#5-2-291/1,Opp: Mahaveer Complex, Hyderbasti R.PRoad - Sec'bad-03

Email: info@aquapot.in Website: www.aquapot.in

Phone: 99637 13648 | 8008363648



#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

#### **DESIGN BASIS**

#### SCHEME OF PLANT FOR RO - 4000 LPH- ISI PLANT

- → Filter Feed Pump(1w)
- → Sand media filter
- → Activated carbon filter
- →5 Micron Cartridge Filter
- → HPP RO Feed Pump (1w)
- → RO Antiscalant dosing
- → RO Block
- →pH Dosing
- →UV System
- → Post Micron Filter
- →SS 304 RO Product Tank (5000 Lit-1.0 No)
- → Ozone generator
- → RO Transfer Pump
- → RO Membrane Cleaning System

#### **PLANT CAPACITIES**

Filter Feed Pump - 10.0 m3/hr

Sand Media Filter - 10.0 m3/hr

Activated Carbon Filter - 10.0 m3/hr

RO Feed - 8.0 m3/hr

RO Permeate - 4.0 m3/hr

RO Reject - 4.0 m3/hr

RO Recovery - 50 %

SS RO Treated Water Tank - 5.0 m3





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#### ISI PLANT - 4000 LPH RO SYSTEM

DESCRIPTION	SPECIFICATION	MAKE	QTY
Raw Water Tank	BORE SUMP (EXISTING)		
2 Filter Feed Pump Type : Self priming		CRI/LUBI/EQUI	1.0 No
	MOC : CI & SS Impeller		
	Flow:10.0 m3/hr@3.5 Kg/cm2		
	Power rating: 3.0 hp		
Pressure Sand Filter	MOC: FRP	LAYER/ALFA/PENTAIR/	1.0 Set
Media	Dia-900 mm & HOS-1800mm	EQUI	
	Fine Sand (16-32 mm)		
	Gravel (6-4 mm),(6-2 mm)		
	Pebbles (20-12 mm), (40-25mm)		
Activated Carbon Filter	MOC: FRP	LAYER/ALFA/PENTAIR/	1.0 Set
	Dia-900 mm & HOS-1800mm	EQUI	
	Activated Carbon Media ASSUTE C		
	– Iodine Value900		
	Supporting Sand Media		
	Pebbles (20-12 mm)		
Side Mount Auto Valves	50 nb – Side Mount valve	Initiative/Equi	2.0 Nos
JUMBO Cartridge Filter	Size:20" long ,5 Micron,	Layer/Equi	4.0 nos
	MOC: PP Spun		
	Make: Layer		
	Raw Water Tank  Filter Feed Pump  Pressure Sand Filter  Media  Activated Carbon Filter  Side Mount Auto Valves	Raw Water Tank  BORE SUMP (EXISTING)  Filter Feed Pump  Type : Self priming  MOC : CI & SS Impeller  Flow :10.0 m3/hr @ 3.5 Kg/cm2  Power rating : 3.0 hp  Pressure Sand Filter  MoC: FRP  Media  Dia-900 mm & HOS-1800mm  Fine Sand (16-32 mm)  Gravel (6-4 mm),(6-2 mm)  Pebbles (20-12 mm), (40-25mm)  Activated Carbon Filter  MOC: FRP  Dia-900 mm & HOS-1800mm  Activated Carbon Media ASSURED  - Iodine Value900  Supporting Sand Media  Pebbles (20-12 mm)  Side Mount Auto Valves  JUMBO Cartridge Filter  Size:20" long ,5 Micron,  MOC: PP Spun	Raw Water Tank  BORE SUMP (EXISTING)   Filter Feed Pump  Type: Self priming MOC: CI & SS Impeller Flow: 10.0 m3/hr @ 3.5 Kg/cm2 Power rating: 3.0 hp  Pressure Sand Filter  MoC: FRP  Dia-900 mm & HOS-1800mm Fine Sand (16-32 mm) Gravel (6-4 mm), (6-2 mm) Pebbles (20-12 mm), (40-25mm)  Activated Carbon Filter  MOC: FRP Dia-900 mm & HOS-1800mm Activated Carbon Media - Iodine Value900 Supporting Sand Media Pebbles (20-12 mm)  Side Mount Auto Valves  50 nb - Side Mount valve  JUMBO Cartridge Filter  Size: 20" long, 5 Micron, MOC: PP Spun



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7	JUMBO Cartridge Filter	20" JUMBO HSG	20" JUMBO HSG	4.0 No
	Housing			
8	RO Skid	MOC: SS 304	Customised	1.0 No
		SIZE: 40 mm, LONG		
9	Flow Meter	Type : Variable Flow meter	Flow - 4000 Lph	1.0 Lot
		MOC : PP		
10	Pressure Guage	Dial Size: 4" & 2.5"	SUITABLE	4.0 Nos
		S.S-304		(2 each)
11	Antiscalant Dosing System	Dosing Pump : 6-10 lph (Online)	Dozer/Equi	1.0 Set
		MOC: PP		
		Type: Digital Diaphragm Metering		
		Dosing Tank : 500 litres		
		MOC: PP/HDPE		
		Antiscalant Dosing Chemical As per ISI STD		
12	High Pressure Pump	Type: Multi stage Vertical High Pressure Pump	CRI/Lubi/Equi	1.0 No
		MOC: SS 304		
		Size: 10.0 m3/hr @10-12 kg/cm2,3 ph pump		
13	RO Membrane Housing	MOC: FRP	UKL/ALFA/Equi	2.0 Nos
		Size: Dia 8" &Length: 80"		
		Model: 8080		
14	RO Membrane Element	Size: 8" Dia , Length- 40"	Brackish/Layer/Equi	4.0 Nos
		MOC: Thin Film Composite polyamide		



