

**IICChE - Call for Research Proposal – 2023**  
**Sustainable Energy & Environment (SEE)**

---

**Application Format**



**Indian Institute of Chemical Engineers**  
**Dr H.L. Roy Building, Jadavpur University Campus, Raja S.C. Mullick Road, Post Box**  
**17001, Kolkata 700032, India**

**FORMAT-1**

**Segment A1 (Personal Information)**

1. Name of the PI:
2. Address of the Host/Parent Institute:
3. Date of Birth:
4. Sex:
5. Telephone No.:
6. Mobile No.:
7. E-mail Address:
8. Present Position:
9. Please indicate the broad area of application (Please specify the sub-themes mentioned in Call for Proposals 2023):
10. Qualifications:

S. No	Degree	Institute/University	Year of Graduating	Subject	Percentage
1.	Graduation				
2.	Post Graduation				
3.	PhD				
4.	Any Other				

11. Professional Achievements Briefly:
12. Total Publications:
13. Five best publications in the proposed area of work:

\*\*\*\*\*

**Segment A2 (Personal Information)**

- 1. Name of the Co-PI (if necessary):**
- 2. Address of the Host/Parent Institute:**
- 3. Date of Birth:**
- 4. Sex:**
- 5. Telephone No.:**
- 6. Mobile No.:**
- 7. E-mail Address:**
- 8. Present Position:**
- 9. Please indicate the broad area of application** (Please specify the sub-themes mentioned in Call for Proposals 2023):
- 10. Qualifications:**

<b>S. No</b>	<b>Degree</b>	<b>Institute/University</b>	<b>Year of Graduating</b>	<b>Subject</b>	<b>Percentage</b>
<b>1.</b>	<b>Graduation</b>				
<b>2.</b>	<b>Post Graduation</b>				
<b>3.</b>	<b>PhD</b>				
<b>4.</b>	<b>Any Other</b>				

- 11. Professional Achievements Briefly:**
- 12. Total Publications:**
- 13. Five best publications in the proposed area of work:**

### Segment B: General Information

1.	<b>Project Title:</b>	
2.	<b>i. Name of the PI:</b>	
	<b>ii. Name of the Co-PI (if necessary):</b>	
3.	<b>Name of Organization &amp; Address (PI):</b>	
	<b>Name of Organization &amp; Address (Co-PI):</b>	
4.	<b>Type of Organization:</b>	Academic institution/ Research organization/others (please specify):

5. a. Whether, you/your organization is receiving any budgetary support from IChE for any kind of project?

\*Yes/No\*

b. If yes, provide details of completed and ongoing projects:

Sl. No.	Title of the project	Ref. No.	Date of completion/ status	Amount (Rs)	Whether UC/final project report has been submitted? If yes, please mention date

6.	<b>Whether project activities require any clearance from relevant authorities in respect of any environmental/legal/ethical issues?</b>	Yes/No
7.	<b>Duration (months):</b>	
8.	<b>Cost (Rs. in Lakhs):</b>	
9.	<b>Whether the Organization is an organizational member of IChE?</b>	Yes/No

10. Provide the bank details of the Institutes/Universities:

1	Name of A/C Holder (as per Bank Record)	
2	Bank Account No.	
3	Bank Branch name & Address	
4	MICR Code	
5	IFSC Code	
6	E- Mail (Institute/PI)	
7	Mobile No. (Institute/PI)	

\*\*\*\*\*

## Segment C- Technical Details

1. **Title** (Short & Focused not exceeding 15 words) :
2. **I. Statement of the problem** (200 words)
  - II. **Technology gaps & Suggested solution** (150 words):
3. **Review of Status** - (100 words): Are you aware of any other initiative related to proposed activities to solve this problem? What were the outcomes?
4. **References:**
5. **Proposed Objectives (200 words):**
6. **Methodology** (100 words):  
(Describe how the project will address the societal challenges in a sustainable way. Also explain how, and in what way, the project will contribute to the advancement of knowledge in the subject/topic. Support with defined steps/relevant process details, e.g. flow chart, model, survey procedures, protocols, engineering design/schematic/layout plan - as applicable to achieve the stated objectives)
7. **Work Plan** (150 words - Please also provide activities schedule – Pert Diagram):
  - i. **Phase wise work plan of action with time line and deliverables in tabular form**
  - ii. **Technology Selection**
  - iii. **Technology Development/Adoption/Modification/Capacity Building**
  - iv. **Institutions/places where detailed lab/field testing or experiments will be carried out:**
8. **Deliverables:**

<b>Deliverable</b>	<b>Mark √</b>	<b>Brief description</b>
Product development/adaptation		
Process development/adaptation		
Technology package for development of the project area		
Technology capability development, training & documentation (e.g. reports, papers, articles, technology manuals, patents)		
Scientific knowledge and/or data generation leading to technology development in future		
Other (Please specify)		

9. **Estimated Benefits** (100 words):

<b>Benefit</b>	<b>Mark √</b>	<b>Brief description</b>
Economic (Cost-benefit analysis)		
Others (Please specify)		

**Segment D: Budget Details**

**BUDGET ESTIMATES: SUMMARY**

(Rs. in lakhs)

Item	Budget			
	6 months	12 months	18 months	Total
Recurring				
Grand Total				

2. Financial Year : April to March

\*\*\*\*\*

**Annexure-I**

**ENDORSEMENT FROM THE HEAD OF INSTITUTION (TO BE GIVEN ON LETTER HEAD)**

**Project Title**

.....  
.....  
.....

