



राष्ट्रीय विज्ञान संचार एवं नीति अनुसंधान संस्थान

NIScPR
NATIONAL INSTITUTE OF SCIENCE COMMUNICATION AND POLICY RESEARCH

Biennial Report

2023-25

At the Interface of Science & Society



**CSIR-National Institute of Science Communication and Policy
Research (NIScPR)**

**CSIR-National Institute of Science Communication
and Policy Research (NIScPR)**
At the Interface of Science & Society

**Biennial Report
2023-2025**



National Institute of Science Communication and Policy Research (NIScPR)

Council of Scientific & Industrial Research (CSIR)
Vigyan Sanchar Bhawan, Dr KS Krishnan Marg, New Delhi 110012 &
Vigyan Soochna Bhawan, 14, Satsang Vihar Marg, New Delhi 110067
www.niscpr.res.in

CSIR-NIScPR Biennial Report 2023-2025

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Foreword

From the Director's Desk

CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) came into existence on 14 January 2021 after the merger of the rich legacies of two premier institutes, namely, CSIR-National Institute of Science Communication and Information Resources (CSIR-NISCAIR) and CSIR-National Institute of Science, Technology & Development Studies (CSIR-NISTADS). CSIR-NIScPR has been continually evolving as a unique brand in connecting science, society, and industry. CSIR-NIScPR has always been committed to its broad mission and vision to strengthen scientific temper, science popularisation & dissemination, policy research, and also render its valuable services to the Science, Technology, and Innovation (STI) system of our nation.



During the biennium (2023-2025), the institute continued with its commitment to advance effective science communication, knowledge dissemination, and evidence-based science policy research, which also aligns with the national priorities and global scientific advancements.

CSIR-NIScPR publishes 15 peer-reviewed research journals of international repute. The journals are under the Platinum Open Access model, which ensures free global access with zero article processing charges for authors. Our academic footprints are well validated by our stellar metrics, including the notable Scopus CiteScores of our flagship publications. The institute has been significantly contributing to scholarly research. In the year 2023, twenty six research papers from NIScPR were covered in Web of Science (SCI-E) with an average Impact Factor (IF) of 2.60, including a top paper based on IF published in the *Journal of Cleaner Production* (IF 9.7). In 2024, thirty research papers from the institute were covered in Web of Science (SCI-E) with an average IF of 3.17, with the highest-impact paper published in the *Journal of Materials Chemistry A* (IF 9.5).

Through its flagship popular science magazines, namely, *Science Reporter*, *Vigyan Pragati*, and *Science Ki Duniya*, along with a range of other digital communication initiatives, CSIR-NIScPR continued to make science accessible, relevant, and engaging for the general public, thereby promoting scientific temper and awareness of scientific and technological achievements. Our scientific journals, popular science magazines, books, databases, policy studies, scientometric analysis, traditional knowledge documentation, library, information services and outreach activities have been continuously serving researchers, students, policymakers and the wider public by facilitating them with high-quality scientific information and knowledge resources.

As the Nodal Laboratory for the National Knowledge Resource Consortium (NKRC), CSIR-NIScPR has been continuously facilitating seamless access to over 13,000 elite e-journals and citation databases. The major milestone marked was the integration of the One Nation One Subscription (ONOS) initiative. This makes sure that global scholarly literature remains unhindered and available to researchers.

On 11 September 2023, CSIR-NIScPR established the Science Media Communication Cell (SMCC) to augment popular science communication by disseminating R&D breakthroughs and outcomes from Indian scientific institutions and laboratories across various media platforms — audio-visual, digital, social, and print media. The cell has coordinated robust media coverage of more than 55 national S&T events. These included the historic Chandrayaan-3 Moon landing, IISF, etc. Besides, the cell has crafted several science success stories for the *Employment News*. As a result, this unified multimedia approach has engaged the public, boosting the social media reach from 6.5 lakh to 45 lakh in just two years.

CSIR-NIScPR, through its initiative SVASTIK (Scientifically Validated Societal Traditional Knowledge), has identified and shared 29 scientifically documented traditional knowledge practices from eight different areas, reaching a wide audience via the multilingual digital content, 85 audio-visual materials, publishing, and engagement activities on MyGov that involved more than 16,000 people. These endeavours have increased visibility, ease of access, and the appreciation by the public for the traditional knowledge systems of India.

The Institute works intensively on policy research in several strategic areas — hydrogen economy, semiconductors, sustainable energy, climate, environmental sustainability, water resources management, and public health. The research is a basis for national priorities and missions by offering actionable insights, research innovation ecosystems mapping and the identification of future technology paths.

CSIR-NIScPR has also advanced its pioneering work in Technology Readiness Assessment (TRA) by developing sector-specific Technology Readiness Level (TRL) frameworks, guidelines and standard operating procedures to facilitate technology evaluation, commercialisation and innovation management across diverse sectors.

CSIR-NIScPR partnered with the National Research Development Corporation (NRDC) to set up a dedicated Technology Readiness Assessment (TRA) facility for credible mapping of technology maturity from lab concepts to market deployment. This mainly lowers the risks of investing and leads to technological self-reliance.

CSIR-NIScPR hosted various notable national and international discussions during the period, including the International Conference on “Aligning Science-Technology-Innovation (STI) Indicators for Effective R&D Governance” on 14-15 January 2025 and the Second International Conference on “Communication and Dissemination of Traditional Knowledge (CDTK-2024)”. This brought together the leading experts from India and other countries who deliberated on the modern challenges and opportunities in science, innovation and sustainable development. The institution enhanced its reach through collaborations, grassroots technology interventions and international policy dialogues. CSIR-NIScPR collaborated with the National Translation Mission for the translation of popular science books in 22 regional Indian languages. The institute also worked with Unnat Bharat Abhiyan and Vijnana Bharati for increasing livelihood generation and skilling in rural India through science and technology demonstrations, ranging from incense stick making using flowers to Heeng cultivation for the farmers in Kargil. The multi-tiered approach of the institute culminated in an influential International platform, like the Indo-French Seminar on Open Science in March 2025, the South: South Cooperation Policy Conclave in September 2024 (a pre-meet for the 79th UN General Assembly Science Summit) and the 4th Foundation Day International Conference in January 2025, involving policy leaders at the global level on transforming innovations to Viskit Bharat 2047.

I hereby express my gratitude to the CSIR leadership, industry representatives, academicians, policymakers, authors, reviewers and our audience for encouraging and supporting.

As we look forward, CSIR-NIScPR will stay committed to building upon its rich legacy and endeavour to become a globally recognised institution in science communication and policy research.

Dr Geetha Vani Rayasam
Director
CSIR-NIScPR
(Joined on 8/9/2025)

CSIR-NIScPR – A LEGACY OF SCIENCE COMMUNICATION, POLICY RESEARCH AND S&T STUDIES

The CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) is among the youngest laboratories of the Council of Scientific and Industrial Research (CSIR). Established on 14 January 2021, its foundation was laid by Dr Harsh Vardhan, the then Hon'ble Union Minister of Science & Technology, Earth Sciences, and Health & Family Welfare.

CSIR-NIScPR was established consequent to the merger of two institutes — CSIR-National Institute of Science, Technology and Development Studies (CSIR-NISTADS) and CSIR-National Institute of Science Communication and Information Resources (CSIR-NISCAIR). While CSIR-NISCAIR functioned in the area of science communication, CSIR-NISTADS dealt with

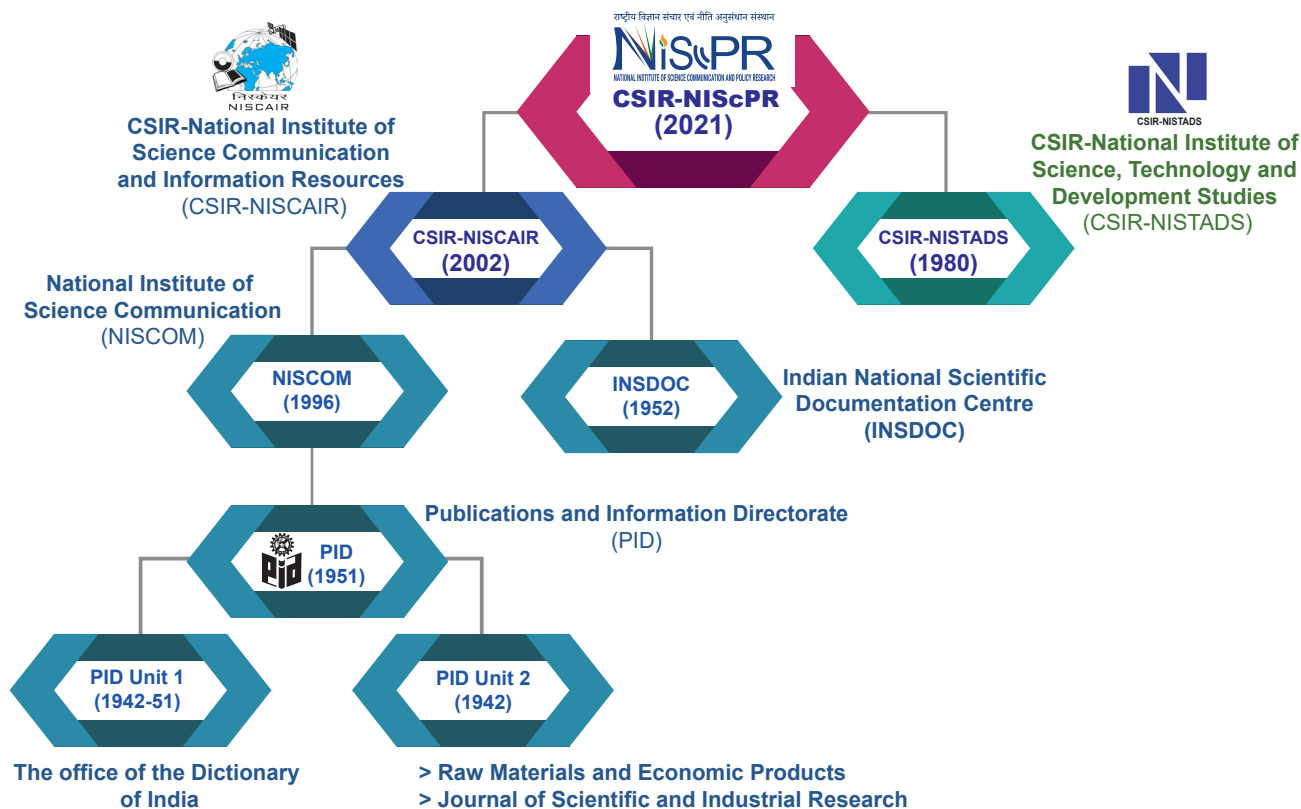
policy research and studies at the interface of science & society. Both the institutes have had a rich legacy spanning several decades.

Genesis of CSIR-NISCAIR

When the CSIR was set up in 1942, among the major objectives of the Council were “the collection and dissemination of information” and “publication of scientific papers and journals”. During the first decade (1942-1951), this responsibility was discharged by two independent units, the offices of the *Dictionary of Indian Raw Materials and Economic Products*, and the *Journal of Scientific and Industrial Research*. In 1951, these two offices were merged into the

CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR)

(Came into existence on 1 April 2021)



Publications & Information Directorate (PID) with added responsibilities in the area of science communication.

With information becoming a valued commodity and science communication becoming a diverse and interdisciplinary area, PID went on to assume the mantle of a national institute in 1996 — the National Institute of Science Communication (NISCOM).

The Indian Scientific Documentation Centre (INSDOC), established in 1952, operated in the areas of information science and scientific documentation. In view of the overlapping areas of NISCOM and INSDOC, in 2002, the two institutes were merged into the National Institute of Science Communication and Information Resources (NISCAIR).

Genesis of CSIR-NISTADS

The roots of NISTADS go back to August 1973, when the Council of Scientific and Industrial Research (CSIR) set up at its headquarters a Centre for the Study of Science, Technology and Development. On 30 September 1980, the Governing Body of the CSIR approved the Centre as an autonomous Institute. Consequently, on 30 September 1980, the National Institute of Science, Technology, and Development Studies was established. It was involved in the studies of various aspects of interaction among science, society, and state, and researching the interface among science, technology, and society.

CSIR-NIScPR — The New Entity

Established on 14 January 2021 and sharing the historical legacy of CSIR-NISCAIR and CSIR-NISTADS,

the CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) operates in the twin domains of science communication and policy research & studies.

CSIR-NIScPR is the largest institute engaged in science communication in the country. It brings out 15 peer-reviewed research journals covering major disciplines of science and technology, ranging from physics to radio-physics, chemistry to chemical technology, experimental biology to biotechnology, and intellectual property rights to traditional knowledge. The Institute also takes science to the people through its three popular science magazines and well-illustrated low-priced books on topics ranging from cells and genes to computers and artificial intelligence, from atoms and materials to space technology and stars. CSIR-NIScPR's monumental encyclopedic series, *The Wealth of India*, covers India's raw material resources — plants, animals, and minerals.

CSIR-NIScPR is also positioning itself as a think tank of CSIR on policy research, S&T studies, and advocacy in areas including the science-technology-innovation ecosystem; energy interventions for sustainable development; agriculture and sustainable rural development; inclusive health; global governance and science diplomacy; science communication studies, etc. The Institute intends to undertake policy advocacy on techno-socio-economic issues identified by CSIR or the Government of India, and to provide decision support for S&T design, development, and application in the context of the National as well as the Global scenario.



