



Apex Environmental & Energy Management Services

Overview

Apex Environmental & Energy Management Services provides comprehensive and wide range of environmental consultancy services for advising, design/ engineering of industrial effluent and flue gas emission technologies including sewage treatment, recycling of treated effluent, stabilization of effluent treatment plant, statutory compliance, procurement etc. Another functional area is energy management and maintenance management which is also the need of the hour of industries to reduce energy consumption through norms setting internal audit and preventive maintenance.

The company was established in March 2019. We offer diverse range of industries with our expertise to achieve statutory emission norms in a timely manner. With highly qualified and experienced technical professionals we are here to assist you with your ongoing and next project for statutory environmental compliance.

Our Vision

Apex Environmental & Energy Management Services provides right type of cost-effective solutions for abatement of multifarious industrial pollution problems through designing efficient and scalable solutions in the field of industrial pollution control and we believe that the environmental standards our Clients must meet. The company will also guide industries in energy efficiency in plant operation.

Our Core Values

We are committed to provide right type of solution for environmental compliance by diverse range of industries. Our technical experts and advisors are highly qualified and experienced in related disciplines. They are from reputed National universities, research institutes, industries and statutory authorities. We have taken this endeavour to provide right service at right time to the industries so that they are not misguided by any quack

OUR CAPABILITIES

- **Treatment & disposal of industrial effluent and wastewater**
 - Study of water and wastewater balancing
 - Assessment of pollution by characterization of effluent streams
 - Design of process engineering and structural engineering aspects of industrial effluent and sewage treatment plant
 - Process engineering design of zero liquid discharge (ZLD) system
 - Up-gradation of industrial effluent treatment plant
 - Stabilization of industrial effluent treatment plant
 - Operation & maintenance of effluent treatment plants
- **Water Treatment**
 - Water purification
 - Cooling water treatment
- **Industrial Air Emission Control**
 - Advising for reduction of stack emission & fugitive emission in industries.
 - Design engineering, supply, commissioning and performance monitoring of various types of air pollution control devices/ systems and solution providing.
- **Energy Management**
 - Technoeconomic feasibility report and DPR for Captive Power Plant and Solar Power Plant
 - Energy Audit
 - Finding out potential for energy saving
 - Finding out specific energy consumption for individual product
 - Norms setting
 - Submission of proposal for machine wise energy saving.
- **Maintenance Management**
 - Design of preventive maintenance
 - Preparing check list for individual machine
 - Finding out loop holes of existing maintenance procedure and suggesting for improvement
 - Preparation of machine wise specifications list (Both Electrical and mechanical)
 - Audit and inspection of machines under existing condition.
- **Other Environmental Services**
 - Enviro – Legal Services
 - Providing advice to industry to comply with the industry specific guidelines.
 - Coordination with industry and preparing biannual compliance report for submission to MoEF&CC, Government of India.
- **Environmental Assessment Report and Status Report**
 - Environmental Impact Assessment Report
 - Environmental Audit Report
 - State of Environment Report
 - Effluent Treatment Plant Adequacy Report
 - Water and Wastewater Balance Report
- **Municipal Solid Waste Management**
 - Preparation of detailed project report (DPR)
 - Preparation of master plan
- **Procurement**
 - Procurement and supply of mechanical & electrical engineering plant & machinery for effluent treatment plant and air pollution control device.
 - Providing end to end solution to procure spares for general maintenance.
- **Training & Manpower Development**

Contact us: Apex Environmental & Energy Management Services; Registered Office: E3 – 398/23/10F, Greenfield City, P. O. Joth Shibrapur, P. S. Maheshtala, South 24 Parganas, Kolkata 700 141, West Bengal; Licence No. 200262019120822

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Apex Environmental & Energy Management Services

OUR TEAM



Dr. Somnath Narayan
Founder

Dr. Somnath Narayan is founder of Apex Environmental & Energy Management Services. Dr. Narayan is a Civil and Environmental Engineer by profession. Previously, he worked with West Bengal Pollution Control Board (WBPCB) for about 35 years as senior management level official (Chief Engineer Grade).

