

PRASAD KUMAR PATRO

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Seeking senior assignments in R &D/Production / Quality Assurance with an organisation of high repute in Paint, Resin or Ink industry.

Snapshot

A professional with nearly 18 years of experience in R&D, Production Management (Industrial coating and Decorative Paints), Quality Assurance, in the Resin & Paint industry. Proficient in developing & streamlining systems with proven ability to enhance operational effectiveness and meet operational goals within the cost, time & quality parameters. Well versed with scaling up techniques & accelerated stability studies of products developed at lab scales. Technical knowledge of Paints based on Epoxy, P.U, Polyester, Acrylics, Emulsion, Nitrocellulose, Amino resins etc. Knowledge about role of Additives, Solvents, Pigments, Binder's etc. in the formulation. Sound understanding of new products development, planning & conducting experiments inline with the assigned projects. Guiding Executives, Officers.

Experience in developing new product for Industrial segment and Architectural segment. Provide support to production for scale up or any other issues during production. Attend customer complaints, Optimization of formulation or processing route to reduce cycle time.

Experience in conceptualising profitable production projects and managing operations encompassing procurement, quality and industrial relations. Deft at managing the validation & calibration of systems and review of departmental documentation. Possesses strong research, analytical, problem-solving and interpersonal communication skills.

Professional Experience

Nov'19- Till date: Evergreen paints (I) Pvt Ltd, Indore, M.P, as a Manager

**April'19 - May'19: Esdee Paints Ltd., Thane, Mumbai as R & D Manager
An Industrial coating, Architectural paints and Automotive Paints mfg.**

Jan'17- Mar'19: Neo pack plast (I) Pvt Ltd, Vapi, Gujarat as R & D Manager

An Industrial coating, Architectural paints & Resin mfg. company

June'12- Mar'15: Behr Process Paints, Pune as SR.Chemist(R & D)

A U.S.Based Decorative paints mfg. company

**March'11- Mar'12 A.K. Paints, Nashik as Technical Manager
-An Industrial paints mfg. company**

May'09-Jan'11: Vimal Paints, Mehsana as Technical Manager

An Industrial coating, Resin & Decorative paints mfg. company

**Aug'05-Jan'08: Esdee Paints, Ahmedabad as Sr. Chemist
- An Auto Paint as well as Industrial & Deco Paint Manufacturing Company.**

**Feb'00-Jul'05: Surfa Coats, Pune as Chemist
- A Water based Paints Manufacturing Company.**

**Nov'97-Jan'00: Macro Molecular Products, Hyderabad as Chemist
-An Alkyd Resin Manufacturing Company.**

CHIEF TASKS:

Production

- Overseeing production of various paints and implementing plans with a view to ensure timely accomplishment of production targets within the cost parameters.
- Ensuring quality product delivery; managing overall operations involved in production planning including coordinating in marketing, manpower management, supplies and up-time of equipment.
- Monitoring functioning of plant; implementing many recycle / re-use schemes for reducing pollution loads and improving recoveries.
- Streamlining of inventory, reduced rejection by strict production control.
- Production handling of Alkyd Resin, Modified Resin, Saturated polyester resin, Polyamide & Polyamine adducts.
- Maximum team size handled- 50 Nos.

Quality System Implementation / Process Improvement

- Setting up facilities in the organisation to spearhead quality management initiatives.
- Establishing quality management systems across various processes to meet the pre-set quality standards and reduce rejection levels.
- Imparting training to all employees, pertaining to quality implementation and productivity improvement.
- **Handling activities like**- Quality check of incoming raw materials (phthalic content, melting point, acid value, colour, pH, viscosity by Ford cup B4, B6, Brookfield & Stormer viscometer, solid content, %age Fe, %age Zinc, NCO content, Hydroxyl value, EEW, Amine value, etc.), Finish goods testing (QUV test, Natural weathering, Contrast ratio, Reflective index, Tint strength, potlife, Adhesion by cross cut and by pull off Adhesion tester, pencil hardness, Scratch hardness, Bend test, Impact resistance, Abrasion resistance, Scrub resistance, Salt spray, Block resistance, etc). Bench marking against competitors products, Periodically testing of samples, customer services etc.

