


Brief Biodata

Name: RAMAN KUMAR SHARMA

Designation:	Technical Officer	
DP No. and Name:	1.06, Pressure, Vacuum and Ultrasonic Metrology Section	
DU No. and Name:	1.0, Physico- Mechanical Standards Division	
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Date of Joining CSIR-NPL:	29-08-2007	
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Research Area/ Interest

Pressure Metrology
(Hydraulic Pressure Standards Activities)

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
MS (M.E)	Manufacturing Management	Birla Institute of Technology and Science, Pilani	2012
AMIE (B.E)	Mechanical Engineering	Institution of Engineers India, Kolkata	2009
Diploma	Mechanical Engineering	Board of Technical Education, Delhi	2000

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Technical Officer	CSIR- National Physical Laboratory	29-08-2014	Till date	Pressure Metrology
Technical Assistant	CSIR- National Physical Laboratory	29-08-2007	29-08-2014	Pressure Metrology, Central Workshop

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
7	2	21	-	30

Selected Publications

1. **Raman Kumar Sharma**, Shanay Rab, Lalit Kumar, Afaqul Zafer and Sanjay Yadav, Design and development of an indigenous cross floating pressure calibration system up to 140 MPa (2021). <https://doi.org/10.1007/s12647-021-00450-4>
2. Shanay Rab, Afaqul Zafer, **Raman Sharma**, Lalit Kumar, Abid Haleem and Sanjay Yadav, National and Global Status of the High Pressure Measurement and Calibration Facilities, *Indian Journal of Pure and Applied Physics*, Volume 60, January 2022.
3. Shanay Rab, Sanjay Yadav, **Raman Sharma**, Lalit Kumar, V.K Gupta, Afaqul Zafer and Abid Haleem, Development of Hydraulic Cross Floating Valve, *Review of Scientific Instrument*, Volume 90, 2019 085102.
4. S.Rab, S. Yadav, AHaleem, A Zafer, **Raman Sharma** and Lalit Kumar, Simulation based design analysis of pressure chamber for metrological applications up to 200 MPa, *Indian Journal of Pure and Applied Physics*, Vol. 59, March 2021, pp. 202-205.
5. A Zafer, S. Yadav, Arif Sanjid , Lalit Kumar and **Raman Sharma**, Volume ratio and pressure drop on hydraulic dynamic pressure calibration system, *Journal of Mechanical Science and Technology*, 31(8):3769-3775

Patents

Nil

Current Activities

(Not more than 100 words)

Operation, maintenance and service of Hydraulic Pressure Standards.
Calibration, Consultancy and technical services for Indian Industries and other users.
Maintenance of quality documents as per ISO-17025 standards.
Organizing Training programs and conferences of the division.
Assistance in work of students, Indent and documentation work.
Internal calibration of all secondary standards for maintaining traceability.

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

1. Certificate of Merit in 2010 for outstanding work on Tri-Axial Helmholtz coil.
2. Won many prizes in Rajbhasha Hindi unit and Vigilance department competitions.

Contributions to AcSIR

Technical support in the experimental work of PhD students of the lab
Imparted practical training to PMQC students, M-Tech students and Jigyasa students.

Membership of Professional Societies/ Institutions

1. Associate member of Institution of Engineers India.
2. Life Member of Metrology Society of India (MSI).

Any other Information

(Not more than 100 words)

Nil