Dr. Narayan holds a doctorate degree in Civil Engineering from Environmental Engineering Division, (Jadavpur University) and a Master of Engineering degree in Environmental Engineering from All India Institute of Hygiene & Public Health (University of Calcutta). Dr. Narayan also did a post graduate course in EIA & Audit from University of Bradford, U. K. with scholarship awarded by British Council Division.

During his tenure in WBPCB, he was heading implementation of environmental control policy & law in respect of water and air pollution across about 1000 seriously polluting industries spread over 8 districts in West Bengal State. His core functional competence area is design, engineering & stabilization of waste water treatment/ industrial effluent treatment, industrial air



Professor (Dr.) Arunabha Majumder
Honorary Technical Adviser

Prof. (Dr) Arunabha Majumder is a Civil and Environmental Engineer. He passed Bachelor of Civil Engineering and Master of Environmental Engineering from Jadavpur University. He studied at the International Institute of Hydraulics and Environment, Delft, Netherlands and successfully completed Post-Graduation in Sanitary Engineering. He was awarded PhD in Engineering from Jadavpur University.

Initially, Prof. Majumder Worked at Calcutta Metropolitan Water & Sanitation Authority and dealt with Sewerage and Drainage Projects, design of sewage treatment plants, Solid Waste Management etc. Thereafter, Prof. Majumder joined

All India Institute of Hygiene and Public Health, Government of India and associated with Post-Graduate teaching in Public Health Engineering, Research and Consultancy.

Prof Majumder has more than 45 years of experience in the field of Water Supply, Water Purification, Water Conservation, Water Quality monitoring, Water management, Rural Sanitation, Sewerage and Drainage, Municipal Sewage Treatment systems, Industrial Waste Water Management, Water Pollution Control, Air pollution Control, Solid Waste Management, Hazardous Waste Management, Environmental Impact Assessment etc.



Dr. Arun Kanti Biswas
Honorary Technical Advisor

Dr Arun Kanti Biswas is a Civil and Environmental Engineer. He passed Bachelor and Master of Civil Engineering from Jadavpur University. At the Masters level he specialized in Environmental Engineering. Dr. Biswas also passed Bachelor of Law from Calcutta University. He was awarded PhD in Civil Engineering from Jadavpur University.

Dr Biswas retired as Deputy Director and Scientist & Head in January 2008 from National Environmental Engineering Research Institute (NEERI), Kolkata Zonal Laboratory.

His core area of expertise are Water and Wastewater Management, Air Quality Monitoring, Solid Waste Management, Environmental Impact Assessment, Water Quality Surveillance, Design and installation of Common Effluent Treatment Plant (CETP), Environmental Audit.

His experience includes the following:

- Design of Wastewater Management system for industrial township
- Planning and design of CETP for industrial area/ estate
- Environmental Impact Assessment
- Preparation of DPR on Municipal Solid Waste Management for urban local bodies
- Ambient air quality monitoring and assessment
- Water quality monitoring and assessment

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OUR TEAM (CONTD./-)



Shri Ratan Lal Basu
Technical Adviser

Mr. Ratan Lal Basu is a Chemical Engineer by profession. Shri Basu did B. Tech and M. Tech in Chemical Engineering from University College of Science & Technology (Calcutta University) after doing B. Sc (Hons) in Chemistry from Calcutta University. He is a professional technical expert having more than 30 years of experience in the field of process design, plant operation and technical services in Petroleum Refining Business. Shri Basu superannuated from Indian Oil Corporation Ltd. In March'2014 and worked with M.N. Dastur & Co. (P) Ltd. as Technical Consultant to Oil & Gas Division from September'2014 to August'2016. His USP is working experience in the high-end technical field besides long association with world renowned process licensors and many leading engineering consultants. The skills he could bring immediately to the job as advisor are:

1. Technology Selection.
2. Process Design.
3. Equipment Specification.
4. Energy Savings Projects.
5. Solution to technical problems.
6. Techno-commercial Feasibility Study.
7. Guide to Process Engineering team.
8. Faculty in Petroleum Refining Technology
9. Pinch Technology for heat exchanger network analysis.

During his service period with IOCL, Shri Basu served Gujarat Refinery (Baroda, Gujarat), Barauni Refinery (Bihar) and Haldia Refinery (West Bengal) of IOCL.



