CURRICULUM VITAE

Personal Details:

Name	:	Dr. Manojit De
Father's Name	:	Mr. Alok Kumar De
Mother's Name	:	Mrs. Subhadra De
Sex	:	Male
D o B	:	September 6th, 1989
Nationality	:	Indian
Marital Status	:	Unmarried
Language known	:	English, Hindi, Bengali

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Correspondence:

Department of Pure and Applied Physics,
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For details of research activity available on [ResearchGate]

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Web of Science ResearcherID: AAE-3867-2021

VIDWAN profile: https://vidwan.inflinet.ac.in//profile/126449 (ID: 126449)

Skype ID: live:.cid.a8a1f99b406cafe4

A) Educational Qualification:

Class	Board/University	Year of Passing	Percentage	Division
10th	W.B.B.S.E	2005	83.87	1st
10+2th	W.B.C.H.S.E	2007	73.40	1st
B.Sc.(Annual System)	The University of Burdwan	2011	54.37	2nd
M.Sc.(Physics) Semester System	Guru Ghasidas Vishwavidyalaya	2013	69.83	1st
Pre-Ph.D. Course Work	Guru Ghasidas Vishwavidyalaya	2014 (Date of Registration: 14.12.2014)	73.00	1st
Ph.D.	Guru Ghasidas Vishwavidyalaya	2019 (Date of final viva: 15.11.2019)	--	Degree Awarded

B) Ph. D. details:

Thesis title: Synthesis, Structural and Dielectric Characterization of Bismuth Ferrite Based Solid Solutions

Supervisor: Dr. H. S. Tewari, Associate Professor, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G.

C) Research Interest:

Experimental materials science, Ferroelectric materials, Perovskite materials, Lead-free piezoelectric materials, Spinel based Magnetic materials system, Multiferroic materials system, Energy Storage, and energy harvesting materials, Nano-composites basically for an environmental application like wastewater treatment, Gas sensors, etc. Nanomaterials for biological applications and drug delivery.

D) Technical Experience:

I have good experience with the following techniques.

i. ***Well Known Characterization Techniques:*** X-ray Diffraction (XRD), Scanning Electron Microscopy (SEM), Fourier Transform Infrared Spectroscopy (FTIR), Micro-Raman Spectroscopy, LCR meter, Ferroelectric loop tracer.

ii. ***Materials Synthesis / Thin Film Growth Techniques:*** Solid-state ceramic method, Combustion method, Sol-Gel method, Spin Coating Technique.

E) Teaching/Academic Experience:

i. Besides my research work, I was fully involved in teaching activities in our department at GGU. I generally took the practical classes of B.Sc. and M.Sc. students during the semester. I have also helped the M.Sc. /M. Tech. final semester students during their project work. I was also involved in academic works like unit tests, semester exams, university entrance exam (VET), counseling of students during their admission process. [During whole research period]

ii. Started working as an Assistant Professor (Ad-hoc) at the Department of Physics in Lakshmi Chand Institute of Technology (LCIT Groups of Institutions), affiliated Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, C.G. [From 13.08.2018 to 28.02.2019]
Job objective: Teaching of B.Sc. students

iii. Started working as an Assistant Professor at the Department of Applied Physics (engineering) in Chouksey Engineering College (Chouksey Group of Colleges, affiliated Chhattisgarh Swami Vivekanand Technical University, Bhilai), Bilaspur, C.G. [From 25.07.2019 to till date]
Job objective: Teaching of B. Tech. students; research and development.

iv. Co-convener of international webinar series "Recent Trends in Material Science (RTMS-2020)"; Organized by Department of Applied Physics, Chouksey Engineering College, Bilaspur, in association with Indian Association of Physics Teachers (RC-10); July 13-14 2020.

F) Academic Responsibilities:

i. Class in charge of B.Sc. third-year students; LCIT College of Commerce and Science, Bilaspur, C.G.
ii. Coordinator for a one-day excursion for B.Sc. 2nd and 3rd-year students to the Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya (A Central University); LCIT College of Commerce and Science, Bilaspur, C.G.
iii. Class in charge of different branches (1st & 2nd Semester); Chouksey Engineering College, Bilaspur, C.G.
iv. Member of Research and Development Cell; Chouksey Engineering College, Bilaspur, C.G.
v. Teacher-in-charge of 'Smart Club' in Chouksey Group of Colleges

G) List of Publications:

In refereed journals

1. Studies on Electrical Behavior of Multiferroic Based Double Doped Bismuth Ferrite System.
   H. S. Tewari, Aarti Mishra, and **Manojit De**.
   Adv. Sci. Lett., Vol. 21, Number 9, 2807-2810, (2015)
   DOI: 10.1166/asl.2015.6391.

