNOLOGY
- MEMBRANE FROM USA

NO	DESCRIPTION	PRICE
1 to 9	Mineral Water Plant X cel	₹ 1.0
A - 1	MWP tank - 500 ltr	₹ 1.5
A - 2	Ozone System	₹ 2.0
A - 3	Ozone Tank - 1000 LTR	₹ 2.5
SS Piping (OZONE TO FILLING SECTION) APX.		₹ 3.6

SYS-1

COST: ₹ 10.6 Lacs

TECHNICAL SPECIFICATIONS

0A RAW WATER TANK = CLIENT SCOPE 0B RAW WATER PUMP = CLIENT SCOPE

	<p>Quantity : One No.</p> <p>Moc : PP/Constructed</p> <p>Capacity : 3000 LTR</p>		<p>Quantity : One No.</p> <p>Moc : Cast Iron</p> <p>Operating Flow Rate : 1.75 M³/Hr.</p>
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1 MULTI MEDIA FILTER (DMF)

	<p>PROCESS</p> <p>Physical Impurity Removal by Graded Filtrations</p> <p>RESULT</p> <p>Removal of Physical Impurity from 250 micron to 50 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Down Flow</p> <p>Operating flow rate : 1.75 M³/Hr</p> <p>Operating Pressure : 2.5 Kg/cm².</p> <p>Type of Media : Dual, Sand, Pebbles,</p> <p>Supporting Media : Gravels & Silex</p> <p>M.O.C. of Shell : S.S.R.L.</p>
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2 ANTISCALENT DOSING SYSTEM (ADS)

	<p>PROCESS</p> <p>The system consisting of electronic diaphragm dosing pump along with distribution & suction systems.</p> <p>RESULT</p> <p>The equal distribution of Chemical makes antiscaling Process effective leads to zero scaling to Post treatment</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity offered : One Nos.</p> <p>Type : Electronic Dosing Pump</p> <p>Capacity : 5 LPH @ 3kg/cm²</p> <p>Operating flow rate : 1.75 M³/Hr</p> <p>M.O.C. of Pump : Advance Robust Plastic</p> <p>Make : Edose/asism/lequv</p> <p>Dosing Tank : 50 Ltrs.</p> <p>M.O.C. of Shell : HDPE.</p>
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3 MICRON CARTRIDGE FILTER

	<p>PROCESS</p> <p>Micron Filtration by Cartridge below Visibility.</p> <p>RESULT</p> <p>Removal of Physical Impurity from 20 to 1 micron</p>	<p>TECHNICAL SPECIFICATIONS</p> <p>Quantity Offered : One No.</p> <p>Type : Micron Cartridge Filter</p> <p>Operating Flow Rate : 1.75 M³/Hr.</p> <p>Operating Pressure : 2.5 Kg/Cm²</p> <p>Micron Rating of Cartridge : 5 Micron</p> <p>M.O.C. of Housing : S.S.R.L.</p> <p>M.O.C. of Cartridge : Polypropylene</p> <p>Size of Cartridge : 20"</p> <p>Make of Cartridge : Amtech - USA/Osmonic</p>
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SYS-2 2.1

COST: ₹ 1.0 Lacs

TECHNICAL SPECIFICATIONS

4 HIGH PRESSURE PUMP



PROCESS

To boost the pressure to the requisites pressure

RESULT

This will enable RO Membrane to produce pure water

TECHNICAL SPECIFICATIONS

Type	: Piston/Triplex/Ven
Operating flow rate	: 1.75 M ³ /Hr
Operating Pressure	: 12 Kg/cm ² .
Material of construction	: SS / CI / Eqv.
Type of drive	: III Phase, Squiral cage Induction Motor.
POWER	: 2 HP

5 REVERSE OSMOSIS WITH STORAGE TANK



PROCESS

Hyper Filtration by Membranes
The Finest Filtration Based on Micron Rating & Molecular Cut-off Weight

RESULT

Physical Impu. Removal : 100%
Biological Impu. Removal : 100%
Chemical Impu. Removal : 90-95%

