



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

HEAD OFFICE :  
Plot No. : 27, Survey No. 47, Jivraj Industrial Area,  
Nr. Falcon Pump, Vavdi, Gondal Road, Rajkot - 360004.  
Tel : [+91 281 - 2922777](tel:+912812922777)  
Telefax : [+91 281 - 2922481](tel:+912812922481)  
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) / [info@rajwater.com](mailto:info@rajwater.com)

Date :- 7st September 2018

Saturday

Quotation No :- RW/2018-19/Q\_4341/R\_2  
Concern Person :- Mr. Sanket  
Concern Number :- 9939003746 / 9798244756 / 7301128452  
Email Id :- sanketamitypatna@gmail.com / akaks9@gmail.com  
Company Name :-  
Address :-

## **Quotation For Packaged Drinking Water Project**

Dear Sir ,

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

### ❖ **Contents of the Quotation**

- Commercial Proposal
- Terms & Condition
- Technical Specification for each product

### ❖ **Machinery Offer**

- Packaged Drinking Water 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.

**DESHANI KHUSHBU**

**Designation : Marketing Asst. Manager**

**Mobile : 7405050444**

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.

## Price – Mineral Water Project –ISI

System	Sr No	Equipment Name	5000 LPH
<b>Water Purification system</b>			
Sys-1	1.1	Mineral Water Plant	1100000
	1.2	MWP Tank -2000liter	50000
	1.3	Ozonation System	75000
	1.4	Ozone Tank -2000 Ltr	50000
	1.5	SS Piping (Plant To Filling Machine)	100000
<b>Total Price Of Mineral Water Treatment System</b>			<b>1375000</b>
<b>Quality Control Lab</b>			
Sys-2	2.1	Complete Lab BIS Approve (14543-Standard) Testing Instrument, Glassware , Chemical As Per List	300000
<b>Total Price Of Quality Control Lab</b>			<b>300000</b>
Sys-3	3.1	Automatic Inject Batch Coding Machine	200000
	3.2	Fully Auto Bottle Rinsing, Filling, Capping Machine 3600BPH With Input and Output Conveyor Belt Automatic Cap elevator	1400000
	3.3	Automatic PET Stretch Blowing Machine 3 Cavity- Capacity 1800 BPH Production (200 ML To 2 Liter) With Automatic Preform Loader , Auto Bottle Lifter	2050000
<b>Total Price For Packing Machine</b>			<b>3650000</b>
<b>Value Added Technology</b>			
Sys-4	4.1	Silver Technology	100000
	4.2	Ozone Booster	75000
	4.3	Added Mineral Technology	50000
<b>Total Price For Value added Technology</b>			<b>225000</b>
<b>Total Price For Entire Mineral Water Plant (Sys 1+2+3+4)</b>			<b>5550000</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, Raw Water Pump, High Pressure Pump, Treated Water Transfer Pump.
- Due To Fluctuation In Power Supply, Attempted Repaired By Person Other Than Our Technical Representative, Improper Handling Or Negligence By End Users, Poor Maintenance, Improper Use Of Equipment, That All Type Of Damage Not Covered In Warranty Create Area.
- During The Warranty Period, We Shall Provide Supervisory Services Of Our Technical Representative As And When Required.

## **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.

# **RO Plant SS 316 5000 Liter Per Hours With 2000 Liter Storage tank 2 Nos .U.V System .Ozonation System**

**Price :-775000/-**

## **Technical Specification**

### **1. Raw Water Feeding Pump**

Type :	Centrifugal
Max. Flow :	12.00 m3/HR
Working Flow :	10.00 m3/HR
Working Pressure :	2 Kg. / Cm 2
M.O.C. :	C.I.
Power :	1.5 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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### **2. Pressure Sand Filter (SS)**

Type :	Down Flow Graded Sand Type
Model :	2068/RW/MFG
M.O.C. :	SS 316
Size Dia X Height :	500 mm Dia X 1700 mm
Pipe Line Size :	40 mm.
Sand Qty. :	330 Kgs.
Valves :	SS Valve
Max. Flow :	12.00m3/HR
Working Flow :	10.00 m3/HR



### **Application :-**

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

### **3. Activated Carbon Filter (SS)**

Type :	Down Flow Graded Sand Type
Model :	2068/RW/MFG
M.O.C. :	SS 316
Size Dia X Height :	500 mm X 1700 mm
Pipe Line Size :	40 mm
Carbon Qty. :	135Kgs.
Valves :	SS Valve
Max. Flow :	12.00 m3/HR
Working Flow :	10.00 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.

### **4. Antiscalant Dosing Pump**

Type :	Ele. Diaphragm Type
Capacity :	0 to 6 LPH
M.O.C. :	PP
Dosing Chemical :	Antiscalent
Dosing Rate :	3 to 4 LPH
Make :	E Dose/ I Dose
Nos :	1 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.

### **5. Antiscaling Dosing Tank**

Type :	Conical Bottom
Capacity :	100 Ltr.
M.O.C. :	HDPE
Manufacturer :	Reputed
Nos :	1 Nos



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### **6. Micron Cartridge Filter**

Model :	MCF 20/RW/SS
Size :	20" Long
Micron Rating :	5 Micron
Type of Candle :	P. P. Spun / Wound
Material of Housing :	SS 316
Nos. of Candles :	2 Nos. (Jumbo)
Max. Flow :	12.00m <sup>3</sup> /HR
Working Flow :	10.00 m <sup>3</sup> /HR



### **Application :-**

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



## 7. 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 :	12.00 m3/HR
Working Flow :	10.00 m3/HR
Motor :	7.5 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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## 8. RO Membrane

Model :	8040 Element
Type :	TFC Spiral Wound
Material :	Polymide
Size :	8" Dia X 40" Long
Manufacturer :	Toray / Hydranautics / Dow / EQI
Nos. Offered :	5 Nos.

