



Vapsum Pvt. Ltd.

Sustainable Engineering Solutions

VAPSUM is a technology driven, environment friendly and safety conscious emerging EPC company serving Power, Oil and Gas (Upstream & Midstream), Petroleum Refinery Units and Marketing terminals, Chemicals and Petrochemicals, Pharmaceuticals, Fertilizers and Pesticides, Metals and Mining, Bio Fuel and Ethanol industries on global basis.



🔥 BACKGROUND :

VAPCO Engineers Private Limited, one of the group companies are delivering concept-through-completion services with technology to chemical and agro based industries. Beside, **VAPCO** is specialized in design, engineering, fabrication, installation and commissioning of various types of evaporation and drying systems. Over the last few years, **VAPCO** has successfully executed large number of process plants and systems on LSTK basis across the globe.

The need was felt to diversify and deliver value added engineering services to other industry sectors; leading to the formation of **VAPSUM Private Limited** in 2016.

🔥 VAPSUM PROFILE :

The genesis and theme behind formation of **VAPSUM** is to offer client focused, cost effective and environment friendly engineering services and solutions.

VAPSUM is an integrated team of professionals having substantial experience to perform concept to commissioning services and solutions in the Oil and Gas, Chemicals and Petrochemicals processing plants.

We follow proven design procedures and International Codes and Standards to offer tailored engineering services as per the needs, constraints and resources of our clients.

Our focus is to troubleshoot the problems associated with plant operational, performance, safety, maintenance and energy optimization with objective to build long-term relationships with our valued customers.

VAPSUM'S operating centers are strategically located at Navi Mumbai and Delhi with state of the art infrastructure facilities.

🔥 CAPABILITIES :

VAPSUM has requisite experience and resources to execute

- FEED
- Design & Detailed Engineering (multi disciplinary)
- Specialized Engineering services
- EPC for brown field projects
- Design, fabrication and supply of modular skid and systems



SERVICES OFFERED :

Category	Application Engineering Services
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">General Engineering</p>	<p>(Green Field / Brown Field / On shore / Off shore Projects)</p> <ul style="list-style-type: none"> ■ CAD services – 2D Drafting and 3D Modeling ■ Site survey, As built drawings and documentation / Paper to 3D modeling conversion ■ Brown-field Engineering / 3D CAD models from laser scan point data ■ Shop / Site Fabrication drawings – Spool, Equipment, skids etc. ■ Design Review and Validation ■ Pre-Bid Engineering ■ Piping support and stress Analysis, Pipeline Failure / Flexibility analysis (Dynamic Analysis, Vibration Analysis) Upheaval Buckling calculation, crossing calculation. ■ Alignment sheet, Station approach drawing, Crossing drawing. ■ Procurement and Construction assistance to Production / Operator companies and Engineering Consultancies. ■ Tailored EPC services to troubleshoot plant operational, performance, safety maintenance and energy optimization related issues. ■ Assistance for Commissioning Plans, Commissioning, Start-up & Operator Training
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Specialized Engineering</p>	<ul style="list-style-type: none"> ■ Hydraulic Analysis, ■ Surge Analysis ■ Dispersion and Radiation Calculation ■ Pipe / Pipeline stress Analysis ■ Finite Element Analysis ■ Composite Analysis for Equipment and Structure. ■ Structural Stability Analysis. ■ Fire Fighting system Design ■ Fire Hydrant Network Analysis ■ Engineering Calculation for Hot Tapping.
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Pre Fabricated piping, Modules and Skids: (Fabrication, Assembly, Painting, Inspection, Testing)</p>	<ul style="list-style-type: none"> ■ Pressure vessels – Shell and Tube Heat exchangers, Re-boilers, Evaporators, Distillation Columns, Coalescer ■ Atmospheric Vessels – Seal Pot, KOD, Vapour liquid separators, Closed drain vessel, Indirect water bath heater ■ Skid based Structural & Piping Systems ■ Fabricated Manifold Skids such as RMS, Production and Test Manifolds, MSV, Inlet Manifolds in Oil & Gas gathering stations ■ Chemical Injection Skids ■ Well Head Control Panel ■ Hydraulic power unit ■ Scraper Launcher / Receiver ■ Eye Wash and Safety Shower ■ Slug Catcher ■ Specialized Manufacturing facilities in association with technical partners-Internal Lining of Pipes Rubber, FBE, PE, PP, HDPE
<p style="text-align: center;">Multi-disciplinary Engineering</p>	<ul style="list-style-type: none"> ■ Design and Detailed engineering services to major EPC companies, Contractors and Vendors for Brown field and Green field projects in Power, Hydrocarbon and Chemical sectors.

Projects & references :

Refer www.vapcoengineers.com for the projects and references executed by parent company VAPCO Engineers Pvt. Ltd.

Technical exposure / experience matrix of key team members :

Sector / Segment / Industry	Plant / Stations	Unit / Package / Equipment's
Power	<ul style="list-style-type: none"> Oil, Gas and Coal base power generation units Solar Power Plants. 	<ul style="list-style-type: none"> Turbo Generators, Gas/ Steam Turbines Captive Power Plants LNG Storages
Up Stream	<ul style="list-style-type: none"> Well head Stations Remote Manifold Stations 	<ul style="list-style-type: none"> Well-head Control Panels Production and Test Separators Multi-Port Selector Valves Chemical Injection Skids
Mid-Stream	<ul style="list-style-type: none"> Pipelines and storages 	<ul style="list-style-type: none"> Flow lines, Trunk Lines and Cross Country Pipelines
Down Stream	<ul style="list-style-type: none"> Refining and Marketing Terminals 	<p><u>Petroleum Refinery Units:</u></p> <ul style="list-style-type: none"> CDU, VDU, CCU, FCCU, DHDS, Reforming units, SRU, Aromatics units, Loading Gantries, MTF, RTF <p><u>Marketing Terminals:</u></p> <ul style="list-style-type: none"> LPG & Propylene Storage, Bottling and distribution Terminal Black / White oil Storage and Distribution terminal
Petrochemical Plants		<ul style="list-style-type: none"> Monomer Polyester Polyolefin and Polystyrene
Chemical / Fertilizer Plants		<ul style="list-style-type: none"> Chlor-alkali based plants Ammonia, Sulphuric Acid, Phosphoric Acid and Urea Plants
Offshore	<ul style="list-style-type: none"> Well head Platforms (Topside) 	<ul style="list-style-type: none"> EPF - Early Production Facility CPF - Central Production Facility
Metal & Mining	<ul style="list-style-type: none"> Areas – Material Handling, Mineral processing Metals - Alumina, Coal, Copper, Gold, Oil Sand, Zinc, Molybdenum 	<ul style="list-style-type: none"> Design and Fabrication (With and without Lining) of Launder, Collection and Distribution Box, Chute and Dart valve. Gravity flow solutions Modularization - specific designs Planning

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