TECHNICAL SPECIFICATIONS

Type of Membrane	: Spiral wound TFC
Make	: HYDRONAUTICS EQV.
Operating Pressure	: 12 kg/cm ² .
Flow Rate	: 1.75 M ³ /Hr.
Qty Membrane	: 4" - 2 No.
Qty. Housing	: 4" - 1 Nos.
Membrane Size	: 2 No.
TANK	
Capacity	: 500 Ltr
Make	: S.S. 304

6 TRANSFER PUMP



PROCESS

To tranfer RO Treated Water to Post-Treatment

Qty	: 1 Nos.
Flowr Rate	: 0.5 M3/HR
MOC	: CI

7 MICRON CARTRIDGE FILTER - POST TREATMENT



PROCESS

Micron Filtration by Cartridge much below Visibility.

RESULT

Removal of Physical Impurity from 5 to 0.2 micron

TECHNICAL SPECIFICATIONS

Quantity offered	: One no.
Operating Flow rate	: 0.5 M3/HR
Operating Pressure	: 2.5 Kg/Cm ²
Micron Rating of cartridge	: 5 Micron
M.O.C. of Housing	: SS
M.O.C. of Cartridge	: Polypropylene
Size of cartridge	: 20"

SYS-2 2.1

COST: ₹ 1.0 Lacs

TECHNICAL SPECIFICATIONS

8 ULTRA VIOLET SYSTEM (U.V.)



PROCESS

Disinfection with help of Ultraviolet Rays.

RESULT

Biological Impurities Removal : 99.999%

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Type	: Up flow
Operating Flow rate	: 0.5 M3/HR
Operating Pressure	: 2 Kg./cm ²
M.O.C. of Housing	: S.S.
Make of U.V. Tube	: Sankyo – Japan

A-2 / A-3 OZONE SYSTEM WITH TANK



PROCESS

Three Atoms of Oxygen from air are taken and the same is converted in Ozone

RESULT

The Ozone has more Dilution Power compare to Oxygen Which makes Water Disinfected for Long Time.

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Capacity	: 2 GPH
Flow Rate	: 0.5 m ³ /Hr.
TANK	
Tank MOC	: SS 304
Capacity	: 500 Ltr

SYS-2 2.1

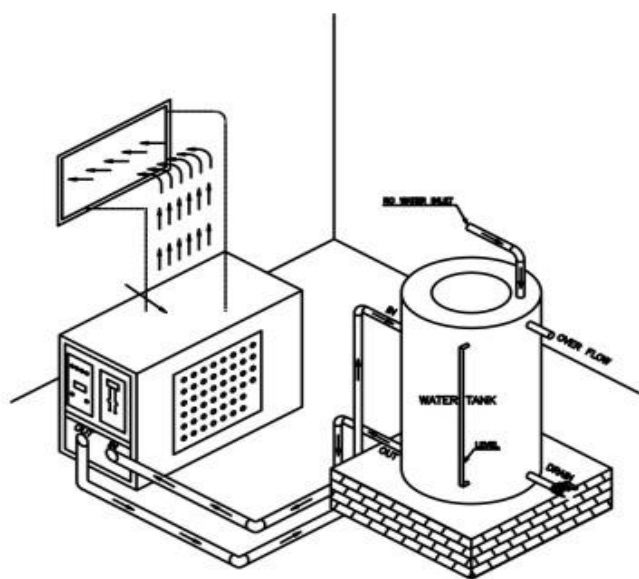
COST: ₹ 1.0 Lacs

CHILLER

ONLINE CHILLER



- Body : Ms Structure & SS Tank
- Insulation : Puf Insulation
- Compressor : Kirlosker Make Compressor
- Motor : ISI Standard fan Motor 18" Fans)
- Condenser : Fence Type
- Refrigerant : R-22