2. Characterization of Cadmium substituted Nickel Ferrites nano-particles synthesized using combustion technique.
   Manojit De, Aniruddha Mukherjee and Hari S. Tewari.
   Processing and Application of Ceramics 9 [4], 193–197, (2015)
   DOI: 10.2298/PAC1504193D.

3. Strain induced structural phase transition in $NaNbO_3$ doped $BiFeO_3$
   Manojit De, Shiv P. Patel, and H. S. Tewari
   J Mater Sci: Mater Electron, 28: 6928–6935, (2017)
   DOI: 10.1007/s10854-017-6393-9.

4. Synthesis and structural characterization of A-site doped $NiFe_2O_4$
   Manojit De, Ananya Rout, and H. S. Tewari
   AIP Conference Proceedings, 1837, 040042 (2017)
   DOI: 10.1063/1.4982126.

5. $R_{0.5}Bi_{0.5}TiO_3$ (R = Na and K): Synthesis, structural and polarization study
   Rashmi Tiwari, **Manojit De**, and H. S. Tewari
   AIP Conference Proceedings, 1837, 040046 (2017)
   DOI: 10.1063/1.4982130

6. Structural Characterization of Magnesium Substituted Nickel Ferrites $NiFe_{(2-x)}Mg_xO_4$ Nano-particles Synthesized Using Combustion Technique.
   Manojit De, Soumen Bera and H. S. Tewari.
   Emerging Materials Research, Volume 6, Issue 2, 265-269, (2017)
   DOI: 10.1680/jemmr.15.00070

7. A Comparative Study on Structural Characterization of Mg Substituted on A/B sites in $NiFe_2O_4$ Nano-particles Using Auto-Combustion Method.
   Manojit De and H. S. Tewari
   Pramana – J. Phys. 89:3, (2017)
   DOI: 10.1007/s12043-017-1394-z.

8. Synthesis and structural characterization of $NaNbO_3$ doped $BiFeO_3$ multiferroics
Manojit De and H. S. Tewari
Ferroelectrics, 519:1, 43-48, (2017)
DOI: 10.1080/00150193.2017.1362284.

9. Structural and electrical characteristics of Barium modified Bismuth-Sodium Titanate $(Bi_{0.49}Na_{0.49}Ba_{0.02})TiO_3$
Sugato Hajra, Sushrisangita Sahoo, **Manojit De**, Pravat Kumar Rout, H. S. Tewari, R. N. P. Choudhary
J Mater Sci: Mater Electron, 29:1463–1472, (2018)
DOI: 10.1007/s10854-017-8054-4.

10. Resistive, Capacitive and Conducting properties of $Bi_{0.50}Na_{0.50}TiO_3$- $BaTiO_3$ solid solution
Sushrisangita Sahoo, Sugato Hajra, **Manojit De**, R N P Choudhary
Ceramics International, 44, 5, 4719–4726, (2018)
DOI: 10.1016/j.ceramint.2017.12.054.

11. Studies of structural, dielectric and electrical characteristics of $BaTiO_3$-$BiFeO_3$-$CaSnO_3$ electronic system
Sugato Hajra, Sushrisangita Sahoo, Twinkle Mishra, **Manojit De**, P. K. Rout, R. N. P. Choudhary
Journal of Materials Science: Materials in Electronics, 29, 9, 7876–7884, (2018)
DOI: 10.1007/s10854-018-8787-8.

12. Structural, dielectric and electrical characteristics of $BiFeO_3$-$NaNbO_3$ solid solutions
Manojit De, Sugato Hajra, Rashmi Tiwari, Sushrisangita Sahoo, R.N.P. Choudhary, H.S. Tewari
Ceramics International, 44, 10, 11792-11797, (2018)
DOI: 10.1016/j.ceramint.2018.03.263.

