

## ***i*-PSG Notice for New Proposals**

Next open door meeting of *i*-PSG will be held on **March 23<sup>rd</sup> 2017**. The meeting will take up review of new proposals for the financial year 2017-18. The start date of new projects will be 1st April, 2017.

As you are all aware, *i*-PSG accepts proposals in three categories:

- I - Research projects relevant to NML's core areas;**
- II - Knowledge management projects;**
- III - System and infrastructure development projects.**

However, above categories were reviewed by *i*-PSG with the help of all HoDs and GLs and it was agreed to redefine these as below;

- 1. Thematic Research**
- 2. Scholastic Research**
- 3. Technology Development**

Research confined to above areas is henceforth receiving *i*-PSG support.

### **Guidelines for the above three areas**

- 1. Thematic Research:** Themes which are generally virgin as far as NML is concerned with the larger interest of the future of the laboratory in mind and are identified by the *i*-PSG along with HoD's and GL's. Each theme will be nurtured by Theme champion. Following are guidelines of proposal;
  - Duration of the projects will be maximum one year and maximum allowable funding is 20L.
  - First 6 months of the projects will be considered purely exploratory in nature without any targeted or with notional deliverables. After which a way forward scheme required to be proposed by PL.
  - These proposals can be proposed in association/collaboration with any Govt R&D labs or Institutes. Up to 50% of the total value of the project can be provided to the collaborator as a financial support.
  - At end of the project based on committee's discretion matured theme project will be permitted for external funding with the theme champion co-ordinating further exploitation.
- 2. Scholastic Research:** Scholastic projects will aim at supporting the research under AcSIR and scientist pursuing academic excellence at IIT's and other reputed institutes.

- All AcSIR scholars funding will be maximum of 5 lakhs for projects fully carried out at CSIR-NML, while this will be restricted to 3 lakhs rupees for scientist of CSIR-NML or AcSIR scholars carrying out their research project, partly or wholly outside CSIR-NML. Scholars with external research fellowship can make use of *i*-PSG funds only after they exhausted their fellowship grants.
- 3. Technology development:** Technology development projects will aim to yield a feasible technology at the end of the project.
- A maximum of 5 lakhs will be made available for these projects.

## Research Areas for Thematic project

**1. Fine Particles Processing** **Champion: Dr. Ratnakar Singh**

*Keywords for Research:* Micronization of coal; Enhance Gravity Separation (EGS); Dewatering

**2. REE & PGM** **Champion: Dr. K.K. Sahu**

*Keywords for Research:* Processing; Extraction and application

**3. Advanced separation processes** **Champion: Dr. Rakesh Kumar**

*Keywords for Research:* Solvent free separation; Molecular recognition separation; membrane separation; Dry beneficiation

**4. Advanced Engineering materials** **Champion: Dr. Arvind Sinha**

*Keywords for Research:* High temperature Sensors; High temperature structural material; High temperature coating; High entropy alloys; Thermo Electric Power (TEP), Magneto-caloric materials, Energy storage material

**5. Advanced Manufacturing Technologies** **Champion: Dr. S. Tarafder**

*Keywords for Research:* Additive Manufacturing; Functionally Graded Materials (FGM), Advanced Joining of Materials; Smart coatings

**6. Modelling & Simulation** **Champion: Dr. S. K. Das**

*Keywords for Research:* Computational Materials Engineering (CME); Process Modelling

**7. Environment, Energy and Resource Management** **Champion: Dr. D Bandopadhyay**

*Keywords for Research:* Slag Engineering; Environment Impact Assessment (EIA)/Life Cycle Analysis (LCA)/Plant performance auditing; Low sensible heat recovery; Carbon Capture & Utilisation (CCU); Carbon Capture & Storage (CCS); CO<sub>2</sub> management

**The last date to submit online new proposals is 10<sup>th</sup> March 2017.** Please also submit printed version duly signed by all concerned of the proposal to Dr. J.K. Sahu, Dr. T. Mishra and Dr. Suprabha Nayar.

With best wishes,