

REFRESH

REHYDRATE  
REPLENISH

Raj<sup>®</sup>

Water Technology (Guj.) Pvt. Ltd.

AN ISO 9001:2008 Certified Company



*Brand Promise: 100% quality with purity*

# About Us

## Core Purpose

“ To build success stories of people by providing unlimited opportunities through Innovative solutions. ”

## Core Values

- Hard work
- Customer delight
- Continuous Research & Improvement
- Social responsibility

## Our Vision

“ To implement great practices of Reliance and become 1000 Cr. Turnover Company by 2026.”

### » About Us

We have started our operations in the Year 2004. Known for manufacturing, supplying & exporting, products like all type of Water Treatment Project, Mineral Water project, Natural Mineral water Project, RTS Juice Turnkey Project, Synthetic Juice Project, and Carbonated Soft Drink Turnkey Project. For Water, Juice & CSD we offer different Rinsing, Filling, Capping packaging, & labeling solution. (Pet Bottle, Pouch, Pet Can, Tin Can, Glass, Pouch). We use advanced technology for manufacturing our products to make them competent in the market. Our products are manufactured under established standards in the industry, and are tested on various quality measures before their final dispatch.

Under the supervision of our mentor and managing director, Mr. Sanjay Patel, we have been able to cater to the huge clientele across the world. Backed and supported by us excellent management skills, we have been able to attain a commendable position in this domain. Indian Subcontinent, East Asia and South/West Europe are places, where we export our product range.

### » 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.

### » Services

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

# Pet Blow Moulding Machine

## Fully Auto



- Production Speed : 2400/ 3600/ 4400 12000 BPH
- Capacity : 100ml to 2000ml
- Neck dia : 28mm suitable for 35 Bar Air.
- Clamping System
- Infrared Conveyorised Preheating System Four Modules.
- Incremental Heater Settings by 1% to 99%
- No Preform No Blow
- Display interface via 320 x 240 graphic display process on line Control. (Mould Memory, Error Memory).
- Neck Holder : Ss304.
- Hyd. locking check valve for power saver.

## Semi Auto

- Production Speed : 1000 to 1200 BPH
- Production Capacity : 50ml to 2000ml
- Hydro - pneumatic locking system
- Heating unit & blowing unit
- Heating zone adjustable as per the size of preforms
- Integrated water loading system in blow m/c is also given for better result
- Weight : 1500 KG (including Heater)
- Dimensions : L-7ft x W-2.6ft x H-12ft
- Power consumption : As per Capacity



# Rinsing Filling & Capping Machine

Fully Auto



Rfc series machineries a fully automatic multi function combined machine integrating washing filling & capping into single body. This machine is equipped with advanced man machine interfacial control technology with all necessary automation. It works hanging neck holding method hence very convenient bottle change over.



- Capacity : 24/ 30/ 40/ 60/ 90/ 120/ 250/ 300 BPM and above
- Automatic rinsing, filling & capping operation
- Cap Hooper of 1000 caps capacity
- Power consumption : 6 to 7 HP and higher.
- Weight : 1500 Kgs (Approx.)
- Shrink Tunnel inbuilt
- Rotary neck holding
- Air blow conveyor on the in feed
- Slat belt conveyor on the out feed with the AC drive and inspection table with lighting system.
- Speed control by AC drive
- Can handle all bottle size ranging 500 ml to 2000 ml.
- Totally hygienic bottling
- Vibratory bowl for cap feeding automatic.

# Labelling Machine

## BOPP Labelling

- Output Speed : 60, 90, 120, 150, 200, 250, 300 & above BPM
- Bottle Diameter : As per requirement
- Bottle Height : As per requirement
- Size of Label : H 50-100mm, L 160-295mm
- Diameter of Label Roll (mm): As per label size
- Power Supply : As per Capacity
- Machine Dimension (feet) : As per requirement