SYS-3 3.1

COST: ₹ 1.2 Lacs

BOTTLING MACHINE

Semi Auto



MOC	:	316 SSRL
PUMP	:	SS PUMP MOTOR
DIAMENSION	:	1600MM X 720MM X 200MM APPX.
BOTTLE FILLING CAPE	:	500ML TO 2 LTRS PER BOTTLE
ACCURACY	:	+/-3%
GROSS WEIGHT	:	450KGS
PRODUCTION CAPACITY	:	500 BTL/HR.
MANPOWER	:	8 PERSON
POWER REQUIREMENT	:	4 - 5 HP
SPACE	:	15 X 10 FEET

SYS-3 3.1

COST: ₹ 4.5 Lacs

BLOW MOLDING MACHINE

Semi Auto Bottle Mfg. Blow Molding Machine



SEMI AUTO BLOW MOULDING – 1800-2000

SEMI Automatic Pet Stretch Blow Moulding Machine,

Model : **SSPI/Fa/2000**

Capacity : 30ml To 2 Ltr,

Neck Dia 25-45mm

Prod. Capacity: 1800 to 2000 BPH

No. of cavity : 2

Production Hight (Max.) : 300 mm maximum

Product Outer Diameter (Max.) ;100mm

Operating pressure ; 8

Blowing pressure ; 35

Compressor :-

20 HP Duplex – High Pressure

(40 hp - 20HP)

3 R Chiller

Air Dryer –

40CFM/ 40BAR



- Heater can adjust as per shape & Length of Preform
- Blow more than 4mm wall thickness preform in our machine
- For better quality it is essential that preform shoul get perfect heat in internal part of preform body.
- Every Hour, preform reheater can output heated PET preform up to 1400 pcs.
- We provide Integrated water cooling system with one inlet & one outlet for conveyor

SYS-3 3.1

COST: ₹ 33.98 Lacs

JAR WASHING MACHINE

Jar Washing Machine Fully Auto



- Model : NBF - 60
- Production : 100 JPH
- Filling head : 1
- Cap Sealing head : 1
- Source : 220V, 50HZ.
- Capacity : 20 ltr.
- Dimensions : 10 x 2 x 8 feet
LXBXH
- Weight : 500 Kg.
- Material : Ss304
- Electric load : 2KW

BATCH CODING MACHINE



Supply Voltage	: 230Vac + 10%, 15VA
Printing Area	: 1 to 6 lines (35mm x 35mm)
Printing Speed	: Max. 80 imprints per minute
Print Using	: Easily Chargeable Rubber Stereo (Grooved, Flat) & Nylon Stereo
Type Style	: Dots (ink-Jet) & Standard
Impression	: As Like Printing or As like Ink Jet
Inking Medium	: Special Rechargeable Ink Cartridge / Ink Roller

GLASS MACHINE

Fully Auto Glass Machine



**AUTOMATIC CUP / GLASS RINSING,
FILLING & SEALING MACHINE**

Model No : IIECF-95

Source	:	220V, 50Hz
Output	:	2000 cup/hr
Tempt	:	0-300°C
Motor	:	PE,PP,PET/PE/AL
Dimension	:	1700x540x1400 mm approx
Weight	:	300 KG approx

Stations of the machine are as follows

- Plastic Cup Dropping Station
- Filling Station
- Aluminum Foil Lid Placing station
- Sealing Station
- Dating Station
- Exit Conveyor

BLOW MOLDING MACHINE

Semi Auto Bottle Mfg. Blow Molding Machine



SEMI AUTO BLOW MOULDING – 1000 BPH

Model : SSPI/2000

Capacity : 30ml to 2ltr,

Prod. Capacity: 1000 BPH ,

Mould:

Maximum mould thickness-150mm

Minimum mould thickness -140mm

Clamping Force- 8 ton

Oven:

Number of Preform Holders-74

Number of Heating Modules- 1

Number of Heating Zones - 8

Lamp Power- 2000 W

Lamp Length -1120mm

Stretching:

Number of Stretch Rods-2

Stretching Stroke Max.-400 mm

Air Requirement:

Operating Pressure - 8 Bar

Blowing Pressure-28 Bar max.