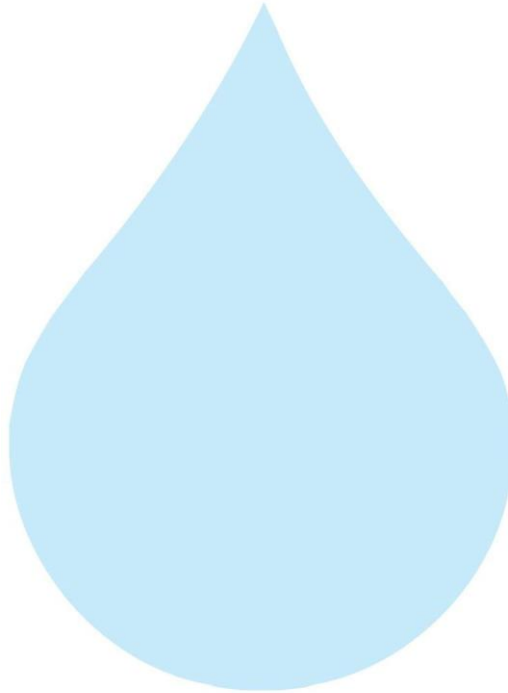


### **Application :-**

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.

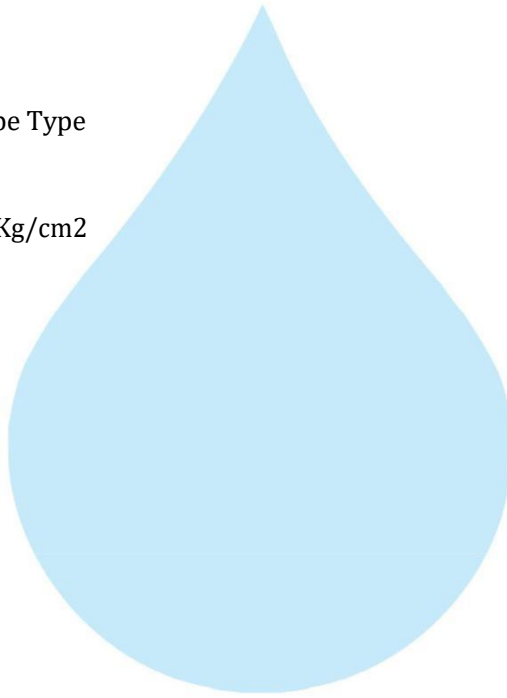
### **9. SS Pressure Vessels**

M.O.C. :	SS 316
Type :	Horizontal Tube Type
Size :	8" X 80"
Max. Pressure :	400 PSI
Working Pressure :	150 PSI
Nos. Offered :	2 Nos.



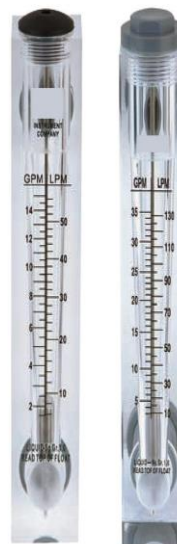
## 10. Pressure Gauges

Pressure Gauges : 7 Nos.  
Type : Burdane Tube Type  
Manufacturer : Raj  
Range : 0 - 28 , 0 - 7 Kg/cm<sup>2</sup>



## 11. Rota Meters

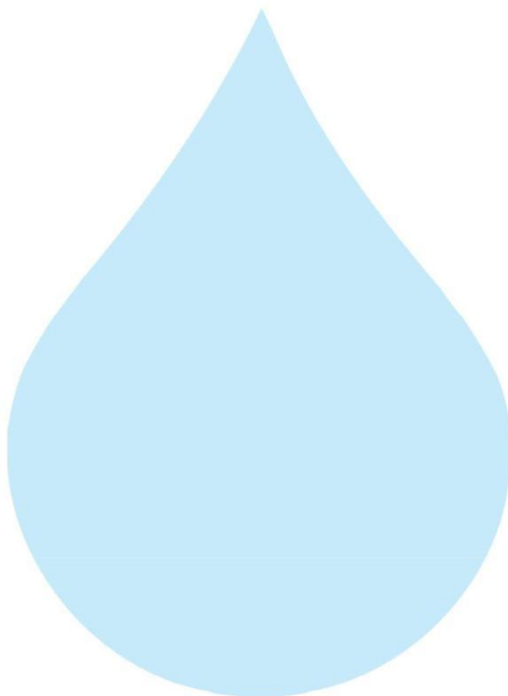
Rota Meters : 2 Nos.  
Type : Float  
M.O.C. : Acrylic Body  
Reject Water Range : SS Float (0 - 10000 Lph.)  
Treated Water Range : SS Float (0 - 6000 Lph.)  
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## 12. Control Panel - PLC Base

