

DHIRAJ KAIKADE

Nagpur, Maharashtra

M.Tech – Research Scholar (Polymer), Institute of Chemical Technology, Mumbai
Polymer | Speciality Coatings

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OBJECTIVE

Research scholar having 2+ years of experience in polymer speciality additives with perseverance and goal driven work ethics to contribute in increasing healthy relationships.

RESEARCH PROJECTS

M.Tech Research Project

Title: Synthesis of antifog, self healing coatings from biobased resources.

Poly (Urethane-Acrylates) coatings are developed partially from biobased resources with advantage of UV curing.

The developed coatings have antifog and self healing properties.

These are for transparent applications such as wind shield, optical glasses etc.

Guide: Dr. A. Sabnis (Assistant Professor – ICT, Mumbai)

B.Tech Research Project

Title: Synthesis of safflower oil based polyol and polyurethane foams therefrom.

Epoxidation and Ring Opening of safflower oil was carried out in order to make polyols.

The prepared polyols were then used in polyurethane foam making.

Guide: Dr. B. Dewangan (Joint Director – Indian Institute of Packaging, Mumbai)

WORK EXPERIENCE

Senior Officer – Product Development

Baerlocher India Additives Pvt Ltd. (Aug. 2016 – Oct. 2017)

Dewas, Madhya Pradesh

It is a German MNC, world largest manufacturer of Polyvinyl chloride (PVC) Additives.

- o Assist to the Manager: Product Applications, Research & Development for various stabilizer like Solid Lead OPS, Solid Ca-Zn, Tin stabilizer, Liquid stabilizer for different applications.
- o Evaluating competitor as well as new vendor samples.
- o Developing new types of modified products to serve market better in the current product portfolio with respect to the competitors.
- o Taking pilot plant batches on Plough Shear and design of operating procedure of metallic salts of carboxylic acid for production dept.
- o Hands on experience on;
- o **Plastic Testing:** - Tensile, Compression, Flexural, Heat Deflection Temperature, Vicat Softening Point, Izod Impact Test etc as per ASTM.

EDUCATION

M.Tech – Polymer Engineering & Technology
Institute of Chemical Technology - Mumbai
(2019-2021) (Pursuing)

B.Tech – Plastics & Polymer Technology
Laxminarayan Institute of Technology - Nagpur

(2012-2016) | Grade – 7.91

HSC/12th – PCMB

New English Jr. College - Nagpur

(2010-2012) | Per - 83.5%

SSC/10th

DDNV - Nagpur

(2010) | Per - 94.55%

ACHIEVEMENTS

• GATE QUALIFIED

- o AIR – 390 in GATE 2017 in Engineering Sciences
- o AIR – 530 in GATE 2019 in Engineering Sciences
- Student co-ordinator of “**Macro-Tecnevista-2015**” a national level conference held at LIT Nagpur.
- Active member of NSS

SKILLS

#SKILLS – SOFT

Strong Work Ethic, Flexibility

#SKILLS – HARD

SAP Handling, MS Office, Chemdraw

WORK EXPERIENCE

- **Instrument Handling:** - FTIR, VR, Spectrophotometer, Mathis Thermotester, Congo, Brabender Plastograph.
- Plastic Processing such as Extruder, Hot press, Twin roll mill, Compression molding etc.
- Maintaining 5s activity in lab premises.

Assistant Manager – Research & Development

S V Plastochem Pvt Ltd. (June. 2018 – July. 2019)

Nashik, Maharashtra

- Carry out activities of Research & Development for the development & customization of PVC Stabilizers based on Ca/Zn, Sn, Sb, Pb-OPS & LMM
- Special focus on Tin & Antimony Stabilizers
- Technical assistance to customer in formulation setup, complaint solving, suggestions etc.

INTERNSHIPS

Intern – Production (May. 2015 – June. 2015)

Atul Ltd. – Valsad, Gujarat

- Got insights of continuous production process of epoxy resin (DGEBA).

PERSONAL DETAILS

Father's Name – Mr. Sukhadeo Kaikade

Date of Birth – 27/08/94

Gender – Male

Marital Status – Single

Nationality – Indian

Languages – English, Hindi, Marathi