

### 3 Collaborative Research Proposal with GEMI

Under this Scheme, it is the GEMI that would identify and plan out the experimental design of Research Streams/Topics/Issues/Studies in which Researchers including students from various relevant field may collaborate and join. The Institute would be floating Innovative projects for Collaborative Research with Institutes/Universities/Centres - Nationally and/or Internationally having similar objectives.

*The Principal Investigator for such collaborative research shall be an official of GEMI. However, CO-PI and members of the research team may be from other Organizations/Institutes/Universities.*

**The specific areas of R & D for collaborative Research may be as follows:**

1. Monitoring of Fluoride concentration in Fluoride affected areas of Gujarat along with scientific assessment of their probable impacts, causes and remedial measures thereof.
2. Study of the issue of NH<sub>3</sub>-N discharge into surface water streams by small scale industries along with their impacts on aquatic life with recommendation and abatement measures.
3. Monitoring of Dissolved Oxygen (DO) in various water resources and efforts to maintain and restore optimum DO level.
4. Study on issue of Phenol discharge into Coastal region by small scale industries along with their impacts on aquatic life with recommendation and abatement measures
5. Study of Waste Water Treatment technology with the aid of Nanotechnology/Biotechnology.
6. Study on problems of high Chemical Oxygen Demand (COD) in CETPs and impacts of interference due to Chloride on high COD level.
7. Study on monitoring and analysis of Pesticides and Fertilizers in river streams due to agricultural runoff and steps and measures to control the same
8. Analysis of pesticides and insecticides on fruits and vegetables
9. Ecological feasibility study by interlinking of rivers.
10. Study of impacts due to Hazardous Waste Landfill Sites on health of Environment and surrounding area.
11. Assessment of Post Environment Clearance monitoring of various projects
12. Identification and mitigation of General Environmental issues faced by different industrial sectors.
13. Noise monitoring of various cities of Gujarat.
14. Monitoring of Mobile Radiations and their effects on receptors.
15. Studies to develop various environmental indices.

**However, list proposed is not exhaustive one, new subjects may be included in it.**

### 3.1 Timeline for call for Proposals:

The call for such collaborative research will be made in first week of May of every year and window will open for submission of research proposals from 15<sup>th</sup> May, 2017. The proposals under this scheme would be accepted throughout the year. *Once any of the project out of fifteen (15), is allotted to any Researcher, it would be removed from the said list and not available for allocation.*

### 3.2 Eligibility:

- Applicant should be an Indian citizen residing in Gujarat.
- The applicant(s) can be a regular Academician/Researcher/ Research Scholar/ Student in a recognized institution.
- Students who have completed their Masters in Science/Environment Engineering, Chemical Engineering, Civil Engineering or any other Master's degree in relevant field are also eligible for the collaborative research
- **There shall be no age limit for applicant under this Scheme.**

### 3.3 Criteria for Selection of Co-PIs/ Research Fellow:

- Proposed planning should not be vague and must relate to the topic.
- The Research proposal must be implementable in a time bound manner with suitable outcomes form of Research paper/ report.
- Applicant must be ready to take responsibility for joint research as per plan approved by Director, GEMI.

### 3.4 Nature & Duration:

- The Research shall normally be for a period of two years.
- The budget for carrying out the selected research shall be expended by GEMI, which will include consumables, contingency and inland travel apart from overhead costs.

### 3.5 Selection & Mode of Application

- The call for proposals will be notified through an advertisement with details on the website [www.gemi-gujarat.gov.in](http://www.gemi-gujarat.gov.in); whereas the application shall be submitted on the website [www.researchproposalsgemi.org](http://www.researchproposalsgemi.org)
- The proposals will be evaluated by a Peer Review Process as approved by the Director of the Institute.

### 3.6 Instructions for making online application:

For successful online submission of the application the following points may be noted:

- Applicant(s) has to first download all the required formats/templates given in the scheme. The formats in word file are made available below in this section and/or from the APPLY NOW tab.
- Applicant has to select one of the available areas of R & D.
- Applicant has to fill all the mandatory formats which includes Application Format, Bio-data, Endorsement Letter from Head of the Institution (in case if the applicant is already working at some regular position).
- Applicant has to upload the following documents in the pdf format only:
  - Application Format for Research Proposal
  - Bio-data
  - Endorsement Letter from Head of the Institution (if applicable)
  - Signature
  - Photograph

### **3.7 Submission of Hard Copies of the Proposal**

*An applicant has to submit two copies of full proposal (full PDF), as submitted Online to this Institute within a week of online submission.*

### **3.8 General Terms and Conditions**

- GEMI may seek any document/clarification from the applicant before deciding about the approval of proposal.
- GEMI reserves the right to terminate the Co-PI at any stage if it is convinced that sufficient progress is not achieved.
- The Co-PI in association with Principal Investigator must submit monthly Progress Report.
- The Principal Investigator and Co-PI must publish a research paper under this project in a reputed International Journal only after approval by the Director, GEMI.
- All innovations, inventions and discoveries made under this project resulting from the **research** carried out shall vest in GEMI. No IPR/Royalty can therefore be charged or claimed in future.
- The GEMI shall have the sole right to patent the research fully or partly.
- In case of any dispute regarding above, the decision of Director GEMI shall be final.
- The Director GEMI while approving the research proposal may impose such terms and conditions as may be necessary for smooth execution of the research proposals.