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		Type: Spiral Wound		
15	RO Control Panel & Auto	MOC: SS 304,	Initiative/Equi	1.0 Set
	Valves	Floor Mounted Auto with all Acessories		
16	pH Dosing System	Dosing Pump : 6-10 lph (Online)	Dozer/Equi	1.0 Set
		MOC: PP		
		Type: Digital Diaphragm Metering		
		Dosing Tank : 500 litres		
		MOC: PP/HDPE		
		pH Dosing Chemical As per ISI STD		
17	RO CIP Cleaning System	CIP Pump -1.0 m3/hr @2.5 kg/cm2,	LAYER/EQUI	1.0 Set
		CIP Tank -1.0 No- 500 Litres HDPE with		
		suitable piping & Accessories		
18	RO Product Tank	Size: 5000 Litres	LAYER/Equi	1.0 No
		MOC: SS, Thickness- 0.4 mm		
19	RO Product Transfer Pump	Type: Centrifugal Monoblock	CRI/EQUI	1.0 No
		MOC: SS 304		
		Flow: 4.0 m3/hr @ 2.0 Kg/cm2		
20	Ultraviolet System	MOC: SS 304	ALFA/SUKRUT/EQUI	1.0 No
		Flow: 4.0 m3/hr		
21	Post Micron Filter	MOC : SS 304 , 2 & 1 Micron	Inhouse /Customised	1.0 No
22	Ozone generator	Flow: 5 gm/hr	Suitable	1.0 No
		MOC : SS 304		



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23	PU Fittings	Blue Tube with PUSH fittings set	SS 304	1.0 Lot
24	Floaty	3 mtr Long, raw water floaty & overhead tank	LCM/Equi	2.0 Nos
		floaty		
25	Solenoid Valve	1"- Brass for Raw water &	SUITABLE	2.0 Nos
		1" - Brass for flushing		
26	Piping & Fittings from Raw	MOC: SS 304,	SUITABLE	1.0 Lot
	Water Pump to SS RO Tank	High Pressure SS Piping		
		(All Accessories)		
27	Bore Automation System	As Per Conditions Apply	Suitable	1.0 Set
28	Sump Automation System	As Per Conditions Apply	Suitable	1.0 Set
Α.	4000 LPH Automatic Revo	 erse Osmosis Plant - AS Per ISI Plant From	Raw Water Pump to	1.0 Unit
	Filling Area inlet, Comple	ete Set		

**Purity Assured** 



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#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

# **B. SEMI - AUTOMATIC BLOWING MACHINE**

S.No.	Name of the Equipment	Qty
	Semi Automatic 200ml to 2000ml 2cavity with 1blower 1 infra-red heating convey or with auto dropping.	
	Model No. SJE-01	1No.
	Specifications:	
1	Max product capacity: from 200ml to 2000ml Max product diameter: 25-30 mm dia Max product height: 360mm	
	Operating Pressure: 8 kg	
	Blowing Pressure: 25 kg Clamping force: 6 tonne	
	Operating Strokes: 200 mm  Mould Platen Size:450X340X35	
	Distance Between Tia Bar:320mm	
	Min Mould thickness:140mm	
	Heating Zone:6nos Heaters of 626mm long Heating Power: 12 Kw Max	
	Production Capacity: upto 1 ltr 1200 Bottles per	
	hour,2cavity. Purity Assured	
	Accessories to be provided from customer side: 1) 20 hp high pressure compressor of 30kgs wp 20-25kg47cfm 2) Chiller of 2tonne with S.S water tank 3) Air dier of 47-54cfm complied to compressor Air pressure	
	4) Recommended spares for maintaining machine Moulds rate as per cavities, shapes and size.	



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#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

# C. Automatic Rinsing, Filling & Capping Machine: Output 40 BPM for 1000 ml.

Sr. No.	NAME OF THE MACHINE	QTY
	Automatic pet bottle rinsing, Filling & capping machine to fill from 200ml, till 2000ml with neck holding system. Machine includes cap feeding unit with no	01 Nos
1.	change over parts. Capacity:-40 BPM (1000 ml)	
2.	SS In feed Air Convey or 4Feet with 0.5HP Blower	01 Nos
3.	SS Out feed Discharge 12 feet Convey or with slate belt	01 Nos
4.	Inspection Counter with label Shrink Tunnel	01 Nos
5.	S.S Body Cover With Acrylic Doors & Fittings	01 Nos

