INDUSTRIAL HYGIENE SERVICES

- Survey of:
  - Vibration
  - Noise & Mapping
  - Illumination
  - Asbestos Containing Material (ACM)
  - Volatile Organic Compounds (VOC)
  - Hazardous Substances

- Indoor Air Quality
- Workplace Monitoring
- Personal Monitoring
- Ergonomics Assessment
- OHS Training
- Drinking Water Analysis
- Chemical Exposure Assessment

Industrial Hygiene Services Division

GREEN CIRCLE CONSULTANTS (I) PVT. LTD.

(An ISO 9001:2008 Certified company)
Integrated HSEQR Consulting Engineers, Scientists & Trainers

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ABOUT US

Green Circle Consultants (I) Pvt. Ltd. (GCCIPL) offers complete range of Industrial Hygiene Services covering the anticipation, identification, evaluation and control of hazards in the workplace.

We are also leading Consulting Engineers in diverse field of Environment, Safety, Health & Hygiene, Risk - Engineering & Quality Systems, having Business Operations in India, Middle East, Far East & Africa.

GCCIPL has staff of qualified professionals provide Industrial Hygiene and Safety Services to a wide range of industrial, educational, health care, commercial and government clients throughout India. Our highly experienced & motivated team members are committed to supporting our client base. Their experience, expertise & dedication ensure that GCCIPL can identify the problems of clients & can compete successfully with large international companies whilst retaining the ability to provide & sustain out close working relationship with clients remaining flexible & continuing to offer a high level of customer service.


INDUSTRIAL HYGIENE SERVICES

“Industrial Hygiene is science and art devoted to the anticipation, recognition, evaluation and control of factors and stress arising in or from the workplaces which may cause sickness, impaired health and well being or significant discomfort and inefficiency among workers or among the citizens of a community”

During working, employee gets exposed to many different types of HEALTH hazards. Protecting employees from adverse health effects due to chemical, biological and physical health hazards becomes very much important business as it is directly related to productivity and profitability of organization.
Our Services

We provide a wide range of Safety and Industrial Hygiene (IH) Services, including the basic categories listed below.

- Air Sampling / Occupational Exposure Assessments / Chemical Exposure & Risk Assessment
- OHS Risk Assessment
- Noise Monitoring & Assessments
- Illumination Survey
- Vibration Survey (WB & Hand)
- Ventilation Survey
- Indoor Air Quality Investigations, Monitoring & Testing
- Heat Stress Monitoring
- Health and Hygiene Training Programs
- Manual Handling-Risk Assessment
- Asbestos Survey / ACM Survey
- Hazardous Substance Survey (Lead, Mercury, PCB)

Other Core Services

HSEQR Consulting, Laboratory & Training Services Offered

- Environmental Clearances – Industrial, Infra & CRZ (MoEF / SEAC / SEIAA)
- Environmental Impact Assessment & EMP
- Environment Due Diligence
- Environment Site Assessment (Level I & II)
- Environmental Monitoring & Analysis
- Feasibility & Treatability Study
- Rain Water Harvesting & Water Audit
- ETP / STP Turnkey Solutions, O & M Annual Contracts
- HAZOP, HAZOP, HAZAN & Job Safety Analysis (JSA)
- HSE System Gap Assessment & Industrial Hygiene
- Process Hazard Analysis, HAZOP / PSM & RMP / SIL Classification, verification / LOPA
- Safety Report, Risk Analysis / Assessment & QRA
- On-site & Off-site Emergency Plan, DMP & Mock Drill
- Environmental & Safety Management In-plant Training
- ISO 9001, 14001, OHSAS 18001 – Consultancy & Training
- Fire Risk Assessment (FRA) & Fire Audit
- Electrical Safety Audit & Static Survey
- Hazardous Area Classification (HAC)
- Arc Flash Analysis
- Short Circuit Risk Assessment
INDUSTRIAL HYGIENE SERVICES

Health Hygiene & Safety Audit

- The industrial hygiene team provides facility audits to assess compliance with International (OSHA) and employer standards.
- Written programs, work practices, record keeping, employee behavior and work environments are evaluated to assess program status.
- Hazard assessments are provided to identify and measure risks to aid in resource allocation proportional to the hazard. Assessments can vary in depth and scope, depending on site.