Manufacturer : Astral



### 13. Pressure Switch

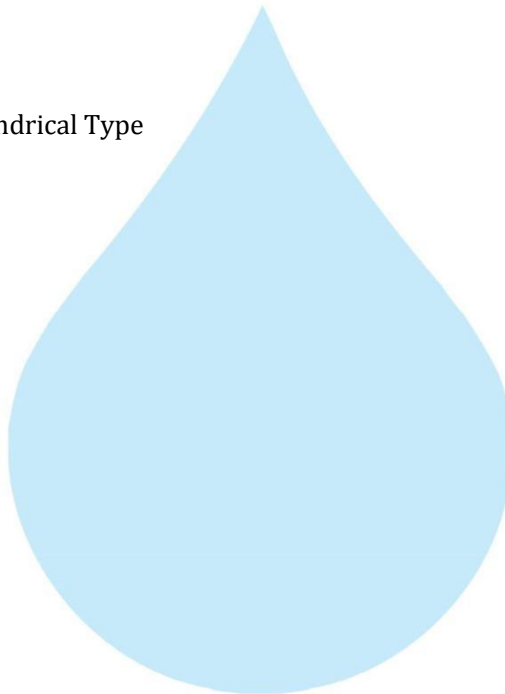
Pressure Switch : 2 Nos.  
Type : Low / High Pr.  
Manufacturer : Denfoss  
Model : IPS 70 / 400



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### 14. Treated Water Storage Tank

Nos. Offered : 1 Nos.  
Type : Vertical Cylindrical Type  
M.O.C. : SS 304  
Capacity : 2000 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.

## 15. Treated Water Transfer Pump

Type :	Monoblock
Manufacturer :	PNC
M.O.C. :	SS
Capacity :	0.5 HP



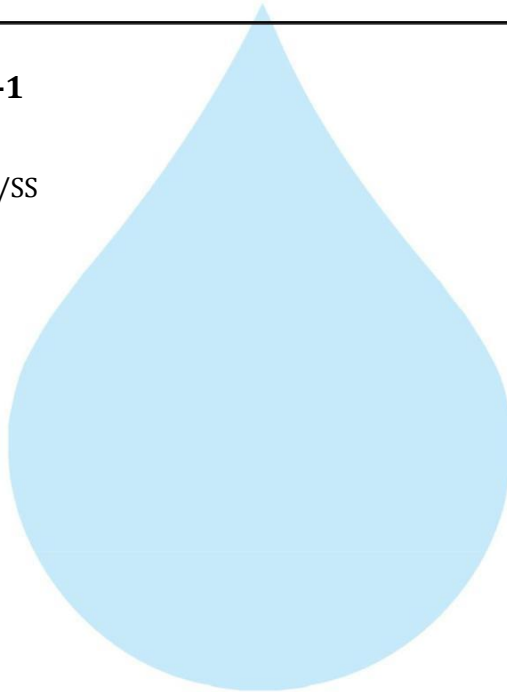
### Application :-

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

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## 16. Post Micron Cartridge Filter-1

Model :	MCF 20/RW/SS
Size :	20" Long
Micron Rating :	2.0 Micron
Type of Candle :	P. P Spun
Material of Housing :	SS 316
Nos. of Candles :	1 Nos
Working Flow :	5.00 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.

## 17. Post Micron Cartridge Filter-2

Model :	MCF 20/RW/SS
Size :	20" Long
Micron Rating :	1.0 Micron
Type of Candle :	P. P. Spun
Material of Housing :	SS 316
Nos. of Candles :	1 Nos
Working Flow :	5.00 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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## 18. U. V. Disinfection System

Type :	Fluorescent Tube
Working Flow :	5000 Lph
Working Pressure :	1 Kg. / Cm 2
Material :	SS 316
Manufacturer :	Raj
Nos. Offered :	1 Nos.



### **Application :-**

For removal of micro biological organisms up to 99.9%.

## 19. Ozone Generator

Nos. Offered :	1 Nos.
Type :	Natural Air Type
Flow Rate :	5000 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.

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## 20. Ozone Circulation Pump

Type :	Monoblock
Manufacturer :	PNC
M.O.C. :	SS
Capacity :	0.5 HP





## 21. Ozone Circulation Tank

Nos. Offered :	1 Nos.
Type :	Vertical Cylindrical Type
M.O.C. :	SS 304
Capacity :	2000 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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## 22. Stand For Unit

Stainless Steel :	S.S 316
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### Application :-

Complete stand for unit will be made of S.S.316

### 23. SS Interconnecting Pipe Lines

Stainless Steel :            S.S 316



#### **Application :-**

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

**Complete Lab BIS Approve (14543-Standard) Testing Instrument,  
Glassware , Chemical As Per List**

**Price :-300000**

**ANNEXURE 1  
LIST OF EQUIPMENTS**

Sr. No.	Test equipment's/Chemicals And Identification numbers (Where Applicable)	Least Count and Range (Where Applicable)	Remarks (Indicate number of Equipment's)
1	<b>Autoclave</b> Vertical Complete with pressure gauge, Safety Valve, Stream Release Valve Size 30 X 30 cm Make :lab tech	Range : 0 to 4.0. kg/ cm <sup>2</sup> Or 0 to 30 PSI L.C- 0.05 kg/cm <sup>2</sup> Or 1 PSI	One
2	<b>Hot air oven</b> size 12" X 12" X 12" made of MS with Thermostat control Make :lab tech	Temp 0 to 250 ° C L.C: 2.0 ° C	One
3	<b>BOD Incubator 20 ° C</b> (with Digital Temp. Controller) Size 14X14X14 Make : lab tech	Temp 0 to 50 ° C L.C: 0.1 ° C	one
4	<b>BOD Incubator 25 ° C</b> (with Digital Temp. Controller) Size 12" Make : lab tech	Temp 0 to 50 ° C L.C: 0.1 ° C	one
5	<b>Incubator Digita temp 44°C</b> bacteriological size 14" X 14" X 14" inner chamber of SS outer of MS with thermostat (Thermostatically controlled With Thermometer) Make :lab tech		one
6	<b>Incubator Digita temp 37°C</b> bacteriological size 14" X 14" X 14" inner chamber of SS outer of MS with thermostat (Thermostatically controlled With Thermometer) Make : lab tech		one
7	<b>Gas Burner</b>	-	One
8	<b>Water bath (With glass Thermometer)</b> inner chamber of SS, outer of SS 6 holes of 3" with Digital control complete SS	Range: 0 to 110 ° C LC : 1.0 ° C	One

