
MANGESH ASHOKRAO PANDE

Scientist (Pilot Plant)

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A Brief Experience: 20 Years experience in Chemicals, Fertilizers & Pesticides Process Plant.



Education

Pursued a “Diploma in Chemical Engineering (2000-2003) from Maharashtra State Board Technical Education, Mumbai.

Professional Experience (20+Yrs)

- 28th May 2008 to Present: **Scientist (Pilot Plant)**, Institute of Pesticide Formulation Technology, Gurugram (HR), India.
- 1st August 2005 to 26th May 2008: **Shift In-Charge** (Fully Automatic Process PLC & SCADA based Plant), In project of Defence Research And Development Organization (DRDO),CFEES for Harnil Techno Consultants, Borkhedi camp Butibori, Nagpur ,Maharashtra, India.
- 2th August 2004 to 31st July 2005: **Assistant Shift-In-Charge** (Production Plant: SSP, GSP, NPK & Sulphuric Acid Plant), BEC Fertilizers Pvt. Ltd, Pulgoan, Maharashtra , India.
- 7th October 2003 to 31st July 2004: **Trainee Diploma Engineer (Chemical / Bulk Drug Manufacture Plant)**, Multi Organic Pvt. Limited, Chandrapur, Maharashtra, India.
- From 16th February 2015 to 2019: Empanelment as an **Academic Counsellor**, for Post Graduate Diploma in Analytical Chemistry, Indira Gandhi National Open University (IGNOU), New Delhi.

Pilot Scale: Technology Transferred to Industries

Pilot Scale Process Development during last five years

- 1) **Botanical based Hand Sanitizer, UNIDO, Vienna**, (under sponsored project development and production of hand sanitizers using less hazardous chemicals and botanical antimicrobial based formulations)

2) **Neem oil based formulations 05 Nos.** (Under sponsored Project Development and Promotion of Non-POPs alternatives to DDT”, **UNIDO, Vienna**)

- Suspension Concentrate (SC),.
- Spreading Oil (SO),
- Topical Cream,
- Repellant Coil
- Tablet formulations

3) **Bacillus.T (Bti) based, formulations 03 Nos.** (Under sponsored Project Development and Promotion of Non-POPs alternatives to DDT”, **UNIDO, Vienna**).

- Suspension Concentrate (SC)
- Spreading Oil (SO),
- Wettable Powder (WP),

APPRECIATION AND AWARD

- 1) Active member in OPCW proficiency test for “**Designation of IPFT by OPCW**”, Director’s award in 2011.
- 2) Director’s best performance award for outstanding contribution in “**the Analysis of Pesticide and Their Residues**” in 2013
- 3) “**Excellence in Sustainability in Chemical**” (public sector), FICCI Chemical & Petrochemicals award to IPFT in 2021.
- 4) “**Director’s Appreciation letter**” for erection and creation of infrastructure, repair and maintenance work of the institute through agencies like Central Public Work Department and others besides keeping the pilot plant well functional in 2023.

Research Publication

- 1) Monitoring of Multiclass Pesticide Residue found in farmland water of Haryana districts. World Journal of Pharmaceutical Research Volume 5, Issue8:744-752.
- 2) Persistence and dissipation of Difenconazole residues in chili fruit and field soil. 3th International IUPAC Conference on Agrochemical Protective Crops, Health and Natural Environment held at New Delhi, 6-9 April: p140.
- 3) Synthesis of Thiobarbituric acid and analysis by HPLC technique. 3th International IUPAC Conference on Agrochemical Protective Crops, Health and Natural Environment held at New Delhi, 6-9 April: p 216.
- 4) Determination of persistence and dissipation behavior of Azoxystrobin residues in grapes

berries and field soil by LC-MS/MS. 3th International IUPAC Conference on Agrochemical Protective Crops, Health and Natural Environment held at New Delhi, 6-9 April: p 218.

5) Residual fate and dissipation of fipronil 80% WG in grapes,berries and field soil. 3th International IUPAC Conference on Agrochemical Protective Crops, Health and Natural Environment held at New Delhi, 6-9 April: p 221.

6) Monitoring of Multiclass Pesticide Residues in farmland soil from different Districts of Haryana Jurnal : Agriculture Research Journal volume 54 (1):47-52 DOI NO.10.5958/2395-146X.2017.00008.4.

Conferences

1. Attended 4th international IUPAC conference on agrochemical protective crops, health and natural environment at New Delhi in 2020.
2. Attended 15th ICUPAC International congress of crop Protection Chemistry in 2023.