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INDUSTRIAL CONSULTANCY -AREAS OF EXPERTISE

1. Areas of Expertise for collaborating with Industries:

- a. Aquatic Ecotoxicological Testing (Both Marine and Freshwater)
- b. Pollution Assessment and Monitoring (Terrestrial and Aquatic)
- c. Environmental Impact Assessment (EIA)
- d. Socioeconomic Monitoring (All groups)

2. Contribution in Product / Process Development & Technology Transfer Areas:

- a. The consultancy in Aquatic ecotoxicology and Pollution monitoring areas have various toxicological tests, develop Standards and Criteria for various toxicants as well as Water quality assessment which will be essential for industrial effluent and other monitoring.
- b. Toxicological tests using aquatic organisms for testing Pharmaceutical products.
- c. For setting up any new industry or existing industry, the pre-EIA as well as Post EIA are important hence the consultancy related to EIA will also provided to the required industries.
- d. Socioeconomic survey or monitoring is most important aspects in the environmental projects from both private and government agencies, hence it will also possible to carry out Socioeconomic survey.

3. Type of Consultancy services give to the Industries:

- a. Ecotoxicological testing and Environmental Pollution Monitoring
- b. EIA
- c. Socioeconomical Monitoring.

Brief experience of the Faculty in Consultancy services:

An umbrella project approved by the Ministry of Earth Science, Government of India, seawater quality criteria for metals were developed for coral reef ecosystem. Further I have already handled various consultancy projects to the Government Agencies and EIA assessment to Private Industries and also carried out Socioeconomical Monitoring to the Marine Fishing communities through National and International Agencies. The following are the Consultancy Services provided by me.

Industrial Consultancy Projects undertaken: EIA Studies - 4

1. Name of the Industry : **M/s. Saravana Fine Yarns –Yarn Dyeing Unit**
: Eluvanampatti Village, Batlagundu – 624 202,
: Dindigul District, Tamilnadu, India
Year : **2003 (3 Months)**
2. Name of the Industries : **(1) M/s. The Kadri Mills (CBE) Ltd.,**
: **(2) M/s. Sri Palani Murugan Enterprises Ltd.,**
: **Textile Processing Units**
: Mettupalayam Taluk, Coimbatore District,
: Tamilnadu, India.
Year : **2004 (4 Months)**
3. Name of Agency : **German Development Corporation (GIZ), New Delhi**
: **Title: *Review of Palk Bay, Tamilnadu, India***
Year : (October 2015 to January 2016).
: Rs.6.43 Lakhs
4. Name of Agency : **ESSO-NIOT, MoES, Chennai, India**
: **Title: Toxicological impact of dredged**
: **marine sediment of Krishnapatnam Port”**
Year : (July 2017 to March 2018: Rs.8.30 lakhs)

Marine Water Quality Criteria Development Project operated:

1. **Ministry of Earth Sciences - MoES (formerly Department of Ocean Development-DOD), New Delhi** - Title: ***Marine Ecotoxicology Studies for developing seawater quality criteria for coral reef ecosystem of Gulf of Mannar*** - Grants Rs.113 lakhs : April 2007- March 2012 (5 Years) As Co-Investigator upto July 2012 and Principal Investigator from August 2012 onwards
2. **Ministry of Earth Sciences - MoES (formerly Department of Ocean Development-DOD), New Delhi** - Title: ***Marine Ecotoxicology Studies for developing seawater quality criteria for coral reef ecosystem of Gulf of Mannar*** - Grants Rs.24.5 lakhs : April 2012- March 2013 (1 Year) As Co-Investigator upto July 2012 and Principal Investigator from August 2012 onwards
3. **Ministry of Environment and Forests (MoEF), New Delhi** – Title: ***Marine Litter in the Coastal and Coral Reef Environment of Gulf of Mannar*** - Grants Rs.21.48 lakhs : February 2012- February 2015 (3 Years).

Socioeconomics Projects worked:

1. Planning Commission project, Centre for Marine and Coastal Studies, Madurai Kamaraj University – From March 2001 to February 2003.
2. World Bank Project, Centre for Marine and Coastal Studies, Madurai Kamaraj University - From September 1999 to January 2000.
3. IOC/UNESCO, GCRMN SOUTH ASIA Project, Centre for Marine and Coastal Studies, Madurai Kamaraj University - From September 1998 to February 1999.

Laboratory and Infrastructure Facilities available:

Our Department at Pudumadam in Ramnad District has a well-equipped Marine Ecotoxicological laboratory facility for conducting ecotoxicological testing using Automated Continuous flow through assay setups as per the US EPA regulations. And also, we have other equipment / instrument facilities for pollution assessment.

Marine Ecotoxicology Laboratory facilities



AUTOMATED CONTINUOUS FLOW THROUGH BIOASSAY UNIT