Technical specifications:

1. Infrared pre-heating system

2. Indexing Conveyor similar to fully

AUTOMATIC Machine

Accessories required for above Machine:-



Power requirement for our above Machine

Particulars	Specification	Qty.No.
Compressor 20 HP - High Pressure, 37 CFM	Inclusive our price	1
Cooling System	Inclusive our price	1
Air Dryer - 40 CFM	Optional	1

Particulars	Kw
Machine without utility	15.00
Motor	0.5
Compressor (20hp high pressure)	15.5
Chiller	2.00
Air Dryer	2.00
Total Connected load require with utility (Install Power)	35.00 (46.7hp approx)

BOTTLING MACHINE

Fully Auto Bottling Machine

TYPE : ROTARY

Capacity : 24 BPM



- Eight Head Auto Washing Filling, Capping
- Easy to operate
- Virtually no maintenance
- Low Power consumption
- Electronic digital temperature controller
- High efficiency heaters
- Suitable for PVC & LDPE films
- Fixed / variable conveyer speed
- Capacity : 1450 Bottle/ Hr.

TECHNICAL SPECIFICATION & MAKE

Model Number	: S.S.E.W – 1800
Production Capacity For 1 Ltrs	: 1450 Bottles / Hour
Filling Capacity	: 200 ml to 2,000 ml
Neck Description	: Standard for full range
Voltage	: Operating System 24V D.C.
	: Input 415V + N
Total Power	: 6 Kw
Unit Dimensions (LxDxH)	: 3600 x 2000 x 1600
Wash Stage	: 1 Stage
Rinsing & Washing Heads	: 2
Filling Heads	: 3
Capping Heads	: 1
Structure	: Rotary
Bottle type	: PET Bottles only (NO Glass)
Bottle Placing	: Air Blower
Bottle Pickup	: Neck Holding



POUCH MACHINE

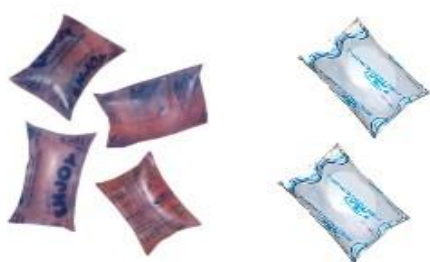
POUCH PACKING MACHINE

Super Shining
SINGLE HEAD



FULLY AUTOMATIC FORM, FILL & SEAL MACHINE.

- Gravity filter system to pack various free flow liquids like Mineral Water.
- High accuracy
- Easy to operate
- Very low maintenance
- Filling Range : 200ml to 1000ml
- Speed : 3000 Pouch/Hour
- Packing Material : Polyethylene film



JAR WASHING MACHINE

TYPE : III STAGE



- Washing Range : 1 Ltr to 20 Ltr Bottles
- Storage Tank & Pipe : SS 304
- Hopper : SS 304
- Motor : 0.5 HP Motor (I Phase)
- Frame Size : L-1050 mm X W-700 X H 625 mm
- Gross Weight : 100 Kgs Appx

VALUE ADDED TECHNOLOGY

OZONE BOOSTER TECHNOLOGY



PROCESS

Ozone is a Tri atmospheric form of Oxygen, which unstable gas made from oxygen form atmospheric air which is use to oxidize all harmful Bacteria, Virus, Organic Matter, & Bad odor presence in water.

FUNCTION

This is a HDPE vertical storage tank is required for storage of ozone Product water. Inlet/Outlet PVC/HDPE pipe work with suitable isolation valves, levels Indicator, etc. are provided.

TECHNICAL SPECIFICATION

Quantity Offered	:	One No.
Type	:	Down Flow
Operating Flow rate:	:	0.25 M3
Operating Pressure:	:	2.0 Kg/cm2.
M.O.C. of Shell	:	S.S.R.L.

VALUE ADDED TECHNOLOGY

SILVER TECHNOLOGY



PROCESS

The Silver is dispraise by electrolysis process

FUNCTION

Silver Touch gives good germicidul effect which result in better life & good feature

TECHNICAL SPECIFICATION

Quantity Offered	:	One No.
Type	:	Down Flow
Operating Flow rate:	:	0.25 M3
Operating Pressure:	:	2.0 Kg/cm2.
M.O.C. of Shell	:	S.S.R.L.

