

## BASELINE STUDIES

Environmental Engineering Laboratory in MECON is equipped with several sophisticated equipment for baseline data generation and analysis. The major equipment available in the Laboratory are: HVS, RDS, Meteorological Equipment, AAS, GC, HPLC, UV-VIS Spectrophotometer, Mercury Analyser, Ion Analyser, CO Analyser. Analysis undertaken in the laboratory are: Air Quality, Water / Waste Water Quality, Solid Waste / Hazardous Waste Analysis, Soil analysis and Noise studies.

## SECTORS SERVED:

Steel	Cement
Mining	Pulp and Paper
Power	Chemical & Petro-chemicals
Nuclear	Inter State pipelines
Non-ferrous	Various other industries
Oil & Gas	Industrial townships and cities



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# MECON

IN ENVIRONMENTAL

# ENGINEERING

*We Care...*

**MECON LIMITED** is a premier design, engineering, consultancy and contracting organisation in India. Being the first consultancy organisation in the country to receive ISO 9001 : 2000 certification, the company has a large pool of 1650 highly qualified and experienced engineers and matching infrastructure facilities. Over the years, MECON has made rapid strides and grown into a multi-divisional and multi-locational company. With head office at Ranchi and presence in other major cities spread all over India, MECON has placed highest emphasis on serving the customers effectively by taking service to their door-steps. Besides metallurgical projects, the organisation has been a pioneer in acquiring and assimilating state-of-the art technologies for various sectors of Indian Industry. Internationally MECON has made its presence felt by providing quality design, engineering and consultancy services for a number of projects in different countries. The company is registered with World Bank, Asian Development Bank, African Development Bank and UNIDO. MECON's corporate profile is available at URL <http://www.mecon.co.in>



### ENVIRONMENTAL ENGINEERING IN MECON

MECON's Environmental Engineering Division is a multi-disciplinary group of engineers, specialists and scientists whose services are backed by a sophisticated Environmental Engineering Laboratory. The laboratory is recognized by the Ministry of Environment & Forests, Government of India, Central Pollution control Board and several State Pollution Control Boards. It is also recognized as a place of R & D activities by industries, statutory bodies and educational institutes. MECON engineers and scientists have had wide exposure & training in advanced countries like UK, Japan, CIS countries, Germany, Korea, Singapore and Indonesia.

Environmental Engineering Division provide services from conceptualisation to commissioning of sewage and industrial waste water treatment plants, air pollution control systems, storm water drainage system, pumping stations and environment management services (EMS) covering generation of baseline data, different environmental monitoring and studies. The area of services include:

#### EMS

- Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) studies
- Safety audit, risk analysis, HAZOP & HAZAN studies, Disaster Management Plan
- Facilitation services for ISO 14001 / OSHAS 18001 accreditation
- Environmental audit
- Performance audit of waste water treatment plants & air pollution control systems
- Clean Development Mechanism (CDM)
- Baseline data generation
- Socio-economic and demographic studies
- Land use studies
- Environmental Zoning studies
- Aquatic (including marine) and terrestrial Ecological studies
- Bio-monitoring studies
- Hydro-geological studies
- Treatability studies
- Waste minimisation studies.
- Evaluation of Afforestation projects
- River monitoring and management studies
- Carrying capacity based sustainable development studies including Regional EIA/EMP studies
- Simulation of dispersal of pollutants and study of pollutant concentration in air & water
- Participating with statutory bodies in formulation of environmental standards for various industries
- Prediction of mine subsidence assessing impacts and their management
- Training, Research & Development

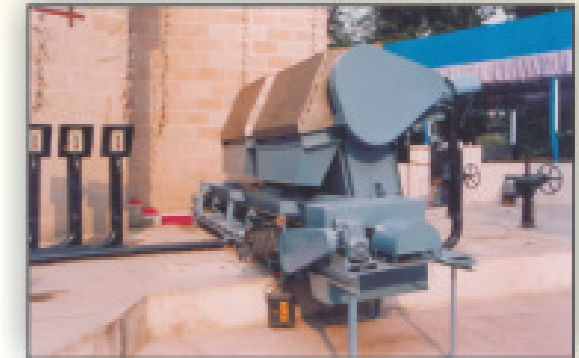
### DESIGN, ENGINEERING AND SUPPLY

- Sanitary sewerage system, sewage treatment plants and industrial waste water treatment plants
- Storm water drainage system and pumping stations
- Hazardous waste disposal, slime and solid waste disposal.
- Rain Water harvesting
- Incineration Systems
- Modification and revamping / retrofitting of existing pollution control systems
- Air, Water & Noise pollution control systems,



### MECON undertakes:

Market survey, Feasibility report, Detailed project report, Basic engineering, Detailed engineering, tendering, scrutiny of offers, procurement, Inspection services, Erection & Commissioning supervision, turnkey execution including operation & maintenance, Supply of complete systems, Revamping & retrofitting of existing pollution control systems, treatability studies and performance evaluation of pollution control systems.



### CLEAN DEVELOPMENT MECHANISM (CDM)

MECON'S technological base and innovative approach offers long term sustainable solutions covering Clean Development Mechanism (CDM) to reduce Green House Gas (GHG) emission by cooperative implementation mechanism through trading of CERs amongst Annex 1 and Non-Annex nations.



### ENVIRONMENT MONITORING

MECON undertakes environmental monitoring work for:

- Ambient Air Quality
- Water, Ground water and Waste Water sampling and analysis
- Soil sampling and analysis
- Noise level measurement
- Isokinetic stack sampling
- Meteorological measurement
- Ecological studies
- Socio-economic studies
- Land use studies
- Hydro-geological studies

