



emc



national roots

international
experience

800+ projects

18+ geographies

Environmental Management Centre Pvt. Ltd. (EMC) is a **strategic management consulting** company established by **Dr Prasad Modak** in 1996.

Over the past **29 years**, the organization has positioned itself as a niche player in **environmental management consulting** on a **global basis**.

Practising **our mission**
Sustainability
to the advantage of all™

about EMC

Our services are **strategic, knowledge driven**, and supported through **research**. In all our assignments, we harmonize **economic, environmental, and social considerations** into **business logic, development plans** and **policy frameworks**. Capacity building is addressed in all our services to ensure sustainability and effectiveness of solutions we provide.

We blend our **international experience** with the **national context** to provide solutions that are **contemporary** and **future ready**. Over the past decades, we have conceived, developed, and executed several national, regional, and international assignments that have set several '**firsts**'. Many have stimulated action leading to policy reforms, sustainable investments, and long-term capacity building.

why us

- **Multidisciplinary** core team
- **Core team** supported by **Associates** located across the globe representing varied skill sets and experience
- Network with **international institutions** of repute and partnerships with **industry and trade associations** as well as **universities/educational institutions**
- **Quality Management System** implemented in the company
- An **illustrious advisory board** for strategic direction

OUR focus areas & services



Environmental and Social Impact Assessment (ESIA)

We offer ESIA services that not only address the impacts/risks in the project life cycle but also add value to the project by ensuring environmental sustainability, social acceptability as well as effectiveness. Tools such as advanced geoinformatics, remote sensing, modelling and data analytics and stakeholder consultation are used.

Major outcomes of these assessments are the environmental and social impact/risk management plans (ESMP) that follow the hierarchy of avoidance, prevention, mitigation, compensation, restoration and enhancement. These plans include creation/strengthening of physical assets for protection, treatment, and conservation with monitoring, reporting, and grievance redress mechanism. Capacity building forms an important element of the ESMPs.

Apart from project based ESIA, we conduct policy and programmatic ESIA and also conduct impact assessments for investments made by funds in accordance with IRIS+.

Services:

- Environmental and Social Impact/Risk Assessment (including desk based screening and scoping)
- Policy and Programmatic Impact Assessments
- Portfolio Impact Assessment of Funds
- Environmental Site Assessment
- Biodiversity Impact Assessment
- Bird-Bat Assessment
- Critical Habitat Assessment
- Shadow Flicker and Noise Modelling (for Wind Farms)
- Air and Water Quality Modelling
- Hazard Assessment
- Resettlement and Rehabilitation Action Plan with Livelihood Restoration and Enhancement
- Construction Environmental and Social Action Plan
- Stakeholder Engagement Plan
- Gender Action Plan



Environmental, Social, and Governance Management Systems (ESGMS)

We consider Environmental, Social, and Governance Management Systems (ESGMS) as a framework to deliver the ESG policy into practice by defining processes, procedures and practice guidance. We help establish management systems per international standards such as IFC PS and other applicable Good International Industry Practices (GIIPs) to build documentation and internal capacity of human resources for continued conformance.

When multiple investors are involved, we harmonize their ESG frameworks to arrive at a reference framework that will guide the ESGMS. When organization has an Integrated Management System (IMS), we structure the ESGMS to build on the IMS and provide strategic inputs and guidance while the IMS ensures that the E&S impacts/ risks are addressed in the operations providing feedback to the reporting module of the ESGMS.

Services:

- Development of Environmental, Social, and Governance Policy
- Development of ESGMS with process, procedures and tools with relevant formats
- Implementation Support for ESGMS including training and capacity building
- ESGMS Implementation Audit and Improvement



Environmental, Social, and Governance Due Diligence (ESGDD)

We conduct Due Diligence (DD) for achieving legal compliance as well as for meeting investor requirements. We focus on impacts/risks not just within the facility but if required expand the scope to address security of natural resources as well to assess red flags in the supply chains. The DDs typically include environmental, social, health, safety, and labour welfare related aspects including the gender (2X) considerations. The reference frameworks used for ESGDDs include IFC performance standards, World Bank General and Sector-specific EHS Guidelines, and other Good International Industry Practices (GIIPs) apart from national, state, and local regulations.

Services:

- ESGDD for M&A, Equity/Debt, Exit as required by Financial Institutions
- Fire and Safety Audit
- Supply Chain Audit
- Monitoring of Environmental and Social Action Plans (ESAPs)

our focus areas & services



Climate and Carbon Advisory

We help organizations in GHG inventorization (Scope 1, 2, and 3) based on ISO14064 and GHG protocol. We assist in setting Science-based Targets (SBTi) and accordingly develop decarbonization plan with an optimal mix of strategies covering internal (e.g., alternate fuels, energy efficiency measures) and external options (e.g., purchase of green power, carbon credits and carbon doing sequestration). In addition, we assist organizations for reporting on Carbon Disclosure Project (CDP).