13. Processing, dielectric and impedance spectroscopy of lead free $BaTiO_3$-$BiFeO_3$-$CaSnO_3$
Sushrisangita Sahoo, Sugato Hajra, **Manojit De**, Kalyani Mohanta, R. N. P. Choudhary
Journal of Alloys and Compounds, 766, 25-32, (2018)
DOI: 10.1016/j.jallcom.2018.06.284.

14. Investigation of resistive, capacitive and conductive properties of lead-free electronic material: $0.7Bi(Fe_{0.98}Ga_{0.02})O_3$-$0.30BaTiO_3$
Romit Panigrahi, Sugato Hajra, **Manojit De**, Ajeet Kumar, A.R. Jems, R.N.P Choudhary
Solid State Sciences, 92, 6-12, (2019)
DOI: 10.1016/j.solidstatesciences.2019.04.002

15. Structural, electrical and ferroelectric properties of lithium niobate-bismuth ferrite solid solutions
Manojit De, Sugato Hajra, Rashmi Tiwari, Sushrisangita Sahoo, R.N.P. Choudhary, H.S. Tewari
Solid State Sciences, 93, 1-6, (2019)
DOI: 10.1016/j.solidstatesciences.2019.04.009

16. Studies on composition dependent structural and magnetic characterization of nanocrystalline cadmium doped nickel ferrite
Rashmi Tiwari, **Manojit De**, H. S. Tewari
AIP Conference Proceedings 2115, 030102 (2019)
DOI: https://doi.org/10.1063/1.5112941

17. Structural and magnetic properties of tailored $NiFe_2O_4$ nanostructures synthesized using auto-combustion method
Rashmi Tiwari, **Manojit De**, H. S. Tewari, S. K. Ghoshal
Results in Physics, 16, 102916 (2020)
DOI: https://doi.org/10.1016/j.rinp.2019.102916

18. $BaTiO_3$ and $Ba_{0.9}R_{0.1}TiO_3$ (R = Ni, Fe): low temperature synthesis, structural and phonon mode study
Manojit De, Soumitra Pal, Rashmi Tiwari, H. S. Tewari
AIP Conference Proceedings 2265, 030006 (2020)
DOI: https://doi.org/10.1063/5.0016648

19. Structural, morphological and vibrational studies of modified nickel ferrites
Rashmi Tiwari, **Manojit De**, and H. S. Tewari
AIP Conference Proceedings 2265, 030088 (2020)
DOI: https://doi.org/10.1063/5.0016699

20. Structural and Dielectric Characterization of $LiNbO_3$ Substituted $BiFeO_3$
Manojit De, H. S. Tewari, and R. N. P. Choudhary
Proceedings of the 65th DAE Solid State Physics Symposium, 55, 817-818 (2022)
ISBN No: 81-8372-085-4

In Book Chapter:

1. **Chapter title:** Lead-Free Perovskite Nanocomposites: An Aspect for Environmental Application
Book title: Perovskite and Piezoelectric Materials, ISBN 978-1-78985-665-1
Author: Manojit De
Publishers: IntechOpen, London, UK
Year of Publishing: 2020
DOI: http://dx.doi.org/10.5772/intechopen.93052

2. **Chapter title:** Theoretical calculations based results for plant extract as green Corrosion inhibitors

Book Title: Computational Modelling and Simulations for Designing of Corrosion Inhibitors (Fundamentals and Applications)
Authors: Vinita Tamrakar, **Manojit De**
Publishers: Elsevier (Sciencedirect)
Year of Publishing: 2022
Status: Under review

H) Conferences, Seminars & Workshops attended:

i. Characterization of nickel substituted bismuth ferrites ($Bi_{1-x}Ni_xFe_{1-y}Ni_yO_3$; x=y=0.0 &/or 0.05) nano-particles synthesized using combustion technique
Manojit De, Rupam Kumar Pal and H. S. Tewari
DAE-BRNS National Conference on Current Trends in Advanced Materials (CTMat-2014), November 19-21, 2014
Variable Energy Cyclotron Center, Kolkata, W.B. (**Poster presentation**).