	Make : lab tech		
9	<b>Laminar air flow</b>	1.5 feet UV Tube	One
10	<b>Hot plate</b>	Range: 0 to 100 ° C	One
11	<b>pH meter digital</b> <b>Make :INSIF INDIA</b>	0-14 pH, LC- 0.01 pH	One
12	<b>spectrophotometer</b> Digital resolution 1 nm Make : INSIF INDIA	360 to 960 nm LC- 1 nm % t, 0.001 ABS, 0.001 Cons	One
13	<b>Turbidity counter digital</b> <b>Make : INSIF INDIA</b>	0 to 1000 NTU LC : 0.1 NTU	One
14	<b>Colony counter digital</b> <b>Make : chemi line</b>	Range :0 to 999 Count L.C- 1 Count	One
15	<b>S.S. Filter holder assembly</b>	47 mm	One
16	<b>Microscope Binocular</b>	10 X, 15X,	One
17	<b>Magnetic stirrer with hot plate</b>	Cap : 1 Litre Range : 0 to 100% L.C- 1 %	One
18	<b>Centrifuge</b>	4 X15 ml	One
19	<b>Single pan balance</b> <b>Make :IL.MAY</b>	<b>0 to 200 gm</b>	One
20	<b>High pressure vacuum pump :</b>	¼ HP motor 50 lit per minute	One
21	<b>Gas stripping apparatus</b> Borosilicate glass with fuming hood & Air flow pump	1 litre	One
	<b>Flow meter</b>	Range: 0 to 100 LPH L.C : 5 LPH	
22	<b>Heating mantles</b> <b>Make :---</b>	2 litre range: 0 to 100% L.C- 1 %	One
23	<b>Florescent Inspection Screen</b>	UV Light 9" long	One
24	<b>Carbon Column</b>	150 mm 250 ml	one
25	<b>Distillation Assembly</b>	2 Ltr / Hr	one

#### **ANNEXURE 2 LIST OF Chemical**

Sr no.	Chemicals and its grade (Where Applicable)	Pack
01	Activated charcol	100gm
02	Acetic acid	500ml
03	Aluminium oxide	100gm
04	Aluminium potassium sulphate Ar	100gm
05	Ammonium Acetate	100gm
06	Ammonium Carbonate	100gm
07	Ammonium Di chromate	100gm
08	Ammonium Ferrous sulphate	100gm
09	Ammonium metavanadate	5gm
10	Ammonium perpurata AR	5gm
11	Di Ammonium Hydrogen orthophosphate	100gm
12	Ammonium Thiocyanate	100gm

13	Ammonia solution	500ml
14	Antimony metal powder	25gm
15	Ascorbic acid	25gm
16	Barium chloride	100gm
17	Barium Hydroxide	100gm
18	Bromo cresol green	100ml
19	Boric Acid	100gm
20	Buffer tablet P.H.4.0	P.H.4.0
21	Buffer tablet P.H.7.0	P.H.7.0
22	Calcium Carbonate	100gm
23	Calcium Hydroxide	100gm
24	Chromotropic acid	5gm
25	Citric Acid	100gm
26	Cupric sulphate	100gm
27	Chloroform	500ml
28	Cobalt chloride	25gm
29	Copper metal powder	25gm
30	Cyclohexanone	500ml
31	EDTA Di Sodium salt	100gm
32	Di ethylene glycol monobutyl ether	500ml
33	Di (2 ethyl hexyl) sulphosuccinate	25gm
34	Dodecyl benzene sulphonic acid	100gm
35	Eriochrome Black T	25gm
36	Isopropyl alcohol R AR	500ml
37	Methylene glycol sulphate	100gm
38	Methanol	500ml
39	Methyl chloride	100gm
40	Methyl Green	100gm
41	Methyl Orange	100ml
42	Methyl Red	100gm
43	Glyceric acid LR	500ml
44	NED Dihydrochloride	100gm
45	Nitrophenol Acid	100ml
46	N,N-Diglutaryl P-Phenylene Di amine oxalate AR	250ml
47	Hydroxybenzoic hydrochloride	250ml
48	Diisopropyl ether	100ml
49	Hydrophenyl sulphate	150gm

64	Phenophteline	100ml
65	Potassium Hydrogen sulphate	100gm
66	Potassium chloride AR	100gm
67	Potassium Chromate	100gm
68	Potassium Dichromate	100gm
69	Potassium Iodide	25gm
70	Potassium ferricyanide	100gm
71	Potassium chloroplatinate	100ml
72	Potassium di hydrogen phosphate	100ml
73	Di potassium hydrogen phosphate	100gm
74	Potassium hydroxide	100gm
75	Potassium meta periodate	25gm
76	Potassium nitrate	100gm
77	Potassium permanganate	100gm
78	Silica gel blue	100gm
79	Silver nitrate	5 gm
80	Sodium Acetate	100gm
81	Sodium arsenite	5gm
82	Sodium ascorbate	25gm
83	Sodium bi carbonate	100gm
84	Sodium carbonate	100gm
85	Sodium chloride	100gm
86	Sodium citrate	100gm
87	Sodium hydroxide	100gm
88	Sodium hypochloride	500ml
89	Sodium nitrate	100gm
90	Sodium nitrite	100gm
91	Sodium oxalate	100gm
92	Sodium sulphate	100gm
93	Sodium sulphite	100gm
94	Sodium thiosulphate	100gm
95	Sulphur dioxide solution	100ml
96	Sulphuric acid AR	500ml
97	Sulphanilamide	25gm
98	Starch	100gm
99	Triethanolamine	500ml
100	Urea	100gm
101	Zinc acetate	100gm
102	Zinc sulphate	100gm
103	Zinc amalgamated	10gm
104	Zinc dust AR	25gm
105	Zincon AR	1gm

