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Government of India
Ministry of Chemicals & Fertilizers
Department of Chemicals & Petrochemicals

Shastri Bhawan, New Delhi
Dated, the 29th October, 2021

“National Petrochemicals Awards”
Invitation for Applications

Ministry of Chemicals & Fertilizers, Department of Chemicals & Petrochemicals (DCPC) invites applications from eligible individuals/teams/institutes/industries under 13 different categories (details annexed) for the 11th edition of the National Petrochemicals Awards. For more details, please visit the following link

<https://www.nationalpetrochemicalsawards.pds.gov.in>

The link is also available on website **www.chemicals.nic.in** and **www.cipet.gov.in**

2. In line with the National Policy on Petrochemicals announced in April 2007, the Department of Chemicals & Petrochemicals (DCPC), Government of India has set up an Award Scheme to incentivize meritorious innovations and inventions in the field of polymeric materials, products, process areas of national and social importance. The ultimate objective is to develop and maintain the petrochemical industry as a globally competitive industry using eco-friendly processes & technologies.

3. The applications complete in all respects as per the format (attached with scheme guidelines), may be submitted online to CIPET (Central Institutes of Petrochemicals Engineering and Technology), the implementing agency for the awards, latest by 31st December, 2021.



(Dharam Vir)

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11th NATIONAL PETROCHEMICALS AWARDS

CATEGORY DETAILS

1. Innovation in Polymeric Materials.

- New Polymers, Blends & Alloys, filled materials, fibers, Polymer Composites and Nano-Composites, Smart Materials etc.
- New Additives, Compounds for newer & special applications in defence & space.
- Non-conventional application/replacement of conventional materials (e.g. Metal & Ceramics etc.).
- Materials for Additive Manufacturing Technologies

2. Innovation in Polymeric Products.

- New / creative product design.
- Non-conventional application / Replacement of conventional materials (eg. Metals, Ceramics etc.).
- Modification of product design for performance improvements.
- Application in defence & space.
- Enhancement in the working environment, life cycle, energy efficiency, recyclability etc.

3. Innovation of Polymer Processing Machinery, Equipment, Robotics & Automation.

- Development of innovative/eco-friendly processing techniques.
- Modification of machinery for higher Efficiency / Productivity / Automation.
- Energy conservation, product quality improvement.
- Improvement & design of moulds, dies and auxiliary equipments.
- Development and Application of Robotics & Automation in different polymer processing techniques. Development in material movement system.
- Improvement in moulding & post-moulding operations.
- Development of low cost, energy efficient, polymer testing equipments.
- Modification of Single Use Plastics (SUP) Machinery for alternative use.

4. Innovation in Polymer Waste Management

- Newer technology in plastic waste utilization into products/energy recovery.
- Recycling Technology.
- Plastic waste collection, segregation techniques.
- Product design for improved recyclability.

5. Innovation in Green Polymeric Materials & Products

- Biopolymers.
- Biodegradable / compostable Polymers.
- Time controlled degradation.
- Green material filled polymers.
- Biodegradability evaluation techniques.

6. Innovation in Packaging Techniques including Creative Design

- Emerging Packing Technologies.
- Smart Packaging.
- New compound for replacement of multi-layered packages.
- Packaging for defence.
- Creative design for improved recyclability.
- Packaging for improved shelf life.
- Consumer convenience.
- Stability on shelves for easy storage.

7. Polymers in Agriculture and Water Conservation

- Water transportation, mulching, canal lining, drip irrigation, sprinkler system, low tunnels, poly house etc.
- Controlled release system for fertilizer, pesticides, micronutrients, etc.
- Innovative packaging for agriculture, floriculture and horticultural produce.
- Controlled permeability films & packaging for improved shelf life.
- Novel Usage of plastics for food security.
- Drinking water storage & transportation.
- Polymer membrane for water purification /Desalination.
- Devices for waste water, drainage, sewage treatment system.

8. Polymers in Medical and Pharmaceutical Applications

- Affordable / cost effective implants, implements and devices.
- New innovative products for medical application.
- Polymer based new drugs delivery system.
- Polymer body implants.
- Innovation in PPE Products
- Innovation in ventilator, sanitizer etc.

9. Innovation in Petrochemicals and Newer Polymer Applications

- Sustainable substitutes for chemical intermediates of fossil origin.
- Innovation in Crackers, Catalyst Complexes for better yield, Biodiesel.
- Clean products targeting circular economy.
- Energy Efficient Technologies for Upstream Petrochemical Industries.