

I am Aadil Rasoliwala, recent graduate of B.E. Plastic Technology from L.D.College of Engineering. I am interested in this subject because I have already worked on this and won few International awards. Currently I am working as a RnD Lab Technician In Cipet-IPT Ahmedabad for further exposure of testing and Processing equipment's like TGA, DSC, FTIR, Extrusion, Injection Moulding, Compression, etc. Currently I am in charge of testing and processing Equipment's in Cipet. I am also involved in Defence Project for development of Plastic Scintillator, Thus being in the environment of research and Development, I am highly interested for this PhD Opportunity where I can contribute my technical as well as managerial skills to the betterment of institutes as well as society.

My Research will focus on the wide range of topics related to Primary, Secondary, Tertiary, and Quaternary Scrap plastics behaviour and also to differentiate this behaviour with different categories of polymers as in this day and age Research leads to developments of new polymer alloys and blends for use, so we have to focus on that as well. But if we talk about Plastic Waste Management in General we will find the majority of waste being comprises of commodity plastics and polyolefins play a majority of role in that as this is the group targeted in packaging in Commodities.

I am Particularly Interested in Research and exploration of different ways to manage plastic scraps and to meet the maximum sustainable parameters as much as I can by in depth study in Primary, Secondary, Tertiary and Quaternary Stages of Polymer Scrap. As in my final year Me and Team worked on Project of similar topic of " Design of Paver Blocks with Ribs in Solid works and Structural Analysis in Ansys" and it was all about Primary and Secondary Recycling and to develop a value Creation through Business Model for clean and segregated sector of primary plastic scraps and in that we tried to meet maximum sustainability parameters as primary stage of scrap is quite flexible in nature. So our topic of Design of Cost efficient Paver Blocks from scrap plastics yielded us a First Place winner in the College. And also after that experience we participated in an International Competition" Make The Case" Organised by CAPPIndia and IPI. We won Top Business Category Winner in show casing High impact initiatives to reduce plastic waste. Also We collaborated with "Shayna Ecounified" company who are in Marketing and Sales of Paver block and tiles made from scrap plastics in North India.

My Future Research will focus on More exploration of Value Recovery from plastics waste and development of Business Oriented methods with maximum achievement of Sustainability parameters

In context of (1) Product Remoulding (2) Energy Recovery (3) Incineration and Residual Management, I will study the Relevance of value parameters that what is the maximum peak we can achieve in each section/stage of plastic Recycling and what can I do to innovate to achieve beyond more.

I am much curious to work in this thrust Engineering Topic and real world challenge of sustainable plastic waste management. As we all know that the plastic is a material which is discovered to last for decades so if we can create more sustainable solution then it can be used as golden opportunity for the upcoming generation.