

OUR PRODUCT RANGE

- ◆ MULTIPLE EFFECT EVAPORATOR (MEE)
- ◆ ZERO LIQUID DISCHARGE PLANT
- ◆ DISTILLATION SYSTEM
- ◆ HERBAL EXTRACTION PLANT
- ◆ DRYERS
- ◆ PROCESS EQUIPMENTS
- ◆ AGITATED THIN FILM DRYER (ATFD)



Projexel Process Equipments Pvt. Ltd

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COMPANY PROFILE

Projexel Process Equipments Pvt. Ltd. is a Turnkey solution Provider Company was established in 2015. We are maintaining world-class engineering standards with optimum investment and operation cost for the customers. Our expertise is in providing turnkey plants of **Multiple Effect Evaporators (MEE), Zero Liquid Discharge Plants , Distillation Systems, Herbal Extraction Plants , Dryers & Process Equipments**

We bring many professional services in the field of Engineering, Fabrication and Erection & Commissioning to ensure that our valuable client's benefits from our quality work and comprehensive solution.

With the advancement in technology, we have been constantly working for high accuracy and good quality output to provide our valuable clients better satisfaction and comprehensive solution.

We are also committed to health, safety and environmental responsibilities of our employees. We provide a good comfort and safety to employees, which keep our company away from hazardous situation.

Our Technical knowledge is the backbone of our company, in addition to that experienced & dedicated team ensures project delivered & implemented in time and with quality.

With experienced manpower we are able to deliver promptly and efficiently Services to our clients. This is the simple secret of Projexel getting repeat orders. The focus is always on maintaining world class engineering standards with optimum investment and operational cost for the customers.

We do herbal Extraction Plants & Multiple Effect Evaporator (MEE) on turnkey basis i.e. concept to commissioning. Projexel has huge experience in the field of process equipments like storage tanks, reactors, distillation columns etc.

INFRASTRUCTURE AND FACILITIES

Projexel is fast growing company with in house Research & Development unit. Projexel has a state-of-art manufacturing unit with all required certificates. We also worked under third part inspection agencies like TUV. We have experience of different material of constructions (MOC) like Titanium, Duplex Steel, Stainless Steel, Mild Steel etc.

Our fabrication division having all required machineries and well equipped shop that enable our workforce to carry out the task or project with highest precision. We provide the best available tool and equipment's for our workforce to perform a task with maximum efficiency and quality output.

Our systematic and positive approach towards the work helps us to optimize the costing and increase productivity.

We work hand in hand with our clients to meet their requirement at all time. It has been our commitment to provide highest quality in least time and efficient manner possible.

We routinely follow the quality procedure right from the start to final dispatch. After the completion of work or project the inspection report as procedure and carried out a full inspection report which help us for hand over to the client with zero error.

Inspection report is carried out as per the international norms, which certifies that the work is complete with no defect.



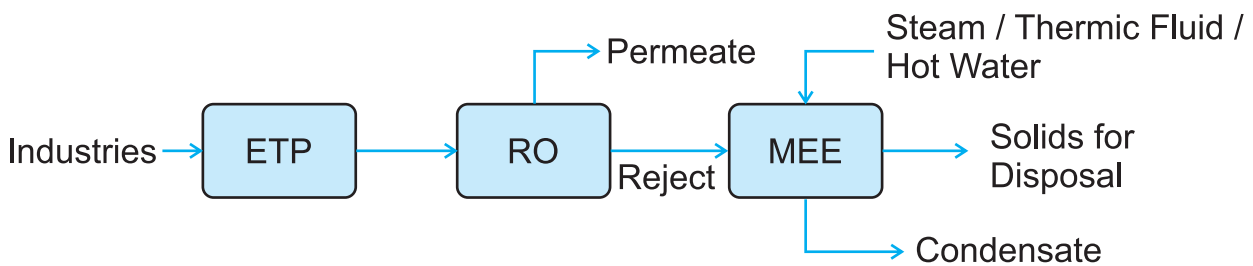
RESEARCH AND DEVELOPMENT FACILITY

Projexel has dedicated research and development facility at Bhosari, Pune. We have complete set up of pilot plant trials of various equipments. A dedicated team of R&D help us to launch new innovative systems and solutions. A careful experimental analysis of the application is conducted prior to design



