

Resume

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Current Location : Udaipur
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08233818579
Years of Experience: 16 Year(s)
Qualification : M.Sc (Chemical Science)
PPG Course : Ph.D / Doctorate
Current Position : Assistant professor

Personal Information:

Name : Dr. Pradhyuman Singh Ranawat
Date of Birth : May 20, 1975
Gender : Male
Marital Status : Married

Contact Information:

Mailing Address : "NIRANKAR", NEAR SONI SARAY,
FATEHNAGAR
UDAIPUR, RAJASTHAN
PIN CODE - 313205

Professional Experience

From August 2004 to July 2007 worked as Chemist R&D in Central Research and Development Laboratory of M/s Hindustan Zinc Limited, Debari –Udaipur (Rajasthan).

Work Experience and R&D project execute:

"Recover selenium as a metal from anode slime of copper plant".

"Cobalt oxide recovery from B-cake".

"Zinc recovery from Moore cake".

"Effluent treatment of selenium recovery".

"Recovery of gold from ore of Jagpura mines (Rajasthan) by carbon absorption technique and gold was recovered as metal.

"Silver recovery form Moore cake and Graphitic carbon.

"Recovery of Cu, Cd from Cu-Cd sponge of ZnSO₄ purification".

"Recovery of Cd as CdS from HGP dust and Pb as metal by pyrometallurgy process & Pb purity approx 99.9%.

"Best knowledge of precious metal process plant" (nodules collect from ocean) the plant working is based on solvent extraction method.

Other R&D Work:

Extraction of Valuable product by solvent Extraction.

Bacterial activity of synthesized organic compound.

Biological wastewater treatment: Removal of heavy metals from effluent by Sulfate Reducing Bacteria (SRB) *Desulfovibrio desulfuricans* species.

Bioleaching: Leaching of Zn from bulk concentrate using *Thiobacillus Thiooxidans*.

Biofloatation: To easily flotation of the Pb, Zn by adding of *Thiobacillus* bacteria without any addition of chemicals.

From July 2007 to July 2009 worked as Asst. Manager (Laboratory) in M/s Rajasthan Waste Management Project (Div. of Ramky Enviro Engineers Ltd.).

Report to : VP & GM Region

Key Responsibility:

Second Level Management of Integrated Common Hazardous Waste Treatment Storage Disposal Facility Plant of Rajasthan State.

Compliance of Legal Requirement as per CFE, CFO, Authorization & EHS under Environment (Protection) Act, 1986 Water Act 1974, Air Act, & Hazardous Waste (Management & Handling) Rules 1986.

Management of Secured Landfill, Incineration, & Effluent Treatment Plant, Leachate Management system as per Good Management Practice.

Record keeping of all process as per Integrated ISO (9000,14000 & 18000).

Monitoring Schedule & Data Preparation of Water, Soil, Air, & Noise.

Correspondence and visit with CPCB, SPCB, MoEF and other regulatory Authority.

Green Belt Management.

Key Skill:

Execution of Project (R&D for disposal of different hazardous waste).

Legal Compliance (EIA, CFE, CFO, Authorization, Environmental Statements, Annual Report, Compliance Report Preparation).

Environmental Management (Environmental Cell, Incineration, Secured Landfill, Waste Water, Hazardous Waste, Bio-Medical Waste, Evaporators, scrubbers).

Documentation (All legal documents, ISO related documentation, Monitoring Documents as per Environmental Legislations).

Monitoring (Planning & Sampling Module, Air, Water, Soil, Noise Monitoring).

Visit (CPCB, SPCB, & RO PCB's, Customers visit).

Database Preparation (Operational Manual for Rajasthan Waste Management Project, Udaipur, On Site Emergency Planning for RWMP).

An Internal auditor for integrated management system (ISO 9001:2001, EHS 14000:2004, and OHSAS 18000: 2007).

From Aug 2009 to Dec 2009 worked as Asst. Manager (QC) in M/s Western Drugs Pvt. Ltd. MIA, Udaipur).

Having knowledge of pharmacopeia of USP, BP, IP, Japanese, FCC and EP etc.

Production activity of Niacin and Niacinamide with using of Beta picoline and 3-cyno pyridine.

Raw material analysis which using for production of drug.
Having knowledge of GMP for drug.
Having Microbiological analysis experience for Hygiene & drug products.
Having an Audit Experience to face customer audit (Wyeth, JOL, Abbot Lab.) & WHO GMP audit.
Attend Seminar for "Implementing New & Updated USP Chapters" held at Ahmadabad.

From Jan 2010 to Feb 2014 worked as Manager (QC) in M/s Rajasthan Barytes Ltd. MIA, Udaipur.

Managing the QC Dept, R&D related work, R&D for desire mineral products, Hygiene Quality control of our prime product with plant and lab control, Microbiology lab operation. Representing customer audit & Complain with joint analysis. Develop new product for , Colgate pamolive, Hindustan Liver Limited, Asian paints, abc paper, Trident paper, Burger Paints.

