

Environment Auditing

SPECTRO ANALYTICAL LABS LTD. - is one of the leading laboratories in this region, which possesses the broadest range of environmental testing facilities. Founded in the year 1995 as the first independent spectrometer laboratory in Delhi, it is now well-diversified setup, analyzing a wide range of materials for more the 12000 customers in various sectors of industry, government and inspection agencies.

SPECTRO has ISO 17025 accreditation in four fields. i.e. Chemical, Mechanical, NDT and Biological testing.



Environmental auditing is a management tool to objectively and systematically evaluates environment management systems with the following objectives:

- Waste prevention and reduction
- Assessing compliance with regulatory requirements.
- Placing environmental information in the public domain.

Compliance with the regulatory norms, through adoption of clean technologies and improvement in management practices for prevention and control of pollution is not only mandatory but also has got wide acceptance among the industrial community.



SCOPES: -

Energy

- Auditing of Energy Consumption (heat and power generated).
- Work place inspection (physical conditions, its processes, occupancy time, variations in ambient temperature and energy consumption pattern etc.)
- Energy flow pattern (heating equipment, refrigeration, etc.)
- Analysis and appraisal of energy usage. (e.g. specific fuel consumption, energy-product interrelationship).
- Energy management procedures and methodology by the golden method "REDUCE, REUSE, and RECYCLE".
- Identification of energy improvement opportunities.
- Recommendations for energy efficiency measures.
- Quantification of implementation costs and paybacks.
- Identification of usages of co-generation and renewable sources of energy.

SOLID WASTE

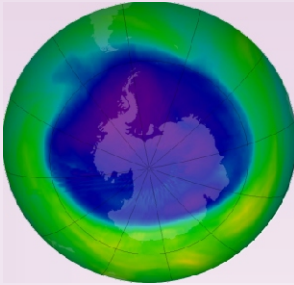
- Inspect types and amounts of waste produced
- Identify sources of waste generation.
- Detect inefficient waste disposal or treatment.
- Assess department layout and working pattern.
- Assess existing space and equipment for treatment, recycling & storage.
- Assess current waste reduction efforts.
- Observe that waste-monitoring team is effective in work.
- Questionnaire to officials for additional information.

NOISE

- Sources of noise.
- Did employee noise exposure changed (sound level meter survey)?
- Is hearing protection appropriate.
- Is hearing protective devices worn properly.
- Are employees satisfied with protection?

Ambient

- Walk through inspection of site and traffic.
- Performance of questionnaire & sampling of RSPM, SPM, NO_x, SO₂



Water

- Mass balance across the entire water system.
- Quantification of water loss at each of above mentioned area.
- Accounting for daily consumption of incoming water.
- Suggestion for "reuse, recycling & reduction" of water consumption with cost benefit analysis & required investment will be given.



Our proficiency

- Environmental Consultancy.
- R&D, Documentation for ISO 9001: 2000, 14001.
- Risk Management, Fire & Safety, and Hazard Analysis.
- EIA/EMP Studies.
- Baseline Data Generation.
- Initial Environmental Examination.
- Environmental Performance Studies.
- ETP Design, Operation & Maintenance, Performance Evaluation, and Testing.
- Monitoring & Analysis of Water, Effluents, Soil, Solid Waste & Hazardous Waste.
- Monitoring & Analysis of Ambient Air Quality, Indoor Air Quality, Noise & stack.

Our proficiency in waste management

- Identify sources of waste generation.
- Cause and variance in the waste generation pattern.
- Identify means to reduce waste generation at source.
- Identify potential areas of reuse, recycle of the wastes - Onsite / Offsite applications Identify potential recovery of resources.
- Auditing of existing Environment Management Infrastructure.
- Technical advise for solid & hazardous waste management.
- Develop alternate /optimum treatment schemes.
- Identify potential reuse of the treated resources.

Sectors Served By Spectro: -

- Hydroelectric Projects
- Airport
- Construction Projects
- Industries
- Office Environment
- Hotel and Resorts
- Roads and Highway Projects
- Municipal solid waste management
- Metro Rail
- Infrastructure Development Projects (Land craft, Institutions, Town-ships, Shopping Mall)

Our Accreditation: -

- N A B L per ISO 17025
- ISO per 9001: 2000
- Ministry of Environment & Forest
- State Pollution Control Boards (Orissa, Haryana, HP)
- NPC (Environment Division)
- WAPCOS
- Bureau of Indian Standards
- R I T E S
- Rail Tel Corporation of India
- Airports Authority of India
- Director General of Civil Aviation
- Delhi Metro Rail Corporation Ltd
- R. D. S.O
- World Food Programme
- Bureau Verities
- D G S&D
- G A I L

Spectro In Country: -

- Himachal Pradesh
- Delhi NCR
- Uttaranchal
- Haryana
- Uttar Pradesh
- Madhya Pradesh
- Chhatisgarh
- Jharkhand
- Rajasthan
- Jammu & Kashmir
- Punjab
- Assam
- West Bengal

Spectro In Himachal Pradesh: -

- EMP for Jakhu Mandir Ropeway Project, Shimla for Jagson International limited, New Delhi.
- Stack Emission Analysis of HEM equipments for NHPC, Chamera Power Station Chamba.
- Solid Waste Management at Shimla (H P) for Municipal Corporation Aug 6 (NPC Sub-Contract)Ø EIA/EMP for Sainj Hydroelectric Project for Himachal Pradesh State Electricity Board (WAPCOS Sub-Contract) Feb 07
- Env. Monitoring at Chamba for NHPC (HCC Sub-Contract) at Chamera HEP Annual Monitoring (2007-2008, 2008-2009).
- ISO 14000 Compliance Monitoring at Apar Industries Ltd., Nalagarh May 2007.
- EIA/EMP for Kiarighat, Shimla for Hydroelectric Project Himachal Pradesh State Electricity Board (SENES Consultants (P) Ltd. Sub Contract).
- Water Analysis of ETP for S. S. Industries, Nalagarh.

Our Clients: -

- Water And Power Consultancy Services
- National Productivity Council
- Delhi Metro Rail Corporation
- Airport Authority of India Ltd.
- Hindustan Construction Co. Limited
- Indian Oil Corporation Limited, AOD, DIGBOI
- National Fertilizers Limited
- Asian Development Bank
- Embassy of Republic of Poland
- Senes Consultants Pvt. Ltd
- Delhi International Airport Pvt. Ltd.
- Span Consultants Pvt. Ltd
- Arrow Energy Inc.
- Geopetrol Inc.
- IL & FS
- Ramky Infra Consulting
- Chilworth Health and Safety
- KLG Envirosafety
- Asian Consulting Engineers
- C P Consultants
- AET Consultants
- N H Consulting



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