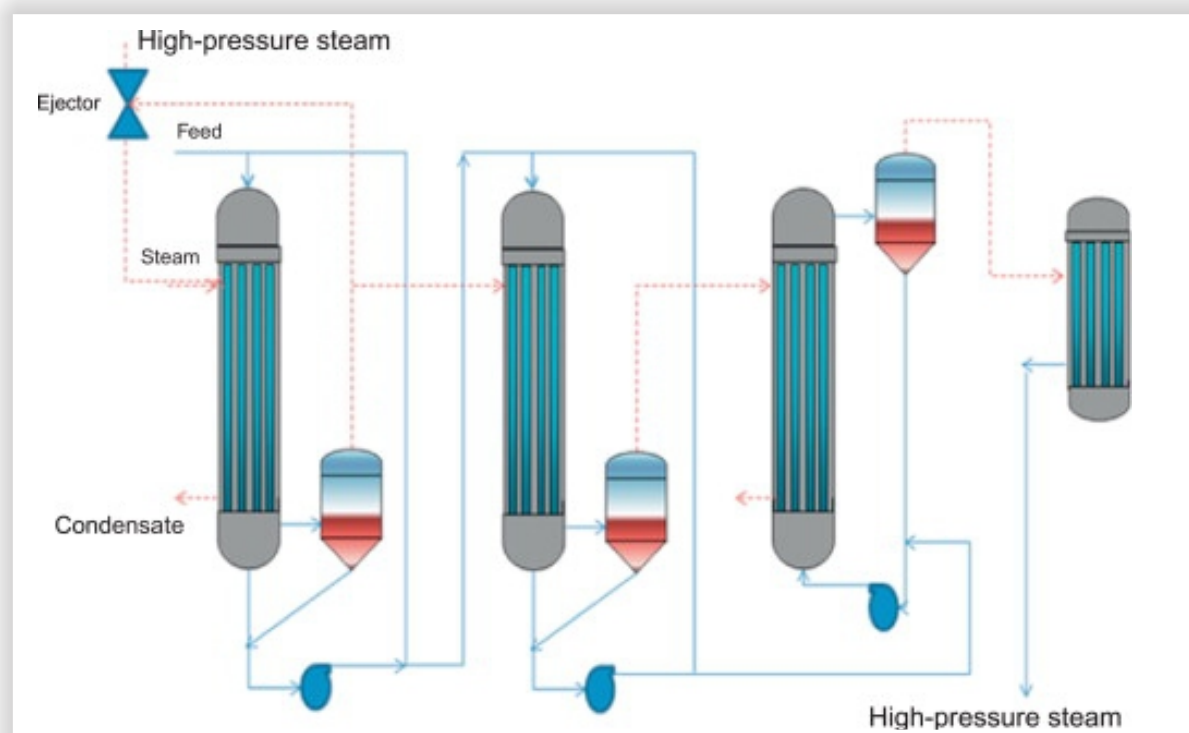
MULTIPLE EFFECT EVAPORATOR (MEE)

Multiple Effect Evaporator is necessity of all industries which are generating effluent to achieve Zero Liquid Discharge plant. Zero liquid discharge plants is a combination of ETP, RO & Evaporator depending upon nature of effluent. We design the MEE considering the physical and chemical properties of the effluent. Hands on experience in the field ensure the solution at optimum cost of investment and operation.



EVAPORATOR BASED ON THERMO VAPOUR RECOMPRESSOR (TVR) TECHNOLOGY

In TVR normally vapour generated from first effect getting mix with live steam, this mixed system used as a heating source for 1st effect by this way we arte enhancing the steam economy.