VALUE ADDED TECHNOLOGY

GAC TECHNOLOGY



PROCESS

GAC Filtration is important water of purification system of mineral water. While doing reverse osmosis the Total Dissolved Solid are reduced but the ratio of **Ca** to **TDS**, **Cl** to **Na**, **TH** to **Alk** etc., are not changed. Hence the taste traces remain same as Raw water.

FUNCTION

The Zeta potential granule anthracite combination will make above ratio changed in its limit. Hence, polishing of product water and improvement of good taste while processing through GAC. The Zeta potential granule anthracite combination will make above ratio changed in its limit. Hence, polishing of product water and improvement of good taste while processing through GAC.

TECHNICAL SPECIFICATION

Quantity Offered	:	One No.
Type	:	Down Flow
Operating Flow rate:	:	0.25 M3
Operating Pressure:	:	2.0 Kg/cm ² .
M.O.C. of Shell	:	S.S.R.L.

VALUE ADDED TECHNOLOGY

SPRING TECHNOLOGY



PROCESS

In nature, when the water fall from Mountain, it passes through various stone, metals, etc with velocity & impact thrust. During the time Air the resist it with its own velocity from bottom to top. Heavy friction results in remaining of gaseous impurity from water. Degas faction & enrichment of Oxygen (O₂). Hence Sweetness becomes is part of Spring Water

FUNCTION

The same natural technology is accepted by us, Here we provide one SS vessels, where, we inlet the water from Top of the systems and Enter the Air thorough Compressor from Bottom side. The aeration process between water and Air in center chamber passes various vendors & metals. The cavity gums water a fine filtration touch & also it is designed in such a friction that the water gets maximum time with air for artificial aeration. When the (Aeration) process are working, the Gaseous Impurities are separated and removed from Top of the Vessels though head Nozzle. The water after Aeration process becomes a Sweeter, free from Physical, Chemical, Biological and most importantly that Gaseous Impurities.

TECHNICAL SPECIFICATION

Quantity Offered	:	One No.
Type	:	Down Flow
Operating Flow rate:	:	0.25 M3
Operating Pressure:	:	2.0 Kg/cm ² .
M.O.C. of Shell	:	S.S.R.L.

VALUE ADDED TECHNOLOGY

EMF TECHNOLOGY



PROCESS

Indian Ion Exchange introduces EMF a latest state of art water treatment technology based on Electro Negativity and Electro Motive Force. It's a online treatment system non-chemical, without power & Resins.

FUNCTION

Indian Ion Exchange introduces EMF a latest EMF system is processed of sixteen Precious and semi Precious metal with thousands of ventures and thousands of Cathode and Anodes.

TECHNICAL SPECIFICATION

Quantity Offered	:	One No.
Type	:	Down Flow
Operating Flow rate:	:	1.25 M3
Operating Pressure:	:	2.5 Kg/cm2.
M.O.C. of Shell	:	S.S.R.L.

TECHNICAL SPECIFICATIONS

8 ULTRA VIOLATE SYSTEM (U.V.)



PROCESS

Disinfection with help of
Ultraviolet Rays.

RESULT

Biological Impurities
Removal : 99.999%

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Type	: Up flow
Operating Flow rate	: 0.25 M3/HR
Operating Pressure	: 2.0 Kg./cm ²
M.O.C. of Housing	: S.S.
Make of U.V. Tube	: Sankyo – Japan

A-2 / A-3 OZONE SYSTEM WITH TANK



PROCESS

Three Atoms of Oxygen from
air are taken and the same is
converted in Ozone

RESULT

The Ozone has more Dilution
Power compare to Oxygen Which makes
Water Disinfected for Long Time.

