



# Nes India Engineers

Manufacturers & Suppliers of  
Process Equipments & Turnkey Projects



## OUR PRODUCTS

CHEMICAL REACTOR | HERBAL EXTRACTOR

CONDENSER | RECEIVERS | DISTILLATION COLUMN

STORAGE TANKS

[www.nesprocessequipment.com](http://www.nesprocessequipment.com)

# COMPANY OVERVIEW



## • ABOUT US :

NES India Engineers established in 2004 is an ISO 9001: 2008 certified company. We are a leading manufacturer and supplier of food and pharmaceuticals process equipment. We also under turnkey and APIs to provide end-to-end solutions. Our diverse range of products include reactors, heat Exchanger, storage tanks, powder blenders, screw conveyors, centrifuge machine, dryers and custom-made equipment's. It is located in the industrial development zone of Pune, Maharashtra, India.

Our team is promoted by qualified, experienced, and dedicated engineers who strongly believe in working hard for the company, its customers, and employees to provide state-of-the-art solutions. Our engineers constantly make efforts to update themselves with the latest technological trends to manufacture our products in line with the latest advancements with high-quality standards. We have a huge base of satisfied customers spread across all over India and other neighboring countries like Malaysia and Sri Lanka.

NES India Engineers has a dedicated industrial workshop covering 5500 sq. feet and a dedicated warehouse. Our team consists of more than 50 employees which include the Design, Sales and marketing, Production, Purchase, and Quality team.

## • CHEMICAL REACTORS

In Batch reactors, one or more reactants are introduced into a reactor vessel equipped with an impeller to carry out a chemical reaction. The mixing is carried out under external heating or cooling. The impeller stirs the reagents vigorously to ensure good mixing so that there is a uniform composition throughout. Baffles are provided to prevent vortex formation during the mixing of liquids.

| Type                      | Description  | Capacity                   |
|---------------------------|--|----------------------------|
| Limpeted chemical reactor | A Limpet is provided around the shell for heating or cooling. Steam or thermic oil is used as a heating medium | Min-200 L,<br>Max-30,000 L |
| Jacketed chemical reactor | A jacket is provided around the shell for heating or cooling. Steam is used as a heating medium.               | Min-200 L,<br>Max-30,000 L |
| Mixing vessel             | It is used for the mixing of liquids at ambient pressure and temperature.                                      | Min-200 L,<br>Max-30,000 L |

## • MATERIAL OF CONSTRUCTION

We deal in a variety of material combinations such as SS316, SS316L, SS304, SS304L, MS (IS2062), SA516 Gr.70 (BQ). Also, coatings such as PTFE, PP, FRP, Halar, Rubber lining.

# TYPES OF REACTORS

1



2



3



4



5



1. GMP REACTOR | 2. LIMPETED REACTOR  
3. JACKETED REACTOR | 4. MIXING VESSEL  
5. MIXING VESSEL

## • CONDENSER & HEAT EXCHANGER

Heat exchangers are used to transfer heat between two or more fluids. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact. A shell and tube heat exchanger passes fluids through and over tubes, where as an air-cooled heat exchanger passes cool air through a core of fins to cool a liquid. They find application across a wide range of industries such as oil and gas industries, Data-centers, Pharmaceuticals.

| Type           | Description  | Capacity                |
|----------------|--|-------------------------|
| Shell and Tube | High temperature fluid runs through the tubes, and another low temperature fluid flows over the tubes through the shell to transfer heat between the two fluids. | Min-1 m2,<br>Max-100 m2 |

Fixed tubes sheet types & Floating tube sheet type

## • MATERIAL OF CONSTRUCTION

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### SHELL & TUBE TYPE



### FLOATING TUBE SHEET TYPE





# CHEMICAL PLANT & MACHINERIES

## • STORAGE TANK

Industrial Storage tanks are used to store various liquids such as oil, gas and chemical liquids. Tanks are further classified according to their shape cone bottom, flat bottom, open-closed top, vertical-horizontal cylinder. We provide custom made storage tanks which are corrosion resistant, durable and reliable.

| Type                    | Description  | Capacity                |
|-------------------------|--|-------------------------|
| Horizontal storage tank | Tanks are placed horizontally on the ground with the saddle support. | 500 Ltr to 1,50,000 Ltr |
| Vertical storage tank   | Tanks are placed vertically on the ground on the support legs/skirt. | 500 Ltr to 1,50,000 Ltr |

## • MATERIAL OF CONSTRUCTION

We deal in a variety of material combinations such as SS316, SS316L, SS304, SS304L, MS (IS2062), SA516 Gr.70 (BQ). Also, coatings such as PTFE, PP, FRP, Halar, Rubber lining.



## • DISTILLATION COLUMN

A distillation column is used in the distillation of liquid mixtures to separate the mixture into its component parts, or fractions, based on the differences in volatilities. The quality of the separation performed by a column can be judged from the purity of the top and bottom product streams.



## • HERBAL EXTRACTION PLANT



Herbal extraction plant includes :-

- Extractor
- Precipitation reactor
- Centrifuge machine
- Dryer
- Blender

We Nes India provide complete solution for extraction with water and solvent also.

# OUR CLIENTS







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## CONTACT WITH US :

 **+91 98607 53071 / +91 88059 85241**

 **info@nesprocessequipment.com**

 **www.nesprocessequipment.com**

 **Gate No. 396, Plot No. 12, Near Talwade IT Park, Dehu Alandi Road  
Towards Dehu, Pune - 412114, Maharashtra, India.**