We specialize in conducting climate change vulnerability/risk assessments and preparing climate change adaptation strategies along with cost-benefit analyses. Additionally, we offer assessment of physical and transitional climate change related risks in line with Taskforce on Climate-related Financial Disclosures (TCFD).

Services:

- GHG Inventorization (Scope 1, 2, and 3) and Hot spotting
- Assessing Carbon Sequestration Potential
- Decarbonization Plan with Science-based Target Initiative (SBTi)
- CDP Reporting
- Climate Risk Assessment of Physical Assets, Cities and Coastal Areas and Preparation of Climate Action Plans
- Adaptation Planning (with cost-benefit analyses)
- Physical and Transitional Climate Change Risk Assessments based on Task force on Climate-related Financial Disclosures (TCFD)



Resource Efficiency, Circular Economy, and Life Cycle Assessment

We engage and collaborate with governments, corporates, industry associations, academic institutions, and think tanks to guide and accelerate the transition to a Circular Economy (CE). Guidance and support is provided for the design of policies and preparation of strategic action plans and build roadmaps on CE with appropriate metrics for monitoring, tracking, and reporting circularity. We were engaged by NITI Aayog to prepare strategic action plan on Resource Efficiency (RE) towards CE through interactions with 11 line ministries.

Our team has vast experience and expertise in conducting comprehensive Resource Efficient Cleaner Production (RECP) Opportunity Assessments in nearly 1000 enterprises in South and Central Asia in various industry sectors. The approach involves developing a baseline to identify potential for resource efficiency and waste reduction, with priority on low/no cost interventions. Actions also include capacity building, technology matchmaking for Energy Efficiency (EE), emission reduction and guidance on transitioning to renewable energy.

We specializes in the conduct of Life Cycle Assessments (LCA) to develop circular, low carbon and sustainable product and packaging design. We assist in formulating criteria and strategies for circular sourcing and sustainable procurement. We facilitate in communicating circular, low carbon, and sustainable products and services and guide organizations in implementation of Extended Producer Responsibility (EPR).

Services:

- Designing Circular Economy Action Plans, Roadmaps and Strategies for Corporates, national and sub-national Governments
- Identifying opportunities for mainstreaming Circularity in Businesses
- Fostering Innovation and Accelerating Circular Business Models
- Providing technical guidance on designing sustainable models for Common Circular Infrastructure to manage different waste streams (MSW, E-waste, Plastic Waste)
- Facilitating design and implementation of Extended Producer Responsibility (EPR) programs
- Developing Circularity Metrics
- Opportunity Assessment with Cost-Benefit Analyses for Resource Efficient Cleaner Production (RECP)
- Energy Audit
- Water Audit
- Waste Audit
- Chemical Audit
- Material Flow Analysis
- Life Cycle Assessment (LCA) (for product and packaging) for low carbon, circular and sustainable designs



Sustainability

We help in ESG road-mapping, guided by ESG policy and development of ESG metrics supported by sustainability communication. Our approach has been unique following the process of co-creation that simultaneously builds internal capacities. We thus achieve mainstreaming sustainability by helping in building stewardship of the organization towards the SDGs while addressing the business goals. Practicing Sustainability to the Advantage of All is our mission statement.

We assist in the development of internal and external communication and marketing strategies on sustainability. Our expertise lies in uncovering or deciphering "sustainability" to material gains or building a brand or making the organization future ready.

We have developed methodologies to assess organization's sustainability literacy and maturity to come up with customized sustainability action plans. In addition, we have the experience to prepare strategic sustainability action plans at national and sub-national levels and also for urban areas. Eco-city Sangli in Maharashtra, Green City Melaka in Malaysia, Strategic Action Plans for the States of Maharashtra and Uttarakhand and Multisectoral Action Plan for Sustainable Plastic Management in Bangladesh are some of the examples.

Services:

- ESG Policy Design and ESG Action Plan or Roadmap
- Conduct of Materiality Assessment
- Preparing Programmatic Environmental & Social Action Plan (ESAP)
- Developing ESG/ Sustainable Development Goals (SDG) Metrics
- ESG Disclosures and Reporting using international reporting initiatives including the Global Reporting Initiative (GRI) and the Dow Jones Sustainability Index (DJSI)
- Preparation of Business Responsibility and Sustainability Report (BRSR)
- Designing and implementing Supplier Code of Conduct and Sustainable Procurement Policies
- Advisory on Strategic Corporate Social Responsibility (CSR)
- Sustainability Communication and Sustainability Marketing
- Sustainability Data Analytics, Creation of Scorecards, and Dashboards
- Assessing Sustainability Literacy and Maturity (Individuals, Organizations)
- Sustainability Awareness and Capacity Building
- Developing State level, Regional and City level Sustainability Action Plans

Our sector experience



Agri tech and agri value chain



Financial institutions



Food processing



General manufacturing



Healthcare



Hospitality



Infrastructure



Packaging



Petrochemical



Pharmaceutical



Ports



Real estate



Renewable energy



Thermal power plants



Transport and logistics



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