Mandate

To provide evidence-based policy advocacy on Techno-Socio-Economic issues identified by CSIR/Government and other stakeholders

To act as a facilitator in furthering the economic, social, industrial, scientific, and commercial development by providing timely access to relevant and accurate information

To identify ST&I needs for National missions and create road maps for Sustainable Development

To establish a repository of data, information, road-maps, and policy documents related to science, technology, and innovation activities in India as well as the world, and create a digital resource centre for the Nation

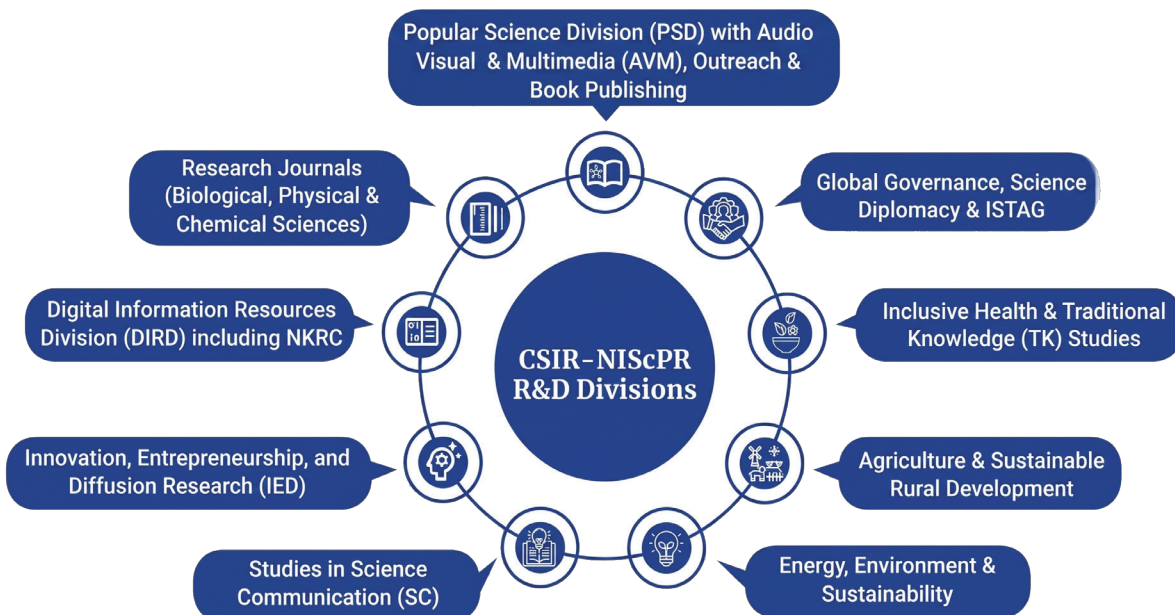
To provide linkages of communication among the scientific community in the form of research journals in different areas of ST&I

To disseminate ST&I information to society

To harness information technology for science communication and publication

To collaborate with national and international Institutions and organizations with objectives and goals similar to those of CSIR-NIScPR

Organogram



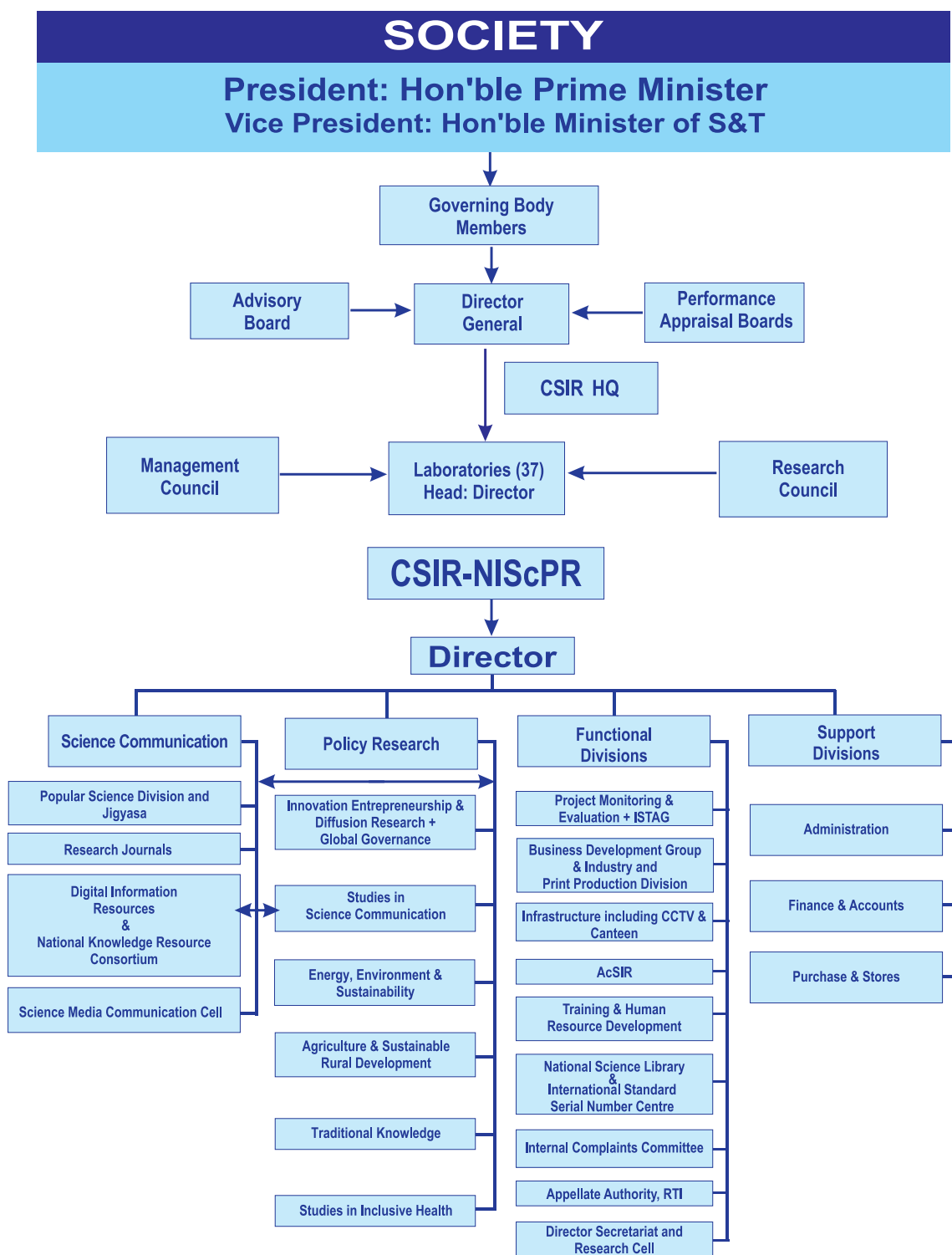
Vision

To become a globally respected think tank and resource center for understanding Science, Technology & Innovation (ST&I) Policy Research and Science Communication

To promote Science, Technology & Innovation (ST&I) policy studies and science communication among diverse stakeholders and act as a bridge at the interface of science, technology, industry and society

Mission

CSIR-NIScPR Organisational Structure



Research Council 2023-24



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Department of Physics
Indian Institute of
Technology (IIT-Bombay)
Powai, Mumbai



Laboratory Director

Prof. Ranjana Aggarwal
Director
CSIR-NIScPR
New Delhi



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Vice Chancellor
Makhanlal Chaturvedi National
University of Journalism &
Communication
Bhopal



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Former DG, Meteorology
India Meteorological
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Jaipur



External Member

Prof. Deepak Kumar
Former Professor
History of Science and
Education, ZH Centre for
Educational Studies
Jawaharlal Nehru University
(JNU)
New Delhi



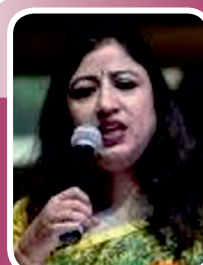
External Member

Dr Jahnavi Phalkey
Founding Director
Science Gallery
National Centre for
Biological Sciences
(Tata Institute of
Fundamental Research)
Bengaluru



External Member

Dr JP Joorel
Director
Information and Library
Network Centre (INFLIBNET)
Infocity
Gandhinagar



Agency Representative

Dr Nisha Mendiratta
Advisor & Scientist G
Climate Change Programme
Department of Science and
Technology (DST)
Technology Bhawan
New Delhi



DG's Nominee

Dr Subhra Priyadarshini
Chief Editor
Nature India
New Delhi



Sister Laboratory

Dr Sridevi Annapurna Singh
Director
CSIR-Central Food
Technological Research
Institute (CFTRI)
Mysuru



CSIR Hqrs. Invitee

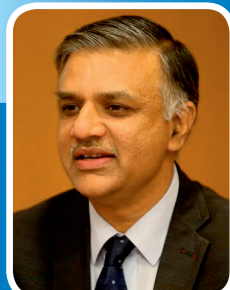
Dr Geetha Vani Rayasam
Head HRDG, CSIR



Member Secretary

Dr Naresh Kumar
Chief Scientist
CSIR-NIScPR
New Delhi

Research Council 2024-25



Chairman

Prof. Sachin Chaturvedi
Director General
Research and Information
System for Developing
Countries (RIS)
New Delhi



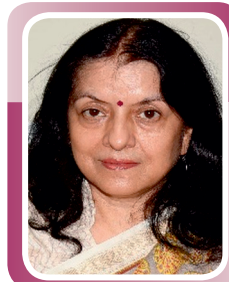
Laboratory Director

Prof. Ranjana Aggarwal
Director
CSIR-NIScPR
New Delhi



External Member

Prof. Jagat Bhushan Nadda
Director
Consortium for Education
Communication (CEC)
New Delhi



External Member

Dr Anupama Bhatnagar
Director General
Indian Institute of Mass
Communication
New Delhi



External Member

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Executive Chairman
Odisha Startup Incubation
Centre (O-HUB)
Bhubaneswar



External Member

Dr Geetha Krishnan
Senior Consultant
World Health Organization
WHO Global Centre for
Traditional Medicines
Gujarat



Agency Representative

Dr Sanjay Kumar Mishra
Scientist 'H'
Department of Biotechnology
New Delhi



Sister Laboratory

Dr Sridevi Jade
Director
CSIR-Fourth Paradigm Institute
Bengaluru



DG's Representative

Dr Rama Swami Bansal
Head, International S&T Affairs
Directorate
CSIR
New Delhi



Member Secretary

Dr Naresh Kumar
Chief Scientist
CSIR-NIScPR
New Delhi

Management Council 2023-2025



Chairperson

Prof. Ranjana Aggarwal
Director
CSIR-NIScPR
New Delhi



Member

Prof. Venugopal Achanta
Director
CSIR-NPL
New Delhi



Member

Dr Naresh Kumar
Chief Scientist & Head PME
CSIR-NIScPR
New Delhi



Member

Mrs Charu Verma
Chief Scientist
CSIR-NIScPR
New Delhi



Member

Sh CB Singh
Chief Scientist
CSIR-NIScPR
New Delhi



Member

Dr Suman Ray
Principal Scientist
CSIR-NIScPR
New Delhi



Member

Dr Paramananda Barman
Scientist
CSIR-NIScPR
New Delhi



Member

Shri Ashwani Brahmi
Principal Technical Officer
CSIR-NIScPR
New Delhi

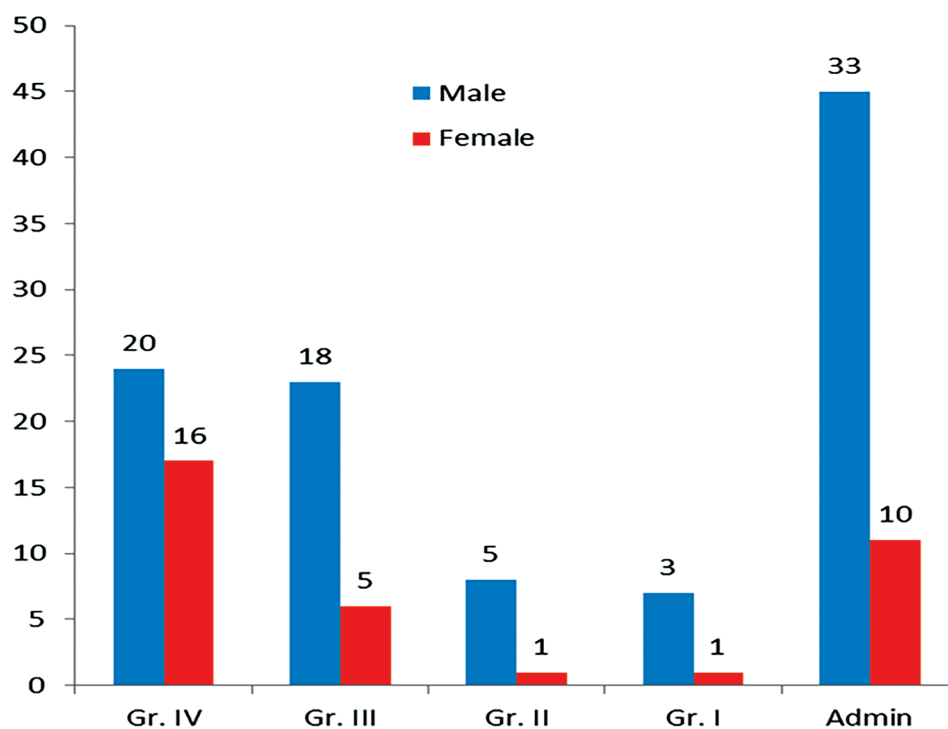
Member

COFA/F&AO
CSIR-NIScPR

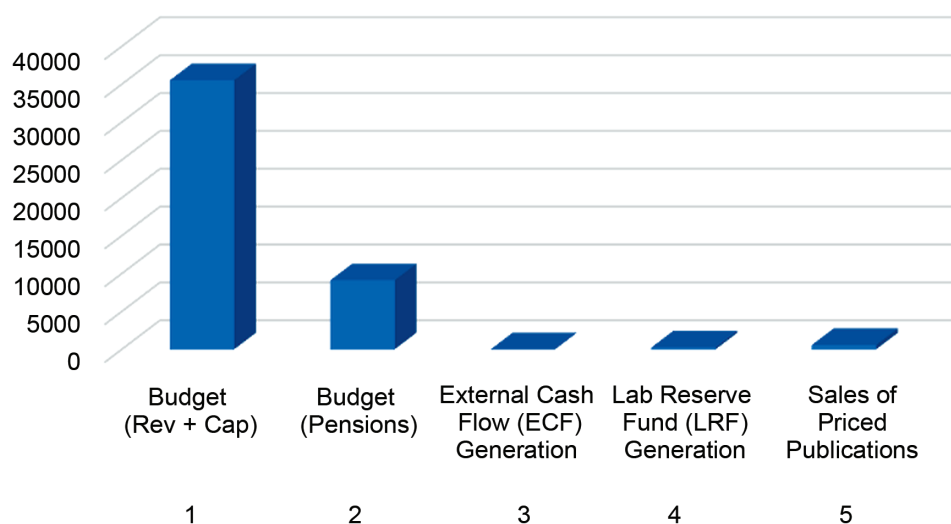
Member Secretary

AO/COA
CSIR-NIScPR

Manpower Position (As on 31 March 2025)



External Cash Flow 2023-2025 (₹ in Lakhs)



BRIDGING SCIENCE AND SOCIETY

EMPOWERING THROUGH COMMUNICATION



BRIDGING SCIENCE AND SOCIETY EMPOWERING THROUGH COMMUNICATION

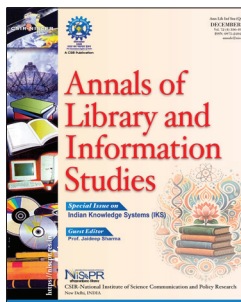
RESEARCH JOURNALS

Among the primary mandates of CSIR-NIScPR is providing a platform for the scientific community, especially Indian scientists, to publish their research papers. The institute has been making this possible through its 15 research journals of international repute across the major disciplines of science and technology. Some of the key highlights of CSIR-NIScPR journals are:

- 1. Editorial Boards:** Editorial Boards comprising leading S&T experts from India and abroad.
- 2. Refereeing:** Peer-reviewed papers published.
- 3. Platinum Open Access:** Free access to the full-text of articles; no article processing fee for authors.
- 4. Publication with DOIs:** Digital object identifiers (DOIs) assigned to published manuscripts.