**Recommendation by the Head of the Department:**

Certified that the Institute welcomes participation of Dr.....  
Department of ..... as the Principal investigator/Co-PI of the project and the  
project has not been submitted anywhere for funding/any form of financial support. Certified further that the  
fund will be utilized as per the norms of IChE, the utilization certificate and final report will be sent to the  
IChE at the end of project completion.

Date:  
Place:

(Signature of the Head of the Department)

**Endorsed by the Head of the Institution:**

Certified that the Institute welcomes participation of Dr.....  
Department of ..... as the Principal investigator/Co-PI of the project and the  
project has not been submitted anywhere for funding/any form of financial support. Certified further that the  
fund will be utilized as per the norms of IChE, the utilization certificate and final report will be sent to the  
IChE at the end of project completion.

Date:  
Place:

(Signature of the Head of the Institution)

\*\*\*\*\*

**CERTIFICATE FROM THE PI**

**Project Title**

.....  
.....  
.....

1. I agree to abide by the terms and conditions of the IChE grant.
2. I did not submit this or a similar project proposal elsewhere for financial support.
3. I shall utilize the fund for expenditure, which includes raw materials for product fabrication, product testing, etc.
4. I shall not be utilize the fund for travelling expenses, honorarium, scholarship or fee payment and no permanent equipment like computers and peripherals can be procured under this grant.
5. I understand that this is PI centric project aimed to encourage young researchers towards societal research and it will not be transferred to any other researcher/scientist.
6. I have enclosed the following materials:

ITEMS	NUMBER OF COPIES
(a) Endorsement from the Head of the Institution (on letter head)	One
(b) Copies of the proposals	one

Date : .....

Name & Signature of  
the PI

Place:.....

\*\*\*\*\*



**CERTIFICATE FROM THE Co-PI**

**Project Title**

.....  
.....  
.....  
.....

1. I agree to abide by the terms and conditions of the IChE grant.
2. I did not submit this or a similar project proposal elsewhere for financial support.
3. I shall utilize the fund for expenditure, which includes raw materials for product fabrication, product testing, etc.
4. I shall not be utilize the fund for travelling expenses, honorarium, scholarship or fee payment and no permanent equipment like computers and peripherals can be procured under this grant.
5. I understand that this is PI centric project aimed to encourage young researchers towards societal research and it will not be transferred to any other researcher/scientist.
6. I have enclosed the following materials:

ITEMS	NUMBER OF COPIES
(a) Endorsement from the Head of the Institution (on letter head)	One
(b) Copies of the proposals	one

Date : .....

Place:.....

Name & Signature of  
the Co-PI

## GUIDELINES

### 1. Applicant Eligibility

- IChE will not entertain any incomplete applications.
- Candidates submitting the proposal and applying for the grant should be a member of IChE. Non-member candidates are requested to become a life member in IChE and then they can submit the proposal for the project grant.
- Candidates are requested to submit single proposal only.
- Organizations / Institutions / Universities are requested not to submit more than **one (01)** proposal. IChE will consider only one proposal and the rest, if submitted, will be rejected.
- Project if awarded, candidate must have to publish minimum **one paper** in a reputed peer-reviewed Scopus Indexed or Web of Science Journals. Candidate must include the affiliation as Life member, IChE in the papers they publish.
- Candidates must submit progress report at every six months interval during the project tenure if awarded.
- Candidates must submit the final project report and utilization certificate after successful completion of the project.
- IChE will not continue any fund after eighteen months from the date of award of proposal.

### 2. Financial Support

- Maximum fund to be allocated per proposal shall be Rs. 1,00,000/-.
- The **fund shall be utilized** for expenditure, which includes raw materials for product fabrication, product testing, etc.
- The **fund shall not be utilized** for travelling expenses, honorarium, scholarship or fee payment and no permanent equipment like computers and peripherals can be procured under this grant.

### 3. Utilization Certificate:

- The Young Faculty/PI should maintain a book of accounts of all the expenditure incurred under the project and must submit a UTILIZATION CERTIFICATE duly signed by them and approved by the head of the institution/head of the department along with the final report.
- The amount should not be utilised for any other purpose other than the project work.

#### **4. Duration Of The Project**

- The duration of the project is maximum 18 months.

#### **5. Completion Report of The Project**

- The project work has to be completed and final report has to be submitted after the successful completion of the project and/or within scheduled completion of course of the student.
- A UTILIZATION CERTIFICATE endorsed from the Head of The Institute (to be typed on the letter-head of the organization) should also be submitted along with the final report. The format of the UTILIZATION CERTIFICATE will be available in IChE website.
- The hard copy of the project report shall be submitted by the Young Faculty/PI of the project to the IChE via speed post/registered post to the following address:

**Indian Institute of Chemical Engineers  
Dr H.L. Roy Building, Jadavpur University Campus, Raja S.C. Mullick Road, Post  
Box 17001, Kolkata 700032, India**

#### **6. Acknowledging Contribution of IChE:**

The Young Faculty/PI while submission of any paper to any journal and conference on the subject, arising out of this project work, should acknowledge the contribution of INDIAN INSTITUTE OF CHEMICAL ENGINEERS in the following manner:

“The author/s thankfully acknowledges the financial support provided by INDIAN INSTITUTE OF CHEMICAL ENGINEERS for carrying out B.E./B.Tech and M.E./M.Tech. project work in this subject”.

\*\*\*\*\*

**ANNEXURE IV**

**UNDERTAKING FROM THE PI/Co-PI**

As this is a young faculty-oriented project, I will undertake all the approved activities under the project till the completion of the project tenure. Failure to complete the project objectives (without any justified reason) or leaving in midterm of the project would make me liable for returning the fund completely.

(Name of the PI/Co-PI)

Signature with date

\*\*\*\*\*