

## Recognition awarded to Everest Group for its in house R & D facility, by Department of Science & Industrial Research

Department of Scientific And Industrial Research, Ministry of Science And Technology, Government of India, has given recognition to Everest Group's in-house Research & Development facility at its Bahadurgarh unit.

Everest Group has strongly realized and

felt the shift of the industry towards energy efficient solutions. The Group stands today as one of the upcoming names in the vacuum industry, a fully integrated and diversified company involved in the Engineering, Evaluation, Designing, Manufacturing, Testing, Execution, Post Sales & Service of Pressure & Vacuum Systems. The company aims to build the most cost-effective development firm, through the blending of its world-class 'best practices' with local experience and knowledge. It caters to the needs of local emerging economies.

Everest is having effective presence in STP & ETP (Waste water treatment)

industry, Pneumatic Conveying systems, Aeration systems, Aquaculture etc, to name a few, in South East Asia. The Group had diversified into design & installation of innovative systems for chemical & pharmaceutical industry based on technologies which have low impact on the environment, are energy efficient and have low operation & maintenance costs. The demand for such systems is growing exponentially due to increasing environmental awareness and corporate responsibility.

Everest Group has a lot of experience in sustainability chemistry or green chemistry, cleaner production, clean



**ENVIRON  
ENGINEERING  
COMPANY**

## ECONOMICAL POLLUTION CONTROL EQUIPMENTS

**LIST OF MACHINERIES:** (i) 2HP to 150HP Fixed Type and Floating Type **ENERGY EFFICIENT AERATORS**, installations more than 2500 nos. (ii) Central Drive **CLARIFIERS, HRSCC** (High Rated Solid Contact Clarifiers), **CLARIFLOCCULATORS** from 2Mt. to 25 Mt. Dia, more than 2000 nos. installations (iii) **THICKNERS** from 2 Mtr. Dia to 15M Dia. more than 50 nos. installations (iv) **AGITATORS, FLASH MIXERS, STIRRERS, FLOCCULATORS** from ½ HP to 40HP ratings in Rubber, Lead, FRP Lining, S.S. Construction, installations more than 2200 nos. (iv) **API OIL SEPARATORS**, installations more than 50 nos., etc.

**LIST OF INSTALLATIONS: CETPs:** At:- (1) PATTANCHERU CETP-PATTANCHERU, (2) DOMBIVLI - CETP, DOMBIVLI (3) VAPI - CETP, VAPI (4) MAHAD - CETP, MAHAD (5) WAZIRPUR - CETP, DELHI through L & T Chennai, (6) BADLI - CETP NEW DELHI through UEM, DELHI, (7) BHARUCH ECO AQUA- BHARUCH (8) CETP-JALANDHAR through Ramky Projects, (9) PERFECT ENVIRO CONTROL (CETP) - SARIGAM, (10) THANE BELAPUR CETP - NAVI MUMBAI, (11) NANDESARI CETP, NANDESARI (12) GLOBAL ENVIRO CARE-SACHIN CETP (GUJ), etc.

**WORLD BANK AIDED PROJECTS (GWSSB):** ANAND, NADIAD, GODHRA.

**REPEATED ORDERS FROM CLIENTS:** (Total 144 Nos. of Clients, who repeated the orders for their each & every expansion projects).

**FEW VALUED CLIENTS:-** AUROBINDO PHARMA, - HYDERABAD - 30 Times. GUJARAT REFINERY, VADODARA - 8 Times. GUJARAT INSECTICIDES - ANKLESHWAR - 7 Times, TORRENT PHARMACEUTICALS, AHMEDABAD - 6 Times, PATTANCHERU CETP, PATANCHERU - 5 Times, LUPIN - ANKLESHWAR - 6 Times, ALLANA GROUP - 8 times, RECKITT & COLMAN- ASANSOL - 4 Times. TAMILNADU PETRO PRODUCTS - CHENNAI - 3 Times, DSIDC - NEW DELHI - 3 Times, L&T ECC DIV. - 2 Times, DR. REDDY'S LABORATORIES - HYDERABAD - 3 Times, BILT-(THAPAR GROUP) - 2 Times, Vapi CETP - 5 times, GNFC 3 Times, etc.

**TREATED ALL TYPES OF EFFLUENTS LIKE:** PHARMACEUTICALS, DAIRIES, DISTILLERIES, SOAP & DETERGENT, FERTILIZERS, CHEMICALS, PAPER MILLS, SUGAR, TEXTILE, METAL, DYES, OIL INDUSTRIES, PETROLEUM, CEMENT, INSECTICIDES / PESTICIDES, FOOD IND., BOTTLING PLANTS, STARCH INDS., ORGANIC, STP & CETP PROJECTS.

