

Dr. Pinaki Ranjan Samanta



Research & Development, Quality Control, Instrumentation and Regulatory Affairs Professional

A passionate and motivated regulatory affairs professionals and highly focused, result-driven Analytical scientist with credible experience on commercialization of products from R&D stage to follow through entire innovation process by reverse engineering using all the state-of-the art analytical tools. Besides routine R&D deliverables, also be responsible for all new product developments, cost reduction and margin improvement initiatives in all existing products and responsible for product validation, Quality control, new RM developments and bringing operational efficiency through product formulations for all our operations globally.

 pr.samanta@gmail.com
 +91- 9810235136/7982145622
 Delhi, India
 pinakisamanta 9810235136

<https://www.linkedin.com/in/dr-pinaki-ranjan-samanta660b7729/>

Skills

- Process Improvement
- Technology Transfers
- Reverse Engineering
- Research & Development
- Quality Management
- Product Analysis
- Laboratory Operations
- Regulatory Affairs
- Training and Development
- Leadership
- Team Management

Education

- **Ph. D** in Chemistry.
- **M.Sc** in Organic Chemistry and polymer science
- **B. Sc (Hons)** in Chemistry.
- **PG Diploma** in Paint Technology.

Equipment Handling

- Gas Chromatography(GC)
- Thin layer Chromatography
- Fourier Transform Infrared

Profile| About Me

- Dynamic professional with **over 28** years of rich experience in **Analytical Research & Development and Quality Control of Industrial products of paint, printing inks from** laboratory scale to commercial batches.
- Responsible for ensuring the operations effectiveness of **Regulatory Affairs** activities throughout the organization.
- Innovative mind for **new development** as per the market trend analysis.
- Positivity to take any challenging and tough **task** in simple manner for smooth and successful **execution**.
- Creativity in terms of **converting market** need into idea and idea into product
- Expertise to **conduct research** into composition, structure, properties and relationships of various formulations.
- Analytical mind and skills to **cross validate**, assure and identify chemical formulations.
- A certified **Internal Auditor as per LQMS (ISO 17025)**, from scratch created a highly successful Quality Assurance department that consistently exceeded stretch goals for all quality metrics.
- Improvement of existing product through **de-formulation and reformulation**.
- Distinguished for coordinating product development/customization functions including processing, compounding, formulation development, requirement analysis and finalizing specifications of **Polymer technology**.
- Possesses a clear understanding to industry, technology trends with distinction of instituting **Quality Control** techniques to achieve product excellence at the lowest overall cost
- A keen communicator with honed problem solving and analytical abilities.

Organizational Experience



UFlex Limited(Chemicals Business) Since May2014
Senior Manager (R&D – Regulatory Affairs and Instrumentation)

- Tracking regulatory changes (standards/directives/guidance documents) and managing the initiation of applicable updates to relevant processes.
- Development by Reverse Engineering the competitor product using various state of the art instruments to validate and ensure our products existence, quality to compete current market trends and identifying the current need of development. Analysis/reverse engineering of competitors product/formulation and come up with the comprehensive results and data to develop new innovative product or to assure company product quality w.r.t competitor product.
- Involve in analyzing the research data and scientific reports for the specific projects with the help of state-of-the-art analytical instruments to come up with the detailed outcome and paper on relevant fields

Spectroscopy (FTIR)-ATR

- Py-GC-MS
- Gloss Meter / Opacity meter
- Ford Cup /Stormer/Oswald
- Brookfield Viscometer
- LC-MS
- MFFT
- Adhesion Tester-Cross Hatch & Tensile Adhesion Strength
- Gardner /APHA/Lovibond color
- DSC
- HPLC
- AAS
- UV-VIS Spectrophotometer
- Light fastness Tester
- KF Titrator
- Particle Size Analyser
- COF Tester
- Tensiometer
- GPC
- Rota evaporator



SWOT Analysis

S - Strength

- Good communication and motivation skill.
- Ability to work under pressure.
- Organized and determined.
- Flexible, adaptable and problem solver.

W - Weakness

- Emotional, can get stress easily.
- Can appear shy when meeting with new people.
- Self-criticism.
- Difficult to solve unexpected problem.

O - Opportunities

- Networking and strategic contact.
- Previous experience.
- Create exciting concept and convert into business.
- Able to learn the art of persuasion and applying it.

T - Threats

- Fear of failure and wasting time.
- High number of qualified competitors in the market.
- Wrong move or mistake will ruin personal or company image.

- Involve in new product development such as resin system, coatings (UV and LED curable), adhesive (water based and solvent based), natural polymers functionalization related to packaging field.
- Develop new product through carrying out synthesis as per the customer needs
- Ability to analyze technical aspects of projects, and determines methods and techniques to be used and principles to be applied.
- Prepare standards and specification for processes, facilities, products, and tests.
- Conduct research into composition, structure, properties and relationships of Inks and Coatings, and raw materials used in their formulation.
- Key member of NABL team responsible for all documentation and technical part to fulfill ISO 17025 (2005 and 2017).

