

# **PCRA R&D SCHEME**

**FOR DEVELOPMENT OF  
INNOVATIVE PRODUCT AND PROCESS TECHNOLOGIES  
TO CONSERVE PETROLEUM FUELS**

## **GUIDELINES AND APPLICATION FORMAT**

**PETROLEUM CONSERVATION RESEARCH ASSOCIATION  
(MINISTRY OF PETROLEUM & NATURAL GAS)  
SANRAKSHAN BHAWAN, 10, BHIKAJI CAMA PLACE,  
NEW DELHI - 110066  
*[www.pcra.org](http://www.pcra.org)***

## **PCRA R&D SCHEME GUIDELINES**

PCRA is a registered society set up in 1978 under the aegis of Ministry of Petroleum & Natural Gas. As a non-profit organization, PCRA is a national government agency engaged in promoting energy efficiency in various sectors of economy i.e. Industry, Agriculture, Transport and Domestic. As a part of its mandate, PCRA has been relentlessly promoting Research & Development (R&D) efforts aimed at petroleum conservation and environment protection for the past few decades. PCRA wishes to intensify its R&D efforts, strengthen the interface between R&D establishments and Industry, and accelerate the journey from lab stage to pilot stage, rendering them fit for early commercialization.

### **1. OBJECTIVES**

- (a) Development of innovative product and process technologies for saving petroleum fuel.
- (b) Strengthening the interface between R&D establishments and Industry
- (c) Accelerating commercialization of products/ processes successful at lab stage

### **2. SECTORS OF INTEREST**

Industrial, Agricultural, Transport & Domestic sector

### **3. PROJECT PROPOSALS**

PCRA invites new and innovative R&D project proposals from reputed Research Institutes for grant-in-aid. Projects should aim at development of a new product or a process, or major improvement in an existing product or process, with attractive market potential towards fuel conservation. The projects should result in significant benefits in terms of petroleum fuel conservation preferably with lesser pollution / GHG emission.

### **4. NATURE OF PROPOSALS SUPPORTED –**

Nature of project proposals to be considered for grant-in-aid under R&D scheme of PCRA

- Development of a new or improved product for substitution or conservation of petroleum products/fossil fuels along with process / technology for commercial production.
- Development of a new or improved process / technology towards conservation of petroleum product along with development of a technology demonstrating pilot plant for the same.
- Indigenization of imported technology.
- Technology development projects for improvement in energy efficiency of products which consume petroleum fuel
- Development / improvisation of product / process / technology resulting in enhanced energy efficiency with ultimate aim of reducing India's import dependency in petroleum sector.

- Development / improvisation of product / process / technology resulting into reduction of carbon foot-print.
- Development and demonstration of energy efficient technologies for common use by cluster of Industries.
- Any other specific topic towards fuel conservation as decided by PCRA

The Proposals should involve industry exposure at some stage of the project, to ensure commercialization, if project is successful.

## **5. ACTIVITIES SUPPORTED -**

Partial financial support shall be provided by PCRA primarily to cover prototype development, cost of pilot plant, cost of process equipment, consumable cost, test and evaluation of products, user trials etc. Bulk of the financial support for the projects has to be from R&D establishments, Institutions and industries.

The financial support from PCRA is mainly to meet part of the developmental expenditures for:

- a) Personnel costs (specialists employed, part-time/full-time/contract basis, exclusively for specified activities)
- b) Consultancy (cost of indigenous consultancy and equivalent services used exclusively for the research activity, including research, technical knowledge, patents, etc)
- c) Running costs (such as expenditure towards raw materials, consumables, hardware/ software tools, components/sub-assemblies for prototype, equipment for pilot plant etc. incurred directly as a result of proposed research activity)
- d) Testing, trials & certification
- e) Patenting
- f) Support is available only for the innovative element in the project.

## **6. ELIGIBLE RESEARCH INSTITUTES**

- a) National Research Lab (Govt. recognized)
- b) Council of Scientific and Industrial Research (CSIR) Lab
- c) Research Lab (DSIR recognized.)
- d) Educational Institute (Should have well established research support system.)
- e) Registered company with R&D establishment.

## **7. EVALUATION PROCEDURE:**

The project proposals received from above category of applicants are initially scrutinized in-house by PCRA R&D Department. During the initial examination, proposal is evaluated from eligibility point of view along with expected outcome and its relevance with scheme objectives outlined in guidelines. The required additional information is sought from

applicants wherever necessary. Once the R&D Department confirms that the project proposal meets scheme guidelines, the same is put up in the next Screening Committee Meeting (SCM) of PCRA for further consideration and approval.

The project proposals costing more than Rs.25 lakhs may be forwarded to External Domain Experts (3 members) for their opinion. The opinion of these External Domain Experts is placed before the SCM and generally the projects having at least 2 conformity opinions from Experts will be considered.

The applicant is required to give a detailed presentation of 30-45 minutes' duration before the SCM describing the objectives and possible outcome of the R&D Project and the expected benefits and commercial application. The SCM may also deliberate upon cost involved and the likely benefit to the target group. After the deliberations, the SCM shall decide about the approval of the project as well as the estimated expenditure. The projects, which are not approved by the SCM, are informed to the concerned applicants along with reasons

Based on the technical approval of the SCM, financial sanction is accorded during EC meeting of PCRA in the form of Grant-in-aid. The approved grant is maximum ceiling for the project.

After approval for Grant-in-aid for the project, the Research Institute is intimated regarding acceptance of the project proposal for grant-in-aid and a MOU needs to be signed between the Research Institute and PCRA with the detailed terms and conditions. Subsequently, the fund is released and the project takes off.

## **8. APPLICATION PROCEDURE:**

The application format for making the project proposal is available on PCRA website. Proposals (in 2 hard copies and 1 soft copy) on the above lines are invited from reputed R&D establishments, Technical Institutions and Industries. These proposals should be forwarded by the Director/ Head of the R&D establishment to:

**DIRECTOR (Industries)**

**PETROLEUM CONSERVATION RESEARCH ASSOCIATION**

**Sanrakshan Bhawan, 10 Bhikaji Cama Place, New Delhi-110 066.**

**Ph: 011-26183054, Fax: 011-26109668**

**Email: *dirind@pcra.org / adsnl@pcra.org***

For more details please visit our website: <http://pcra.org/sectors/index/27>

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