Air Sampling / Occupational Exposure Assessments / Chemical Exposure & Risk Assessment

- Air sampling analysis can be either Ambient Air Sampling or Personal Air Sampling.
- Air testing for specific compounds is an investigative tool used to characterize the nature and extent of contaminants in air and to determine whether contaminant sources affect indoor air quality.
- Form no. 37 of Factories Act, 1948 for Ambient Air Monitoring. The standard limit for exposure of total dust is 10 mg/m³ given in the Factories Act, 1948.

Noise Monitoring & Mapping

- Chronic noise exposure in the workplace can lead to employee hearing loss. Operations more likely to have chronic noise exposure include printing, metal working, welding, woodworking, food processing, textiles, stone working, glass manufacturing, and chemical processing. A noise assessment is warranted when two people standing in a work environment have difficulty carrying on a conversation.
- GCCIPL can conduct noise monitoring and compliance checks as well as assist in the development and implementation of a hearing conservation program as per Factories Act, 1948 & Environmental Protection Act, 1986.
In the Factories Act, 1948 ‘Noise Induced Hearing Loss’ (exposure to high noise level) is included as a notifiable occupational disease.

- **Illumination Survey**
  - A method adopted to evaluate the technical performance or evaluating the efficiency of the existing lightning fixtures installed in the workplace and to compare it with the existing standards.
  - Its purpose is to reduce the eye related problems and accidents by providing better illumination at the workplace during the work activities.
  - GCCIPL carry out Illumination Survey as per the Indian Standard for Illumination level IS 6665, IS 3646 & Factories Act, 1948.

- **Vibration Survey**
  - Vibrations are of two types – Whole Body Vibration and Hand Arm Vibration.
  - Effect on human body is due to frequency, amplitude and duration of exposure.
  - Effects of vibration are feeling of displacement, giddiness, sickness, vibration disease and sometime fatal.
  - GCCIPL carry out Vibration survey for machine Vibration & for Health effects on human body.

- **Ventilation Survey**
  - A Ventilation Survey is an organized procedure of acquiring data that quantify the distributions of airflow, pressure and air quality.
  - GCCIPL carry out Ventilation Survey as per ASHRAE 2004.
**Indoor Air Quality**

- Office occupants frequently complain of general symptoms potentially related to indoor air quality that include headache, fatigue, dryness and nausea. These discomfort symptoms may relate to inadequate fresh air, but could also stem from personal health conditions or stress.
- Indoor Air Quality (IAQ) assessments assist companies in identifying true building-related air quality problems and resolution.
- These surveys are a specialized type of Industrial Hygiene survey, and can be performed in offices, other non-industrial occupancies and industrial settings.
- GCCIPL carry out Indoor Air Quality Monitoring with determination of indoor pollutants such as airborne microorganisms, particulate matter, VOC’s, formaldehyde and others.

**Heat Stress Monitoring**

- Workers exposed to hot working environments can be susceptible to heat stress, when the core temperature of the body rises to dangerous or hazardous levels. This can result in psychological symptoms like heat cramps, nausea, palpitations, stroke and even ultimately death. The overall estimation of heat stress levels on the body can be measured.
- Heat stress monitoring can be done as area heat stress monitoring or personal heat stress monitoring.
- Heat stress monitoring will focus on how to control atmospheric conditions so that varying effects on workers can be reduced to a minimum.

**Industrial Hygiene Training Program**

We offer proven Industrial Hygiene Management Training Programs that can improve Industrial Hygiene Management Rating high, in turn it would lead to better & effective management of Environment, Health & Safety, further it would increase competitiveness, boost business performance and build a positive reputation. The training programs are so designed to help the management to reduce losses, improve production, save time & money.
MONITORING INSTRUMENTS

GCC IPL is having following monitoring instruments to conduct various Industrial Hygiene Survey:

- Noise Meter & Data Logger
- Lux Meter
- Anemometer
- Vibration Monitor

GCC IPL is also having full established Environmental Monitoring and Analysis Laboratory recognized by Ministry of Environment & Forest (MoEF), New Delhi, India and currently NABL, ISO 17025 accreditation is in progress.

OUR SELECTIVE CLIENTS

- Reliance Life sciences Ltd, Navi Mumbai
- Reliance Industries Ltd., Allahabad
- Reliance Industries Limited, Jamnagar
- Reliance Gas Transportation Infrastructure Ltd., Kalyan & Bharuch
- Biotor Industries Ltd, Vadodara
- Torrent Pharmaceuticals Ltd., Ahmedabad
- Torrent Pharmaceuticals Ltd., Baddi
- Apollo Tyres Ltd.
- Indian Oil Corporation Limited, Radhanpur
- Asian Paints Ltd., Ankleshwar
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