Table 1: JCR (IF)/SJR/CiteScore/h-index/NAAS (as on 31 March 2025)

Journal	JCR (IF) (2022)	Scopus Cite Score (2024)	SJR (2024)
<i>Indian Journal of Biochemistry & Biophysics (IJB)</i>	--	3.3	0.319
<i>Indian Journal of Traditional Knowledge (IJTK)</i>	0.7	1.6	0.269
<i>Indian Journal of Experimental Biology (IJB)</i>	0.5	--	-
<i>Indian Journal of Pure & Applied Physics (IJPAP)</i>	1.10	0.846	0.176
<i>Indian Journal of Fibre & Textile Research (IJFTR)</i>	0.6	--	0.206
<i>Indian Journal of Engineering & Materials Sciences (IJEMS)</i>	0.7	1.1	0.259
<i>Indian Journal of Chemical Technology (IJCT)</i>	1.0	1.3	0.195
<i>Journal of Scientific & Industrial Research (JSIR)</i>	0.7	1.7	0.21
<i>Indian Journal of Geo-Marine Sciences (IJMS)</i>	0.32	1.1	0.176
<i>Journal of Intellectual Property Rights (JIPR)</i>	--	1.2	0.208
<i>Indian Journal of Natural Products and Resources (IJNPR)</i>	0.6	1.3	0.185
<i>Annals of Library and Information Sciences (ALIS)</i>	0.4	1.2	0.244
<i>Indian Journal of Chemistry (IJC)</i>	0.5	0.7	0.166
<i>Journal of Scientific Temper (JST)</i>	--	--	--

Annals of Library and Information Studies

- **Abbreviation:** ANN LIB INF STU
- **Periodicity:** Quarterly
- **ISSN:** 0972-5423
- **e-ISSN:** 0975-2404
- **E-mail:** annals@niscpr.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/ALIS>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/66>

Started in 1954 as *Annals of Library Science*, the journal's title was expanded to *Annals of Library Science and Documentation* in 1964, symbolising the widening scope of the journal. Renamed as *Annals of Library and Information Studies* in 2001, the journal publishes articles on documentation and information science, information systems, bibliometrics, scientometrics, informetrics, education and training, and other related areas.

Abstracted/Indexed in: Libr Inf Sci Abstr, Libr Inf Sci Tech Abstr, and Indian Libr Inf Sci Abstr, Emerging Sources Citation Index (ESCI), Scopus, Directory of Open Access Journals (DOAJ), Library and Information Science Abstracts, UK, and Indian Library and Information Science Abstracts, India.

ALIS Special Issue

1. A Volume to commemorate the Centenary of Ranganathan's Entry into the Library Profession — "Ranganathan and His Legacy: Past, Present, Future", March 2024
2. "Data for Development: Ranganathan's legacy for Advancing Sustainable Solutions through Information", December 2024
3. "Indian Knowledge Systems (IKS)", December 2025

Indian Journal of Biochemistry & Biophysics (IJBB)

- **Abbreviation:** Indian J Biochem Biophys
- **Periodicity:** Monthly
- **ISSN:** 0301-1208
- **e-ISSN:** 0975-0959
- **CODEN:** IJBBBQ
- **E-mail:** ijbb.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJBB>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/34>

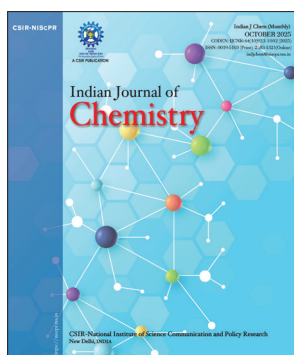
Started in 1964, this journal publishes original articles in the following areas: metabolism; regulation of biosynthesis of nucleic acids and proteins; growth factors; hormones; vitamins; enzymes; coenzymes; cell cycle and its control; membrane biochemistry; receptors; carrier proteins; drug targeting and drug design; molecular basis of genetic diseases; apoptosis; surface forces; micelles and microemulsions; colloids; electrical phenomena in biological systems; and biophysical/biochemical methods.

Abstracted/Indexed in: Academia, Ayush, Biological Abstracts, BIOSIS Previews, Catalogue (National Library of Australia), Chemical Abstracts, CABI Abstracts, CrossRef, Digital Object Identifier (DOI), Directory of Open Access Journals (DOAJ), EBSCOhost, Essential Science Indicators, Google Scholar, ICAR–National Academy of Agricultural Sciences (NAAS Rating), ICI, Index Copernicus, J-Gate, JournalSeek, Scopus, UGC CARE, US National Library of Medicine, Web of Science–SCIE, WorldCat, Zoological Record, SCImago.

IJBB Special Issues

1. "Biological Electron Microscopy and Nanobiotechnology", August 2023
2. "Multiple facets of Protein Science", September 2023
3. "Biological Chemistry: Opportunities, Challenges, and the Way Forward", March 2025

Indian Journal of Chemistry (IJC)



- **Abbreviation:** *Indian J Chem*
- **Periodicity:** Monthly
- **ISSN:** 0019-5103
- **e-ISSN:** 2583-1321
- **CODEN:** IJCNI6
- **E-mail:** indjchem@niscpr.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJC>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/58776>

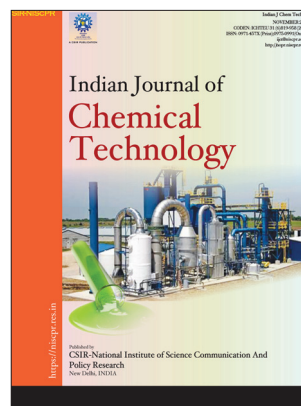
Started in 1963, the *Indian Journal of Chemistry* was bifurcated into two independent journals, Sections A and B, in 1976. *Indian Journal of Chemistry*, Sec A (IJC-A) published papers from the fields of inorganic, bio-inorganic chemistry, theoretical and analytical chemistry, whereas *Indian Journal of Chemistry*, Sec B (IJC-B) published papers from organic and medicinal chemistry. From January 2022 onwards, IJC-A has been merged with IJC-B, and the combined entity is now published as the monthly journal, *Indian Journal of Chemistry*.

The journal publishes papers in synthetic and structural inorganic chemistry, bio-inorganic chemistry, inorganic reaction mechanisms, solid-state chemistry, thermodynamics, spectroscopy, quantum chemistry, nuclear chemistry, polymers, catalysis and analytical

chemistry, organic reaction mechanism, synthesis of chiral compounds, bio-organic chemistry, enzymes in organic synthesis, chemoenzymatic and enantioselective synthesis of organic compounds, synthesis of fullerenes, metal-catalyzed asymmetric reactions, bioactive plant products and combinatorial chemistry.

Abstracted/Indexed in: Anal Abstr, Biol Abstr, Cadscan, Ind Chem, Ceram Abstr, Chem Abstr, Chem Inf, Curr Chem Reac, Curr Contents, Indian Sci Abstr, Lead Abstr, Metal Abstr, Nutr Abstr, Sci Abstr, Sci Cit Index, World Alumin Abstr, World Text Abstr, Zincscan, DOAJ.

Indian Journal of Chemical Technology (IJCT)



- **Abbreviation:** *Indian J Chem Technol*
- **Periodicity:** Bi-Monthly
- **ISSN:** 0971-457X
- **e-ISSN:** 0975-0991
- **CODEN:** ICHT
- **E-mail:** ijct.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJCT>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/55>

Started in 1994, the *Indian Journal of Chemical Technology* has established itself as the leading journal in the exciting field of chemical engineering and technology, including areas related to Chemical Engineering. Catalysis, Leather Processing, Polymerisation, Membrane Separation, Pharmaceuticals and Drugs, Agrochemicals, Reaction Engineering, Biochemical Engineering, Petroleum

Technology, Corrosion & Metallurgy, and Applied Chemistry.

Abstracted/Indexed in: Chem Abstr, Curr Contents, Sci-Search, Res Alert, Eng Index, Indian Sci Abstr, NCI Curr Contents, ARAI Automotive Abstr, Cambridge Sci Abstr, INSPEC, PASCAL, DOAJ, and Sci Cit Index.

Indian Journal of Engineering & Materials Sciences (IJEMS)



- ▶ **Abbreviation:** *Indian J Eng Mater Sci*
- ▶ **Periodicity:** Bi-Monthly
- ▶ **ISSN:** 0971-4588
- ▶ **CODEN:** IEMSEW
- ▶ **E-mail:** ijems@niscpr.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJEMS>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/36>

Started in 1994, *IJEMS* publishes papers in aerospace engineering, mechanical engineering, metallurgical engineering, electrical and electronic engineering, civil engineering, fluid mechanics, instrumentation, and materials science.

Abstracted/Indexed in: Journal Citation Reports (JCR), Web of Science, Scopus, Applied Mechanics Reviews, Chemical Abstracts, Current Contents, Engineering Index, Metal Abstracts, Cambridge Scientific Abstracts, INSPEC, PASCAL, Science Citation Index, Mathematical Reviews, NCI Current Contents, ARAI Automotive Abstracts, and Indian Science Abstracts.

Indian Journal of Experimental Biology (IJEb)



- ▶ **Abbreviation:** *Indian J Exp Biol*
- ▶ **Periodicity:** Monthly
- ▶ **ISSN:** 0019-5189
- ▶ **e-ISSN:** 0975-1009
- ▶ **CODEN:** IJEBA6
- ▶ **E-mail:** ijeb.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJEb>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/39>

Started in 1963, *IJEb* publishes full papers and notes in Cell Biology, Molecular Biology, Biotechnology, Endocrinology, Reproductive Biology, Immunology, Developmental Biology, Comparative Physiology, Radiation Biology, Chronobiology, Microbiology, Pharmacology, Toxicology, and other related biological fields including Instrumentation and Methodology. Review articles on current topics in the above fields are also considered for publication.

Abstracted/Indexed in: Academia, Biological Abstracts, BIOSIS previews, Catalogue (National Library of Australia), Chem Abstr, CABI Abstr, Essential Science Indicators, Hathi Trust Digital Library, Science Citation Index Expanded (SCIE), US Natl Lib Medicine, World Cat and Zoological Records.

IJEb Special Issues

1. "Translational Research", July 2023
2. "Biotechnology for Sustainable
3. Bioresources and Bioeconomy", October 2023
4. "New Horizons in Biotechnology (NHBT-2023) in association with Biotech Research Society, India (BRSI)", July 2024

Indian Journal of Fibre & Textile Research (IJFTR)



- **Abbreviation:** *Indian J Fibre Text Res*
- **Periodicity:** Quarterly
- **ISSN:** 0971-0426
- **e-ISSN:** 0975-1025
- **CODEN:** IJFRET
- **E-mail:** ijftr@niscpr.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJFTR>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/61>

Started in 1976, *IJFTR* publishes research and review papers on production and properties of natural and synthetic fibres (including industrial fibres), yarns, and fabrics; Chemical and finishing processes; Physics and chemistry of fibreforming polymers; Fibre-reinforced composites; Analysis, testing and quality control; Application of microprocessors; Instrumentation; Industrial engineering; Application of nanotechnology in textiles; Dyeing and printing; and Garment technology.

Abstracted/Indexed in: Materials Science Citation Index, Science Citation Index-Expanded (including Web of Science), Journal Citation Report/Science Edition, TEXINCON, Scopus, World Textile Abstract, Indian Science Abstract, Chemical Abstracts, Textile Technology Digest, Refrativnyi Zhurnal, Paper CLIPP, Art and Archaeology Technical Abstracts, NCI Current Contents.

Indian Journal of Geo-Marine Sciences (IJMS)



- **Abbreviation:** *Indian J Geo-Mar Sci*
- **Periodicity:** Monthly
- **e-ISSN:** 2582-6727
- **H-index:** 43
- **NAAS Rating 2026:** 6.30
- **E-mail:** ijms.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJMS/index>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/3>

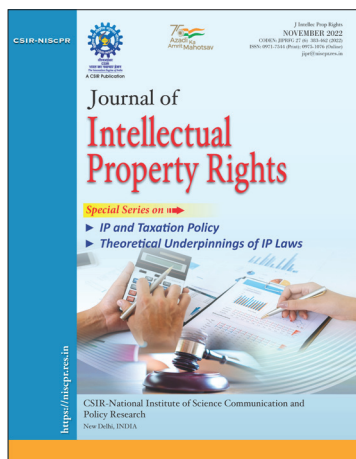
Founded in 1972 (over 50 years), the *Indian Journal of Geo-Marine Sciences* is an online, multidisciplinary, peer-reviewed monthly periodical that advances marine science research, particularly within the Indian context. The journal's broad publication scope includes Marine Sciences, including physical, chemical, biological, and geological oceanography; satellite oceanography; marine instrumentation/engineering; and marine/naval architecture. It accepts Original Research Articles, Review Articles, and Short Communications. It also publishes theme-based Special Issues.

Abstracted/Indexed in: Web of Science, Scopus, SCImago, Semantic Scholar, Index Copernicus, NAAS

IJMS Special Issues

“Sustainable Utilization of Oceans in Blue Economy”, MAY 2024

Journal of Intellectual Property Rights (JIPR)



- **Abbreviation:** *J Intellec Prop Rights*
- **Periodicity:** Bi-Monthly
- **ISSN:** 0971-7544
- **e-ISSN:** 0975-1076
- **CODEN:** JIPRFG
- **E-mail:** ijpr.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/JIPR>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/45>

JIPR was started in 1996, with a view to the importance of intellectual property rights and their protection in enhancing communication among policy makers, organizational agents, academics, and managers regarding critical understanding and research on intellectual property. The journal publishes contributed/invited research papers, case studies, and IPR reviews; technical notes on current IPR issues; literature review; world literature on IPR; national and international IPR news, book reviews, and conference reports.

Abstracted/Indexed in: Scopus, EBSCO host Electronic Journals Service (EJS), Directory of Open Access Journals (DOAJ), Library & Information Science Abstracts (LISA) database, Legal Information Institute of India (LII of India) database.

JIPR Special Issues

1. "AI & IPR: Navigating the intersection", January 2025

2. "IP Laws Declared by the Supreme Court", January 2023-November 2023
3. "JIPR in IP Research", January 2023- November 2023

Indian Journal of Natural Products and Resources (IJNPR)



- **Abbreviation:** *Indian J Nat Prod Resour*
- **Periodicity:** Quarterly
- **ISSN:** 0976-0504
- **e-ISSN:** 0976-0512
- **E-mail:** ijnpr@niscpr.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJNPR>

NOPR Link: <https://nopr.niscpr.res.in/handle/123456789/54>

Started in 2002 as *Natural Product Radiance*, the journal publishes original research papers, especially of applied nature, reviews, and feature articles dealing with cultivation, fishery, apiary, poultry, dairy, disease control measures, post-harvest technology, development/processes of products, and utilisation (including ethnobotany and pharmacology) aspects of plants and animals. Besides, contributed papers by authors, and information compiled and collated by editors are also published.

Abstracted/Indexed in: Emerging Sources Index, Clarivate, Scopus, Directory of Open Access Journals(DOAJ), NAAS Score of Science Journals, CAB International, UK, MANTIS, Elsevier Products, EBSCO, AYUSH Research Portal.