#### **Utilities required:**

- 1) Power 440 V AC -3 phases.
- 2) Compressed Air 3- 4 CFM at 6kg/cm2 (compressor 3 H.P).
- 3) SS. Rinsing Pump 0.5H.P. with by pass arrangement and suitable buffer

# Machine Specification Purity Assured

# **Automatic Rotary Bottle Rinsing, Filling And Capping Machine**

#### **RINSERSECTION**

- Rinser top plate made of SS304
- Bottle Gripper mounted with UHMWPE bracket
- Bottle grippers are made of SS304 with machining for CNC machine.
- Rinser jet valve body is made of SS304.
- The Opening of the rinsing nozzle is the bottle place over the rinsing jet and turned at 180 degree by a mechanical cam
- Bottle rinsing with liquid recovery for Re-Use.
- No Bottle no Rinsing arrangement



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#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

#### **FILLING SECTION**

- Gravity filling mechanism suitable for room temperature.
- Tank is made of SS 316 with internal polished mirror Finish.
- The Filling nozzle is SS 316 & SS 304.
- No Bottle No Fill arrangement
- The Filling Nozzle seals are made of Food PLANT Silicon rubber.
- The Bottle gripper is made of SS 304.
- Lift Cylinder are made of LM6 Aluminum with PB Material.
- No Change over parts to fill the bottle from 100ml to 2000ml.
- Fast and accurate filling valves.
- The Level of Filling tank is Controlled by Solenoid Valves

#### **CAPPING SECTION**

- Capping section suitable for application of screw on caps
- Hopper for mechanical cap feeder passes the caps into distributors chute.
- Sensors are provided which detect the caps in the chute.
- Individual Cap washing arrangement is fitted on chute.
- No Bottle No Cap system is provided.
- Accurate torque setting for capping head

MODELRFC	Machine Dimension	OUTPUTBPM	ELECTRICLOADHP
10X10X5	1740 X 1740 X 2135	40	2.5

- Imported Gear Box (Italy)Bon figlioli.
- Variable Speed Through Frequency Drive(VFD)
- Clutch and Break System provided to prevent Damages to the Machine.
- Detachable Control Panel.
- Easy Maintenance & Servicing Space in Machine.



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#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT



# D. Semi-Automatic Shrink-Wrapping machine

SL.NO. 1.	ITEM/DESCRIPTION SHRINK PACKING M		MAKE STANDARD	QUANTITY 1
	Film	PVC		
	Packaging Material	MBP		
	Automation PLANT	Manual/ Assured		
	Material	Mild Steel		
	Voltage	240V		
	Phase	Single Phase		
	Power	6kW		
	Size/Dimension	48x20x50Inches		
	Brand	MBP		
	Frequency	50- 60Hz		
	Weight	90Kg		
	Capacity	15pieces/minute		
	Temperature	225DegreeC		



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## 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

# **E.** Inkjet Printer for coding on to your laminate:

Basic Machine Machine Quantity:1		
Item Number Description		
1	Video jet Batch Coding Machine,(Type-Continuous inkjet)Model-W 620,2 line printing	

Description	Qty
PHOTO ELECTRIC SENSOR	1Units
W630Machine Stand &Print Head Stand	1EA 1Units
3 Waydin plug	1Units
3pintop plug	1Units
Sensor Bracket for Calypso	

Supplies		
	Description	Qty
	Ink,Black,750mL	1EA
	Make-up,750mL Purity Assured	1EA 1EA
	CleaningSolution,1liter	ILA



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#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

## **F. Lab & ISI:**

We are also pleased and happy to introduce ourselves as leading dealers of Lab equipments, Chemicals & Glassware required for procuring **ISI License**. We have been in this field since Seven years. We have **1000 PLUS Valuable and satisfied Packaged Drinking Water Customers** in Andhra Pradesh, Karnataka, Maharashtra, Odisha, Rajasthan and Other States; let us have your enquiries to enable us to render our services effectively to your organization.

#### **ANNEXURE-I**

Sr.N	ol	DESCRIPTION
	4	Lab equipment, chemicals, microbiological media & glassware
	1.	*GST & Transportation are charged extra as on Invoice date.
		Insurance: Customer Scope
	2.	ISI Application Fee : (online payment)to Bureau of Indian Standards.

## **ANNEXURE-II**

	Sample Testing:(online payment)(i)Water Testing,
3.	(ii) Radio Active Residues Testing & ASSURED
	(iii) 20Litre Pet Jar Testing at OSL (BIS approved laboratory)
4.	ISI Licence Fee:(online payment)
	ISI marking licence fee to Bureau of Indian Standards.

### **ANNEXURE-III**

5.	Application Processing Charges
	Installation &Training Charges
6.	Chemist & Microbiologist (Chemical and Microbiological) training for 2 days.
	Training on record maintenance for laboratories, plant and all hygienic practices.

\*Note: Sample passing at your own risk.



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#### 4000 LPH ISI GRADE RO SYSTEM FOR 40 BPM COMMERCIAL BOTTLING PLANT

# **CHEMICAL LAB**



MICROBIOLOGICAL LAB



For, AQUAPOT RO TECHNOLOGIES

**B.M Balakrishna 8008 363648** 

