

Brief Biodata

Name: Goutam Mandal

Designation:	Senior Principal Scientist	
DP No. and Name:	7.09, Quality Management System	
DU No. and Name:	7, Directorate	
Email:	goutam@nplindia.org	
Date of Joining CSIR-NPL:	04.03.2002	
Phone (office)	011-45609435	

Research Area / Interest

- Quality Management System
- Mass, Volume, Density and Viscosity Metrology

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
BE	Electrical Engineering	Jadavpur University, Kolkata	1999
Ph.D	Engineering	Indian Institute of Technology (Indian School of Mines), Dhanbad	Pursuing

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Senior Principal Scientist, Gr. IV(5)	CSIR - National Physical Laboratory	04.03.2018	Till date	<ul style="list-style-type: none">• Implementation and monitoring of Quality System of CSIR-NPL.• Establishment, maintenance and up-gradation of National Standards of Mass, Volume, Density and Viscosity.• Technical operations and implementation of Quality System in Mass Metrology Section.
Principal Scientist, Gr. IV(4)		04.03.2014	03.03.2018	
Senior Scientist, Gr. IV(3)		04.03.2010	03.03.2014	
Scientist C/Scientist, Gr. IV(2)		04.03.2006	03.03.2010	
Scientist B/Junior Scientist, Gr. IV(1)		04.03.2002	03.03.2006	

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
12	2	35	1 (3 chapters)	50

Selected Publications

1. Goutam Mandal , M. A. Ansari, D. K. Aswal, Quality Management System at NPLI : Transition of ISO/IEC 17025 From 2005 to 2017 and Implementation of ISO 17034 : 2016, MAPAN – Journal of Metrology Society of India (MSI), Vol. 36(3), 2021, 657–668.
2. Santwana Pati, Goutam Mandal, Nidhi Singh, Manoj Kumar, D. C. Sharma, A Pilot Study on the Comparison of the Methods for Uncertainty Analysis of Micropipette Calibration, MAPAN – Journal of MSI, Vol. 36(2), 2021, 343–347.
3. Goutam Mandal, Anil Kumar, Sanjoy Mandal, D. C. Sharma, Manoj Kumar, Volume Measurement of Large Volumetric Vessel using Tap Water, MAPAN – Journal of MSI, Vol. 34(4), 2019, 487–493.
4. Anil Kumar, Harish Kumar, V. N. Ojha, Shakti Singh, Girija Moona, Satish, P. K. Dubey, H. K. Singh, Goutam Mandal, D. K. Aswal, National Physical Laboratory Demonstrates 1 g Kibble Balance : Linkage of Macroscopic Mass to Planck Constant, Current Science, Vol. 113(3), 2017, 381-382.
5. Goutam Mandal, Anil Kumar, Dinesh Chandra Sharma, Harish Kumar, Comparative Analysis of Different Air Density Equations, MAPAN – Journal of MSI, Vol. 28(1), 2013, 51-62.

Patents

Nil

Current Activities

(Not more than 100 words)

As Deputy Quality Manager, implementation and monitoring of Quality System based on ISO/IEC 17025 : 2017 and ISO 17034 : 2016 of 28 Sub-Divisions of CSIR-NPL which support existing 236 CMCs published in the International Bureau of Weights and Measures Key Comparison Database (BIPM KCDB).

Honour(s)/Award(s)/Fellowship(s)

Nil

Contributions to AcSIR

Faculty for one-year Post Graduate Diploma course on Precision Measurement and Quality Control (PGD-PMQC).

Membership of Professional Societies/ Institutions

- Life Member of Metrology Society of India (MSI)
- Life Member of Swadeshi Science Movement of India

Any other Information

(Not more than 100 words)

- Member of Asia Pacific Metrology Programme (APMP) Technical Committee for Quality System (TCQS).
- Empanelled Lead and Technical Assessor of National Accreditation Board for Testing and Calibration Laboratories (NABL) as per ISO/IEC 17025.
- Member of Bureau of Indian Standards (BIS) Committee on Conformity Assessment - National Mirror Committee (CASCO - NMC), MSD 14.
- Member of BIS Weights and Measures Sectional Committee, PGD 26.
- Convener of BIS Weights Measurements Sub-Committee, PGD 26:2.