


Brief Biodata

Name: Vattikonda Bharath

Designation:	Scientist	
DP No. and Name:	6.1, Time & Frequency Metrology	
DU No. and Name:	6.0, Indian Standard Time	
Email:	bharath.v@nplindia.org	
Date of Joining CSIR-NPL:	26.02.2018	
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Research Area/ Interest

Time & Frequency Transfer through GEO and GNSS satellites. Atomic clocks and their modelling for time scale generation.

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
PhD	Engineering Sciences (Development of laser cooled and optically pumped Cs atomic fountain clock)	AcSIR	2019
MTech	Advanced Material Science and Engineering	AcSIR	2013
B.Tech	Electrical & Electronics Engineering	JNTU Pulivendula, Andhra Pradesh	2010
Intermediate	Maths, Physics, chemistry	Board of Intermediate Education Andhra Pradesh	2004

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Scientist	CSIR- NPL	2018	Present date	Time & Frequency Transfer

No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
05	0	13	02 Book chapters	

Selected Publications

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Current Activities

(Not more than 100 words)

1. Two-Way-Satellite Time & Frequency Transfer (TWSTFT)
 - a. International Link via E-80 GEO satellite.
 - b. Maintaining the ISRO- NavIC time traceability link since 2019 via GSAT-8.
2. Development of NPLI-Disciplined Oscillator
 - a. Development of Standard Reference Instrument (SRI) for providing UTC(NPLI) traceability to various sectors and users across India from NPLI at ± 20 ns accuracy.

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

Senior Research Fellowship SRF- 2014.

Contributions to AcSIR

Teaching and conducting experiments to PMQC students since 2019.
Teaching to PhD students since 2020.

Membership of Professional Societies/ Institutions

Member of Metrology Society of India (MSI).
Member of Indian Radio Science Society (InRaSS).