ii. Characterization of Magnesium Substituted Nickel Ferrites Nano-Particles Synthesized Using Combustion Technique
Manojit De, Ganesh Bera, and H. S. Tewari
National Conference on Environmental Radiation and Functional Materials (NCERFM-2015), February 28-March 01, 2015.
Department of Physics, Osmania University, Hyderabad, Telangana State. (**Poster presentation**).

iii. Structural characterization of magnesium and cadmium substituted nickel ferrites nanoparticles synthesized using combustion technique
Manojit De, Ganesh Bera, Aniruddha Mukherjee and H. S. Tewari
One-day national seminar on Advanced Synthesis and Characterization of Materials for Technological Application (ASCMTA-2015), March 30, 2015. Department of Pure and Applied Physics, GGV, Bilaspur-495009 (C.G.). (**Poster presentation**).

iv. Structural characterization of magnesium substituted nickel ferrites $NiMg_xFe_{(2-x)}O_4$ nanoparticles synthesized using combustion technique
Manojit De, Soumen Bera and H S Tewari
International Conference on Multifunctional Materials for Future Applications (ICMFA-2015), October 27-29, 2015
Department of Chemistry, IIT-BHU, Varanasi. (**Poster presentation**).

v. Synthesis and Structural Characterization of Vanadium doped Sodium Niobate [$Na(Nb_{1-x}V_x)O_3$, x = 0.30]
Manojit De, Babai Patra and H. S. Tewari
National Seminar on Energy Harvesting Materials and Techniques for Sustainable Development (URJA-2015); 2-3 Dec 2015
Department of Physics; Govt. V. Y. T. PG. Autonomous College, Durg, C.G. (**Oral presentation**).

vi. Synthesis and structural characterization of $NaNbO_3$ doped $BiFeO_3$ multiferroics
Manojit De and H. S. Tewari

14th Chhattisgarh Young Scientist Congress-2016.
Organized by Chhattisgarh Council of Science and Technology and Bilaspur University on 28-29th February 2016. (**Oral presentation**).

vii. Two days workshop on "Intellectual Property Rights, IP Commercialization and Prevention of Plagiarism"
Guru Ghasidas Vishwavidyalaya, 26-27 Feb., 2016.
Jointly organized by Chhattisgarh Council of Science and Technology (CGCOST) and Guru Ghasidas Vishwavidyalaya.

viii. Synthesis and strain-induced structural modification of $NaNbO_3$ doped $BiFeO_3$ multiferroics
Manojit De and H. S. Tewari
International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectricity (ICTAM-AFM-10); 7-11 November 2016. Department of Physics, University of Delhi, New Delhi. (**Poster Presentation**)

ix. Synthesis and structural characterization of A-site doped $NiFe_2O_4$
Manojit De, Ananya Rout and H. S. Tewari
International Conference on Functional Oxides and Nano-materials (ICFONM-2016); 11-13, November 2016.
Department of Nanoscience and Advanced Materials, Saurashtra University, Rajkot, Gujrat. (**Poster Presentation**)

x. Skill Development Training on "Materials Characterization Techniques"
Jointly organized by School of Physical Sciences and Skill Development Cell; Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)
February 16-17, 2017.

xi. Synthesis and Strain induce structural characterization of $NaNbO_3$ modified $BiFeO_3$ multiferroics
Manojit De and H. S. Tewari
20th International Conference of International Academy of Physical Sciences (CONIAPS-XX): Recent Advances in Physical Sciences and Future Challenges; 14-16 July 2017
Faculty of Science (Departments of Mathematics, Physics & Chemistry), University College of Science, Osmania University, Hyderabad-500007, Telangana State, India. (**Oral Presentation**)

xii. Synthesis and structural characterization of A-site Ba-doped $BiFeO_3$
Manojit De, Pinki Kumari, Rashmi Tiwari, Gurupada Maity, Shiv P Patel, and H. S. Tewari
International Conference on Nanotechnology: Ideas, Innovations and Initiatives-2017 (ICN:3I-2017); 06-08 December 2017
Department of Mechanical and Industrial Engineering & Centre for Nanotechnology, Indian Institute of Technology Roorkee, Roorkee- 247667, Uttarakhand, India. (**Oral Presentation**)