KEY ACHIEVEMENT @UFLEX CHEMICALS

- Credentials of helping to reduce the overall processing loss by 20% and efficiently increase 5% production during production cycle.
- New analytical method developed for OML, SML and other compliance methods.
- Establishment of New state of art Instrumentation and R&D lab.
- Establishing new Product Regulatory Affairs department and tracking global compliance changes.
- First Printing ink company in India to received NABL Certification of Laboratory.



Moser Baer India Limited

September 2005 to April 2014

Manager, R&D (Chemicals)



Shriram Institute for Industrial Research

(A Unit Of Shriram Scientific & Industrial Research Foundation)

Shriram Institute For Industrial Research
Scientist (Analytical Science Division)

March 1996 to August 2005



UK Paint Industries

Research and Development Officer (R&D)

August 1994 to February 1996



Coromandel Paints and Chemicals limited
Trainee Chemist (R&D)

October 1993 to July 1994



- Applications and Software in **GC-MS**, in Middleburg, The Netherlands.
- Applications and Software in **LC-MS**, in Melbourne, Australia.
- Modern Instrumentation technique like **FT-IR, UV-VIS, MS, AAS, GC-MS** in CDRI, India.
- Various training on Management skills (**Creativity and Innovation, Perfect planning and flawless execution, personal Branding etc.**) by internal and external faculty in Training room of Uflex and Moser Baer or different management Institute.
- Training on "**Behavior Based safety**" by Chilworth Technology Pvt. Ltd (DEKRA).
- Three days "**Team Building Workshop**" by Destination Outdoor Pvt. Ltd.
- Training on **ISO 17025 (2005 and 2017)** by NITS- BIS and FICCI, New Delhi.
- Training on Printing Inks Food Packaging **Compliances**.



Core Competencies

Research and Developments

- Upgrade and modification of existing products.
- Cost Effective.
- Fostering Innovations.
- Vendor development

Instrumentations

- Test result monitoring and reporting.
- Method validation and implementation.
- Problem solving
- Instrument maintenance and operations.

Product safety and Regulations (PSR)

- Tracing regulatory changes
- Confidentiality and data security.
- Liaising.

Quality Control (QC)

- Quality consistency
- Customer complaint analysis
- Improvement orientations.



IT Skills

- MS Office (Word, Excel, Power Point).



Personality

Traits

- Analytical abilities
- Problem solving
- Effective communications
- People Management.
- Decision making.
- Relationship management.
- Team Player



Significant Achievements (Impact)

Technologies Developed

- Low Migration Technology formulation for food packaging applications.
- Hybrid Nano composite Scattering film for Internal Light Extraction (ILE) from OLEF
- Analytical Method Development for complete analysis of competitor samples through Instruments.
- Improvement of Light efficacy for Blue LED through high refractive Index UV Curable coating.
- Developed Laser sensitive dye for optical data storage.

Teamwork and Management

- Set up a State-of-the-art Research and Development Centre along with Instrumentation cell within pre-size budget
- Perfect team-person, easily adaptable in different cultures, have capability to put people at ease, using resources in a most optimum manner to manage lab capex.
- Provided a higher level of customer relations, promoted the research and knowledge culture through coaching, guidance and staff motivation.

Converting work into intellectual property (Publications)

- Excellent writing skills converting experimental into intellectual property, published 15 research papers in peer reviewed national and international journals.

Certifications

- Certified Internal Auditor ISO 17025 (2005 and 2017)

Rewards and Recognition

- **STRIKERS** (Team Award) - Bi-Annual (Apr'17-Sep'17) for being key team player to receive NABL Accreditation for India's first ever Inks and Adhesive manufacturer getting.
- Best "**INNOVATION AWARD**" in the year 2011-2012 in the field of Chemicals at Moser Baer India Ltd.
- Select "**KEY RESOURCE PERSON**" in the year 2011-2012 among 6000 employees at Moser Baer India Ltd.
- Adjudge "**BEST EMPLOYEE**" in the year 2001 - 2002 and 2004-2005 at Shriram Institute for Industrial Research.

PROJECTS

- **Completed** at least **40** different type of sponsored or In-house projects in different organizations.

RESEARCH INTEREST

- New product development, Reverse Engineering of polymeric formulation of Ink, Adhesive and Coatings, Functionalization and modification of polymeric materials and natural polymers.
- Extensively used instruments such as FTIR, UV-Visible and Diffuse Reflectance Spectrophotometer (DRS), GC, Py-GC-MS, GC- HS, HPLC, LCMS, GPC, AAS, SEM, AFM, PSA, TGA and DSC, All type of Viscometers, HPTLC etc.

Date of Birth: 2nd January 1968

Permanent Address: House No:DA-538, DA-Block, DDA SFS Flats, Shalimar Bagh, Delhi -110088, India.

Languages Known: Bengali, English & Hindi

Gender: Male

Religion: Hindu

Marital Status: Married