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

Winner
Rs. 3.00 L

Runner-Up
Rs. 1.00 L

Applications are invited for
10th NATIONAL AWARDS
for Technology Innovation in Petrochemicals & Downstream Plastics Processing Industry

Government of India, Department of Chemicals & Petrochemicals has announced in April 2007 an Award scheme to incentivize meritorious innovations and inventions in the field of Polymeric Materials, Products Processes and other area of national and social importance. The polymeric applications has already penetrated in all walks of life including various manufacturing sectors for conservation of natural resources and energy efficiency etc. This innovation award scheme will motivate the inventors to carry out innovative Research & Development in the areas of petrochemicals industry, which in turn will improve performance / quality of the existing product. The department is implementing the scheme thru' CIPET and consequently awarded Nine National Awards. Online/offline application for 10th National Awards are invited from Individual, Team/Micro/Small/Medium/Large Scale Industry, Academic, R&D Institutions etc.

Category of Awards

1 Innovation in Polymeric Materials

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

2 Innovation in Polymeric Products

New/creative product design, **N**on-conventional application / Replacement of conventional materials (eg. Metals, Ceramics etc.), **M**odification of product design for performance improvements, **A**pplication in defence & space, **E**nhancement in the working environment, life cycle, energy efficiency, recyclability etc.

3 Innovation of Polymer Processing Machinery, Equipments, Robotics & Automation

Development of innovative/eco-friendly processing techniques, **M**odification of machinery for higher Efficiency / Productivity / Automation, **E**nergy conservation, product quality improvement, **I**mprovement & design of moulds, dies and auxiliary equipments, **D**evelopment and Application of Robotics & Automation in different polymer processing techniques, **D**evelopment in material movement system, **I**mprovement in moulding & post-moulding operations, **D**evelopment of low cost, energy efficient, polymer testing equipments, **M**odification 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, **R**ecycling Technology, **P**lastic waste collection, segregation techniques, **P**roduct design for improved recyclability

5 Innovation in Green Polymeric Materials & Products

Biopolymers, **B**iodegradable / compostable Polymers, **T**ime controlled degradation, **G**reen material filled polymers, **B**iodegradability evaluation techniques

6 Innovation in Packaging Techniques including creative Design

Emerging Packing Technologies, **S**mart Packaging, **N**ew compound for replacement of multi-layered packages, **P**ackaging for defence, **C**reative design for improved recyclability, **P**ackaging for improved shelf life, **C**onsumer convenience, **S**tability 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., **C**ontrolled release system for fertilizer, pesticides, micronutrients, etc., **I**nnovative packaging for agriculture, floriculture and horticultural produce, **C**ontrolled permeability films & packaging for improved shelf life, **N**ovel Usage of plastics for food security, **D**rinking water storage & transportation, **P**olymer membrane for water purification/Desalination, **D**evices for waste water, drainage, sewage treatment system

8 Polymers in Medical and Pharmaceutical Applications

Affordable/cost effective implants, implements and devices, **N**ew innovative products for medical application, **P**olymer based new drugs delivery system, **P**olymer body implants, **I**nnovation in PPE Products, **I**nnovation in ventilator, sanitizer etc.

9 Innovation in Petrochemicals and Newer Polymer Applications

Sustainable substitutes for chemical intermediates of fossil origin, **I**nnovation in Crackers, Catalyst Complexes for better yield, Biodiesel, **C**lean products targeting circular economy, **E**nergy Efficient Technologies for Upstream Petrochemical Industries, **M**aterials for Energy Storage & Conversion, **I**nnovation in Coatings for Oil & Gas pipelines

10 Research in the field of Polymer Science & Technology

This Category is for **Research Students of Academic Institute / Research lab.: I**ndividual / Team of researchers in R & D Institutions & laboratories, **O**riginal research work in polymeric material processing etc., leading to prototype development & future industrial applications

11 Innovative "Start-up" venture in Polymer field

New start-up polymer industry for market needs, export oriented units, units related to waste management and recycling producing innovative product, import substitute in additives etc., "**S**tart-up" with indigenous technologies, **E**co-friendly, cost effective product solution to improve life standards

12 Best Employer in Petrochemical Sector

This Category is for **R&D units/Manufacturing Industries with 3 consecutive years in operation & 20+ employees in role : E**mploys qualified person from main stream/core subject, **M**aintains low /no attrition rate, Treat employees fairly, responsive/respected and pays attention to employees well being, personal growth & develop professionally, **E**ncourage creativity and provide opportunities to try & learn new things, **G**reat work/life balance, benefits, compensation, autonomy, positive attitude and supportive & collaborative working atmosphere, **S**trong leadership and transparent/direct/effective/timely communication

Online / Offline Application should reach us on or before 31st/August/2020

ORGANIZED BY: POLYMER DATA SERVICES (PDS), CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET)
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