IJNPR Special Issues

1. "Natural Products and Human Health", June 2024

Indian Journal of Pure & Applied Physics (IJPAP)



- **Abbreviation:** *Indian J Pure Appl Phys*
- **Periodicity:** Monthly
- **ISSN:** 0019-5596
- **e-ISSN:** 0975-1041
- **H-index:** 48
- **CODEN:** IJOPAU
- **E-mail:** ijpap.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJPAP>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/63>

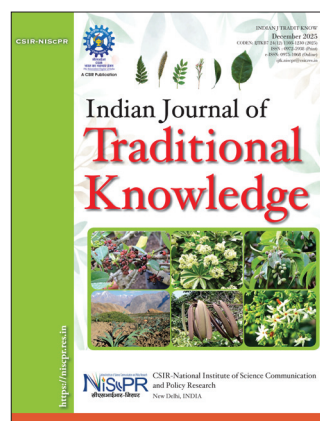
Started in 1963, this journal publishes original research contribution as full papers, notes and reviews on classical and quantum physics, relativity and gravitation; statistical physics and thermodynamics; specific instrumentation and techniques of general use in physics, elementary particles and fields, nuclear physics, atomic and molecular physics, fundamental area of phenomenology, optics, acoustics and fluid dynamics, plasmas and electric discharges, condensed matter-structural, mechanical and thermal properties, electronic, structure, electrical magnetic and optical properties, cross-disciplinary physics and related areas of science and technology, geophysics, astrophysics and astronomy. It also includes the latest findings in the subject under News Scan.

Abstracted/Indexed in: Anal Abstr, Appl Mech Rev, Biol Abstr, Cadscan, Ceram Abstr, Chem Abstr, Indian Sci Abstr, Lead Abstr, Mass Spec Bull, Math Rev, Sci Abstr, Sci Cit Index, Phys Briefs, World AluminAbstr, DOAJ, and Zincscan.

IJPAP Special Issues

1. "Solid States Nuclear Track Detector and Their Applications", June 2023
2. "Recent Advance in Nanophotonics", July 2023
3. "Frontiers in Advanced Materials: Innovations and Applications", February 2024

Indian Journal of Traditional Knowledge (IJTK)



- **Abbreviation:** *Indian J Traditional Knowledge*
- **Periodicity:** Quarterly
- **ISSN:** 0972-5938
- **e-ISSN:** 0975-1068
- **CODEN:** IJTKB7
- **E-mail:** ijtk.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/IJTK>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/43>

Started in 2002, *IJTK* publishes original research papers, review articles, and short communications on indigenous systems of medicine, revalidation of traditional knowledge, herbal drug standardisation, folk medicine, artisans and tribal knowledge, agriculture, architecture, arts and crafts, water management,

alternative energy sources, societal developments, etc., based on traditional wisdom. Besides, the journal also welcomes interdisciplinary papers on traditional uses (non-medicinal) of Indian raw materials of plant, animal, and mineral origin and development of appropriate technologies for community benefit, with a specific interest in the rural areas. A book review has been added as a new section. IJTK has successfully transitioned its frequency (periodicity) of publication from quarterly to monthly, effective January 2024.

Abstracted/Indexed in: Web of Science, Sci Cit Index Expanded, Scopus, DOAJ, NAAS, CABI Abstr, NAPRALERT, MANTIS database, and Food Sci Technol Abstr. The journal is also covered under Non-Patent Literature (NPL) of the Patent Co-operation Treaty (PCT) minimum documentation.

IJTK Special Issues

1. "Communication and Dissemination of Traditional Knowledge", 21 March 2024
2. "A Special Editorial: Evidence-based Traditional Medicine for transforming global health and well-being", July 2023

Journal of Scientific & Industrial Research (JSIR)



- **Abbreviation:** *J Sci Ind Res*
- **Periodicity:** Monthly
- **ISSN:** 0022-4456
- **e-ISSN:** 0975-1084
- **CODEN:** JSIRAC
- **E-mail:** jsir.niscpr@csir.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/JSIR>

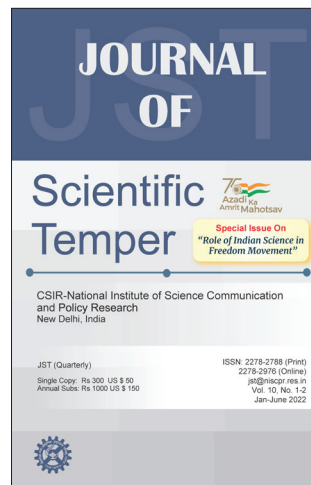
NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/46>

This oldest journal of NISCAIR (started in 1942), carries comprehensive reviews in different fields of Science & Technology (S&T), including industry, original articles, short communications and case studies, on various facets of industrial development, industrial research, technology management, technology forecasting, instrumentation, and analytical techniques, specially of direct relevance to industrial entrepreneurs, debates on key industrial issues, editorials/technical commentaries, reports on S&T conferences, extensive book reviews and various industry related announcements. It covers all the facets of industrial development.

Abstracted/Indexed in: Science Citation Index–Expanded (including Web of Science), Journal Citation Reports/ Science Edition, Chemical Abstracts, PUBDB Desy Publication, Indian Science Abstract, Scopus, Directory of Open Access Journals, ICAR-National Academy of Agricultural Sciences (NAAS rating), Digital Object Identifier.

Journal of Scientific Temper (JST)



- **Periodicity:** Quarterly
- **ISSN:** 2278-2788 (print)
- **e-ISSN:** 2278-2796 (online)
- **E-mail:** jst.niscpr@csir.res.in

Submission Portal Link:

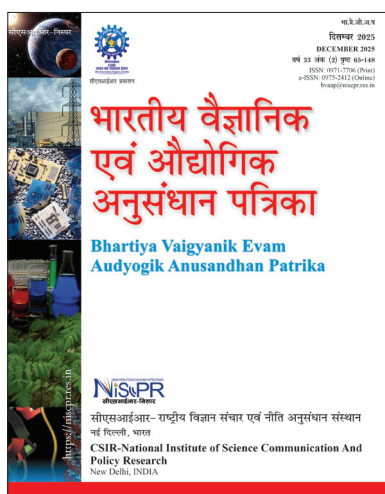
<https://or.niscpr.res.in/index.php/JST>

NOPR Link:

<https://nopr.niscpr.res.in/handle/123456789/47124>

Started in 2014, this is a quarterly journal devoted to the publication of original research in the area of public understanding and attitudes towards science and technology, survey studies, scientific and extra-scientific belief systems, science and education, science popularisation, science fiction, history and philosophy of science, science and media, the role of science exhibitions, science centres, science museums and science and technology in developing countries.

Bharatiya Vaigyanik Evam Audyogik Anusandhan Patrika (BVAAP, Hindi)



- **Periodicity:** Half Yearly
- **ISSN:** 0971-7706 (print)
- **e-ISSN:** 0975-2412 (online)
- **E-mail:** bvaap@niscpr.res.in

Submission Portal Link:

<https://or.niscpr.res.in/index.php/BVAAP>

NOPR Link: <https://nopr.niscpr.res.in/handle/123456789/367>

BVAAP was started in June 1993. The journal publishes original and review articles across various disciplines of science, including chemistry, physics, botany, zoology, biochemistry, biophysics, geology, marine science and related areas of engineering and technology. Articles in fields such as biotechnology, pollution control, alternative energy sources, science and society, information science, etc., are also considered for publication.

POPULAR SCIENCE MAGAZINES

CSIR-NIScPR takes science to the people through its three well-known popular science magazines: *Science Reporter* (English monthly), *Vigyan Pragati* (Hindi monthly), and *Science-ki-Duniya* (Urdu quarterly). The magazines find wide circulation throughout the country. Riding on their high-quality content, exquisite production, and timeliness, the magazines have today become one of the largest-selling popular science magazines in the country.

As part of its mandate to popularise science, CSIR-NIScPR has also published a large number of popular science books, which remain in high demand several years after publication.

Science Reporter (SR)

Launched in 1964, *Science Reporter* entered its 60th year of publication in 2023. It provides readers with topical coverage of scientific developments from around the world, features on scientific concepts, profiles of scientific institutions & scientists, and expert views and opinions on critical scientific issues. The magazine also provides informative and interesting scientific reading material, such as amazing scientific facts, inventions & discoveries, science fiction, scientoons, puzzles, and much more. The magazine publishes special issues from time to time that focus on pressing and significant topics.





Dr Rajiv Bahl released the April 2023 special issue of *Science Reporter* at the ICMR headquarters on 10 April 2023

SR Special Issues

1. On World Health Day 2023, a special issue on health and healthy eating was published, featuring articles on millet, dental care, mental health, and a vision for a healthier future.
2. On the occasion of National Technology Day, the May 2023 issue highlighted India's technological strides in railways, featuring the Vande Bharat Express, alongside forward-looking insights into space telescopes, DNA data storage, AI like ChatGPT, and clean energy resources.
3. The November 2023 special issue paid tribute to MS Swaminathan, celebrating his transformative role in India's agricultural and scientific landscape. Through reflections by eminent scientists.
4. The March 2024 special issue on World Wildlife Day underscored the critical role of wildlife in maintaining ecological balance, focusing on technology-driven conservation efforts in India. It also examined challenges at the human-wildlife interface, including urban development, transboundary animal diseases, and related issues.



The October 2024 issue of *Science Reporter* was released during CSIR's foundation day celebrations by the dignitaries

5. The June 2024 special issue, marking World Environment Day and World Ocean Day, highlighted the interdependence of planetary and human health through themes of marine conservation, sustainable land use, and biodiversity protection.
6. Marking the sixty-year journey, the October 2024 issue, "Science Reporter: A Six Decade Journey in Science Communication (1964-2024)" was published.
7. The November 2024 Children's Day special, aligned with Children's Day, focused on nurturing well-rounded development in children through 21st-century skills, emotional intelligence, and holistic health. It also addressed contemporary concerns such as anxiety, digital eye strain, and sustainability education.
8. The March 2025 special issue, aligned with World Wildlife Day and International Day of Forests, explored the importance of forests and wildlife through themes such as forest fires, biodiversity conservation, and sustainable ecosystems. It also included an inspiring conversation with Jadav Payeng, the forest man of India.

VIGYAN PRAGATI (VP)

Launched in 1952, *Vigyan Pragati* entered its 71st year of publication in 2023. *Vigyan Pragati* endeavours to familiarise its readers with important current events/issues in the field of science. It carries science stories and feature articles on contemporary national and international scientific issues, events, missions, and initiatives, along with regular columns such as science fiction, crossword, science poetry, scientoon, book review, science quiz, etc. Special issues focused on specific themes were published from time to time.

VP Special Issues

1. A health special issue that focused on various aspects of health was brought out in April 2023.
2. The May 2023 special issue was focused on technological breakthroughs in India. The write-ups were written by the scientists and experts of various science departments and laboratories of India.



Dr Rajiv Bahl released the April 2023 special issue of *Vigyan Pragati* at the ICMR headquarters on 10 April 2023

Science-Ki-Duniya (SKD)



Started in 1975, *Science-ki-Duniya* is a quarterly Urdu popular science magazine and is among the most widely read science periodicals in the country. For over five decades, it has played a pioneering role in nurturing a scientific temper among Urdu readers by democratising access to contemporary science and technology.

Each issue curates a dynamic blend of in-depth cover stories on frontier areas of science and nationally relevant themes, comprehensive feature articles on emerging scientific developments, interviews with leading scientists, including Nobel Laureates, and thematic explorations of pressing socio-scientific challenges — alongside engaging regular columns for students and children. Through this comprehensive and reader-friendly approach, the magazine continues to strengthen the culture of evidence-based thinking and informed public discourse in the Urdu-speaking community.

SKD Special Issues

April-June 2024 special issue on Science Fiction stories of Indian Languages. The issue curates a translated version of the Sci-Fi story written by Sir JC Bose in Bangla, which is considered the first Sci-Fi story of any Indian language, including others.

The Oct-Dec 2024 issue was a focused issue, featuring an article on the 2024 Nobel Prizes and an interview with a Nobel Laureate.

NEWSLETTERS & BULLETINS

CSIR News & CSIR Samachar

CSIR-NIScPR brings out two newsletters that showcase the latest and most prominent developments and achievements of CSIR laboratories. While *CSIR News* (English) was launched in 1951, *CSIR Samachar* (Hindi) was launched in 1984.



The newsletters are intended to serve as a prominent link among the various CSIR establishments. They also showcase the achievements of CSIR laboratories to other R&D organisations, universities, S&T agencies/departments, industry, mass media, and foreign agencies.

Science Diplomacy (SD)

This is a quarterly science digest launched in 2017 with the objective of fostering informed dialogue on science diplomacy, science policy, and international scientific cooperation. The publication presents expert insights, perspectives, and opinion pieces contributed by leading scholars, policymakers, and practitioners from India and abroad, thereby serving as a platform for cross-border exchange on science-policy interfaces. During 2023-2025, *Science Diplomacy* expanded both its thematic scope and international outreach.

SD Special Issues

1. The April-June 2023 special issue explored the impactful roles of young academies worldwide, spotlighting the Global Young Academy, Germany; Indonesian Young Academy of Sciences; Hong Kong Young Academy of Sciences and Sri Lanka Academy of Young Scientists.



2. The April-June 2024 special issue focused on the landmark WIPO Treaty on Intellectual Property, Genetic Resources, and Associated Traditional Knowledge, underscoring its implications for developing nations.
3. The July-September 2024 special issue gathered insightful contributions from eminent experts exploring the transformative role of Science, Technology, and Innovation (STI) in realising the vision of *Viksit Bharat @2047*, highlighting policy priorities and strategic pathways.
4. The October-December 2024 special issue, guest-edited by Dr Rama Swami Bansal, Head, ISTAD, CSIR, focused on the role of the Indian scientific diaspora in strengthening international collaboration and science diplomacy.
5. The January-March 2025 issue, brought out in collaboration with the Office of the Principal Scientific Adviser to the Government of India, captured key deliberations from the *Technology Dialogue 2025* summit. Contributions from visionary leaders such as Dr Kiran Mazumdar-Shaw and Prof. Ajay Kumar Sood.

S&T PORTALS

Science Reporter Portal

To enhance reach, provide instant visibility for *Science Reporter's* content, and host news about Indian R&D developments, *Science Reporter* has established a portal.



CSIR News Portal

To enhance reach and provide instant visibility to R&D developments from various CSIR laboratories, a *CSIR News Portal* has been established.



SVASTIK (Scientifically Validated Societal Traditional Knowledge)

On the exhortation of the Hon'ble Prime Minister and President of the CSIR Society, Shri Narendra Modi, that information related to the scientific validation of Indian traditional knowledge/practices needs to be communicated effectively to the public, CSIR was directed to spearhead the efforts. Subsequently, CSIR-NIScPR was assigned as the nodal organisation to collaborate with partners from across the country and implement the national initiative on 'Communicating India's scientifically validated traditional knowledge'.

The initiative is called "SVASTIK" – Scientifically Validated Societal Traditional Knowledge. As a part of this initiative, simplified creative content on Traditional Knowledge is being disseminated through digital platforms in English, Hindi, and different Scheduled Indian and foreign languages.

