



COMPLETE PROJECT SOLUTIONS





BACK GROUND

Company's expertise is in Water and Waste Water Treatment. Customized Treatment Solutions have been provided for clients in diverse fields including

- Pharmaceuticals
- Beverages eg. Mineral Water, CSD, Milk, Juices etc
- Chemical & Packaging
- Food Processing etc.

With the expertise of its management and personnel we also provide Complete Project Solutions for various clients in fields of

- BEVERAGES like Cola, Mineral Water, Juice, Milk etc.
- PLASTICS like Preforms, Caps, Drums, Jerry can etc.



A dynamic & dedicated team of sales, administration, design and accounts personnel help the company in its projects

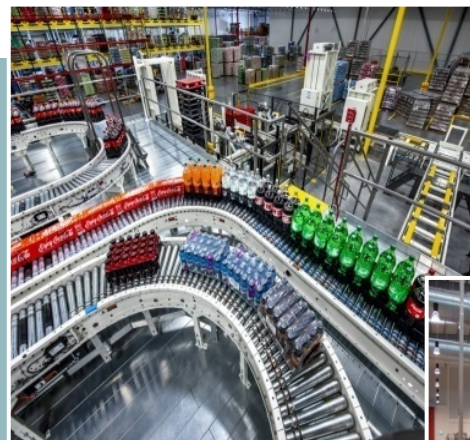
The project team consists of designing engineers, fabricators, site managers and erectors.



The company has manufacturing facilities with state of the art machines to provide production through GMP norms.

SERVICES: Projects for Water and Waste Water and for Turnkey Projects, we provide the following services, with a Single Point Responsibility

- Complete Project Design
- Optimal project size based on market scenario
- Optimal equipment sizing to avoid energy and material losses
- Option for various equipment suppliers required for project.
- Integration of various equipments from various manufactures and providing as a complete turnkey solutions project
- Layout of project
- Designing of important parameters
- Complete project Co-ordination in India and at site to ensure timely, effective and suitable project implementation to give desired product
- Installation and Commissioning of the project
- Complete Training of Personnel



ASSOCIATIONS MEMBER OF

- TISSA, FIEO, EEPC



WATER TREATMENT EQUIPMENTS

Water Treatment Plants for customized applications like Potable / Mineral Water, Desalination, Process Water for Industries, Purified Water Generation Systems (PWGS) for Pharma, Ultra-pure Water for Power Plant



PRETREATMENT EQUIPMENTS

Coarse filters for preliminary stages of treatment

- Multimedia Filters
- Activated Carbon Filters
- Micon Filters
- Bag Filters

ION EXCHANGE SYSTEMS

Resin induced ion exchange systems to reduce minerals and hardness in water.

- Softeners
- Demineraliser (DM)
- Mixed Bed (MB)



WATER TREATMENT EQUIPMENTS

MEMBRANE SYSTEMS

Different types of membrane systems to treat the water to desired levels of process requirements.

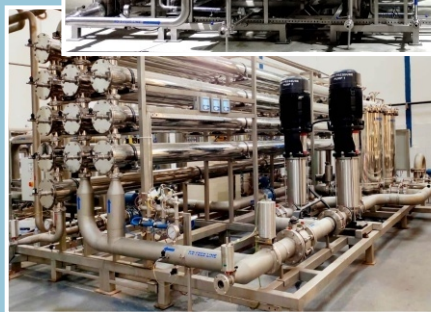
- Ultra Filtration
- Nano Filtration
- Reverse Osmosis Systems [Single and Double Pass]
- Electro de ionization [EDI]



MICROBIOLOGICAL TREATMENT EQUIPMENTS

To control microbiological activity in water

- Chemical Dosing Systems.
- Ultraviolet Sterlisers
- Ozonators
- Absolute Micron Filtration



We provide complete documentation and test certificates for all projects.

For critical applications in the Pharmaceutical Industry additional documentation as follows is provided.

For System Manufacturing and Integration.