## Sleeve Labelling



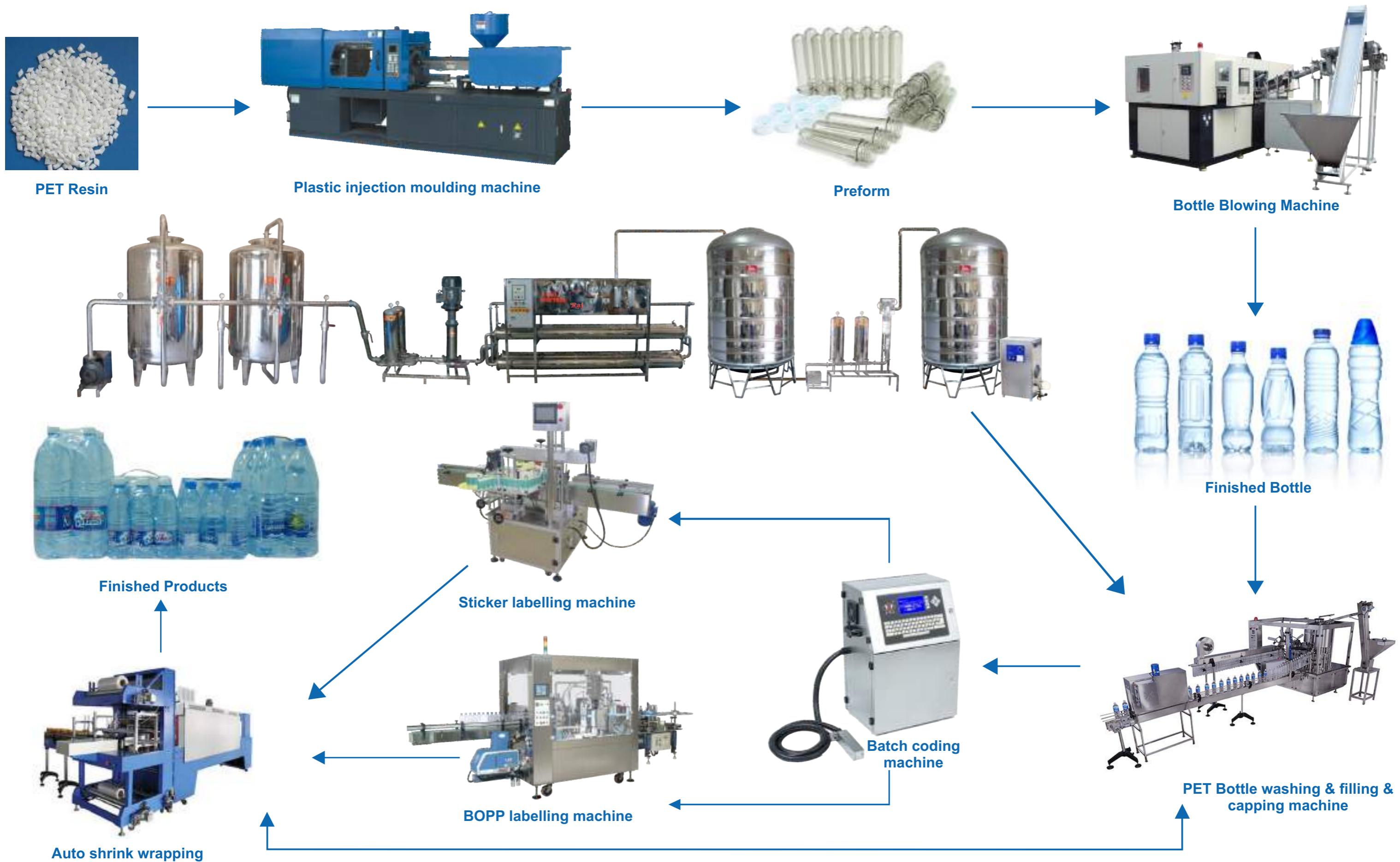
- Output : Upto 60 bpm/90BPM/120BPM...
- Sleeve LFW : Min-75mm, Max-120mm
- Sleeve Cut Length : Min-100mm, Max-165mm
- Sleeve Thickness : Not less than 40mic
- Interlock : No Bottle – No sleeve, Guard Open-Machine Off
- Sleeve Application Shift : Shifting Tolerance of +/-4mm with respect to alignment/paneling
- Contact Parts : SS 304/ Nylon / Aluminum
- Drive : Stepper Motor Drive (for Sleeve Feeder & Cutter)
- Controls : Programmable Logics, Make: Delta
- Power Consumption : As per Capacity
- Machine Dimension (feet) : As per requirement

## Sticker Labelling

- Label Height : 8 mm to 90 mm
- Standard Label : 12 mm to Unlimited
- Label Roll Dia : 300/400 mm
- Core Dia : 75/76 mm
- Power Consumption : As per Capacity
- Machine Dimension (feet) : As per requirement
- Speed : Up to 120 labels per minute
- Conveyor Height : 865-960 mm
- Overall : 825 x 715 x 1550 mm



# Water Bottle Production Line



# RO Specification

Water is passed through following different stages for process of filtration & separation in packaged drinking water plant process.

## **Chlorination & De-Chlorination.**

To Control Micro-Organism in raw & treated water, To remove algae from raw Water.

## **Pressure Sand filter.**

To remove suspended matter from the water. 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.

## **Activated Carbon filter**

To remove Color, Odor and Smell from the water. By means of using Activated Natural carbon.

By absorbing contaminated particles of Oil & Grease from the raw water.

To control the BOD & COD in the raw water.

## **Antiscalant Dosing.**

To prevent the desalting element from scale deposition.

## **Micron Filtration.**

To remove the micron particles from the raw water. By means of using disposable candles having Perfect micron size of porosity for filtration.

## **Osmotic pressure System ( H P Pump )**

To create the osmotic pressure in raw water. By using pump.

## **Desalination by R O Membrane Element.**

To desalt the raw water i.e. to reduce the total dissolve solids.

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.

## **Storage of R.O. treated water.**

To remove back pressure in R.O. Membrane elements. It is only storage of the treated Water.

## **Fine Polishing Filtration.**

To filter the water from 1 micron to 0.2 microns to achieve the crystal clear filtered mineral water.

## **UV system**

To kill the bacteria from fine water.