**ENERGY AUDITING FOR EXISTING ETP / CETP / STP SYSTEM IS ALSO CARRIED OUT**

**INHOUSE OXYGEN TRANSFER TESTING FACILITY AS PER AMERICAN STANDARDS AND WRINKLERS PROCEDURE IS AVAILABLE.**

### ENVIRON ENGINEERING COMPANY

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technologies, eco-efficiency, energy saving, resource saving, environment friendly techniques, etc., like:

- (a) Design & manufacture of solvent recovery systems to curb pollution. These systems not only play an important role by making the process eco-friendly but also recover precious solvents for reuse. Most of the pharmaceutical processes have low boiler solvents which are undesirable if expelled into atmosphere. On installation of solvent recovery system, most of the solvent can be recovered back. The demand of such systems is growing exponentially due to increasing environmental awareness and corporate responsibility.
- (b) Design & manufacture of CPCB approved vacuum systems for waste oil re-refining.
- (c) Design & manufacture of mechanical vacuum boosters for replacement of steam jet ejectors.
- (d) Design & manufacture of SUPERVAC vacuum systems using mechanical vacuum boosters and dry screw vacuum pumps - Dry Pumping Technology.
- (e) Design & manufacture of extended shaft Roots Blowers configuration for applications requiring 100% Oil Free Air like aeration in aquaculture farms, plating lines, STPs, etc.
- (f) Design & manufacture of Low Temperature Thermal Desalination systems for producing potable water ..... and many more.

Everest's core competency lies in custom manufacturing of special air blowers and boosters by alloying and cross linking diverse designs to suit specific requirements and import substitutes. It has built an expert technical team that has years of application associated experience and has developed capability to help serve the customers with effective solutions. As the company ably serves the Original Equipment Manufacturers (OEM's), it has gained in-depth knowledge of the critical requirements of OEM applications, in terms of power, space, noise, air flow, vibration, cost and more. With reference to standard models

of air blowers and vacuum pumps, the company, through its unique design and engineering expertise, can develop a completely new model, or modify the existing design. The outcome is a custom air blower or vacuum pump that meets the exact requirements of OEM application at the lowest possible cost.

Over the period of two decades, application engineering has been the cornerstone of Everest's success. Its strength has been to work on new application areas and modify existing ones so as to reduce energy consumption, optimize performance and increase process efficiency. On account of many such new developments and applications, the company has carved a niche for itself in the equipment industry, offering customized solutions. Some of the developments include:

- 100% Oil Free aqua series blowers for fish and prawn culture. Modifications have been made to ensure 100% oil free air supply even under worst condition of oil seal failure.
- Development of mechanical vacuum boosters with PTFE seals for nitrobenzene and ortho-nitro benzene vapor handling in solvent recovery application. The use of modified boosters has resulted in process time reduction by almost 50%.
- Development of Dry vane pumps for low capacity, medium pressure applications, which were a long time demand of the small ETP plants.
- Development of SS blowers with special sealing for mechanical vapor recompression for heat recovery resulting in substantial energy saving.
- Engine driven blower package units developed to meet the demand of Indian Railways, which are used for thermit welding of railway tracks.
- Menthol distillation process improved by installation of vacuum booster resulting in higher yield and product purity. The modification received an impressive response and today practically all menthol distillation units have Everest Boosters as an integral part of the plant.

- Use of Everest boosters for waste oil recovery using an environmentally safe technology duly approved by Central Pollution Control Board.

## Organic Waste Processing to Deal Global Warming

The United Nations Framework Convention on Climate change (UNFCCC) and its Kyoto Protocol lay down the principles and provisions on the basis of which developed and developing countries have to take actions to address the global problem of climate change. Parties to the Convention and the Kyoto Protocol are obliged to take actions in accordance with the principles of equity and common but differentiated responsibility and respective capability. This was stated by Shrimati Jayanthi Natarajan Minister of State (Independent Charge) for Environment and Forests, in the Lok Sabha recently.

An expert committee was set up in 2007 under the Chairmanship of the Principal Scientific Adviser to the Government of India to assess the impacts of climate change on various sectors namely viz. agriculture, methane emissions from livestock, coastal zone, health, water resources, forests and natural ecosystem. The report of the Committee has been made available to the concerned Ministries and agencies for necessary action. The Prime Minister's Council on Climate Change has also been set up to guide and coordinate national response to climate change.

As part of the National Action Plan on Climate Change, the National Mission on Sustainable Habitat includes activities for management of solid waste including organic waste. A National programme on energy recovery from urban and industrial waste, and biogas is being implemented. Under the Clean Development Mechanism, government has given host country approvals to several bio-mass based projects for reducing emissions and generating carbon credits.