#### Microbiology Media

1.	Plate count agar	100gm
2.	Asparagine (DL) proline (L) broth	100gm
3.	Differential clostridium reinforce broth	100gm
4.	EMB agar	100gm
5.	chloramphenicol Subouroud Agar	100gm
6.	MacKonkey's agar	100 gm
7.	Lactose TTC agar with sodium heptadecylsulphat	100 gm

	(lactose, peptone, yeast extract, meat extract, bromothymol blue, agar: 2, 3, 5, triphenyltrazolium chloride (TTC), sodium heptadecylsulphate (tergitol-7))	
<b>8.</b>	Tryptophan broth (tryptic digest of casein, L-tryptophan, sodium chloride)	100gm
<b>9.</b>	Tryptone soy agar (TSA)-(tryptic digest of casein, soy peptone, NaCl, agar)	100 gm
<b>10.</b>	Tryptone bile agar (TBA)	100 gm
<b>11.</b>	Oxidase reagent (tetramethyl-p-phenylene diamine hydrochloride)	1 GM

**ANNEXURE 3**  
**GLASS WARE-1**

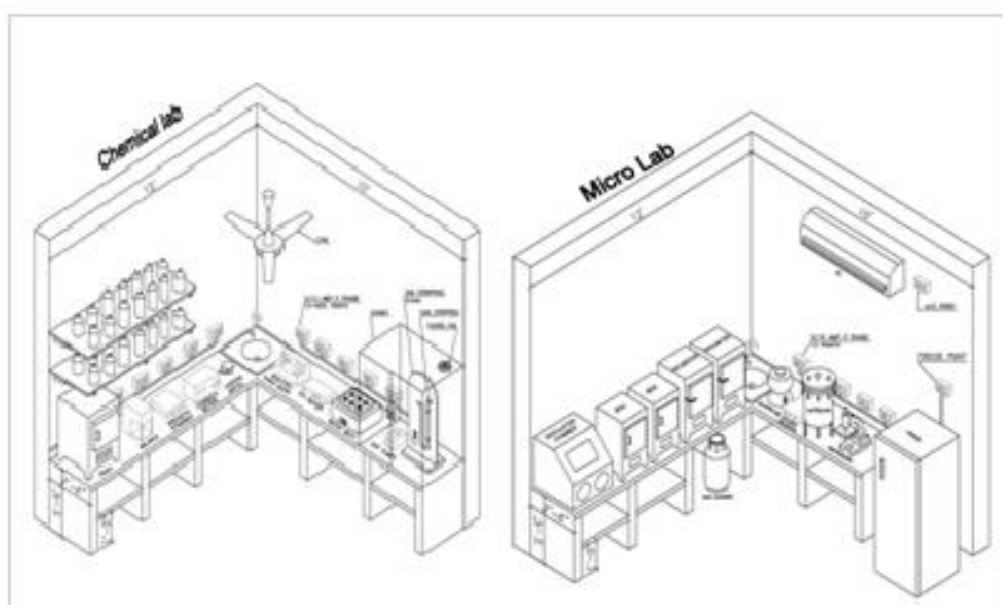
1. Nessler Cylinder (50 ml).....5 no.
2. Standard Volumetric Flask (10 ml).....4 no.  
(50 ml).....4 no.  
(100 ml).....4 no.  
(250 ml).....2 no.  
(500 ml).....2 no.  
(1000ml).....1 no.
3. Graduated Pipette (1 ml).....1 no.  
(2 ml).....1 no.  
(5 ml).....1 no.  
(10 ml).....1 no.  
(25 ml).....1 no.
4. Separating Funnel (125 ml).....1 no.  
(500 ml).....1 no.
5. Conical Flask (250 ml).....8 no.  
(500 ml).....2 no.
6. Beaker (Glass) (50 ml).....3 no.  
(100 ml).....3 no.  
(250 ml).....3 no.  
(500 ml).....3 no.
7. Petri Dish.....20 Pair
- (8) Screw Cap Bottle (30 ml).....4 no.  
(100 ml).....4no.  
(250 ml).....2no.
- (9) Iodine Flask (100 ml).....1 no.
- (10) Filtration Flask (1000 ml)..... 1 no.
- (11) Carbon Column 1 feet.....1 no.
- (12) Wide Mouth Bottle (1000 ml).....1 no

#### ANNEXURE 4

##### GLASS WARE-2

(1)	Beaker (Plastic)	(50 ml).....	2 no.
		(100 ml).....	2 no.
		(250 ml).....	2 no.
		(500 ml).....	2 no.
(2)	Wash Bottle	(250 ml).....	2 no.
(4)	Burette Stand.....		1 no.
(5)	Separating Funnel Stand	-----	1 no.
(6)	Funnel	-----	2 no.
(7)	Stand for Nessler Cylinder.....		1no.
(8)	Pipette Stand	-----	1 no.
(9)	Measuring Cylinder	(50 ml).....	1 no..
		(100 ml).....	2 no.
(10)	Spactula	(150 mm).....	1 no.
(11)	Reagent Bottle(Plastic)	(250 ml).....	24 no.
		(500 ml).....	12 no.
(12)	Glass Slide	-----	1 no.
(13)	burner	-----	2 no.
(14)	Inoculation loop	-----	1 no.
(15)	Pipette Bulb	small -----	1 no.
		Medium -----	1 no.
		Large -----	1 no.
(16)	Tissue Paper	-----	1 no.
(17)	Cotton	-----	1 no.
(18)	Dessicator	-----	1 no.