SVASTIK's objective is to conserve the practice of the right tradition, inculcate a scientific temper of

verifying tradition scientifically, and instil confidence in citizens regarding the scientific value of our traditional knowledge/practices.

Website: <https://svastik.niscpr.res.in>

X: https://x.com/NIScPR_SVASTIK

LinkedIn: <https://www.linkedin.com/company/niscpr-svastik>

Facebook: <https://www.facebook.com/niscprsvastik>

Instagram: https://www.instagram.com/niscpr_svastik

YouTube: <https://www.youtube.com/@NIScPR-SVASTIK>

SVASTIK Special Session on "Indian Traditional Knowledge"

Under SVASTIK, CSIR-NIScPR organised a Special Session on "Indian Traditional Knowledge", at the 6th Bharatiya Vigyan Sammelan (BVS) in Ahmedabad during 21-22 December 2023. Experts in the session were Dr Shekhar C Mande, Prof BN Jagatap, Prof Anil Gupta, Dr Tanuja Nesari, and Dr Geetha Krishnan.



Workshop on Science Communication

A significant outreach initiative was undertaken in the northernmost Union Territory of India, Ladakh, by conducting a weeklong workshop from 21 to 25 October across multiple educational institutions, viz., University of Ladakh, Leh Campus; Government Boys High School, Leh; Government Girls Higher Secondary School, Leh; and Govt. Higher Secondary School, Partapur, Nubra, in collaboration with #RuSETUP (Rural Science Education and Training for Upgradation of Practices), a flagship programme of INYAS (Indian National Young Academy of Science), and the University of Ladakh.

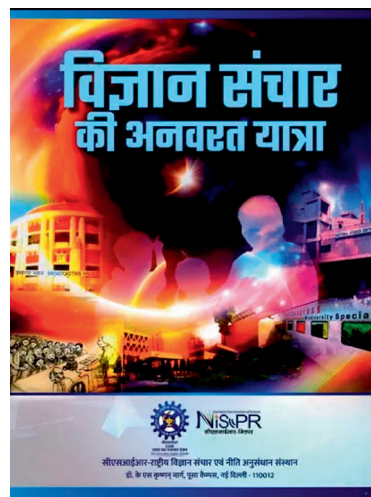
Pre-conference workshop on Indian Traditional Knowledge

A workshop on “Indian Traditional Knowledge” under the #SVASTIK initiative for the students and faculty of Gurugram University, Gurugram, on 08 October 2024, as a prelude to the International conference CDTK-2024.



Vigyan Sanchar ki Anwarat Yatra

Explores the comprehensive evolution of science communication across India's premier public and government institutions.



S&T PUBLICATIONS

CSIR@80 — A Photo Journey

The book documents the history and achievements of CSIR over eight decades. The book serves as a visual and textual archive of CSIR's journey, covering a wide array of milestones, from establishing early industrial infrastructure to pioneering modern advancements. The Book was released by the Hon'ble Union Minister Dr Jitendra Singh during the One Week One Lab Programme on 11 September 2023.



Vigyan Pragati: Shreshtha 80 Alekhon Ka Sankalan

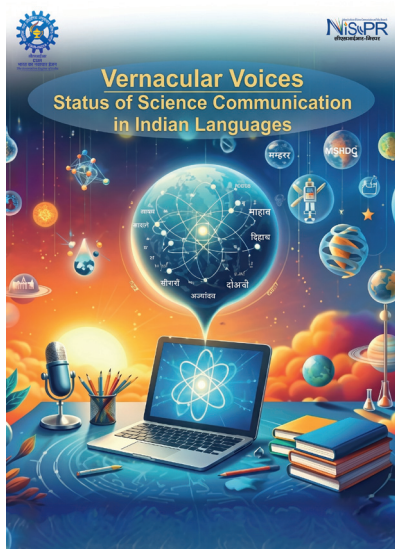
A compilation of the 80 Best Articles from seven decades of the Hindi popular science magazine, Vigyan Pragati. This serves as a comprehensive compilation that showcases diverse formats of science communication.



Vernacular Voices: Status of Science Communication in Indian Languages

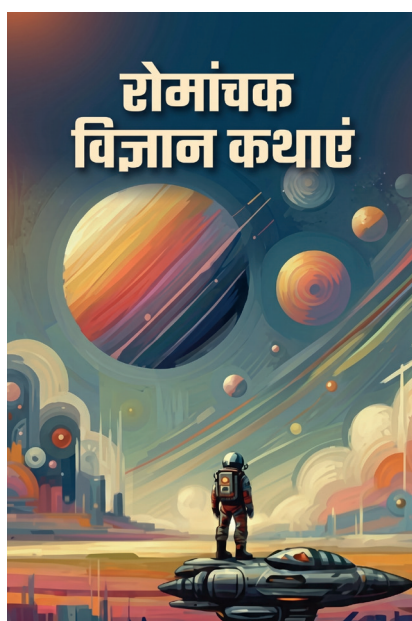
The book is a compilation of 10 chapters on the status of science communication in 10 Indian languages

(scheduled in Article VIII of the Indian constitution), along with English translations of these chapters.



Romanchak Vigyan Kathayen

In view of the meagre availability of literature on science fiction in the Hindi language, this book is one of the interesting formats of science communication. This book consists of fifteen science fiction stories. The writers are the leading science fiction writers of the country.



Vigyan Kavya Pravah

Is a science poetry collection. The book bridges the gap between literature and science, making scientific ideas and technological advancements easily understandable through creative verse.



Three Books with their Translation in Regional Languages

- *Deep Ocean Mission*
- *CSIR Aroma Mission, and*
- *Emerging Drone Technology in India*

The above publications were translated into Hindi, Bangla, and Marathi.



Original English editions of the books



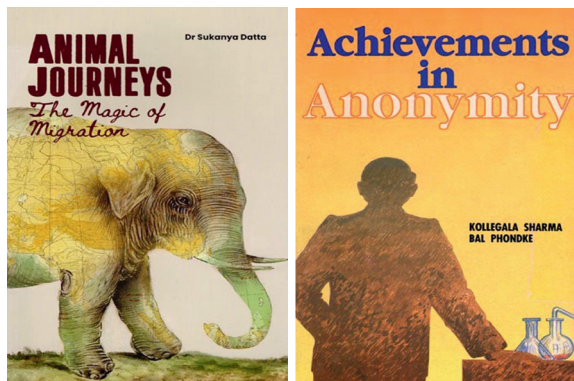
Bangla Editions

Science Books Translated into Indian Languages

- The following popular science books of CSIR-NIScPR were translated into the regional languages of India. The book titled “A Matter of Chance” has been translated into Manipuri, and the second book titled “Be Weatherwise” in the Assamese.



- Two existing CSIR-NIScPR books, “Animal Journeys” and “Achievements in Anonymity”, were also translated from English to Hindi, significantly increasing their accessibility among Hindi-speaking audiences.



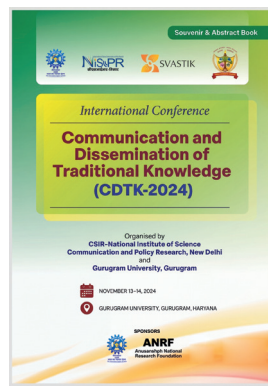
IISF Language News Bulletins

They were published in Indian-language editions (Hindi, Marathi, Bangla, Urdu, Malayalam). These editions of IISF News Bulletins were launched by Hon'ble Union S&T Minister Dr Jitendra Singh; Principal Scientific Advisor to GoI, Prof. Ajay Kumar Sood; Secretary DST, Prof. Abhay Karandikar, and other dignitaries during IISF 2023's inaugural session in Faridabad on 17 January 2024.



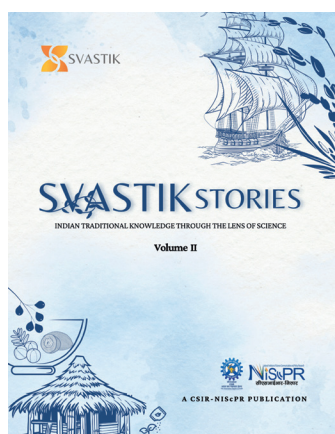
Souvenir and Abstract Book

It was released during the second International Conference on “Communication and Dissemination of Traditional Knowledge (CDTK-2024)”, organised by CSIR-NIScPR in collaboration with Gurugram University on 13 & 14 November 2024. The conference brought together international experts and researchers from diverse S&T domains to deliberate on the scientific validation, communication, documentation, and dissemination of traditional knowledge and its contemporary relevance. It also fostered collaboration among individuals and organisations engaged in promoting traditional knowledge systems.



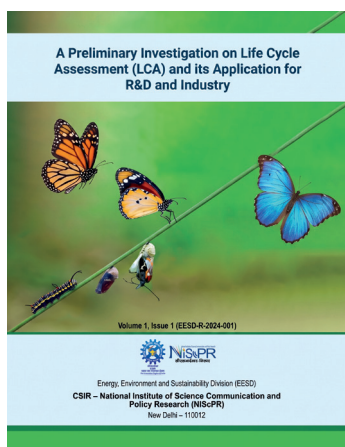
SVASTIK Stories: Indian Traditional Knowledge Through the Lens of Science (Volume II)

Based on the efforts of CSIR-NIScPR under the SVASTIK (Scientifically Validated Societal Traditional Knowledge) initiative, the institute has brought out a popular science book, *SVASTIK: Stories of Indian Traditional Knowledge through the Lens of Science (Vol II)*. The present volume features an abundance of unique materials and wide-ranging analysis, which is extremely stimulating, useful, and surely serves the interests of policymakers, scholars, researchers of cultural studies, and readers interested in TKs and cultural history.



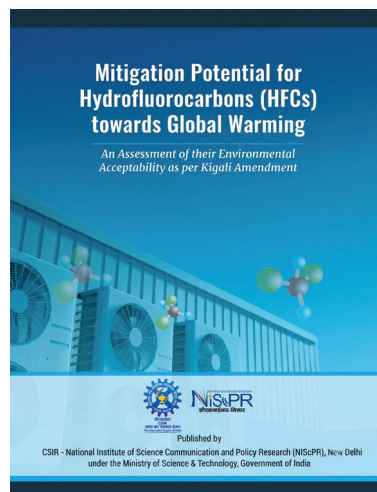
A Preliminary Investigation of Life Cycle Assessment (LCA) and its Application for R&D and Industry

The book is a comprehensive assessment of Life Cycle Assessment (LCA) methodologies and industrial standards, mapped key national and international stakeholders and collaboration networks, and demonstrated the practical application of LCA through a case study on 1 kg PET beverage bottles in India.



Mitigation Potential for Hydrofluorocarbons (HFCs) towards Global Warming

The book assessed the environmental implications of Hydrofluorocarbons (HFCs) by evaluating their ozone depletion and global warming potential, analysing regional and seasonal emission patterns, and generating policy recommendations to support India's HFC phase-down commitments under the Kigali Amendment while safeguarding air quality and climate goals.



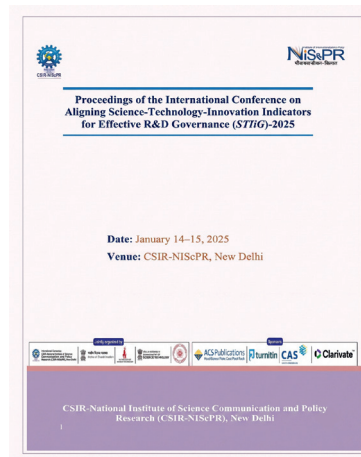
TRI Assessment and Patent Landscaping of Energy Technologies: Pathways for Commercialization



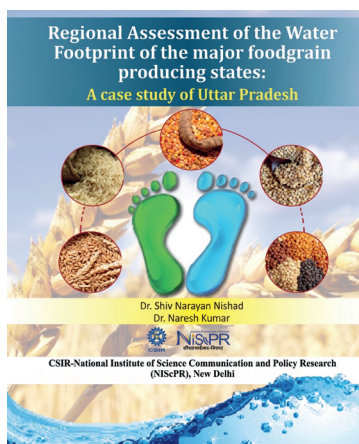
Proceedings of the Conclave on Policy Deliberations for Strengthening South-South Cooperation (Prelude to the Science Summit at the 79th United Nations General Assembly).



Proceedings on the International Conference on Aligning Science-Technology-Innovation (STI) Indicators for Effective R&D Governance” (STIIG-2025)



Regional Assessment of the Water Footprint of the major Foodgrain-producing states: a Case Study of Uttar Pradesh.



STI STUDIES AND POLICY RESEARCH



STI STUDIES AND POLICY RESEARCH

SPONSORED PROJECTS

Building an Emission Inventory for Road Transport Sector in India with an Assessment of Climate, Air Quality and Health Implications of Bharat Stage Emission Standards

Project Code: Grant-in-Aid Project; GAP-0126
PI: Dr Sandhiya Lakshmanan
Co-PI: Dr Naresh Kumar and Dr Shivnarayan Nishad
Duration: 2024-2026

Objectives

1. To build a step-by-step inventory for the emission of NO_x , CO, VOC, $\text{PM}_{2.5}$, and BC from India's transport sector in accordance with BS requirements, and to estimate the emissions of various pollutants from the sector.
2. To forecast how vehicle emissions will develop in the future, determine the achievable emission limits, and investigate methods for reducing emissions with clean technologies and fuel.
3. To assess the implications of vehicular emissions for air quality and public health under the existing regulatory framework.

Outcomes/Results

The project has developed a comprehensive emission inventory for India's road transport sector, covering key pollutants such as NO_x , CO, VOCs, $\text{PM}_{2.5}$, PM_{10} , black carbon, and CO_2 , using both fuel-based and activity-based methodologies. It quantified emissions from both exhaust sources (two-wheelers, light-duty, and heavy-duty vehicles) and non-exhaust sources (tyre and brake wear, road dust resuspension) across ten major Indian states. The evaluation of Bharat Stage emission standards, particularly BS-VI, shows significant reductions in exhaust PM and NO_x due to advanced technologies; however, non-exhaust emissions are becoming a dominant source of particulate matter. Road dust resuspension

emerges as the largest contributor to non-exhaust PM, influenced by vehicle density, road conditions, and seasonal factors. Health impact assessments indicate a strong link between transport-related $\text{PM}_{2.5}$ exposure and increased respiratory and cardiovascular diseases, especially COPD and premature mortality in high-vehicle-density states.

The findings further highlight that two-wheelers and light-duty vehicles remain major contributors due to their large fleet share and frequent usage, despite improved exhaust controls, underscoring the need for targeted mitigation strategies and inclusion of non-exhaust sources in future emission regulations and transport policies.

Conceptual, Intellectual and Structural Analysis of Hydrogen Economy through S&T Policies Intervention

Project Code: H2T/09/2022-R&A
PI: Dr Madhulika Bhati
Co-PI: Shri Gurparsad Singh Bagga
Duration: 2022-25

Objectives

The project broadly aims to study and develop policy-oriented frameworks for the hydrogen economy in India, particularly focusing on science and technology policy interventions. The main objectives include:

1. Conceptual Analysis

- Examine the concept of the hydrogen economy globally and in India.
- Study technological pathways such as green hydrogen, hydrogen storage, and fuel cells.