Operations Management

- Planning and effecting preventive maintenance schedules of various machinery and instruments to increase machine uptime and equipment reliability.
- Responsible for CGMP implementation and safety operations; preparing production reports and training records for the changes intended /made; ensuring that all operations are carried out in conformance with Current Good Manufacturing Practices.
- **Handling activities like**-
- Production department related to overall PDRs / CCFs for changes & subsequent regularization.
- Batches such as cement paint, latex paint, water based primers, textured coatings, exterior emulsion paint, water based enamel, trowal coating, acrylic washable distemper, wall plaster, Alkyd based primers and Paints, Epoxy primers, Epoxy paints (2K), Polyurethane Paints, Polyurethane lacquers, Chlorinated rubber based paints and lacquer, Nitrocellulose based paints and lacquers, Melamine Lacquer, Anticorrosive coating etc.

Research & Development

- New product development, quality improvement and cost optimization of existing products with the help of raw material and new Technology.
- Testing of new products and optimized products thoroughly with ISO, ASTM and as per standard testing procedures & practices by the customer prior to transferring the formulation to production department and before releasing the product into market.
- Providing Technical support to marketing personnels whenever needed, by visiting the worksite or during product approval.
- Evaluation of alternate raw materials to develop alternate vendor and cooperate to improve properties, boosting the bargaining power ultimately reducing cost and dependencies.
- Working along with across the departments during new development and working with vendors to improve quality of product or to change the production process & testing procedure for ease of production and time reduction.
- Fulfilling the task within the timeframe and sometimes before the target date.
- Providing technical support to subordinates and sometimes gather information from vendors and information transfer to the R&D team.
- Cost reduction without affecting the quality.
- Raw materials evaluation for substitute, for cost, quality optimization, to increase bargaining power and to develop the product as required by the market and sometimes customized products developed for customer satisfaction.
- Make pilot batches, visiting to production floor during the batch making of new formulations or modified existing batches.
- Attain customer complaint along with marketing person to solve the problem and to build confidence among the marketing team.
- Shade development and helps in shade matching, before transferring the formulation for regular production.

NOTABLES:

At Neo pack plast

- Coating product modifications/ Cost reduction/ Quality improvement to satisfy customers and market need.
- New coating development (Industrial/ Architectural)
- New shade development or for product expansion as sales support.
- Competitor product evaluation and development.
- Vendor development for new RM to develop new product/ product modifications/ quality improvement/ RM substitution.
- Conceptualize projects with vendors.
- Knowledge of coating test & method establishment.
- Good knowledge of RM used.
- Preparation of customer samples and training to customer/ sales team.
- Solve customers complaints & root cause analysis.

- Develop production process for new/ regular products as required.
- Management of plant requirement & instrument calibration.
- Knowledge of coating standards & literature search.
- Technical training (in-house & at customer end).

At Behr Process Paints

- Product modification of Exterior & Interior Emulsion paints to improve consumer union rating, cost reduction by using technology and better raw material, wash water study, economic product developed for Mexico market, emulsion evaluation to improve exterior durability, dirt pick up resistance & many other properties.
- Evaluation of wetting & Dispersing agents, Rheology modifier, Biocides, coalescing agents to reduce voc, Opaque polymer.
- Successfully reduced voc from 100 to 25 for exterior emulsion paint and zero voc for interior.
- Concrete stain, cool roof coating.
- Primer for India market with the help of local raw material.
- High voc colorant, low voc colorant development.
- Completed projects: - alternate resin study, 0VOC projects, Dispersant study, Extender study, U.V. study etc, ..
- **New areas of learning**:- Air clean projects. Conducting paint, Hydrophobic coating, Multi-color (depend on temperature) & Polymers synthesis.

At A.K. Paints

- Products handled are Epoxy paints, P.U. paints, N.C. paints, C.R. paints, Alkyd enamels, semi-gloss, matt, Fast drying paints.
- Product modification by better raw material, Revised the existing formulations by using new technology, production process simplification, reduce batch making time, fixing the products to match market price without compromising on quality.
- Customize product development as per customer needs.
- Took initiatives to make lead & chrome free paints & launched too.
- Products developed for govt. tenders (Navy, Railway).
- Inventory management, reduce waste generation, recycling of return stock from dealers.
- **New products developed are** Waterborne coatings, reduce voc by using high solid and low viscosity binder, P.U. matt black for vega helmet, P.U. matt for agricultural & earth moving equipment.
- Industrial visit to attend complain as well as new development.
- ISO documentation and handling of audit.