### **Additional Arrangements to be done By Client:**

1. Ac. in Microbiology Lab.
2. LPG gas Cylinder with Regulator and tuning for Micro Lab.
3. Washing Powder and Liquid soap in both labs.
4. Ventilation fan in Chem. lab.
5. Gas Stripping app chamber- 1.5 'depth, 2' width, 3 ' height
6. Electric plugs: 10 in Chem. lab and 11 in Microbial Lab.
7. Height of platform : 3feet, 2.5 to 2.8 feet out
8. Geezer, Mask, Hand Gloves & Apron of Workers
9. First Aid Box for 10 Persons Insect Killer for two sites.
10. 14543 ISI testing standard.
11. Refrigerator Videocon 100 ltr(1-nos.).

### **Extra Additional to be done By Client Amount Rs/-:**

- 123000/- -BIS License Fees Yearly.
- 12000/- -Row water taste report.
- 9440/- -BIS application Fees.
- 10000/- -BARC report.
- 50000/- -Sample testing fees(jar, bottle, cup).
- 12000/- -ISI standard 14543 book.
- 25000/- to 50000/- -BIS officer.
- 25000/- For BIS File Work



# **Automatic Inject Batch Coding Machine**

## **TECHNICAL DETAIL OF INK JET PRINTER**

**Price :- 200000/-**

### **☐ INTRODUCTION:-**

☐ These coders are ideal for On-Line High Speed Coding on packaging machines or bottles moving on conveyor or Winder / Rewinder systems.

☐ The message to be printed is very easily composed on its graphic display using the integrated

complete QWERTY keyboard. The message can be up-to 4 lines with a combination of small, medium or large characters from 1-mm to 18-mm in height along with LOGO.

☐ The Inking system consists of a simple disposable pre-mix ink cartridge using fast drying &

indelible solvent-based inks (for porous and nonporous Surfaces) which are just push fitted into

its slot & immediately you can start printing.

☐ The small print head is then placed aligned with the object or substrate & whenever the product

sensor gives a signal, the whole message is spray printed onto the substrate while it is in motion

without touching it. Coder Model IJP – P2128

### **☐ FEATURES:-**

☐ Graphic 128 X 64 backlit liquid crystal display & integrated QWERTY keyboard with Real time clock and calendar, expiry date, Bar Codes, LOGOs, serial nos. (Counter), with 9 levels of

Bolderisation, message reverse or invert print & storage of 45 messages of 4 lines each of 120 characters per line with facility for password lock.

☐ This printer is Fully Electronic without CORE System & doesn't have any air pump, viscosity

control unit, filters, etc. & so there is no maintenance required (No AMC). It does not require separate make up or wash solution as everything is included in the disposable ink cartridges

making it very user friendly for the Operator. The printing cost is only about 2 paise per impression (25char).

Supply Voltage : 1Ø 110 or 220 Vac  $\pm$  10%, 50/60 Hz, 50 VA

Operating Range : 0 to 45 deg. C, 10 – 90% RH non-condensing.

Printing Area : 4 lines of 120 char each from 1 to 18 mm high.

Printing Speed Max. : 25 Meters / min. for 1 to 4 line printing.

Prints using : XAAR (UK) Piezo-electric print head for spraying ink.

Print Distance : Max. 6 mm Down or in Front or at any angle.

Inking Medium : Disposable pre-mix ink cartridge

Printing Medium : Solvent based inks (black, blue\*, red\*, etc.)

Ink Drying Time : Min. 5 to 10 seconds on plastic, metal & laminates.

Impressions : Appx. 18 million d/m char. of 2mm per cartridge of ink.

Dimensions : 20X30X36 cm & 31X38X100 cm with stand.

Weight : 15 Kg for machine & 20 Kgs with stand

☐ This printer is fully Electronic without CORE system & does not have any air pump, viscosity control

unit, filters, etc. & so there is no maintenance required (No AMC). It does not require separate make up or wash solution as everything is included in the disposable ink cartridges

making it very user friendly for the Operator. The running / Printing cost is only about 2 Paise per impression (25 char).

#### **☑ Consumables for Subsequent Regular use:**

☑ Pre-mix Rapid+ Black ink packs of Disposable cartridges (Solvent / Oil based)

☑ Cleaning Spray Metal Can 330 mL (to be sprayed on print-head at start-up& shutdown)

Optional

Accessories / Consumables which could be required Initially or Subsequently:

☑ Solvent for cleaning of Print-Head (per 500 ml.)

☑ Storage Oil for storing of Print-Head for long time without use (per 200 ml.)