2. Intellectual Mapping

- Analyse global research trends, patents, and knowledge networks in hydrogen technologies.

- Identify major countries, institutions, and research clusters working in hydrogen.

3. Structural Analysis

- Study the policy ecosystem supporting hydrogen technologies in India and abroad.
- Examine institutional mechanisms, R&D funding structures, and industrial participation.

4. Policy Intervention Framework

- Provide science and technology policy recommendations to strengthen India's hydrogen ecosystem.
- Support national initiatives such as the Green Hydrogen Mission.

Outcomes/Result

This project examines the emerging Hydrogen Economy from conceptual, intellectual, and structural perspectives with special reference to Science and Technology (S&T) policy interventions. The study analyses global and national research trends, technological developments, and innovation networks related to hydrogen technologies through scientometric and policy analysis methods. It also evaluates the existing policy frameworks, institutional mechanisms, and strategic initiatives supporting hydrogen development in India. The project aims to generate evidence-based policy insights and support national initiatives such as the Green Hydrogen Mission. The outcomes are expected to contribute to strengthening India's hydrogen innovation ecosystem and sustainable energy transition strategies. The project contributes by providing evidence-based policy analysis and strategic insights to support the development of a hydrogen economy.

International Conference on “Communication and Dissemination of Traditional Knowledge (CDTK-2024)”

Project Code: ANRF Grant-in-Aid Project; GAP-0127
PI: Dr Charu Lata
Duration: 2024-2025

Objectives

To provide a platform that brought together global experts to deliberate on the communication, dissemination,

and contemporary relevance of Traditional Knowledge (TK) for sustainable development while addressing its ethical, ecological, and economic dimensions.

Outcomes/Results

CSIR-NIScPR organised the Second International Conference on “Communication and Dissemination of Traditional Knowledge (CDTK-2024)” in collaboration with Gurugram University, Gurugram, during 13-14 November at Gurugram University, Haryana. The conference, supported by CSIR and the Anusandhan National Research Foundation (ANRF), brought together global experts to explore the pivotal role of Traditional Knowledge (TK) in sustainable development. Through insightful sessions, panels, and exhibitions, the conference underscored the relevance of TK in modern times while tackling ethical, ecological, and economic challenges.

With 12 scientific sessions spanning two days, a vibrant CSIR exhibition pavilion, and participation by over 500 delegates, including international experts who engaged in discussions and contributed to 103 presentations (29 oral and 74 posters) that showcased TK's multidisciplinary nature, CDTK-2024 culminated in a resounding success. The key recommendations emanating from the conference are:

- Integrating TK into educational curricula.
- Digitising and validating ancient manuscripts.
- Creating SOPs for integrating traditional medicine/folk health systems into modern healthcare frameworks.
- Promoting sustainable traditional farming techniques.
- Enhancing the economic potential of TK through grassroots innovations.
- Countering misinformation through social media and scientific communication.

Prevalence, Risk, Challenges, Contributing Factors and Socioeconomic Impact of Stroke: The Case of India

Project Code: CSPA24/RDSF/NIScPR/IHP24/01
PI: Dr Suman Ray
Co-PI(s): Dr Arvind Meena and Dr Kanika Malik
Project duration: 2024-26

Objectives

1. Identify the stroke-affected hotspot regions of India.
2. Identify the gaps in stroke prevalence, risks, contributing factors, and socio-economic implications.
3. Ethnographic study (selected) of stroke for comparative analysis.
4. Dissemination strategies for stroke prevention and management at the national level.

Outcomes/Results

LASI Study Analysis for Stroke Hotspots

Analysis of LASI data on stroke and associated risk factors among older adults (>45 years) identified region-specific risks and hotspot states in India. Key findings include:

- West Bengal reported the highest prevalence of stroke and family history of stroke.
- High cholesterol, diabetes, hypertension, heart disease, obesity, and related anthropometric factors were significantly associated with stroke.
- Punjab emerged as the highest-risk state, followed by Kerala and Mizoram.
- Lakshadweep and Chandigarh were identified as the highest-risk UTs.

CTRI Database Analysis

Analysis of stroke-related RCTs registered with CTRI highlighted key clinical gaps and challenges:

- Mismatch between stroke prevalence and the number of clinical trials across states.
- The majority of trials focused on physiotherapy-based interventions.
- Need for greater government participation, collaboration, improved trial quality, and timely dissemination of results.
- CTRI database requires regular updates and stronger screening procedures.

Newspaper Trend Analysis on “Stroke”

An analysis of ten national newspapers (2012–2024) examined science communication on stroke. Key areas requiring greater focus include:

- Importance of timely treatment.
- Diagnosis and medicines.
- Post-stroke care and rehabilitation.

Brainstorming Meeting

A “Brainstorming Meeting” was organised on 28 June 2024 at CSIR-NIScPR, New Delhi, with experts from AIIMS, ICMR, PHFI, and other institutions. Discussions focused on systematic review analysis, identification of hotspot/high- and low-burden areas, primary surveys using standard statistical methods, and policy recommendations.

RDSF PROJECTS

Project Code: CSPS24/RDSF/NIScPR/IHP240002

PI: Dr Shiv Narayan Nishad

Co-PI: Dr Vipin Kumar and Dr Naresh Kumar

Duration: 2024-2025

Comparative Assessment of the Semiconductor Sector for Capacity Building of India’s Semiconductor Mission

Objectives

1. Deeply understand the policy strategy undertaken by India to create a semiconductor ecosystem, which includes mission, tangible outcomes, new initiatives such as Product-Linked Incentive (PLI), Design Linked Incentives (DLI), Semiconductor Fabs, Display Fabs schemes, etc.
2. Comparative analysis of India’s semiconductor sector to identify emerging challenges and opportunities with the leading semiconductor-producing countries such as Taiwan, South Korea, Japan, the United States and China.

3. Identify successful strategies, policies, and initiatives implemented by these countries to foster growth in the semiconductor industry.
4. Conduct a comprehensive SWOT analysis to enhance India's capacity building and semiconductor ecosystem in India to achieve its semiconductor mission goals.

Outcomes/Results

1. The report provided a comprehensive understanding of the evolution and growth trajectory of India's semiconductor sector and its strategic importance in national technological and economic development.
2. The study developed a detailed understanding of the policies, strategies, Acts, programmes, schemes, academic and skill development initiatives, institutional mechanisms, and international collaborations undertaken by India to strengthen the semiconductor ecosystem. It particularly examined recent initiatives such as the India Semiconductor Mission (ISM), Design Linked Incentive (DLI) Scheme, and Production Linked Incentive (PLI) Scheme.
3. A comparative analysis of semiconductor policies, strategies, initiatives, and industrial ecosystems of major semiconductor-leading countries, including the USA, Taiwan, South Korea, Japan, and China, was carried out to identify global best practices, technological advancements, and policy gaps in India's semiconductor ecosystem.
4. The study identified successful policy models, financial incentives, infrastructure frameworks, innovation systems, research and development mechanisms, and supply chain strategies adopted by leading semiconductor-producing countries for strengthening semiconductor manufacturing and technological capabilities.
5. A comprehensive SWOT analysis of India's semiconductor ecosystem was conducted to evaluate the strengths, weaknesses, opportunities, and threats associated with achieving India's semiconductor mission goals and learning from leading semiconductor countries.

MLP PROJECTS

Assessment of Technology Readiness Level (TRL) of CSIR Technologies under Agriculture, Nutrition and Biotechnology (ANB) and Ecology, Environment, Earth, Ocean Sciences and Water (E3OW)

Project Code: NIScPR/MLP/0014/2022-23

PI: Dr Vipin Kumar, Dr Sujit Bhattacharya and Dr Shiv Narayan Nishad

Co-PIs: Dr Naresh Kumar and Dr Avinash Kshitij

Duration: 2022-2023 (Extended upto June 2023)

Objectives

To assess the Technological Readiness Level (TRL) of 13 CSIR technologies under the themes ANB and E3OW, and identify the gaps that need to be addressed for their commercialisation or deployment. The proposed methodology includes a comprehensive review of TRL literature, identification of potential technologies, TRL assessment using the TRL framework, identification of technology development gaps, and recommendations for bridging those gaps.

Outcomes/Results

The data was collected from various sources, analysed qualitatively, and presented descriptively. The findings show that financial constraints are one of the major challenges faced by CSIR scientists during technology development, as highlighted in the constraint analysis during the data collection and analysis. Addressing these constraints would require concerted efforts by CSIR leadership, policymakers, and other stakeholders to provide adequate funding, build necessary capacity and capabilities, and promote a culture of collaboration and innovation within the organisation.

In order to address some of the drawbacks of the prior methodology for determining Technological Readiness Level (TRL), CSIR-NIScPR has taken action. A more accurate assessment of a technology's preparedness for commercialisation can be made by concentrating on TRL 6 and higher technologies, but the framework does not adequately account for the specifics of many industries. CSIR-NIScPR developed a more robust sectoral framework to address this

constraint. This framework has been customised to meet the unique requirements and features of industries such as energy, agriculture, healthcare, and transportation. The sectoral framework offers a more sophisticated method of TRL assessment by taking into consideration the particular difficulties and opportunities faced by each area.

Creating Livelihood Opportunities in Rural Areas using CSIR Technologies through UBA and VIBHA Network

Project Code: NIScPR/MLP-0014/2022-25

PI: Dr Yogesh Suman

Co-PI: Dr Shiv Narayan Nishad, Dr Vinayak and Ms Meetali Bharti

Duration: 2022-25

Objectives

1. To prepare a repository of CSIR technologies that are suitable for rural development and ready for deployment.
2. Mapping of CSIR technologies with respect to the actual needs of a specific geographical area and sector.
3. To conduct training programmes on CSIR Technologies for:
 - a. General Potential/possible users.
 - b. For females working in Self Help Groups (SHGs)
4. To develop an action plan for the implementation of CSIR technologies suitable for rural development, in coordination with UBA.
5. To prepare an action plan for facilitating the dissemination of CSIR Mission Mode Projects in rural areas.

Outcomes/Results

During 2023–2025, several events, workshops, and training programmes were organised, focusing on grassroots innovation, rural development, skill enhancement, and livelihood generation through CSIR technologies. Major activities included conclaves, technology showcasing events, CSR and capacity-building workshops, and hands-on training programmes on bamboo cultivation, incense stick

making from flowers, value-added products, and Heeng cultivation. Key achievements included technology transfers and commercialisation initiatives, the establishment of a solar thermal drying facility, the initiation of Heeng cultivation in Kargil, and the signing of MoUs with industry and incubation partners. Linkages were also developed with organisations such as UBA, VIBHA, NABARD, CSIR laboratories, industry partners, incubation centres, NRLM, and academic institutions to strengthen technology dissemination and rural livelihood initiatives.

Communication of India's Scientifically Validated Traditional Knowledge to the Society (SVASTIK)

Project Code: MLP-0017

PI: Dr Charu Lata

Duration: 2023-25

Objectives

1. Identification, evaluation and systematic documentation of India's traditional knowledge with scientific basis;
2. Mass dissemination of verified traditional knowledge in scheduled Indian and select foreign languages through digital and print media;
3. Development of a web portal for SVASTIK; and
4. Brainstorming meetings/Policy dialogues for strengthening and mainstreaming TK.

Outcomes/Results

Under the #SVASTIK initiative, 29 validated Indian Traditional Knowledge (TK) practices across eight major domains were documented and disseminated through attractive infographics in English and further translated into 19 Indian and 5 foreign languages. A total of 85 short audio-visuals and 24 single-slide infographics were shared across social media platforms to enhance outreach and public engagement. Collaboration with MyGov continued through quizzes and activities on traditional knowledge, attracting participation from over 16,000 individuals across India. The initiative also resulted in the publication of 03 books, 02 reports, and 01 popular article, while its progress was reviewed through high-level monitoring

and steering committee meetings. Additionally, one international conference, one national workshop, and several outreach programmes, seminars, and lectures were organised, with widespread coverage received through *PIB*, *Vaigyanik Drishtikon*, *Science Reporter*, and the *Indian Journal of Traditional Knowledge*.

Disseminating Indian R&D Breakthroughs (MLP0016)

Project Code: NIScPR/MLP-0016/2023-26

PI: Dr Manish Mohan Gore

Duration: 2023-26

Objectives

CSIR-NIScPR established the Science Media Communication Cell (SMCC) on 11 September 2023 with the key objective to augment the popular science communication by disseminating R&D breakthroughs and outcomes from Indian scientific institutions and laboratories through different media platforms such as audio-visual, digital, social media, print and public engagement. Under this initiative, the MLP-0016 project was initiated in NIScPR from the financial year 2023-24 for a period of three years (till financial year 2025-26) under the grant support and monitoring of CSIR HQ. The objective of this project is to prominently share the scientific programmes and achievements of CSIR laboratories and the country on social media.

Outcomes/Results

- Coordinated media publicity for 55+ national S&T events, including National Science Day, Chandrayaan-3 Landing, IISF, OWOT, and Global BioIndia, with 27+ TV stories telecast on Doordarshan.
- Conducted a CSIR-wide micro-video campaign in September 2025 showcasing achievements, technologies, and success stories of all CSIR labs.
- Developed 27 success stories of Indian laboratories published in *Employment News*, leading to increased industry outreach and technology orders for CSIR labs.
- Published 80+ popular science articles in leading national and regional science magazines and newspapers.

- Introduced IISF 2023 special language bulletins in 8 Indian languages to expand outreach beyond Hindi and English.
- Designed around 25 innovative 3-D selfie points highlighting achievements and R&D success stories of CSIR labs and S&T departments.
- Conducted exclusive interviews of key S&T leaders, including Ministers, Secretaries, DG-CSIR, and Directors of national laboratories.
- Executed successful social media campaigns such as #OneWeekOneTheme in coordination with all 37 CSIR labs.
- Collaborated with Doordarshan, All India Radio, Sansad TV, and community radio channels for the dissemination of science-based audio-visual content.
- Increased NIScPR's X (Twitter) followers organically from 12.7K to 17.9K between 2023 and 2025.
- Enhanced social media public engagement organically from 6.5 lakh to 45 lakh reach within two years.

OLP PROJECTS

Updating Emission Inventory of Greenhouse Gases and Other Air Pollutants from Key Emitting Sectors in India

Project Code: NIScPR/OLP/0065/2024

PI: Dr Sandhiya Lakshmanan

Co-PI: Dr Naresh Kumar and Dr Vipin Kumar

Duration: 2024-2025

Objectives

- To quantify the GHG emissions (Carbon dioxide, Methane), Non-GHGs/ Air pollutants emission (Nitrogen Oxides, Carbon Monoxide, Particulate Matter, Ground level Ozone, Sulphur dioxide, Ammonia), and emission from the sources, including waste burning emissions, Agricultural burning, Transportation (roadway), and Construction and Demolition in Delhi.

