The Centre of Excellence is setup for Research and Development in the field of plastics, engineering polymers and specialty plastics, developments in advanced composite & nanocomposites materials, innovations in additives, master batches, alloys, blends, compounds, composites and high grade reinforcement materials such as glass, nanoclays/carbon nanotubes (CNTs) and carbon fibers etc.

The CoE also undertake developmental activities in any of the focus areas identified. Besides R&D, the CoE carryout Product & Process Development, process equipment selection, testing facility, training for industry.

Details of Centre of Excellence:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Location of the Centre of Excellence (CoE)</th>
<th>Title of Centre of Excellence</th>
<th>Total Project Cost (Rs in crore)</th>
<th>Brief details of the project with objectives</th>
<th>Details of the contact person</th>
</tr>
</thead>
</table>
| 1    | National Chemical Laboratory, Pune       | Sustainable Polymer Industry to research & innovation | 12.00                           | (i) Design and engineering of lightweight and sustainable hybrid green composite auto parts; (ii) Development of dimensionally and thermally stable green composites; (iii) Fundamentals of rheology, inter phase, functional components and surface engineering; and (iv) Performance evaluation, life cycle analysis, recyclability and prototyping. | Dr. Harshwardan Pol, Co-Principal Investigator  
Mobile No: 9822556745  
Email: hv.pol@ncl.res.in |
| 2    | Central Institute of Plastic Engineering & Technology, Chennai | Green Transport Network (GREET) | 18.98                           | (i) Research and Scientific Services Program (RSSP) – fundamental research on Reactor-Structure-Property Relationship (RSPR) (this includes reactor modeling, processing simulator and structure development); and (ii) Learning and Sharing Program (LSP). | Dr. S.N Yadav, Co-Principal Investigator  
Mobile No: 9840649574  
Email: drsnyadav@rediffmail.com |
<table>
<thead>
<tr>
<th>No.</th>
<th>Institute Name</th>
<th>Address</th>
<th>Phase(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Central Institute of Plastic Engineering &amp; Technology, Bhubaneswar</td>
<td>Address: CIPET: IPT, LARPM, CIPET, B-25, CNI Complex, Bhubaneshwar, Odisha, 751024</td>
<td>Sustainable Green Materials 15.045 Phase I: Bio-resins from vegetable / plant oils (non-edible); Phase II: Bio-based adhesives /coating materials with enhanced curing mechanism from renewable resources; Phase III: Blends and composites from bio-resin / recycled plastics</td>
</tr>
<tr>
<td>4.</td>
<td>Indian Institute of Technology, Delhi</td>
<td>Address: Indian Institute of Technology, Delhi Hauz Khas, New Delhi-110 016</td>
<td>Advanced Polymeric Materials 12.00 a) Fabrication, characterization of polymer nano-composites and their performance assessment to enable new application development; (b) Synthesis and characterization of polymer based composites and other materials for EMI shielding applications; and (c) Synthesis and characterization of semi-conducting polymers and their filled composites for various electronic applications.</td>
</tr>
<tr>
<td>5.</td>
<td>Indian Institute of Technology, Guwahati</td>
<td>Address: Surjyamukhi Road, North, Amingaon, Guwahati, Assam 781039</td>
<td>Sustainable Polymers (Sus-Pol) 14.74 To develop cost-effective and scalable technologies for the production of biodegradable polymer based end products using both petrochemical and renewable bio-feedstock.</td>
</tr>
</tbody>
</table>
| **Roorkee**  
| **Roorkee - Haridwar Highway, Roorkee, Uttarakhand 247667** | **Phase 2: Water management & treatment in petrochemical industry**  
|  | **- Development of efficient water network module for water conservation and recycling in petrochemical industry**  
|  | **- Development of technology for the treatment of wastewater generated (containing highly recalcitrant and toxic compounds) in a petrochemical plant using a combination of physico-electro-chemical methods.** | **Dr. Smita Mohanty,**  
|  | **Principal Investigator**  
|  | **Mobile No: 9692895995**  
|  | **Email: drsmitamohanty@gmail.com** |

| **7. Central Institute of Plastic Engineering & Technology, Bhubaneswar**  
**Address:** CIPET: IPT, LARPM, CIPET, B-25, CNI Complex, Bhubaneshwar, Odisha, 751024 | **Bio-engineered Sustainable Polymeric Systems**  
|  | **Phase I: Eco-friendly biodegradable polymer films in packaging & agriculture**  
|  | **Phase II: Engineered green polymer membranes in healthcare and biomedical technology**  
|  | **Phase III: Bio-derived materials in integrated energy harvesting and storage devices** | **Dr. Smita Mohanty,**  
|  | **Principal Investigator**  
|  | **Mobile No: 9692895995**  
|  | **Email: drsmitamohanty@gmail.com** |

| **8. National Chemical Laboratory, Pune**  
**Address:** CSIR-National Chemical Laboratory, Pune  
Dr. Homi Bhabha Road, Pune, Maharashtra- 411 008 | **Specialty Polymers for Customized** | **Capability to create palette of printing materials catering to variety of applications ranging from automotive to life science**  
|  | **National leadership in creating 3D printing materials**  
|  | **Creation of the state of the art 3D printing facility at CSIR-NCL that will be the one stop solution for materials in 3D printing industry** | **Dr. S.K. Asha,**  
|  | **Principal Investigator**  
|  | **Mobile No: 9420482376**  
|  | **Email: sk.asha@ncl.res.in** |

*In case any industry or individual wants to provide his/her valuable feedback or desires to be a part of any of the above mentioned research projects, please contact the Principal Investigator/Co-Principal Investigator associated with the project.*