From march 2014 to june 2018 I am running my own business for Pest control Services Which working with
Anti termite treatment for civil construction,
Domestic pest control,
Container fumigation with methyl bromide gas.
Warehouse treatment, storage treatment.
Hospitals pest control
OPD, OT, Microbiology lab, ICU ward fumigation.
Pre and post harvesting crop treatments etc.

Some major civil project are aslo completed as sub contractor :

Civil work landfill construction work at Dariba mines(Zerofix & SLF)
Chanderiya plants (Zerofix) (HZL Sites)
Domestic Seavrage project done at Jodhpur city and Balotra.

Literature Survey:

Literature Search through library, Internet, wikipedia.

Process development:

Raw material calculation
Preparation of Standard operating procedure
To conduct lab scale trials for standardization and stabilize of the process
Scale up trials from bench scale to pilot scale
Process improvement of existing product

Analysis:

Sampling, physical and chemical test.
Volumetric analysis for various elements.
Gravimetric analysis for Se, Sulphur, Elemental sulphur, Acid insoluble matter, Silica &

graphitic Carbon.

Elemental analysis by Flame and Furnace Atomic Absorption Spectrophotometer.

Water Analysis for various parameters like alkalinity, Chloride, total hardness, Sulphate, COD, Nitrate, Nitrite, total Solids & organic matter.

Instruments handled:

Atomic Absorption Spectrophotometer-Varian 220FS and 55B.

XRF

IR

RDS (AAQ)

VGA AAS

Graphite tube analyzer

Polarograph

UV spectrometer

Bomb calorimeter

Flame photometer

Karl Fisher for moisture determination

Particle size analyzer (Malvern mastersizer)

Known the working process of GCMS, HPLC, CHNS analyzer etc.

Education:

- B.Sc (BCZ) in 1997 from BNPG COLLEGE, UDAIPUR
 - M.Sc (Chemical science) in 1999 from BNPG COLLEGE, UDAIPUR
 - Bachelor of education in 2001 from GSTT college Vidhyabhawan, UDAIPUR
 - Ph.D / Doctorate (Chemistry) in 2007 from BNPG COLLEGE, UDAIPUR
 - LLB in 2016 from UNIVERSITY COLLEGE OF LAW
- Research topic "Microwave induced synthesis of some heterocyclic compounds"

Content of thesis:

1. Preface & Review
2. Synthesis of 1-substituted phenyl-3-(furan-2-yl)propenone in solvent and solvent less solid phase and their characterization.
3. Synthesis of 2-(1-pyrrolidinyl) 4-(substituted phenyl)-6-(furan-2-yl)pyrimidines.
4. Synthesis of N-phenyl 3-(substituted phenyl)-5-(furan-2-yl)- Δ^2 -pyrazolines.
5. Synthesis of 3-(substituted phenyl)-5-(furan-2-yl)- Δ^2 -isoxazolines.
6. Biological assay (antibacterial activity of synthesized compound).

Paper Publish:

"Microwave assisted synthesis of chalcones using Claisen-Schmidt condensation in dry media"

Ranawat Pradhyuman S., Jhala Y.S., Dulawat S.S., Verma B.L., Indian journal of Heterocycle Chemistry, 14, 357(2005).

"Microwave mediated Solid phase synthesis of N-phenyl-3-(substituted phenyl)-5-(furan-2-yl)- Δ^2 -pyrazolines and their Antibacterial activity"

Pradhyuman S. Ranawat, Sumer S. Chundawat, J.P.S. Naruka, Shiv S. Dulawat*, Indian Journal of chemist (2010).

3. One research paper is under communication with General of chemical sciences.

Paper presented:

“Synthesis of some new Pyrimidine derivatives under microwave irradiation”

A paper presented in 23rd Indian Council of Chemist annual conference held at Mumbai, Abs. 2004.

“Synthesis of several 2-(1-pyrrolidiny)-4-(substituted phenyl)-6-(furan-2-yl)pyrimidines as potential antibacterial agent.

A paper presented in 25th ICC Silver Jubilee Conference held at Kalyan Mumbai. Abs.; P-58, 2006.

Industry Information:

1

Previous Industry

Rajasthan Barytes Limited, Udaipur

Functional Area

R&D, QC

Total Years of Experience

4 year

Level in Organization

Manager QC

2

Previous Industry

:

Western drug Pvt Limited

Functional Area

:

Quality control

Total Years of Experience

:

6 Month

Level in Organization

:

Asst. Manager (QC)

3

Previous Industry

:

Rajasthan Waste Management Project
(Div. of Ramky Enviro Engineers Ltd.)

Functional Area

:

Analytical & Environmental

Total Years of Experience

:

2 Year(s)

Level in Organization

:

Asst. Manager (Analytical)

4

Previous Industry

:

Central Research and Developmental Laboratory,
Hindustan Zinc Limited, Debari, Udaipur

Functional Area

:

R&D (Ext. metallurgy)

Total Years of Experience

:

2 Year(s) 11 Month(s)

Level in Organization

:

Executive - Non-Managerial
Dr. P.S.Ranawat