TECHNICAL SPECIFICATIONS

Quantity offered	: One No.
Capacity	: 2 GPH
Flow Rate	: -
TANK	
Tank MOC	: -
Capacity	: 500 Ltr



PRICE - MINERAL WATER PROJECT - ISI			(PRICE IN LACS)
PRICE : MINERAL WATER PLANT COMPLETE WITH DESIGN, ENGINEERING & SUPPLY			
SYSTEM	SR.NO.	DESCRIPTION	250 LPH
WATER PURIFICATION SYSTEM			
SYS-1	1.1	Mineral Water Plant X cel	₹ 1.0
	1.2	MWP tank - 500 ltr	₹ 1.5
	1.3	Ozone System	₹ 2.0
	1.4	Ozone Tank - 1000 LTR	₹ 2.5
	1.5	SS Piping (OZONE TO FILLING SECTION) APX.	₹ 3.6
TOTAL PRICE FOR WATER TREATMENT SYSTEM(SYS-1)			₹ 10.6
QUALITY CONTROL LAB			
SYS-2	2.1	Micro & Chem Lab As Per Bureau Of Indian Standard Norms - Lab Equipment - Lab Chemicals - Lab Glass ware	₹ 1.0
TOTAL PRICE FOR QUALITY CONTROL LAB (SYS-2)			₹ 1.0
WASHING, FILLING & PACKING MACHINERIES			
SYS-3	3.1	Fully Auto Bottle Rinising,Filling,Sealing & Labeling Machine Capacity : 1450 Bottle/Hr. (24 BPM) Type : Rotary	₹ 9.5
	3.2	Jar Washing Machine Type: III STAGE	₹ 0.45
	3.3	Fully Auto Glass Filling Machine Capacity : 1500 Glass/Hr	₹ 4.5
	3.4	Chiler 250	₹ 1.2
	3.5	Batch Coding Machine Type : Manual	₹ 0.45
	3.6	Pouch Packing Machine Capacity : 3000 Pouch / Hr	₹ 1.45
TOTAL PRICE FOR PACKING M/C (SYS-3)			₹ 17.55
VALUE ADDED TECHNOLOGY			
SYS-4	4.1	Ozone Booster	₹ 0.98
	4.2	Silver Technology	₹ 0.75
	4.3	GAC Technology	₹ 0.19
	4.4	Spring Technology	₹ 0.45
	4.5	EMF Technology	₹ 0.76
TOTAL PRICE FOR VALUE ADDED TECHNOLOGY (SYS-4)			₹ 3.13
NB:VALUE ADDED TECH IS FOR BETTERMENT OF TASTE OF WATER YOU MAY SELECT ALL / EITHER AS PER YOUR REQUIREMENT FROM (SYS-4)			
TOTAL PRICE FOR ENTIRE MINERAL WATER PLANT (SYS 1+2+3+4)			



TERMS AND CONDITIONS

- **PRICES ARE EX. FACTORY NARODA, AHMEDABAD.**
 - **VAT EXTRA AT ACTUAL AT THE TIME OF DELIVERY.**
 - **FORWARDING, TRANSPORTATION, OCTROI & INSURANCE SHALL BE EXTRA AT ACTUAL AT THE TIME OF DELIVERY.**
 - **ERECTION & COMMISSIONING : EXTRA AT ACTUAL**
 - To & Fro, + Lodging & Boarding + Local Conveyance charges to buyer's account.
 - Necessary Tools, Tackles, Labour & Chemical should be provided by the client.
 - **PAYMENT TERMS :**
 - 40% Advance alongwith Techno-Commercial clear order &
 - 60% Balance against Performa Invoice before despatch.
 - **DELIVERY :**
 - Within 3-4 weeks after receipt of your order with advance.
 - **GUARANTEE / WARRANTY :**
 - We can offer you guarantee for 12 months from the date of supply of the plant.
- (NB : Guarantee clause is valid for Mfg. Defect/Workmanship Defect only,
Our liability is limited to repair or replace of the same.)
- **Offer Validity :30 Days**

For, INDIAN ION EXCHANGE
& CHEMICALS LTD.

Ravi Khakhariya
(Mkt. Co-ordinator)

DR. BHAVIN VYAS
(TECH.DIRECTOR)