Mr. Debasish Ghosh
Technical Expert

Mr. Debasish Ghosh is a mechanical engineering graduate from Jadavpur University and a certified energy manager cum auditor (Certified by Bureau of Energy Efficiency). He has about 28 years of experience in maintenance and utilities function in process plants like Exide Industries Ltd, WIMCO Ltd, Philips India Ltd (Lamp Industry), Mangalam Timber MDF Plant, Merino Panel Products Ltd, Coca cola Soft Drinks bottling plant, Orient Beverage. Ghosh has 1.5 years' experience in Shyam Group of Industries (Integrated



Shri Amar Nath Pal
Technical Adviser

Mr. Amar Nath Pal is a Chemical Engineer. He holds B. Sc. (Hons.) in Chemistry and B. Tech in Chemical Engineering of University of Calcutta. Mr. Pal joined Indian Oil Corporation Limited (IOCL) in 1980 and served the organization for 35 years. He worked at various refineries in India namely, Barauni, Mathura, Guwahati and Haldia and also IOCL's Head Quarter at New Delhi in different capacities and in various functions like Operations, Technical, Services, Management Services, Business Development, Training and Development etc. During long professional association with IOCL, he was involved in Grass-Root Refinery Project in Process function i.e., preparation of FR / DFR etc., selection of Process Technology for the Refinery in association with Licensors. Mr. Pal worked as Deputy General Manager (Production) and was in-charge of Operations (Process Units, Oil movement & Storage, Effluent Treatment Plant Operation and maintenance etc.) at Haldia Refinery. He retired from Indian Oil Corporation Limited as Deputy General Manager (DGM) (Technical Services).



Mr. Pankaj Bikash Bhowmick
Technical Adviser

Mr. Pankaj Bikash Bhowmick is a Mechanical Engineer by profession. He holds Bachelor of Engineering (Mechanical) degree of Indian Institute of Technology (Roorkee). Mr. Bhowmick has long experience in integrated steel plants in India. He has 37 years of experience in Steel Authority of India Limited (SAIL). Mr. Bhowmick was posted in Bhilai Steel Plant, Durgapur Steel Plant and Growth Division of SAIL in Kolkata. At Bhilai Steel Plant and at SAIL's Growth Division he was involved in project management, product development, vendor development and manufacture of spares. He retired as Deputy General Manager (DGM) & In - charge, Environment Management Division (EMD) from Durgapur Steel Plant. During his tenure of 13 years as DGM, EMD of Durgapur Steel Plant he was responsible for day to day operation of entire effluent treatment plant of coke oven division successfully, air pollution control from SMS division, etc. and maintenance of effluent quality, stack emission quality and ambient air quality norms as laid down by the State Pollution Control Board.



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OUR TEAM (CONTD./-)



Mr. Dipankar Bhattacharyya
Technical Expert

Dipankar Bhattacharyya is a Mechanical Engineer by profession with about 40 years of experience in the domain of Engineering-Utilities-Textiles and Renewable energy. Dipankar commenced his professional carrier with M/S Guest Keen Williams Ltd an MNC where he was responsible for maintenance of machine tools-cold and hot forging machines-metal processing plants-heat treatment plants of fastener division. By his stint in Textile industries, he served as Chief Engineer in Ashima Group of industries (Gujarat), Raymond Textile (Maharashtra) and Rajasthan Spinning and Weaving Mills (Rajasthan). In textile industries his main contribution was Energy conservation. Pollution control in areas effluent treatment (ETP), emission from boiler and solid waste disposal was his passion. He successfully implemented ZLD in Raymond Yavatmal plant in

SECTORS

- Breweries
- Beverages
- Pulp & Paper
- Food processing
- Refinery
- Integrated Paint
- Sponge Iron
- Ferro Alloy
- Integrated Iron & Steel Industry
- Textile Processing
- STP for Real Estate
- ETP for Hospitals & Nursing Homes
- Urban Local Bodies

ONGOING PROJECTS

S. R. International Paper Mills Pvt. Ltd.

Planning, process engineering design, civil & structural engineering design and drawing of different unit operations including start up and stabilization of effluent treatment plant for a 150 ton per day capacity waste paper based Kraft paper mill of S. R. International Paper Mills Pvt. Ltd. located in North 24 Parganas district.