


Brief Biodata

Name: Dr. Naveen Garg

Designation:	Senior Principal Scientist and Head, Acoustics and Vibration Standards	
DP No. and Name:	Acoustics and Vibration Standards	
DU No. and Name:	Physico Mechanical Metrology Division	
Email:	ngarg@nplindia.org	
Date of Joining CSIR-NPL:	29.07.2004	
Phone (office)	011-45609386	

Research Area/ Interest

Acoustics and Vibration Metrology, Building Acoustics, Noise and Vibration Control

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
PhD	Mech. Engg	DTU, Delhi	2016
M.Tech	Mech. Engg	IIT Delhi	2003
B.E	Mech. Engg	MDU Rohtak	2001

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Sr. Principal Scientist	CSIR-National Physical Laboratory, New Delhi	29.07.2020	Till Date	Acoustics and Vibration Standards

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
55	3	50	2	110

Selected Publications

Books Published :

1. N Garg, **Environmental Noise Control: The Indian Perspectives in an International Context**, 2022, *Springer Nature*, Switzerland, <https://link.springer.com/book/10.1007/978-3-030-87828-3>.

Selected Publications:

1. S. K. Tiwari, L. A. Kumaraswamidhas, C. Gautam, N. Garg, An auto-encoder based LSTM model for prediction of ambient noise levels. *Applied Acoustics* 195 (2022) 108849.
2. S. K. Lokhande, N Garg, M C. Jain, S Rayalu, Evaluation and analysis of firecrackers noise: Measurement Uncertainty, legal noise regulations and noise induced hearing loss, *Applied Acoustics*, 186, 2022, 108462.
3. S. K. Tiwari, L. A. Kumaraswamidhas, N. Garg, Time-series prediction and forecasting of ambient noise levels using deep learning and machine learning techniques, *Noise Control Engr. J.* 70 (5), September-October 2022.
4. N. Garg, S. Rab, S K Varshney, S. K. Jaiswal and S. Yadav, Significance and implications of digital transformation in metrology in India, *Measurement: Sensors*, Volume 18, December 2021, 100248.
5. S. K. Tiwari, L. A. Kumaraswamidhas, N. Garg, Accuracy of Short-Term Noise Monitoring Strategy in Comparison to Long-Term Noise Monitoring Strategy, *Indian Journal of Pure & Applied Physics*, 49, 2021, 569-576.
6. N Garg, B S Chauhan, M Singh, Normative framework of noise mapping in India: Strategies, Implications and Challenges Ahead, *Acoustic Australia*, *Acoustics Australia* 49 (2021) 23-41
7. N Garg, B S Chauhan, M Singh, Realization and Dissemination of Unit Watt in Airborne Sound: Measurement Methodology, Sound Emission Regulations and Implications, *MAPAN-J of Metrology Society of India*, 35 (2020) 601-612.

Patents

Current Activities

(Not more than 100 words)

I am involved in many consultancy and sponsored projects pertaining to Environmental Impact Assessment studies in respect of noise and vibration for govt. bodies like Central Pollution Control Board (CPCB), Archaeological Survey of India (ASI), Delhi Metro Rail Corporation (DMRC), Bangalore Metro Rail Corporation Limited (BMRCL), India etc. I have been actively involved in the Key Comparison exercises in Acoustics and Vibration metrology with other National Metrology Institutes (NMIs) of the world. I am also serving as Managing Editor of MAPAN-Journal of Metrology Society of India published by Springer since year 2018.

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

Awarded APMP Iizuka Young Metrologist Prize for Developing Economies by Asia Pacific Metrology Programme (APMP) Secretariat, Japan in November, 2017 for notable contributions to acoustics and vibration metrology

Contributions to AcSIR

Guiding PhD students in Noise and Vibration Control

Membership of Professional Societies/ Institutions

Life Members of Acoustics Society of India, Ultrasonic Society of India and Fellow of Metrology Society of India

Any other Information

(Not more than 100 words)