

## ***Award Categories***

### **1. New Polymers**

- ✓ Innovation in Polymers, Blends & Alloys, filled materials, fibers.
- ✓ Composites and Nano composites, Smart Materials etc.
- ✓ Non conventional application / Replacement of conventional materials (eg. Metals, Ceramics etc.).

### **2. New Applications of Polymers in various fields**

- ✓ New / creative product design.
- ✓ Modification of product design for performance improvements.
- ✓ Enhancement in the working environment, Lifecycle, Energy Efficiency, Recyclability, etc.

### **3. New polymer Processing Machines including Energy Efficiency**

- ✓ Development of new processing techniques.
- ✓ Modification of machinery for higher efficiency/productivity / Automation.
- ✓ Energy conservation, product quality improvement.
- ✓ Improvement in moulds, dies and auxiliary equipments.

### **4. Innovation in Polymer Waste Management & Recycling**

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

### **5. Green/Bio-degradable Polymer**

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

### **6. Innovation in packaging**

- ✓ Emerging Packaging Technologies.
- ✓ Creative Design for improved recyclability.
- ✓ Packaging for improved shelf life
- ✓ Consumer Convenience.
- ✓ Stability on Shelves for easy storage.