URS/FRS/FATS, Process Safety Analysis [PSA], Process Safety Management [PMS] programs

For System Commissioning and Validation

GMP Audit, SOP Development, O & M and PM Manuals and Training, DQ/IQ/OQ/PQ documentation

For Industry Compliance

ISO, ASTM, NCCLS, PHARMACOPEIA etc

DISTRIBUTION SYSTEM

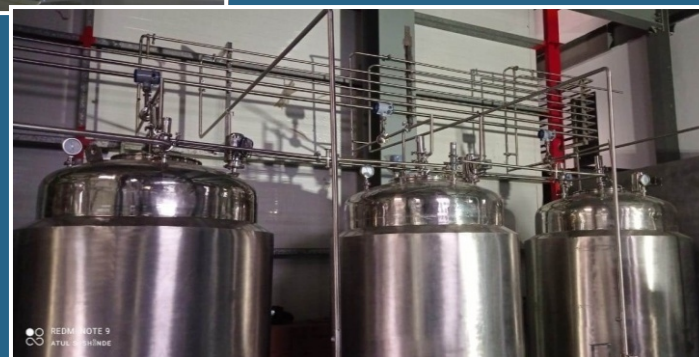
WFI & Purified Water Storage & Distribution System are designed and executed in accordance with client requirement guideline and comply with international codes regulation

Sanitary Equipment for the complete storage & distribution of Purified Water and WFI are provided including

- Storage Tanks for water storage
- Pumps for distribution
- Heat Exchanger including POU
- Ultraviolet Sterilisers (UV)
- Instrumentation to record flow, velocity, conductivity, temperature, pressure etc.
- Zero Dead Leg Valves



- All pipes and fittings are orbital welded
- Weld coupons provided
- Boroscopy videos provided
- Complete material traceability
- Passivation of complete line
- Validation



EFFLUENT TREATMENT PLANT

APK provides customized systems to treat the wide variety of effluents.

COMPLETE SOLUTIONS FOR

- High COD & High TDS effluent
- Difficult to degrade effluent
- Colour removal from treated/ partially treated effluent
- Nutrients (Nitrogen, Phosphorus) removal
- Heavy metals, Cyanide, Fluoride removal
- Waste water recycle and reuse Zero Liquid Discharge (ZLD)
- Tailor made industry specific solutions



We provide Complete Equipments for Effluent Treatment Plant as follows

PRELIMINARY – PHYSICAL

Removal of large solids such as rags, sticks, grit and grease with Bar Screen and Grease Traps

PRIMARY-PHYSICAL AND CHEMICAL

Removal of floating and settleable materials such as suspended solids and organic matter through Dosing Chemicals and Settlers like Clarifiers, Clariflocculators Tube Settlers etc.

TERTIARY-PHYSICAL, CHEMICAL AND BIOLOGICAL

Removal of residual suspended solids, traces of color and odor through Clarifiers, Clariflocculators, Tube Settlers etc.

Oxidation by Chlorine and Ozonation. Fine Filtration by Sand and Activated Carbon Filter

ADVANCED-RECOVERY

Removal of Total Dissolved Solids (TDS) through membrane system like Ultrafiltration & Reverse Osmosis etc.

ZERO LIQUID DISCHARGE (ZLD)

Ensuring high TDS, high COD effluent is totally recycled through use of Agitated Thin Film Dryer (ATFD), Multiple Effect Evaporator (MEE) etc.



SECONDARY-BIOLOGICAL AND CHEMICAL

Removal of biodegradable organic matter through Anaerobic treatment OR through Aerobic treatment with Diffusers and Air Blowers etc



SEWAGE TREATMENT PLANT

APK offers both customized and standardized Sewage Treatment Plants (STP) for Municipal Corporations, Industries, Housing Societies, Commercial Complexes, Hotels and Hospitals etc. Treatments Schemes are on the principle of Aerobic or Anaerobic Treatment and include

MOVING BED BIO REACTOR (MBBR)

- FAB Media used reduces aeration tank size



SEQUENTIAL BIO REACTOR (SBR)

- More than one reactor provides effective treatment to the sewage

MEMBRANE BIO REACTOR (MBR)

- Using Ultra Filtration membranes to get treated sewage water, drastically reduces STP area required

ADVANTAGES OF TREATED SEWAGE

- Treated water can be used for Toilet Flushing, Car Washing, Horticultural /Irrigation applications
- Easy to Operate
- Zero Discharge can be obtained.
- No Odor problem.