2. To analyse the historical progress of emission reduction efforts in India and identify future trends in greenhouse gases and air pollutants.
3. To identify potential areas for improvement and propose targeted measures to reduce emissions and improve air quality.

Outcomes/Results

Open burning of waste without air pollution control equipment results in the release of several harmful pollutants. Delhi, with its rapidly expanding urban centre, faces persistent challenges in solid waste management. The present study aims to quantify the emissions of pollutants from open waste burning in Delhi between 2011 to 2023, focusing on the three main landfills, such as Okhla, Bhalswa, and Ghazipur, as well as nine districts of Delhi. The results revealed that CO and PM emissions dominated the emission profile over the years, while SO₂ and NO_x are emitted in smaller but gradually increasing amounts. Central Delhi and New Delhi reported consistently lower emission levels due to strong waste management practices, whereas the other districts, which are peripheral and densely populated, exhibited higher emission levels, reflecting inadequate infrastructure and widespread open burning. The same trend is observed with respect to persistent organic pollutant emissions, and their atmospheric fate is studied with respect to their oxidation with the OH radical. Analysis of the wind and pollutant rose plots indicates that the eastern and southeast regions of Delhi disproportionately bear the burden of pollutant transportation. These findings suggest that policy interventions must be district-specific, taking into account each region's distinct demographic, geographic, and infrastructure factors.

Simulations of Low Global Warming Potential Refrigerants in Compliance with the Kigali Amendment to the Montreal Protocol

Project Code: NIScPR/OLP/0065/2024

PI: Dr Sandhiya Lakshmanan

Duration: 2023-2024

Objectives

1. Simulations of HFOs/HFCs using molecular-based approaches and characterisation of the

thermodynamic properties of the designed HFOs in different working fluids.

2. Determining the Ozone Depletion Potential (ODP), Radiative Forcing (RF) and Global Warming potential (GWP) of designed HFOs/HFCs and predicting the lowest feasible pathways leading to products through atmospheric processes. Analysing the toxicity potential of the final products resulting from atmospheric processes and assessing their impact on air quality and the environment.
3. Proposing a robust framework for assessing the feasibility of the newly designed HFOs/HFCs, which connects the molecular features of the HFOs/HFCs with their performance.

Outcomes/Results

This work provides an in-depth analysis of the environmental impacts of natural and fourth-generation synthetic refrigerants, aiming to support the development of a sustainable cooling action plan for India using low-GWP refrigerant blends. A blend of propane and R-1234yf was selected to achieve a trade-off between their respective atmospheric impacts and to assess its suitability for use in refrigeration systems. In India, space cooling, especially in residential buildings, is a major contributor to cooling demand, with split Air Conditioners (ACs) up to 7 kW being commonly used. Currently, R-32 is the dominant refrigerant in this sector. The study reveals that a 90:10 blend of propane and R-1234yf offers a viable replacement for R-32 in such applications. Blending propane with R-1234yf significantly reduces the GWP of the mixture, bringing it in line with that of R-1234yf alone. Environmental and economic analyses indicate that the total environmental impact of the propane + R-1234yf blend is substantially lower than that of R-32 and R-1234yf when used individually. Under Indian conditions, the blend emits approximately 5.1 tCO₂ equivalent per year, about 22 times less than R-32. Furthermore, both capital and environmental costs associated with the blend are significantly lower compared to R-32. The higher cost of R-1234yf can be offset through blending with propane, as reflected in the economic assessment. In conclusion, the natural refrigerant propane and the fourth-generation synthetic refrigerant R-1234yf, when blended, offer

a promising alternative to conventional refrigerants currently used in India's split AC market, particularly from an environmental feasibility perspective.

Quantification of Non-Exhaust Emissions from Road Transport to Address the Overlooked Environmental Policy Challenge

Project Code: NIScPR/OLP/0065/2024
PI: Dr Sandhiya Lakshmanan
Co-PI: Dr Naresh Kumar and Dr Vipin Kumar
Duration: 2023-2024

Objectives

1. Mapping of the sources, drivers and secondary processes involved in non-exhaust emissions.
2. Developing a methodology for estimation of non-exhaust emissions from road traffic by taking into account the vehicle speed, distance travelled, road condition, driving condition and meteorological factors.
3. Identifying the existing policies and technology solutions for mitigation of non-exhaust emissions and developing a policy framework based on objectives (i) and (ii).

Outcomes/Results

The major results of the study obtained reveal that the maximum emitted pollutants from non-exhaust emissions are VOC, followed by PM_{10} and $PM_{2.5}$. And the exhaust emission of VOC is higher than the non-exhaust NMVOC, except in the states Chhattisgarh, Gujarat, Tamil Nadu, because some of the states have an LDV and HDV population that is fluctuating, which influences the trend. The non-exhaust emission is higher than the exhaust emission in the case of PM_{10} and $PM_{2.5}$. While the rest of the study, such as a comparative study with the other countries with similar meteorological conditions like wind speed and wind dust and the scenarios for BAU and policy interventions, will be developed. The proposed work thus estimated the non-exhaust emissions, such as $PM_{2.5}$ and VOC, which are completely overlooked in traffic emissions. This will sensitise the public to the significance of non-exhaust emissions in addition to vehicle exhaust emissions. Possible solutions to the minimisation of non-exhaust emissions through

technologies as well as policies will be provided in due course. The work has identified the different sources of non-exhaust emissions and their drivers.

Regional Assessment of the Water Footprint of the Major Food Producing States: A Case Study of Uttar Pradesh

Project Code: NIScPR/OLP/0052/2023-24
PI: Dr Shiv Narayan Nishad
Co-PI: Dr Naresh Kumar
Duration: 2023-2024

Objectives

1. Identification of agricultural crops produced in the state at the district level for the period 2000-2020.
2. Estimate the water footprint of agriculture and the domestic sector within the region of interest, with the source of water utilisation.
3. Water Footprint Assessment and Water Footprint Response formulation for policy and decision making for efficient water resource management, and for the sustainability of water.

Outcomes/Results

The study provided a comprehensive analysis of agricultural patterns, rainfall variability, water resources, and water footprint sustainability at the district level across the state. It examined the spatial and temporal trends of major crops, including cereals, pulses, oilseeds, sugarcane, and vegetables, and identified dominant agricultural regions based on cropping intensity and production patterns. The study also assessed rainfall variability, seasonal distribution, drought-prone regions, and water stress conditions, along with surface and groundwater resource availability and irrigation dependency. A detailed assessment of blue water and green water footprints was conducted to evaluate crop-wise and district-wise agricultural water consumption and resource-use efficiency. Furthermore, the study developed a Water Sustainability Index (WSI) to assess the sustainability status and temporal trends of water utilisation from 2000 to 2020. The findings identified hotspot regions facing unsustainable water use and supported

evidence-based policy formulation for efficient water resource management and sustainable agricultural development.

Development of Technology Readiness Assessment (TRA) Guidelines and SOPs for Technology Assessment in Select Sectors

Project Code: NIScPR/OLP/0067

PI: Dr Shiv Narayan Nishad

Co-PI(s): Dr Vipin Kumar and Dr Sujit Bhattacharya

Duration: 2024-25

Objectives

1. Designing the framework for the assessment of TRL for science and technology for select research areas.
2. Develop detailed TRA Guidelines: Establish a set of comprehensive guidelines that outline the process and criteria for assessing the readiness of emerging technologies.
3. Create Standard Operating Procedures (SOPs): Develop step-by-step procedures to be followed during the TRA process, ensuring consistency and reliability across assessments.
4. Forming a network of domain experts from various fields of R&D institutions/Academia/industries for improvement of the facility as well as framework.

Outcomes/Result

The output of the study is the development of sectoral frameworks for the following sectors:

- A. Development of a sectoral framework for TRL Assessment of technologies of 10 sectors
 1. Generic Framework
 2. Food Processing Technologies
 3. Medical Devices
 4. Drugs and Pharmaceuticals
 5. Agriculture Tools and Machinery
 6. Crop Variety
 7. Plant protection technologies
 8. Water Technologies
 9. Desalination water technologies
 10. Wastewater treatment technologies
- B. Sector Specific Guidelines for Technology Readiness Level Assessment.

- C. Standard Operating Procedure (SOPs) Developed for TRL Assessment.
- D. Sectoral Guidelines for Supporting Documents and exit criteria for each TRL scale.
- E. Guidelines for Filling the Questionnaire and Supporting Documents for a Technology Developer.
- F. Guidelines for TRL Assessment Report Preparation, submission, and documentation.

A Comprehensive Sustainability Assessment of Water Use for Cereal Production in Uttar Pradesh

Project Code: NIScPR/OLP/0064/2024

PI: Dr Shiv Narayan Nishad

Co-PI: Dr Naresh Kumar

Duration: 2024-2025

Objectives

1. Assess the current water usage patterns in cereal production across different regions of Uttar Pradesh.
2. Identification of the crops with high water footprints for critical assessment of sustainability.
3. Identification of Hotspot (areas) and time scale of sustainability for providing insights into critical environmental impact areas, improvement, and optimisation of water use.
4. Water footprint sustainability assessment and water footprint response formulation for policy and decision-making for efficient water resources management for the sustainability of water use.

Outcomes/Result

1. Comprehensive understanding of the cropping pattern of the major cereal crops produced in each district of the state of Uttar Pradesh.
2. Comprehensive understanding of water resource availability, rainfall patterns, overextraction, and dependency on water resources.

3. **Comprehensive understanding of water use patterns:** the study provides a detailed assessment of regional variations in water usage patterns associated with cereal crop production across different districts of the state to identify the areas with excessive water consumption and regions facing water stress.
4. **Identification of High Water Footprint Crops:** the study identified that wheat and rice are major water-consuming crops. Analysis provides the critical evaluation of their sustainability and resource use efficiency.
5. **Identification of water stress hotspots:** the study highlights that about 40 districts of the state are under the extremely high stress category, and projected all the districts will fall under this category in the doubling production of cereals scenario.
6. **Assessment of Sustainability in Agricultural Water Use:** the study evaluated the sustainability of current agricultural water consumption practices using water footprint assessment, and also evaluated different production scenarios like increase in 50%, 100%, 150% and 200% production. The time scale for the loss of water sustainability of each crop at the district level is also evaluated.

Identifying Emerging Sustainable Energy Technologies for a Future Innovation Ecosystem: Blue-Energy Technology Foresight

Project Code: NIScPR/OLP/0060

PI: Dr Avinash Kshitij

Co-PI: Dr Naresh Kumar

Duration: 2024-2025

Objectives

To explore the untapped potential of blue energy and its relevance within the broader landscape of global and national clean energy transitions.

Outcomes/Results

Key findings indicate that while traditional renewable sources such as solar, wind, and bioenergy continue to dominate global energy investments due to

their maturity and market readiness, they are accompanied by limitations, including intermittency, land use conflicts, and grid integration complexities. In this context, blue energy emerges as a promising complementary solution, especially in geographies with extensive coastal and marine resources.

The foresight component of the project underscored the importance of preparing for multiple technological futures. Through scenario building and expert consultations, the study identified critical uncertainties and strategic opportunities that could shape the trajectory of blue energy development over the next two decades. Factors such as advancements in material sciences, marine engineering innovations, climate adaptation imperatives, and the increasing role of ocean-based economies will play a significant role in determining the pace and direction of adoption.

Nature-based Solution to Arrest Air Pollution: A Policy Advocacy for Delhi Metro City

Project Code: NIScPR/OLP/0047

PI: Dr Madhulika Bhati

Co-PI: Dr Sandhiya Lakshmanan

Duration: 2023-2024

Objectives

1. To undertake a systematic review by identifying the most recent (post-2005) global literature.
2. Preparation of the inventory of tree species comprises comprehensive indicators, indices, and values to harness their potential for air pollution mitigation.
3. Screening and ordering of the tree species based on all environmental indices.

Outcomes/Results

This study is the first of its kind in terms of the scrutiny of different pollution stress-related indices of different tree species in coherence with various states/cities of India, along with foreign cities. This study report is unique as a list of 189 tree species has been compiled after deeply studying various journals and research papers, which is a bulky dataset in itself. It functions as a thorough reference that recognises and handles the subtleties brought about by the various approaches used throughout the corpus of work. Based on this

data, we recommend that additional research studies be conducted, which align with the pollution status of the city, which may be essential to comprehending and reducing pollution in these areas.

Technology Up-gradation Requirement and Market Expansion Plan of Buoyant Filter Bioreactor (BFBR) Technology of CSIR-NIIST Trivandrum

Project Team: Prof. Ranjana Aggarwal, Dr Yogesh Suman, Dr Shiv Narayan Nishad and Ms Shadiya Jahan from CSIR-NIScPR and Dr Nishy P, Dr Partha Kundu from CSIR-NIIST

Objectives

- To understand the Up-gradation Requirement of BFBR Technology
- To assess the Market Expansion Potential of BFBR Technology

Outcomes/Results

Conclusions and policy recommendations for the future expansion plan of Buoyant Filter Bioreactor Technology:

1. **Scope for Market Expansion:** A huge market for this technology still exists across India in terms of rice mills, ice cream industry and coconut industry that can be tapped where lots of wastewater needs to be treated. The other sectors where the need for wastewater treatment services has grown include food and beverage, chemicals, pharmaceuticals, refineries, and textiles industries. These sectors need advanced treatment technological systems, such as reverse osmosis membranes, for treating their wastewater.
2. **Scope for Technology Up-gradation:** based on the discussion with the industry, it emerged that there is a need for up-gradation in technology, like the inclusion of an automated device for measuring the biogas (methane) quantity produced by the reactor and an automatic reading method for PH and detection of other chemicals in the effluent before reaching the criticality level. Currently, one person is

required to check these parameters. Siphon technology can be integrated with this existing technology for cleaning purposes.

3. **Policy Suggestions:** the study has provided many useful and positive insights about the Technology up-gradation and commercialisation of Buoyant Filter Bioreactor technology developed by CSIR. These include reducing the cost of initial investment (which is about 1 crore at present) while installing the plant; directive from CPCB/SPCB/Municipal Corporation making mandatory the use of this technology in common effluent treatment Plants; and providing subsidy or tax exemption for industries that are using this technology. Mandatory periodical meetings are also recommended between CSIR's scientists and the manufacturer and user of the technology to discuss the possible strategies for ensuring market sustenance of the technology.

Science Communication in Assamese: Promoting Endeavours to Break the Language Barrier

Project Code: NIScPR/OLP/0038/2024

PI: Dr Paramananda Barman

Duration: 2023-2024

Objectives

1. Content creation and publishing an online quarterly magazine in Assamese.
2. Human resource training and outreach programme in science communication (in Assamese). The target group is budding science communicators and students.
3. Documentation and dissemination of the rich traditional knowledge of Assam (NE India).
4. Brainstorming session with experts and collection of feedback from stakeholders for drafting recommendations to strengthen science communication and outreach strategies in Assamese.

