

# SIES Indian Institute Of Environment Management



**DEDICATED TO ENVIRONMENT MANAGEMENT THROUGH R & D AND OUTREACH ACTIVITIES**

## ABOUT SIES IEM

- SIES IEM was established in 1999. It has been contributing in the fields of R&D activities and Academics in the areas of Environment Management and Biotechnology.
- IEM is recognized by Department of Scientific and Industrial Research for research activities and has successfully completed various research projects with funding from DST, BRNS, DBT, ICMR, MOEFCC, MMREIS and several other agencies.
- IEM also conducts consultancy services, organizing seminars, workshop and providing community service through research and creating awareness.



## INFRASTRUCTURE AND FACILITIES

- State of Art Facilities to conduct R & D and consultancy in the areas of Environmental Science and Management.
- Laboratories are equipped with the advanced equipments (HPLC, AAS, GC, HVS etc.)

## CONSULTANCY SERVICES

### GREEN MANAGEMENT

#### Environmental Monitoring and Analysis

- Water, Soil, Air, Waste
- Eco-toxicity studies

#### Conservation of Resources and Biodiversity

- Eco restoration of Resources
- Biodiversity mapping and indexing

#### Waste Management

- Wastewater management for zero discharge
- Solid waste management
- Industrial sludge management
- E- waste management

Expertise in:

- Advanced oxidation processes
- Aerobic and anaerobic processes
- Bio- and phyto- remediation

#### EIA and Sustainability Solutions for Mitigation of Climate Change Vulnerability

#### GIS based Environmental Planning and Management

- Natural resource mapping
- Groundwater recharge study
- Site selection

### GREEN COMMUNICATION

#### Providing CSR Solutions for Environment and Society

- Environmental Education
- Training and Awareness programme
- Water audit and energy audit
- Carbon footprint mapping
- Capacity building
- R&D proposals and report writing
- Events – workshops, seminars and conferences

# MAJOR AREAS OF R&D

Areas of Research	Specific Areas
<b>1. Total Water Management</b>	<ol style="list-style-type: none"><li>1. Purification of drinking water by using low cost techniques.</li><li>2. Management of nitrite contaminated wastewater</li><li>3. Textile wastewater management.</li><li>4. Phytoremediation.</li><li>5. Oil spill management by biosurfactants.</li><li>6. Management of brine generated from water purification technologies.</li><li>7. Assessment and management of marine pollution</li></ol>
<b>2. Solid Waste Management</b>	<ol style="list-style-type: none"><li>1. Management of industrial waste.</li><li>2. Management of MSW and other solid wastes.</li><li>3. Management of agro- residue.</li></ol>
<b>3. Applied Biotechnology</b>	<ol style="list-style-type: none"><li>1. Utilization of biofertilizers and biopesticides in soil fertility management and agriculture.</li><li>2. Exploitation of beneficial microorganisms in remediation of heavy metals, oil pollution etc.</li></ol>
<b>3. Management of Natural Resources</b>	<ol style="list-style-type: none"><li>1. Pollution monitoring and management</li><li>2. Ecorestoration.</li><li>3. Studies on Climate Change.</li><li>4. Biodiversity Studies.</li><li>5. GIS &amp; Remote Sensing</li></ol>

## MAJOR FUNDING AGENCIES

- Ministry of Environment Forest and Climate Change
- Department of Science and Technology
- Department of Biotechnology
- Board of Research in Nuclear Sciences
- Indian Council of Medical Research
- Mumbai- Metropolitan Region- Environment Improvement Society

## OUTREACH ACTIVITIES



### SIES Indian Institute of Environment Management

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