TURNKEY PROJECTS IN PLASTICS

Turnkey Plastics Projects were implemented for various clients who wanted to cater to their in house requirements or wanted to go for diversifications.

Equipments supplied in this category include those for



INJECTION MOULDING TO MANUFACTURE

- Preforms
- Caps
- Containers
- Tamper Evident Lids
- Other Injection Moulded Articles



BLOW MOULDING MACHINES

- Pet Stretch Blow Moulding of preforms to Bottles
- HDPE Blow Moulding for Jerry Cans, Containers
- Blown Film Plants for Carry Bags , Labels etc
- PE Form Fill Seal Machines (FFS) etc.



THERMOFORMING TO MANUFACTURE

- Cups
- Trays

PVC COMPOUNDING & EXTRUSION

- High Speed Mixers
- Extrusion for Pipes , Tubes, Conduit and Irrigation Pipes
- Film/ Sheets Extrusion

PLASTIC RECYCLING MACHINERY FOR

- PET Recycling
- HDPE and Other Plastics Recycling

MOULDS

- All types of Moulds for the above applications.



TURNKEY PROJECTS IN BEVERAGES

Turnkey Projects in Beverages have been implemented for

- Carbonated Soft Drinks [CSD]
- Mineral Water
- Juices [Synthetic as well as Natural]
- Milk
- Ready To Serve Drinks [RTS]

We Supply all the equipments towards complete project requirements. And include



PROCESS EQUIPMENTS

- Sugar & Concentrated Flavor Syrup Preparation
- Carbonators & Premix Systems
- Homogenisers & Pasteurisers.
- CIP Systems
- Juice Extraction & Concentration
- Autoclaves

CONTAINER MANUFACTURING MACHINERY

- PET Stretch Blow
- HDPE Blow
- Cup Making & Filling
- Pouch Making & Filling

CLOSURE MANUFACTURING MACHINE

- HDPE/LLDPE/PP Caps
- ROPP/Crown Caps
- CSD Caps
- Jars & Jerry Can Caps & Plugs



PACKING EQUIPMENT

- Conveyors
- Labelers
- Batch Coders
- Carton Packers



RINSING, FILLING, CAPPING (RFC) & FORM FILL SEAL [FFS] MACHINE

- Plastic & Glass Bottles
- Cups
- Pouches
- Drums
- Jerry Cans
- Customized Bottles like for Toilet Cleaners

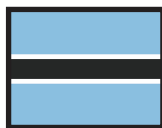
Our Presence



ALGERIA



ANGOLA



BOTSWANA



BANGLADESH



BAHRAIN



BHUTAN



BURKINAFASO



CAMEROON



CONGO



EGYPT



ETHIOPIA



GAMBIA



GHANA



GABON



INDIA



IRAQ



IRAN



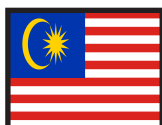
JORDAN



KENYA



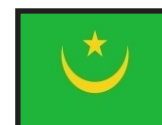
MALAWI



MALAYSIA



MALDIVES



MAURITANIA



MOZAMBIQUE



NEPAL



NETHERLANDS



NIGERIA



NIGER



OMAN



QATAR



SAUDI ARABIA



SOUTH AFRICA



SEYCHELLES



SOUTH SUDAN



SRI LANKA



SUDAN



SURINAME



TANZANIA



UGANDA



UAE



YEMEN



ZIMBABWE



ZAMBIA



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