

## **Biodata**

(4 April 2024)

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### **Educational Qualifications**

- B.E. (Civil Engineering): Thapar Institute of Engineering & Technology, Patiala (1992-1996)
- M.E. (Environmental Engineering): Thapar Institute of Engineering & Technology, Patiala (2000)  
**Title:** Factor analysis of River Satluj Water Quality Data  
**Supervisors:** Dr Pramod Kumar (TIET, Patiala) & Prof. Indu Mehrotra (IIT, Roorkee)
- PhD (Environmental Science): Guru Nanak Dev University, Amritsar (2013)  
**Title:** Removal of Chromium from Wastewater using Electrocoagulation  
**Supervisors:** Prof. A K Thukral (GNDU) & Prof. A S Reddy (TIET, Patiala)

### **Fellowship**

- Fellow of Institute of Engineer (India)
- Fellow of National Environment Science Academy, New Delhi

### **Administrative Experience: 3 years** (Total experience: 23 years)

- Head, Department of Botanical and Environmental Sciences, GNDU, Amritsar (2017-2020)

### **Publications: 80**

Research Publications	:	55
Book Chapter	:	1
Popular Articles	:	4
Social Impact Assessment studies	:	2
Technical reports	:	18

**PhD supervision:** Awarded: 3      Ongoing: 1

### **Special contributions**

- Expert Reviewer- ***Climate Change 2023 Synthesis report*** by UNEP and WMO.
- Contributed in ***261<sup>st</sup> report of Parliamentary Standing Committee by Rajya Sabha*** related to Pollution in Tier-II cities: Ludhiana and Amritsar in year 2015.

## **Statutory Membership**

State Expert Appraisal Committee (SEAC), Punjab by The *Ministry of Environment & Forests*, Government of India vide The Gazette of India notification during 2014-2017 and 2017-2020.

## **Research Projects completed**

### Principal Investigator

Diminution of arsenic and fluoride from drinking water using electrocoagulation and nanoparticle based adsorbents  
*Funding agency:* UGC (2015-2018)

### Co-Principal Investigator

Targeting low-arsenic and low-fluoride groundwater to reduce exposure in rural Punjab  
*Funding agency:* USAID (2013-2017)

## **International Training**

University of Hull, UK under **Newton-Bhabha Fellowship** in Advanced Wastewater Treatment during September-October 2016

## **Course Coordinator: 4**

- UGC-HRDC, GNDU, Amritsar- Refresher Course on Disaster Management in year 2015
- UGC-HRDC, GNDU, Amritsar - Refresher course on Environment Conservation in year 2020
- UGC-HRDC, GNDU, Amritsar - Summer School on Environment & Sustainable Habitat in year 2021
- Co-coordinator of GIAN course on Carbon Capture & Sequestration from 12-16 December 2016

**Funding Reviewer:** DST-SERB schemes like EMR, ECR, National-PDF, Civil & Environmental Engineering, Chemical Engineering, CSIR First Scheme.

## **Academic recognition**

- Top Reviewer (10%) in Environmental Sciences (2016) by Publons ([Clarivate Analytica](#)), USA
- Top Reviewer (1%) in Multidisciplinary field (2017) by Publons ([Clarivate Analytica](#)), USA

## **Invited Lectures: 120**

**Special interests:** Design of Experiments (DOE) based experimental design optimization, Fractional factorial design (Resolution-III, IV & V), Response Surface Design, Mixture Design, Screening of significant process variables using Design-Expert software.

**Societal contribution:** Donated 30 units of blood in the last 15 years

**Countries visited:** USA, Canada, UK