**FIVE EFFECT EVAPORATOR FOLLOWED BY
PUSHER CENTRIFUGE**

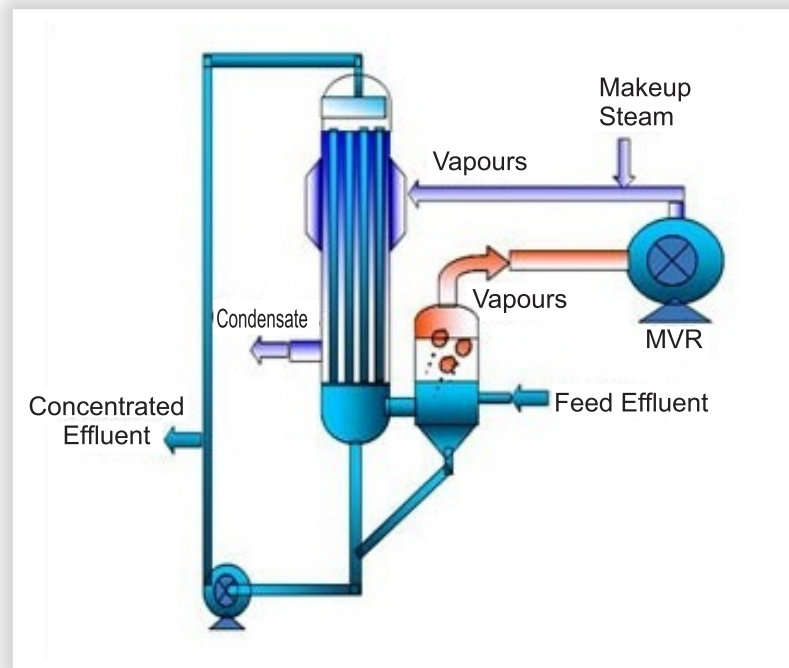


**DOUBE EFFECT EVAPORATOR WITH STRIPPER
FOLLOWED BY ATFD**



EVAPORATOR BASED ON MECHANICAL VAPOUR RECOMPRESSOR (MVR) TECHNOLOGY

Normally its comes with single effect, complete vapour generated getting compressed with mechanical blower.



EVAPORATOR WITH THERMIC FLUID HEATER AS HEAT SOURCE



DOUBLE EFFECT EVAPORATOR FOLLOWED BY CENTRIFUGE HEAT SOURCE HOT WATER



SOLID FROM ATFD



SOLID WASTE FROM PUSHER CENTRIFUGE



CLEAR CONDENSATE FROM MEE

ATFD (AGITATED THIN FILM DRYER)

In the ATFD (AGITATED THIN FILM DRYER) the concentrated effluent from the MEE plant is treated for complete separation of solids and liquid.

The selection of ATFD or any other centrifuge depends on COD value of the effluent.

Many times for small industries having very less effluent generation, it is economical to use ATFD directly (without MEE). The Dry Powder obtained from ATFD can be either used as a by-product or be sent for disposal.



SKID MOUNTED ATFD



ATFD ROTOR

HERBAL EXTRACTION PLANT

Projexel offer specially designed herbal extraction plant. Extraction from different parts of plant like seeds , barks, root, flowers etc. The process of extraction for a particular compound or multiple compounds are dependent on the solubility of the rich components in an extraction media such as aqua (water) or organic solvent or a mixture of organic solvents by using the principle of physical separation and the property of solubility of those compounds



EXTRACTOR



CONCENTRATOR



EVAPORATOR

PROCESS EQUIPMENTS



Agitated Tank

Agitators include top, side, and bottom entering units for use in a variety of applications from small pilot scale to large production units. Agitators can be mounted on beams/ channels, clamp mounted to the tank side, or flange mounted to the vessel with a variety of sealing options.

An agitator is a device or mechanism to put something into motion by shaking or stirring. There are several types of agitation machines, including washing machine agitators.

Reactor

A chemical reactor is an enclosed volume in which a chemical reaction takes place. In chemical engineering, it is generally understood to be a process vessel used to carry out a chemical reaction, which is one of the classic unit operations in chemical process analysis.



Heat Exchanger

A heat exchanger is a system used to transfer heat between two or more fluids. Heat exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact.

Bag Filter

A Bag Filter is an air pollution controlling industrial equipment, used prominently in a Steam Boiler House Assembly. It is used to control the levels of sulfur dioxide and others. So the, bigger size dust particles get collected at the surface of the Filter and flue gases leaves Bag filter through the outlet.



Our Esteemed clientele



SPAB Chemicals Pvt. Ltd.