xiii. Nano-structured spinel ferrites: Synthesis and Characterization
Manojit De, Rashmi Tiwari, S. Suganya and H. S. Tewari
3rd International Conference on Recent Advancements in Chemical, Environmental & Energy Engineering; 15-16 February 2018
SSN College of Engineering, Chennai, Tamilnadu, India. (**Oral Presentation**) ***(Received Best Paper Award)***

xiv. Eco-friendly biocatalyst immobilized onto activated carbon obtained from agricultural waste
S. Suganya, P. Senthil Kumar and **Manojit De**
3rd International Conference on Recent Advancements in Chemical, Environmental & Energy Engineering; 15-16 February 2018
SSN College of Engineering, Chennai, Tamilnadu, India. (**Poster Presentation**)

xv. Studies on Structural, Vibrational and Dielectric characterization of $NaNbO_3$ modified $BiFeO_3$
Manojit De and H. S. Tewari
16th Chhattisgarh Young Scientist Congress-2018.
Organized by Chhattisgarh Council of Science and Technology and Durg University on 27-28th February 2018. (**Oral presentation**).

xvi. Low-Temperature Synthesis and Structural Characterization of $BaTiO_3$ and $Ba_{0.9}R_{0.1}TiO_3$ (R = Ni, Fe)
Manojit De, Soumitra Pal, Rashmi Tiwari, S. Suganya and H. S. Tewari
DAE-BRNS 7th Interdisciplinary Symposium on Materials Chemistry (ISMC-2018), BARC, Mumbai, 4-8th December, (2018). (**Poster presentation**)

xvii. Synthesis, Structural, dielectric and electrical characteristics of $BiFeO_3$-$NaNbO_3$ solid solutions: A case study for $Bi_{0.8}Na_{0.2}Fe_{0.8}Nb_{0.2}O_3$
Manojit De, Sugato Hajra, Rashmi Tiwari, Sushrisangita Sahoo, R.N.P. Choudhary, H.S. Tewari
XX National Seminar on Ferroelectrics and Dielectrics (XX NSFD-2018), 14-16th December 2018. (**Oral presentation**)

xviii. Structural, Morphological and Vibrational Studies of modified Nickel Ferrites
Rashmi Tiwari, **Manojit De**, H. S. Tewari
5th International Conference on Nanoscience and Nano-technology (ICONN-2019), Department of Physics and Nano-technology, SRM-IST, Chennai, 28-30th January 2019. (**Poster presentation**)

xix. $BaTiO_3$ and $Ba_{0.9}R_{0.1}TiO_3$ (R = Ni, Fe): Low-temperature synthesis, structural and phonon mode study
Manojit De, Soumitra Pal, Rashmi Tiwari, and H. S. Tewari
64th DAE-Solid State Physics Symposium, Indian Institute of Technology Jodhpur, 18-22nd December, (2019). (**Poster presentation**)

xx. Studies of $LiNbO_3$ modified $BiFeO_3$: Structural, Vibrational, Dielectric, Impedance, and Polarization Study
Manojit De, H.S. Tewari, R.N.P. Choudhary
National Seminar on Advanced Materials for Sustainable Industrial and Social Applications (NSAMSISA-2020), Faculty of Science, Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur, (CG), January17-18, 2020. (**Oral presentation**)

I) Invited Talks / Session Chair:

i. Invited as a speaker in national webinar on "Advances on Modern Physical Sciences" (AMPS-2020) at Panchmura Mahavidyalaya (affiliated to Bankura University), West Bengal, September 14, 2020.

ii. Chaired a session in 1st Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON-2021)

organized by Department of Electrical Engineering, Siksha O Anusandhan Deemed to be University, Bhubaneswar, India; January 8-9 2021.

iii. Invited to deliver a talk in the International Online Conference on Nano Materials (ICN 2021) held at Mahatma Gandhi University, Kottayam, Kerala, India, from April 9-11 2021.

iv. Chaired a session in the International Online Conference on Nano Materials (ICN 2021) held at Mahatma Gandhi University, Kottayam, Kerala, India, from April 9-11 2021.

v. Deliver an invited talk in the two days National Conference on Recent Progress and Developments in Pharmaceutical Science organized by Expert Pharmacy Association (A Unit of Expert Group of Education and Welfare Trust) Registered under I.T.A (Govt. of India), New Delhi, India, May 15-16, 2021.

