

Suman Basak



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Overview : Research and Development professional having B.Tech in Polymer Science And Technology with more than one year of experience in the field of Adhesive Resin and composite sector.

As Assistant Manager Research and Development/QC for Chandras Chemical Enterprises Pvt Ltd.(Dendrite Adhesive) from April'19 to Till Date.

- ✓ The Company manufactures and markets a wide variety of Synthetic Adhesives based on Polychloroprene, Polyurethane, Epoxy. These products are mainly used in Footwear, Automobile, Railway coaches, Engineering, Electronics, Leather goods, Construction and household applications.
- ✓ The Company's major product is marketed under the brand name 'DENDRITE' which enjoys a nationwide reputation for quality.

Responsibilities:

Research and Development:

- ✓ Preparation of solid PTBP Resin(Tertiary butyl Phenolic Resin).
- ✓ Heat Resistant improvement of neoprene based adhesive.

Quality Control :

- ✓ Responsible for incoming raw material inspection & testing in raw materials.
- ✓ Responsible for final product testing.
- ✓ Test report handling.
- ✓ Analytical Testing like GPC, formaldehyde content, epoxy equivalent, Amine Value, Softening range, viscosity, solid content, Boiling range of solvent, Specific gravity.
- ✓ Physical testing like Tensile strength, peel strength, Tack time, pot life.

Previous Exposure:

- ✓ As Assistant R & D at Merino Industries Limited from Jun 2018 to April 2019.
- ✓ Merino Industries Limited is a one of the leading manufacturer and exporter of High Pressure Laminate.

Instrument Exposure:

- ✓ Method development, Maintenance, Operation and Analysis using High Pressure Liquid Chromatography (HPLC).
- ✓ Molecular Weight Analysis using Gel Permeation Chromatography (GPC).
- ✓ Done LC development certificate course from Waters.

Quality Control :

- ✓ Monitoring quality control from raw material to final product testing.
- ✓ Chemical analysis: Titration, Resin preparation mainly mf uf and resoles.
- ✓ Equipment Handling: Scratch testing machine, UTS machine, Abration Testing Machine.
- ✓ Making of final test report of laminate.

Development Project :

- ✓ Reduction of unreacted phenol and formaldehyde by changing of Pf resin preparation method and recipe.
- ✓ Increasing of flexibility in Melamine Formaldehyde resin and any resin related problem in production. Also solved fire retardant chemicals problem in resin.
- ✓ Reuse of low molecular weight pf resin at impregnation.
- ✓ Increasing of Flexibility pf resin post forming grade.

Peer Group Comparison :

- ✓ Study and market research of different company products to sustain at a position in Global Market.

Academics :

Examinations/Courses	Board/Council/University	Year	Marks Obtained
B.Tech in Polymer Science And Technology	Calcutta University (C.U.)	2018	7.8 CGPA
Bachelor in Science (B.Sc)	Calcutta University (C.U.)	2015	58.75%
Higher Secondary – Science	W.B.C.H.S.E	2012	67%
Madhyamik	W.B.B.S.E	2010	74.75%

Computer Literacy :

Comfortable working in a computerized environment.

Done Diploma In information technology application (DITA), Spreadsheet Package (Microsoft Excel), Word Processing Application (Microsoft Word) and Internet/Intranet application.

Industrial Summer Training :

- ✓ Name of the Industry: BKT Tire of Shiyaram Podder group.
- ✓ Duration: One and half months.
- ✓ Technical Exposure: Whole Plant Training including project.

Project: On mixing & lab, mainly comparative study on physical property of a particular tire compound with respect to the change of Ram pressure of Banbury Mixture.

Academic Project:

- ✓ Project Name: Synthesis & Characterisation of Graphene Quantum Dot.
- ✓ Duration: One year
- ✓ Guide: DR. D. Chottopadhyay

Scholarship Awarded

- ✓ State government Scholarship got in B.Tech Course.

Personal Details:

Date of Birth	: 01 st Aug 1994
Parent's Name	: Mr Kalyan Kumar Basak and Mrs Usha Basak
Marital Status	: Unmarried
Nationality	: Indian
Religion	: Hindu
Category	: General
Languages Known	: English Hindi and Bengali
<u>Expected Package</u>	: Negotiable

Declaration:

I hereby solemnly declare that all the statements made above are true to the best of my knowledge and belief. I believe in my potential and am confident to take any sort of responsibilities under any circumstances.

Signature