☑ Photocell Product Detector / Colour Eye Mark sensor / Digital repeat Timer (for distance print)

☑ Encoder for instantaneous Speed Feedback for variable speed machines & Winder / Rewinder

☑ Imported high speed Hot Air Blower Fan for instant drying of ink after printing

☑ Solenoid with Digital Timer for moving Print-Head front & back for Pipe Printing

☑ Complete New Print-Head with 1 meter cable

☑ Flexi code Software CD & RS-232 Cable for connecting to Computer 9 pin COM Port

☑ CVT Stabilizer (ELENT make) (Compulsory to prevent voltage fluctuations from causing damage)

#### **IJP-P2128 Ink Jet Printer Other Ink Jet Printers Available Advantage of our Ink-Jet Printer**

☑ *No Core / Reservoir to be changed..*

☑ *Fully Electronic. No mechanical parts.*

☑ *No Filters for Inked*

☑ *Zero maintenance cost.*

☑ *Push Fit pre-mix disposable Ink Cartridge.*

☑ *Simple Ethanol based Inks. Methanol (M.E.K.) based Inks.*

☑ *300 dpi High Resolution Printing. Printed perfectly.*

☑ *90 Million+ characters per litter of Ink.*



**60-BPM Automatic Rinsing, Filling & Capping Machine**  
**Specification**

**AUTOMATIC ROTARY 12-HEAD RINSING, 12-HEAD FILLING AND 6-HEAD CAPPING  
MACHINE 3 IN 1 UNIBLOCK FOR PET BOTTLES MODEL NO. SHECGF-60**

**Price :-1400000/-**

**PRODUCTION 60-BPM / 1000-ML**

**Technical Specifications:-**

?	Filling Head	: -	12					
?	Washing Head	: -	12					
?	Capping Head	: -	6					
?	Capacity	: -	60 BPM/ 1000 ml					
?	Suitable Cap Shape	: -	Plastic Screw Cap					
?	Bottle spec	: -	200ml – 2.0 Ltr.					
?	Motor. (for basic machine)	: -	2 HP					
?	Motor (for air blower)	: -	1HP					
?	Motor(for cap elevator)	: -	0.5 HP					
?	Motor(for conveyer)	: -	0.5HP					
?	Dimensions	: -	W	X	L	X	H	

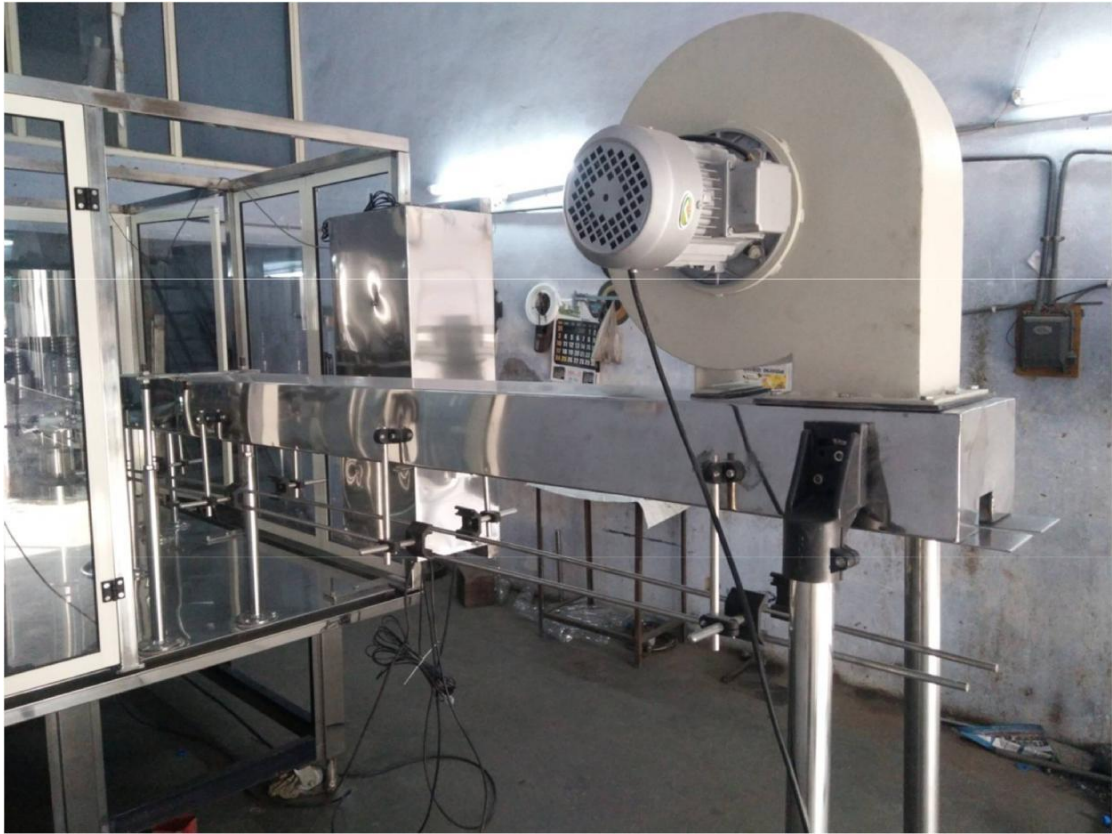
**Shrink Tunnel**

Silent Feature	
Easy to operate	
Virtually no Maintenance	
Low Power Consumption	
Electronic Digital Temperature Controller	
High Efficiency Heaters	
Suitable for PVC & LDPE Film	
Fixed / Variable Conveyor Speed	
Technical Specification	
Length of Passage	30-Inch
Width of Passage	06-Inch
Height of Passage	14-Inch
Temperature	70 c To 250 c
Material	PVC & LDPE
Power load (Heater)	06 Kw / 440 W

## ROTARY RINSING FILLING AND CAPPING



## AIR BLOWER CONVEYOR





## WASHING ASSEMBLY





## FILLING ASSEMBLY



## CAPPING ASSEMBLY



## SLAT CONVEYOUR WITH SHRINK TUNNEL



## **FULL TECHNICAL SPECIFICATIONS:-**

### **AUTOMATIC ROTARY RINSING, FILLING AND CAPPING MACHINE**

- 2) This is a Uniblock Machine where all the three sections are on the same Platform. The main platform structure will be of M. S. suitably clad Stainless Steel.
- 3) The machine is attached with an in feed Air Blow Tunnel, Which is also fitted with an Air Blower on top of the Tunnel.
- 4) This Tunnel helps the bottle to travel to the Rinsing In feed Neck guide plate with the help of Neck Guide and Air Pressure.