## **Ozone.**

Feeding of ozone gas for removal of bacteria from treated water. Ozone gas is not storable

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.

## **ISI LAB FOR LICENSE**

- Micro Biological & Chemical labs approved by BIS
- All testing chemicals & instruments are given
- Appropriate glassware are also provided
- Proper training is imparted
- Power consumption : 4 Hp



# Shrink Wrapping Machine

## Fully Auto



- Power Supply : 440v, 3 phase with neutral
- Max film width : 550 mm
- Max height of product : 375 mm
- Film type : LDPE
- Air Consumption : As per machine requirement
- Power consumption : As per Capacity
- Programming PLC HMI
- 4 pneumatic cylinder

## Semi Auto

- Power Supply : 440v, 3 phase with neutral
- Max film width : 550 mm
- Max height of product : 375 mm
- Film type : LDPE
- Air Consumption : As per machine requirement
- Power consumption : As per Capacity
- Dimensions : L-13.8ft x W-3ft x H-6ft
- 4 pneumatic cylinder



# JAR Filling & Batch Coding

## JAR Washing & Filling Machine

- PLC Base control system
- S.S. Frame Structure.
- Pressure pump wash ensure proper rinsing.
- Diving type filling nozzle ensure no spillage water.
- Timing base filling.
- Cap putting in channel manually.
- Cap pressing by pneumatic cylinder for proper pressing
- High pressure and low pressure solen

Various capacity Jar Machines are available

100 Jars /hr

200 Jars /hr

400 Jars /hr



## Batch Coding Machine



- Supply Voltage : 1Ø 110 or 220 Vac ± 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. 6mm 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 2 mm per cartridge of link.
- Dimensions : 20x30x36 cm & 31x38x100 cm with stand.
- Weight : 15 Kgs for machine & 20 Kgs with stand

# Pouch Packing & FRP Ro Plant

## Pouch Packing Machine

- Packing range : 50ml to 500ml.
- Film Width : 225/240/325 mm
- Film thickness up to : 100 microns
- Film material : co-extruded virgin films
- Power consumption : As per Capacity
- Power Requirement : Single phase, 220v, 50 Hz
- Machine Dimensions : 1700 (H) x 800 (W) x 1200 (D) MM
- Net weight : 300 kg (Approx)



## FRP RO Plant

- Self encapsulated hollow fiber ultrafiltration membrane module (inside - out)
- Operating mode : Dead-end or cross flow, Back Washable
- Module Mounting : vertical
- Nominal membrane pore size : 0.02 micron
- Membrane Material : hydrophilic PES
- Housing Material : UPVC
- End cap material : GRP
- Nozzles size : 2" Victaulic



# Water Treatment Plant

## DM Plant

DM Plant removes all cations and anions from water. DM Plant consists of acid/ alkali proof pressure vessel with internal firings and initial change of cation and anion exchanger. A set of regeneration equipment, hydraulic, ejectors, acid and alkali tanks, conductivity meter provides pure Total dissolved salts free water which is required at power projects, pharmaceutical sector, Battery water, Electronic industry, Textile / Process water Applications.



## Swimming Pool Filtration



The Series sand filters will provide clean and clear water for commercial users. They produce more filtered water with less pump horsepower. The fiberglass winding design enables the filter to be durable, deforming-proof and corrosion design. We will also provide complete swimming pool Trunkey project, with all required accessories for our esteemed customers.

## Iron & Hardness Removal System with RO



The presence of iron is probably the most common water problem faced by consumers and water treatment professionals. The maximum contaminant levels for iron and manganese in potable water are 0.3 milligrams per liter (mg/l) and 0.05 mg/l, respectively. Iron and manganese in excess of the suggested maximum contaminant levels usually results in discolored water and staining of fixtures and clothing.

# Water Treatment Plant

## Containerized WTP



- Pre-assembled in-house
- Factory Acceptance Tested (FAT) in-house
- Compact design
- Short lead times
- Quick start-up
- Plug-and-play
- Small footprint
- Easy environmental integration
- Separate dosing section to meet health & safety requirements
- Full MCC, PLC and HMI
- Forced ventilation
- Configured to client specifications

- Designed to treat water to client specifications including potable, softened, demineralized etc.
- Robust and complete design results in minimal on-site work.
- Complete in-house design with associated documentation
- Custom-designed to meet specific requirements
- Designed to meet water quality specifications for an applications
- Full parametric modeling using inventor software to reproduce exact site conditions and minimize integration and installation risk

## Mobile RO Plant

Mobile RO Plant is Trolley Mounted System and can be Installed anywhere with a water Inlet. This system consists of Raw water Pump which Takes Water From Water Tank And Give to Sand Filter And Carbon Filter, Pressure Sand Filter Removes Turbidity, Activated Carbon Filter Removes Smell & Color, Antiscalant Dosing Works For The Reverse Osmosis System So With The Help Of That the Membranes do Not Chock Up. System Include the Electrical and Instrument Control panel PLC Base. Mobile RO Is Trolley Based And Its Movable From One Place to Another



# Our Export Country



# Our Client



## FACTORY

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