



NIKHIL RAMBHAROSH DHORE

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PERSONAL DETAILS

- **Date of Birth:**
21-01-1997
- **Language known:**
English, Hindi, Marathi.
- **Hobbies:** Reading Quara & Motivational Books, Life hacks, Motivational Videos and all physical sports.
- **Gender:** Male
- **Marital Status:**
Unmarried
- **Nationality:** Indian

CAREER OBJECTIVES

To work under an organization that provides challenging opportunities to develop my inherent strength of knowledge.

ACADEMIC CREDENTIALS

- **M. Tech. in Paint Technology** at University Institute of Chemical Technology, KBC North Maharashtra University, Jalgaon during year 2018-2020 with 1st Class. [CGPA: **7.55/10.00**]
- **Diploma in Industrial Safety, Health & Environment** at Ch. Shivaji University, Kolhapur with 1st Class. [**63.67%**]
- **B. Tech. in Chemical Technology** at Department of Technology, Ch. Shivaji University, Kolhapur during year 2014-2018 with 1st Class. [CGPA: **7.94/10.00**]
- **HSC (Vocational)** in Maharashtra State Board, 2013-2014, **71.69%**
- **SSC** in Maharashtra State Board, 2011-2012, **78.91%**.

EXPERIENCE

- September 2021- Till Date: **Project Associate** at CSIR-Indian Institute of Chemical Technology, Hyderabad.

PUBLICATION

- An efficient and environment friendly bio-based polyols through liquefaction: Liquefaction temperature and catalyst concentration optimization and utilized for rigid polyurethane foams. DOI: 10.1177/02624893211017271 Cellular Polymers, 2021-05-28.
- **Review Paper published** in UGC approved journal (IJETAE, ISSN 2250-2459) [Paper ID- IJETAE_0318_134]. "Review on Extraction of Biodiesel from Waste Cooking Oil using Ultra-Sonation"

ACADEMIC PROJECTS

M. Tech. Project: Bio-based Tough and Flexible High Temperature Resistance Hybrid Coating.

- Carried this project at **CSIR-Indian Institute of Chemical Technology, Hyderabad** under the guidance of Dr. RAMANUJ

INTERPERSONAL SKILLS

- Good grasping ability.
- Initiator and passionate about working.
- Handle critical situation.
- Creative skills.

NARAYAN (Senior Principal Scientist) and his group.

- Cardanol was subjected to vacuum distillation and further reacted with excess formaldehyde in combination with phenol to give resoles and on further modification with Epichlorohydrin give epoxidized resole.
- Same epoxidized resole was blended with the 5 wt.% APTES.
- Thermal stability of 5 wt.% APTES modified epoxidized resole was better than epoxidized resole because of Si-O-Si linkages.

B. Tech. Projects:

Major project- **Ultra-sonication assisted Extraction of Biodiesel from Waste Cooking Oil.**

- Use of ultra-sonication method helps to reduce consumption of catalyst during the reaction by about 60 min and also requires significantly less time for the completion of reaction.
- Biodiesel (fatty acid methyl ester) is a nontoxic and biodegradable alternative fuel that is obtained from renewable sources.
- Used cooking oil is economical sources for biodiesel production.

Mini project- **Reducing water evaporation rate by using evaporation retardant in reservoirs, lakes & ponds.**

- It reduces evaporation by nearly 3 times.
- So the better evaporation retardant water evaporation is Cetyl alcohol. It is derived from coconut oil and the yield is about 50%.

EXPERIENTIAL LEARNING

- Attended Workshop on **“Material Characterization & Instrumentation Techniques”**
- Attended Workshop by IIT, Bombay on **“System approach to Green Engineering via optimization at design and operational control”**.
- Industrial Visit at **“Soyabean Oil Extraction Plant, SGI Industries & Effluent Treatment Plant”**
- Industrial Training at **“Rashtriya Chemicals & Fertilizers Ltd.”**
- Industrial Safety Training at **“IndoRama Synthetics Limited”**
- Certificate Course in **“Piping and Process Design Engineering”**

EXTRA-CURRICULAM ACTIVITY

- Participated in National Level Competition at Dr. BATU, Lonere in Paper Presentation on **“Carbon Nanotubes”**.
- Won 2nd Prize in **“TechFest 2018”** Project Competition.
- Member of Indian Institute of Chemical Engineers (IICHe)

I hereby certify that the particulars given above are true to the best of my knowledge and belief.

Place: – Hyderabad

Date : – 01 / 07 / 2021

NIKHIL R. DHORE