### **BOTTLE RINSER:-**

- 3) The bottles from the in feed Neck Guide Plate are gripped by two pair of fingers i. e Bottle Neck holder bracket assembly
- 4) The gripping fingers will hold the bottle by neck and necessary guide bars will invert the bottle upside down by 180 degree.
- 5) The duty inverted bottle will receive water from the rinsing nozzles on rear of the machine. The rinsing will operate from 90 to 270 degree rotation of the rinsing machine. Zero degree position is in front of the operator.
- 6) In 180-degree rotation the washing cycles will be stopped and bottles will be re-inverted and delivered to the Out feed Neck guide plate, which will transfer the bottle to the filler.

### **BOTTLE FILLER/CAPPER:-**

- 4) The Neck holder of the filler will hold the bottle along with the help of external guide.
- 5) Filling machine is also a neck holding. On Rotation When bottle gets sealed with filling valve, the filling valve opens and filling starts.
- 6) Filling tank will have liquid probe system to control level of mineral water in filling tank.
- 7) As soon as the bottle is fill and during rotation of the machines valve will be closed and bottle will be lowered and transferred on the Neck Guide Plate.
- 5) The bottle will enter the capping turret and by adjustable chucks, caps will be firmly tightened.

- 6) Duly capped bottles will be transferred on the conveyor.
- 7) Drive system will consist of motor, gearbox and gear trains to drive. The machine also has in A/C drive for controlling the speed of the machine.
- 8) In neck holding machine change part is required only in feed and out feed of the machine.
- 9) It also has a cap elevator for feeding the cap to the chute.
- 10) The machine contact part S.S. 304 will be enclosed with SS Frame Cabinet with Acrylic Sheet.
- 11) This machine is suitable for 28mm Perform having 26mm neck diameter below the collar.
- 12) The machine can fill bottle having maximum 100 mm diameter & 330mm height.
- 13) The machine can also be designed as per your specification.

### **SALIENT FEATURES**

- 6) Neck Holding on Transfers.
- 7) No Bottle No Fill.
- 8) Filling By Gravity Filling Valves.
- 9) Cap Elevator for cap feeding to chute.
- 10) Drive is on chain of gears (Not indexing Cam) hence low on Maintenance.
- 11) Speed Control on A. C Drive.
- 12) Drain trays for looping of spilled water
- 13) Electrical hardware standard make

PRODUCT: Mineral Water

Container: Bottles

Filling volume: 200ml to 2 lt.

### **MACHINE FEATURES:**

#### **Automatic operation**

Automatic Cap Loading & Capping.

Easy to clean and operate, simple and rigid structure.



All machine contact parts are S. S. 304 will be the material for the machine structure.

**Prerequisites:-**

Floor Space requirement:

Approximately clearance of 1mtr from all sides of the machine is required. Hence clearance of 1mtr should be added to the actual size of the machine

Operator requirement:

1 Skilled operator and 3 semi-skilled operators.

**ESSENTIAL:-**

The Bottles should be fully inspected before filling.( No damage bottle should be feed )

The caps and the bottles should be strictly as per the samples provided by you at the time of ordering of the machine Caps should be dry before loading is cap elevator.

The operator should be able to understand the working of the machine properly. Operator should not be changed till our technician/Engineer is there to install the machine.

We will be not take any responsibility in case you change the operator or he is not technically sound.

## **3KVT Automatic Pet Blow Molding Machine**

**Price :- 2050000/-**

Total Power :50 KW CONNECTED LOAD ( actual consumption 60 % appx )

Production :PET Bottle 28mm neck maximum 1000 ML, 1800 BPH APPX.

Size :L X W X H : 8.5 x 10 x 7.5 feet appx

Weight :1500 Kg appx

Operator :One person required to run machine

Pneumatic :SMC

Mould Locking :Hydro Pneumatic Cylinder

Blowing Valve :Dif ram Type

Mould :Three Cavity

duplex compressor of 40 HP.

This machine is entirely pneumatic

Mould will be locked through Hydro Pneumatic Cylinder

Entire machine pneumatic parts are of SMC only

The blowing High Pressure and Low Pressure valve are Lucifer Parker or similar difram type make so for longer production there will be no jam

The Lubrication system given inside machine for Ty-bars where gunmetal buses used

The microprocessor is simpler normally used in semi gives production cycle time also give us error report for which reason machine get stop.

Extra Filter given for HP and LP line to continuous supply of clean and dry air

PREFORM WILL BE FEED IN THE MACHINE manually IT WILL GO IN HEATING SECTION COMES OUT GOES IN BOWING SECTION AND BOTTLE EJECT FROM THE MACHINE AUTOMATICALLY ON the floor.

1 % rejection ratio ( depends on Preform quality )

Complete door get powder coated.

Different Port given for High Pressure Line , Low Pressure Line , Water Line.

Inside TWO Air Tank given for HP and LP for continuous supply of air

Anti-Vibration pad given

Heater can be adjusted physically

Preform will get rotate inside heating zone and its neck get protected through Special aluminium made chilling line pipe.