



# ENVIRONMENTAL SERVICES

## Sustainability Services

### Leaders in Risk engineering and EHS solutions

Sustainability has increasingly become an important aspect of a rapidly growing economic development. Sustainable use of resources while conserving the environment and energy is an essential component of “Sustainable Operations” of the organization. Achieving such goals in highly fluctuating markets and multidimensional societies such as Asia is further more challenging. Therefore a meticulously developed “Need Based Sustainability Management Plan (NBSM Plan)” is a critical component of our - “Ingredients of Success for an Assured Future” Program.

Being a NABET accredited environmental consulting organization for thermal power plants, cement plants, ports and harbour sector, petroleum refinery, petrochemical operations etc, Chola MS Risk Services has helped many corporate houses in developing strategic environmental management plans, corporate social responsibility programs and water management initiatives. Our 180 plus multidisciplinary environmental, safety, ecology and socioeconomic experts have been addressing various safety, environment, ecological, resource conservation and corporate social responsibility initiatives of our 1000 plus prestigious clients in India and the Middle East.

### Level 1 Program

Our sustainability champions will undertake detailed reviews on the organization wide operations and will interact with all leadership teams across the sites and operations to establish stake-holders mapping for defining the scope of “**Sustainability Frame of Work**”.

For establishing a “**Need Based Sustainability Frame of work**” based on the cost benefit analysis methods various components such as environment, energy, occupational health, labour and workforce, contractors & vendors, people & community etc will be covered under the baseline studies.

A baseline strategic plan with an implementation plan will be developed. Few work-shops with the leadership teams of the organization **will be undertaken to conceptualize the “Strategic Document”**.

### Level 2 Program

Having developed “Need Based Sustainability Frame of work”, we will partner with you in **implementing various sustainability initiatives** to meet the corporate specific goals and targets.

Recognizing the social responsibility and identification of stakeholders is a cardinal aspect of sustainability frame of work. We will undertake series of work-shops at various levels of the organizational functions and also registered vendors and service providers to communicate effectively the corporate sustainability objectives and goals.

**We will help in implementing various sustainability programs such as “Human Rights”, “Fair Operating Practices”, “Labour Practices”, “Environmental Protection and Conservation including energy management”, “Stakeholders engagement” and “Community Development Programs under Corporate Social Responsibility as per Corporate Law 2014, Govt. of India”**. Our ISO 26000 lead auditors and certified Global Reporting Initiative (GRI) practitioners will help you in establishing the documents and reporting procedures.

### Level 3 Program

We **partner with you in cultural transformation** both within the organization and the upstream and down-stream supply and value chain stakeholders.

Our certified safety, environment and socio-economic auditors can help in undertaking periodical reviews of the sustainability management programs and provide guidance on re-orientation of the schemes and programs based on the changing economic and social needs in the specific regions of operation.

## Our core value added services under sustainability programs include



### **Water footprint assessment and water management**

- Our environmental engineers, hydrologists and hydro-geologists can help you in establishing and achieving water management goals and targets through the following capabilities:

- Assessing the regional water shed mapping, shared resources status, threats and vulnerability of water resources in the region.
- Impact of climate change on water resources for the facility, establishing blue and grey water footprint.
- Undertaking detailed water flow measurements, water leak estimations, developing detailed water balance diagrams, suggesting water conservation measures.
- Comprehensive analysis of wastewater recycling and zero liquid discharge programs, wastewater treatment plant diagnostic monitoring and engineering, detailed technical feasibility studies of storm water recharge and harvesting programs.



### **Energy management, conservation and carbon footprint assessment**

- Our mechanical, electrical and environmental engineers can help you in:

- Energy audits and establishing the energy footprint.
- Identifying energy conservation opportunities in thermal energy use, steam utilization, compressed air systems, energy generation and production.
- Effective implementation of anaerobic processes for methane generation and conservation of fuels in process industries, paper and pulp and food processing industries etc.
- Developing pre-feasibility reports for Greenhouse Mitigation programs and renewal energy programs.
- Implementing ISO 50001 Energy Management standards.



### **Need based Community Development Programs and Stakeholder's Engagement**

- According to Sec.135 of Companies Act 2013, Corporate Social Responsibility had become mandatory in India with effect from April 1 2014. Our certified and trained social experts in ISO 26000 have the

experience of having worked on over 40 such prestigious projects for top Corporate houses in India.

- Need Based CSR Development Plan, CSR Advisory and Planning Services.
- CSR Audit and Benchmarking Studies.
- Stakeholder Engagement and Training and Capacity Building.



### **Occupational Health and Industrial Hygiene**

- Having more than 20 years of experience in safety engineering management and activities, we offer the best outcomes through the following services:

- Review of the MSDS, process and critical toxic materials and substances, physical exposure pathways (dermal, respiratory and ingestion modes) for major chemical storage, processing and handling operations.
- Review of the adequacy of machine ventilation, task and room ventilation based on BOX model analysis (as per the HSE UK guidelines - Controlling airborne contaminants at work, HSG258).
- Review of selection and adequacy of the respiratory systems (based on exposure index method) (as per the HSE UK guidelines - Respiratory protective equipment at work, HSG53).
- Review and identification of critical operations of concerns for agronomical aspects (as per the HSE UK guidelines).
- Development of an inspection tool for manual handling risk assessment (HSL/2002/30), identifying the areas of concerns, submitting gap analysis report and action plan report.
- Field sampling of VOC using sorbent tube method as per CPCB guidelines.
- Field monitoring of room air changes using wind vane meter and Tyndall light effect method as per HSE UK guidelines, Light Lux levels measurements.
- Estimation of thermal stress levels based on HSE UK guidelines INDG451.
- Developing worker health risk exposure levels (estimating the risk) based on HSE UK guidelines.
- Developing a detailed work plan for reducing the risks, if any, and developing a preliminary bill of quantities for the proposed measures.



### **Training & Development programs**

- We help clients in understanding the process of setting up need based goals and strategies for their operations. Our experienced experts have been imparting training on setting up of sustainable goals, various reporting procedures, stakeholder's engagement, methods of monitoring for harnessing the short-term and long-term benefits of the sustainability management initiatives etc.

