Brief Biodata

Name: Hemavathi. A

Designation:	Scientist
DP No. and Name:	D#2.01, LF, HF Impedance and DC Metrology
DU No. and Name:	D#2.0, Electrical and Electronics Metrology
Email:	hkarthik@nplindia.org
Date of Joining CSIR-NPL:	18.01.2021
Phone *(office)*	011-45608510

Research Area/ Interest

DC Metrology
DC High voltage Metrology

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
Masters in Engineering	Power Electronics and Drives	Anna University	2015
Bachelor of Engineering	Electrical and Electronics	Anna University	2013

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	**To**	
Scientist	CSIR-NPL	18.01.2021	Till date	DC Metrology
Project Scientist	NIOT-MOES	14.03.2016	31.03.2018	Deep Sea Technology

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
4	0	1	0	5

Selected Publications

B Rolland[1], M Stock[1], P Gournay[1], R P Aloysius[2], U Kiran[2], **A Hemavathi[2]**, V P S Awana[2] and J C Biswas[2], " Bilteratal Intercomparison of 1 Ω and 10 kΩ Standards between NPL (India) and BIPM (France)", Metrologia, Volume 59, Number 1A, DOI: 10.1088/0026-1394/59/1A/01010 (2022).

Mala K, **Hemavathi. A**, "Analysis and Design of high voltage gain boost converter for photovoltaic

applications", IJAER, Volume 10, 40-44 (2015).

Mala K, Om Ezhilan, **Hemavathi.A**, "Performance estimation of power module of Indian wave energy plant", IJAER, Volume 10, 33-38 (2015).

Patents

None

Current Activities
(Not more than 100 words)

Traceability establishment and dissemination of DC parameters such as Voltage, Resistance and Current.
Low current generation and measurement in pico ampere range. Very high resistance leakage reactance analysis and measurement.

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

None

Contributions to AcSIR

Practical classes on DC measurement are conducted to students of PMQC.

Membership of Professional Societies/ Institutions

MSI member

Any other Information
(Not more than 100 words)

None