At Vimal Paints

- Products handled are Epoxy paints, P.U. paints, N.C. paints, C.R. paints, Alkyd enamels, semi-gloss, matt, Fast drying paints, Alkyd resin, Waterbase Architectural Paints.
- Revised some of the existing formulations without compromising on quality by introducing some opaque extenders to cut down titanium di-oxide, so the overall cost.
- Customize product development as per customer needs.
- Took initiatives to make lead & chrome free paints & launched too.
- Products developed for govt. tenders (Navy, Railway).
- Inventory management by reduce, recycling of waste generation.
- Industrial visit to attend complain as well as new development to assist marketing team.
- Successfully extended product range. Added some new product like N.C. Paints, P.U. Paints, etc.
- Worked on cost reduction of existing formulations by using technology and better raw material.
- **New products developed** are N.C. clear, N.C. sanding sealer, Wood stain, Bituminous black for pipe coating, Waterborne Epoxy for concrete coating, C.R. clear.
- Handling of ISO audit and record maintain.
- Vendor management and appraisal. Alternate vendor development to increase bargaining power and reduce dependency.

At Esdee Paints

Products handled are Water based paints, Alkyd Paints, N.C. Paints, EPOXY Paints, Polyurethane Paints, Melamine Lacquer, Shade development etc.

- New formulation's for pipeline coating, High solid EPOXY, fast drying enamel, Stipple finish, Lustre Coating.
- Modifications of existing formulation's by ladder study of Dispersing agents, Resin and by some speciality additives.
- Pilot batches handling of new formulation's before releasing to production department.
- Handled the developments of Decorative paints starting from development to production (pilot) stage.
- Achieved cost reduction of the existing products by modifying formulations & implementing some new raw materials.
- Developed complete range of interior & exterior bases of emulsion paint.
- Shade matching and new shades development
- Development of universal stainers, product modification using new technology and raw materials.
- **New products developed are** :- Soft feel coating developed for interior application, Exterior tile guard.
- Providing technical support to production team during release of new formulation for production,
- Process simplification, guiding the production peoples on process development for better quality, time reduction & to minimize production loss.

- Handled ISO internal audit, ISOdocumentation.

At Surfacoats

- New product development, product modifications of cement paints, Exterior & Interior emulsion paints, Acrylic Distemper, Waterbasedprimer.
- Raw material testing, Finished producttesting.
- Revised some of the existing formulations of cement paint & water base primer without compromising on quality by introducing some opaque extenders to cut down titanium di-oxide, so the overallcost.
- Customize shades development as per customerdemand.
- Took initiatives to add dispersing agent into cement paint to reduce pigment consumption & quality product with easy to add water concept, finer extendersintroduced.
- Maintain ISO documentation, ISI record maintain and testing of raw material as per Indianstandard.
- Inventory management by recycle & reuse of reject material or oldstock.
- Worked on cost reduction of primerformulation.
- Development of new shades, and Shade matching of productionbatches.
- **New initiatives** Interior emulsion base developed, Dispersing agent into cement paint.Cost cutting ofprimer.
- **New product development - texture coating (trowel, spray), Dry powder based cementputty.**

Academic

2016 **M.Sc.(Tech.), Surface coating** from ISTAR, V.V.Nagar, Gujarat
 2010 **MBA (International Business, Finance)** from Nirma Institute of Management, Ahmadabad
 2001 Diploma in Paints Technology from JRVGTI, PUNE
 1998 **B.Sc.** from Gunupur College, Gunupur, Berhampur University

Personal Dossier

DateofBirth : 20th May,1977
 PermanentAddress : C/o. Mr. Tirupati Patro, At Near Block Colony, P.O. Kasinagar, District Gajapati 761206
 PresentAddress : 27, Evershine colony, Near Agarwal Public School, Indore- 452016
 LinguisticAbilities : English, Hindi, Oriya, Telugu, Gujarati andMarathi
 Strengths : Self motivated, open to new ideas, continuous learning, dedicated,
 punctual Weakness : Emotional, shorttemper.