vi. Invited to deliver a talk in International Conference on Recent Innovation and Modern Advancements in the field of Pharmaceutical Technology organized by SCPM College of Pharmacy Haripur Gonda in association with Indian Pharma Educational Society, May 29-30, 2021.

vii. Chaired a Scientific Session entitled "Environmental Disasters and Newer Technologies to Reduce the Burden" as Honorable Chairperson at the National Seminar on "Environmental Sciences, Newer Technology, and Natural Products" Organized by Expert Pharmacy Association in collaboration with Durgesh Nandini College of Pharmacy, Charera, Ayodhya, Uttar Pradesh on June 5, 2021.

viii. Invited to deliver a talk in the International Online Conference on Nano Materials (ICN 2022) held at Mahatma Gandhi University, Kottayam, Kerala, India, from August 12-14, 2022.

J) Course / School / FDP attended:

i. Selected as a participant for *"Fourth Refresher Course in Materials Preparation and Measurement of Properties"* at Indian Academy of Science, Jalahalli, Bangalore-560013, February 10-25, 2015.

ii. Selected as a participant for *"DST Nano-mission School on Nano-science and Nano-technology- Physical Science: Emerging Materials and Methods in Nano-science & Nano-technology"* at Centre for Nano and Soft Matter Sciences, Jalahalli, Bangalore-560013, Oct 23- Nov 3, 2017.

iii. Faculty Development Program (FDP) under the scheme of AICTE Training and Learning (ATAL) Academy on Nano-materials, Characterization & their Application organized by Department of Physics, Indira Gandhi National Tribal University, Amarkantak, December 06-10, 2021.

K) Award Received:

i. Received '***Best Paper Award***' (oral presentation category) at 3rd International Conference on Recent Advancements in Chemical, Environmental & Energy Engineering; SSN College of Engineering, Chennai, Tamilnadu, India; 15-16 February 2018.

ii. Received the certificate of "***Excellence in Academics***" in the session 2019-2020 from Chouksey Group of Colleges, Bilaspur, C.G. 2nd February 2021.

iii. 3rd position in oral presentation category at National Seminar on Characterization and Processing of Advanced Materials (NSCPAM-2021); Department of Physics, Govt. Pt. Shyamacharan Shukla College, Dharsiwa, Raipur (CG) June 26, 2021.

L) Membership:

- Life member of Indian Society for Particle Accelerators (ISPA)

  (Membership no. LM-384).

Other Information:

Journal refereed: i) Scientific Report (Nature Publishing Group)
ii) Artificial Cells, Nanomedicine, and Biotechnology (Taylor & Francis Group)
iii) Journal of Physics and Chemistry of Solids (Elsevier)
iv) Journal of the Australian Ceramic Society (Springer)

Research Collaboration:

a) Dr. V. S. Tiwari, Scientist-D; Raja Ramana Center for Advanced Technology, Indore; India.
b) Dr. Rachana Selvamani, Scientist-F; Raja Ramana Center for Advanced Technology, Indore, India.
c) Dr. Ajay Kumar Himanshu, Scientific Officer-D; Variable Energy Cyclotron Centre, Kolkata, India.
d) Dr. Vanga Ganesh, Assistant Professor, Department of Physics College of Science, King Khalid University, Post Box- 9004, Abha-61413, Kingdom of Saudi Arabia.

References:

1. Dr. H. S. Tewari, Associate Professor, Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G.
   Email: tewari.hs@gmail.com ; Mob: +91-9424140587

2. Prof. P. K. Bajpai, Head of the Department, Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G.
   Email: bajpai.pk1@gmail.com ; Mob: +91-9424154024
3. Prof. G. D. Varma, Professor, and Head of the Department, Department of Physics, Indian Institute of Technology, Roorkee, Roorkee, Uttarakhand 247667
   Email: gdvarfph@iitr.ac.in ; Mob: +91-9456318358
4. Prof. R. N. P. Choudhary, Professor, Department of Physics, Siksha O Anusandhan University (Deemed to be University), Bhubaneswar, Odisha-751030
   Email: crnpfl@gmail.com ; Mob: +91-6201955198

Declaration:

I hereby declare that the above-written particulars are true to the best of my knowledge and belief.

Date: 22.03.2022

Place: Bilaspur, C.G.

(Dr. Manojit De)