

# **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 R&D project proposals 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. The projects should result in significant benefits in terms of petroleum fuel conservation preferably with lesser pollution / GHG emission.

## **NATURE OF PROPOSALS SUPPORTED –**

- (a) Development of a new or improved product resulting in prototype development and ending with demonstration in commercial environment.
- (b) Development of a new or improved process resulting in establishment of process know-how, development of process equipment and demonstration of reduced fuel consumption in a pilot plant.
- (c) Indigenization of imported technology.
- (d) Technology development projects for improvement of efficiency of products covered under S&L program of BEE which use petroleum fuel viz. Domestic LPG stove, DG sets & Monoset pumps.
- (e) Development & demonstration of technologies for common use by cluster of industries.

## **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.

#### **4. ELIGIBILITY CRITERIA FOR APPLICANTS**

##### **APPLICANT SHOULD BE ONE OF THE FOLLOWING:**

- i) National Research Lab (Govt. recognized)
- ii) Council of Scientific and Industrial Research (CSIR) Lab
- iii) Research Lab (DSIR recognized.)
- iv) Educational Institute (Should have well established research support system.)
- v) Registered company with R&D establishment.

#### **5. 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) for further consideration and approval.

The applicant is required to give a detailed presentation for 30-45 minutes before the SCM describing the features of the R&D Project and the expected outcome/time-lines. The SCM also deliberates upon cost involved and the likely benefit to the target group. After the deliberations, the SCM decide about the approval of the project as well as the estimated expenditure.

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 projects, which are not approved by the SCM, are informed to the concerned applicants along with reasons.

Based on the approval of the SCM, financial sanction is accorded by ED, PCRA in the form of Grant-in-aid. The approved grant is maximum ceiling for the project. However, Grant from PCRA is released in installments based on the utilization pattern and the anticipated expenditure. Initially Grant upto 25% of the approved project cost is released to commence the project Subsequent Grants are decided based on the expenditure, utilization certificate and the project elements.

#### **6. 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 (R&D)**

**PETROLEUM CONSERVATION RESEARCH ASSOCIATION**

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

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