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Collaboration and Research Expansion (CARE) Guidelines

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1.1 Objective

1.1.1 Foster close educational and research interaction through networking with national, regional and international players in the oil, gas and petrochemical industry and the energy sector.

1.1.2 Co-operate with educational and research institutions in any part of the world having objectives wholly or partly similar to those of the Institute by exchange of teachers and scholars, conduct of joint research, undertaking sponsored research and consultancy projects, etc.

1.2 Vision

1.2.1 To create and disseminate knowledge that facilitates progress and excellence in the field of Energy Sector.

1.2.2 To be an Energy university that is ranked among top 200 universities of the world within 20 years of setup.

1.3 Preamble

Collaborations will enhance the status and presence of our Institute in the national and international scientific communities. To meet these targets, we have to carefully identify Universities and Research Institutes to initiate collaboration programs. The Collaboration and Research Expansion program (CARE) will help the faculty members of the IPE to collaborate with reputed professors/scientists and carry out both idea-based and instrument-based advanced research. The CARE will help the young faculty members to expand their research horizons, explore uncharted research domains and strike new research collaborations. A small grant will be provided by the IPE to cover travel, lodging, boarding and contingent expenses. It is encouraged to utilize the vacation period for visiting the collaborating institutes. A report has to be submitted by the faculty to the Dean (R&D) office on the collaboration activities.

2. Definitions:

2.1. 'President': BoG, means President, Board of Governors, IPE.

3. CARE overview:

3.1 Collaboration and Research Expansion program (CARE) aims at improving the academic and research networking of IPE by facilitating research collaborations between IPE and other Indian and Foreign institutions to jointly solve problems of national importance.

3.2 In order to facilitate fundamental and energy relevant research in India, lot of emphasis is being laid for strengthening collaboration with-in Indian research groups, so that Faculty and Scientists can interact with other bright minds leading to a self-reliant India (Aatma Nirbhar Bharat).

3.3 It is envisaged that some of the joint collaborations will not only lead to breakthrough in energy and allied sectors but also would result in sustainable technologies that foster growth in India and mankind at large.

3.4 The program aims at exposing large number of young Faculty members, the torch bearers of the future generation, to state-of-the-art developments in science and technology, thereby increasing the

number of highly trained scientific manpower in the country, as well as significantly enhance the visibility of IPE in the field of energy sector.

3.5 The CARE funding will act as a seed funding that will lead sustainable future collaboration between parent and host institute through external funding sources thus leading to tangible results such as large number of high impact research publications, joint PhD programs, collaborative projects, solution to key national problems, development of niche courses, high quality text books and research monographs.

4. Expected Outcomes

4.1 Enable long-term bilateral networking and relationship with the collaborating institute in academics and research.

4.2 Enable IPE Faculty members to be trained in state-of-the art facilities available in the best laboratories in the India and abroad.

4.3 Produce educational and research content in the form of jointly authored/developed publications, textbooks, research monographs, patents, demonstrable technologies and products.

4.4 Enable a brief stay for IPE faculty to participate in academic interactions, research collaborations, course development in concentrated areas.

4.5 Teaching a course/workshop in a niche area.

5. Eligibility:

5.1 Applications are open to all the permanent faculty of the IPE with at least two years of service left before superannuation.

5.2 Collaborating faculty member must a permanent faculty member/scientist of her/his Institution.

5.3 In case, the collaborating faculty is from an Indian academic institute, the institute must be ranked in the overall top-50 or category-wise top-50 in the NIRF Rankings.

5.4 In case, the collaborating member is from any Indian research institute, i.e., Scientist, their institute must be a government organization established/registered/formed before 2016.

5.5 In case, the collaborating faculty is from a Foreign academic institute, the institute must be ranked in the overall top 200 QS Rankings.

5.6 In case, the collaborating member is from any Foreign research institute, i.e., Scientist, their institute must be an Internationally Reputed Institute.

6. Focus Research Areas

6.1. Chemical Engineering

6.2. Energy Sciences and Engineering

6.3. Humanities and Sciences

6.4. Mechanical Engineering and other engineering programs

6.5. Petroleum Engineering

6.6. Earth Sciences

7. Application Process and Timeline

7.1 The proposals in the **Form CARE-01** will be received by the Dean (R&D) office twice every year and will be forwarded to CARE evaluation committee for recommendations.

Winter session - call for applications last date – July end.

Summer session - call for applications last date – December end.

8. Evaluation of applications and selection:

8.1 A CARE evaluation committee consisting of the following members to evaluate and recommend the applications received every year:

- a) Dean (R&D) or nominee from Dean (R&D) - Chairman
- b) Associate Dean (R&D) - Member
- c) Head of Departments - Member
- d) External Experts nominated by Director

8.2 Priority will be given to projects that

- a) A well formulated strategy to create a self-supporting and sustainable collaboration after the CARE funding expires (50%)
- b) Project that will improve the connectivity between the IPE and collaborating institute (20%)
- c) Project idea, rationale, impact, outcome indicators like joint papers, external funding applications, joint research with industry (20%)
- d) Existing projects and collaborations of the applied faculty member (10%)

9. Communication of results

9.1 Final results will be announced to the applicants 3 months prior to winter/summer vacation.

10. Budget and funding details

10.1 Items are eligible for funding

10.1.1 Support for IPE faculty to cover travel, lodging and boarding.

10.1.2 A maximum of two (2) faculties per session will be selected for CARE funding.

10.1.3 A maximum funding of Rs. 2,00,000/- may be requested for each collaboration.

10.1.4 Budget for Contingency, lab supplies like chemicals, field work, documentation, miscellaneous items of total worth not more than Rs. 20,000/-

10.1.5 The CARE funding may be spent as per norms and regulations of IPE.

10.2 Items are not eligible for funding

10.2.1 Any major equipment/infrastructure

10.2.2 Travel and allowance for faculty/scientist of collaborating institute.

10.2.3 Scholarship/stipend of IPE/Collaborating institute scholars.

10.3 The CARE funding is expected to be complemented by one or more of the following sources:

10.3.1 Funding from IPE towards equipment, infrastructure, stipend of scholars.

10.3.2 Funding from external funding agencies for complementary ongoing projects.

10.3.3 International Travel Grants of external funding agencies.

10.3.4 Additional support from the collaborating institute.

10.3.5 CPDA funding given to the Faculty members.

11. Reports and Completion

11.1. All CARE awardees must, as a condition of receiving an award under CARE, will submit a report of achievements (maximum 2-3 pages), and how they intend to take the research collaboration beyond the CARE funding period in the Prescribed **Form CARE-02**

11.2. This report should be submitted within following duration:

If awarded in winter session : 30 days after last date of winter vacation.

If awarded in summer session: 45 days after last date of summer vacation.