Outcomes/Results

Activities focused on strengthening science communication in Assamese through training, outreach,

and documentation of traditional knowledge. A virtual workshop on “Interactive and New Approaches to Communicate Science in Assamese” brought together science communicators, teachers, researchers, and students, and included sessions on popular science writing, science filmmaking, podcasts, and the use of social media for effective science communication. An online quarterly magazine, *Bigyan Lahar*, was initiated.

Traditional knowledge from Assam and other Northeast Indian states was also documented and disseminated in collaboration with the SVASTIK initiative of CSIR-NIScPR. Nine topics were identified, of which six were documented and shared through social media platforms, highlighting culturally significant subjects such as Chakhao rice, sacred groves, Ariju traditional learning system, Kaji Nemu, and Muga silk.

A brainstorming session with leading Assamese science communicators further generated recommendations for strengthening science communication in regional languages.

Breaking the Barriers in Science Communication using Folk Media and Indian languages: A Study with a Focus on North East India

Project Code: NIScPR/OLP/0066/2024

PI: Dr Paramananda Barman

Duration: 2024-2025

Objectives

1. Research and documentation on the use of Folk media for science communication in India, and particularly in NE India.
2. Drafting recommendations for effective use of folk media for science communication.
3. Publishing an online quarterly magazine in Assamese.
4. Human resource training in science communication. The target group is budding science communicators and students.

Outcomes/Results

Several activities were conducted to strengthen science communication through folk media, capacity building, and research. Workshops on popular science writing and Interactive and new approaches to communicate science (2 December 2024) provided training to

participants on effective science communication methods. In addition, a brainstorming session titled “Breaking the Barriers in Science Communication Using Folk Media” was organised to explore strategies for integrating traditional art forms into science outreach. Articles in Assamese were compiled for the magazine.

Research and documentation on the use of folk media in science communication highlighted its effectiveness in raising awareness on issues such as health, agriculture, biodiversity, and social development. Various forms such as puppetry, folk songs, street plays, theatre, and folk painting were found to make scientific information more relatable and engaging for communities. An impact assessment study involving 50 participants from diverse rural and urban backgrounds was conducted using pre- and post-program questionnaires to evaluate changes in knowledge, perceptions, curiosity, and attitudes toward science. The results showed that a majority of participants considered folk media an effective and engaging way to communicate scientific information and expressed interest in participating in similar programs in the future. The brainstorming discussions generated several recommendations.

Assessing Digital Health Literacy and Health-Related Misinformation on Social Media and Drafting Recommendations on the Use of Online Platforms for Health-Related Information

Project Code: NIScPR/OLP/0040

PI: Dr Paramananda Barman

Co-PI: Dr Charu Lata

Duration: 2023-2024

Objectives

1. Assessing digital health literacy and how the public uses online health information sources through a survey.
2. Assessing health-related misinformation present in social media and identifying the categories of misinformation and the factors and channels involved in the spread of misinformation through a survey.
3. Lecture on health-related misinformation on social media.

4. Brainstorming session and drafting recommendations for the use of digital platforms for health communication by the public.

Outcomes/Results

The literature review identified multiple factors contributing to the spread of health misinformation, including demographic characteristics such as age, gender, and education, along with psychosociocultural influences like trust in authorities and scientists, pre-existing beliefs, emotions, cognitive abilities, and peer support. It also examined communicative pathways such as the echo chamber effect, theory of planned behaviour, social normative theory, and media richness theory. Survey findings revealed that participants recognised the usefulness of social media for health information but lacked sufficient knowledge and confidence in accessing reliable information. Although they were aware of the prevalence of misinformation particularly on YouTube and Facebook many failed to verify information before sharing it with others.

A lecture titled “Understanding Health Communication and its Role in Disease Management” by Dr Rajni Kant was organised focusing on health communication, social media use, misinformation, digital literacy, and media training, followed by a brainstorming session on the use of social media in health communication.

Sodium Ion Batteries: A Study on the Research Progress and Policy Pathways for Sustainable

PI: Dr Meher Wan

Duration: Aug 2023 to March 2025

Energy Solutions

Objectives

1. To understand the progress in the research field, a thorough literature survey is to be done with the help of scientometric methodology. Literature survey may also include other ion battery options, if any.
2. A survey and analysis of the current policy on Sodium Ion Batteries around the globe.

3. Framing a methodology for adopting a global standardisation for Sodium Ion Batteries.

Outcomes/Results

A comprehensive literature review has been conducted, which provided valuable insights into the current state of SIB technology and has been disseminated through a published review paper.

A scientometric analysis identified India's significant contributions to the field, particularly by institutions like IISc, IITs, and CSIR labs, and highlighted their international collaborations with countries such as South Korea, Japan, and Germany. This study revealed the growing impact of Indian researchers, with key focus areas including advanced materials like graphene, biomass-derived carbons, and hybrid energy systems, alongside government-driven initiatives supporting research and development.

The policy analysis component of the project has also been done, culminating in a review article focusing on the Policy-Driven Strategies for Advancing Sodium-Ion Battery Adoption in India. This work highlights critical strategies for accelerating SIB adoption.

The analysis also emphasises the importance of international collaborations, recycling frameworks, and safety standards to ensure environmental sustainability. Furthermore, it provides a comparative analysis of SIBs and Lithium-ion Batteries (LIBs), showcasing SIBs as a cost-effective and scalable alternative for energy storage in applications such as rural electrification, renewable energy grids, and low-speed electric vehicles.

Evaluating Science Communication Efforts in Indian languages and Drawing Policy Recommendations to Strengthen Science Contributions in Indian Languages

Project Code: NIScPR/OLP/0042

PI: Dr Manish Mohan Gore

Duration: 2023-2024

Outputs/Results

In this project, the two popular science books of CSIR-NIScPR were translated into the regional languages of India. The book titled “A Matter of Chance” has been translated into Manipuri, and the second book titled

“Be Weatherwise” into Assamese. *Vernacular Voices: Status of Science Communication in Indian Languages* book is a compilation of ten chapters on the status of science communication in ten Indian languages (Schedule in Article VIII of the Indian constitution), along with an English translation of these chapters.

Policy Recommendations from the Project

- The popular science magazine in the regional languages of India (both print and digital versions) should be brought out. Because of the language barrier in India, Non-English speakers (both scientists and citizens) face difficulties in gaining knowledge of science and technology.
- Science communication activities can be initiated in the regional languages, which would help enlighten all sections of society, particularly the deprived ones.
- A single digital platform can be conceptualised and developed where science communication-related knowledge products in all 22 Indian languages should be available.
- Translation of the available literature on science communication in regional languages must be increased by many like-minded organisations.

Evaluating Science Communication Efforts in Indian Languages and Drawing Policy Recommendations through Stakeholder Engagement and Content Creation

Project No.: OLP000059

PI: Dr Manish Mohan Gore

Co-PIs: Dr Pramila Majumdar and Dr NK Prasanna

Project Duration: 2024-25

Outcomes/Results

Three booklets on critical S&T topics — “Deep Ocean Mission,” “CSIR Aroma Mission,” and “Emerging Drone Technology in India,” were created in English and translated into Hindi, Bengali, and Marathi. Additionally, two existing CSIR-NIScPR books, “Animal Journeys” and “Achievements in Anonymity,” were translated into Hindi to increase accessibility. A compendium from a workshop held on 14 February 2025, was also published for future science communicators and policymakers. In total, fifteen publications were produced within a year.

The project assessed the current state of science communication, identified challenges, and developed strategies to improve accessibility through expert consultations, workshops, public surveys, and content development. It explored the use of digital tools, social media, and AI to enhance science communication and counter misinformation.

A significant workshop engaged stakeholders, discussing the role of regional languages, misinformation, AI usage, and policy recommendations. Key policy recommendations included developing standardised scientific terminology across India’s 22 scheduled languages and creating open-access science portals with content in multiple languages. Additionally, it proposed establishing regional science communication hubs in universities for training and capacity building.

Indian Traditional Knowledge: Communication and Policy Perspective

Project Code: NIScPR/OLP/00039/2023

PI: Dr Charu Lata

Duration: 2023-2024

Objectives

1. Identification and documentation of Indian traditional knowledge and practices with a scientific basis,
2. Dissemination of verified information on identified TK in English and various Scheduled Indian languages through social media,
3. Development of a framework for scientific validation of TK,
4. Development of a dedicated web portal for SVASTIK,
5. Publication of a popular science book on disseminated TK stories, and
6. Outreach programme on dissemination of India’s scientifically validated TK (SVASTIK): creating awareness among school children, teachers, and other stakeholders.

Outcomes/Results

- 14 scientifically validated traditional knowledge of India were identified, validated,

documented, and disseminated through SVASTIK.

- 37 infographics, 37 reels, and 41 videos on India's verified TK were disseminated under the project.
- A brainstorming meeting was conducted with the experts working on traditional knowledge in water, ecology and environment.
- A framework for scientific validation of traditional knowledge has been drafted, and a checklist prepared.
- 02 NIScPR SVASTIK Lectures and 02 exhibitions conducted
- 02 workshops for children and college students were conducted.
- An activity on traditional millet recipes conducted in partnership with MyGov.

Enhancing Nutritional Security and Sustainable Health through Millets in India: A Policy Perspective

Project Code: NIScPR/OLP/0044/2023

PI: Dr Suman Ray

Co-PI: Dr Manish Mohan Gore

Objectives

1. Assessment of value-added products available in the market, providing essential nutrients for sound human health.
2. Profiling of millet-based industries providing value-added products and market share.
3. Profiling millet-based products developed by R&D organisations in India but not yet commercialised.
4. Identification of existing policy gaps and policy options for promoting the consumption of millet-based products for populations at large.

Outcomes/Results

1. **Consumer's perspective:** Feedback survey underscores the need for targeted marketing strategies to bridge the age and gender gaps and promote millet consumption among a wider demographic.

2. **Student's perspective:** findings based on feedback survey indicated that the majority of school students, around 52.89%, consumed millets either daily or 2-3 times a week, highlighting a significant preference for millet consumption.
3. **Farmer's perspective:** The primary survey findings highlight diverse motivations among millet farmers, focusing on self-consumption, using millets as livestock fodder, and selling to local vendors. Challenges include economic viability, lack of subsidies, limited market opportunities, and consumer preferences for other grains. Targeted support, awareness programs, and market interventions are crucial for fostering sustainable millet cultivation in India.
4. **Industry's perspective:** The data reveals significant challenges hindering the expansion of millet businesses, including financial constraints, limited market demand, access to processing facilities, skills gaps, regulatory hurdles, and other barriers. Addressing these hurdles is vital for fostering growth and sustainability in the millet industry, emphasising the need for strategic interventions and support mechanisms to enable businesses to overcome these obstacles effectively.

Key initiatives were organised on enhancing nutritional security and sustainable health through millets in India, including an expert review meeting held at CSIR-NIScPR on 3 August 2023 and a brainstorming meeting on 5 March 2024, later published in *Current Science* (Vol. 126, No. 8, pp. 874–875). Two policy bulletins published in June 2024.

Utilisation pattern of Ashwagandha and its Formulations for Alzheimer's disease/dementia Management in the Indian scenario: A Policy Perspective Study

Project Code: NIScPR/OLP/0043/2023.

PI: Dr Suman Ray

Co-PI: Dr Vinayak

Objectives

1. Utilisation pattern and cost-analysis of Ashwagandha and its formulations in management of Alzheimer's disease/dementia in an Indian scenario.
2. Perception of stakeholders on the utilisation pattern of Ashwagandha and its formulations.
3. Analysis for the identification of barriers/challenges: correlation with socio-economic factors, stakeholders/psychiatrists' profiles and their perception.
4. Exploring the Policy aspects of AD/dementia management in the Indian scenario

Outcomes/Results

1. Perception of stakeholders: Knowledge, Attitude, and Practices (KAP) analysis with Ayurvedic doctors:

- Ashwagandha should be used on prescription from registered practitioners.
- There are gaps in knowledge among respondents, particularly regarding Ashwagandha's bioactive components and its specific mechanisms of action in the brain.
- There is a need for evidence-based information and further clinical studies to validate Ashwagandha's efficacy and safety for usage in the contemporary healthcare system.

- There is a need for consumer awareness on safe usage and appropriate medical consultation for accurate prescriptions, which is highlighted.

2. Cost-Effective Analysis of Ashwagandha Formulations

- The analysis of cost ratios and percentage cost variations revealed significant pricing disparities among the Ashwagandha formulations.
- The substantial difference between the minimum and maximum prices of the formulations can be attributed to branding, production complexities, or market-specific demand dynamics.
- It is critical to address the accessibility and affordability of these formulations in order to promote integrative healthcare practices.
- Additional exploration into the specific factors contributing to the observed price discrepancies could improve transparency and aid in decision-making regarding the utilisation of Ashwagandha formulations.

Two brainstorming meetings were organised at CSIR-NIScPR on 28 July 2023 and 13 February 2024. The discussions focused on policy perspectives, with the meeting report later published in the April issue of the *Indian Journal of Traditional Knowledge*.

RESEARCH OUTCOMES AND SCIENCE OUTREACH



RESEARCH OUTCOMES AND SCIENCE OUTREACH

RESEARCH OUTCOMES

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Conference Papers

Dr Shiv Narayan Nishad

- Ana Mijic, Claudia Teutschbein, David Finger, Junguo Liu, Kristian Foerster, Marthe Wens, Nejc Bezak, Santosh Palmate, **Shiv Nishad**, and Stefan Krause (2024). Overview of Theme 2 of IAHS HELPING: Holistic Solutions for Water Security EGU General Assembly 2024, Vienna, Austria, 18 April 2024.

- Kumar N, **Nishad SN** (2024). Comprehensive Analysis of Water Resources for Policy Re-alignment and Sustainable Water Management in Uttar Pradesh. *Water and Sustainable Development*, Springer Nature.
- **Nishad SN**, Kumar N (2024). Assessment of Water Sustainability of major food-producing states using the water footprint Approach: A case study of Uttar Pradesh. *Water and Sustainable Development*, Springer Nature.
- **Shiv Narayan Nishad**, Yogesh Suman, Vivek Kumar, Priyanka Kaushal, Suraj Kumar Singh, Divya Khattar, Ranjana Aggarwal, Virendra Kumar Vijay Technology Mapping for Sustainable Livelihood Creation in Rural Areas of India. International Conference on “Aligning Science, Technology and Innovation Indicators for Effective R&D Governance (STiIG-2025)”, 14-15 January 2025
- Tanu Shiva, **Shiv Narayan Nishad**, Naresh Kumar (2025). Assessment of critical population load for Land Resource Sustainability: a case study of India. International conference on environment and sustainable development: addressing global challenges through collaborative action, 18th-19 September 2025, Guwahati University in collaboration with United Nations Development Programme.
- *Proceedings of a one-day training workshop on Incense Stick Making from Flowers*, CSIR-NIScPR: New Delhi.
- Ranjana Aggarwal, Yogesh Suman, **Shiv Narayan Nishad**, Vinayak, Meetali Bharti, Mandeep Kaur, Tusha, Suraj Kumar Singh, Diksha Tripathi (2023). *Proceedings of one-day training workshop on incense stick making, Page 7 of 18*, CSIR-NIScPR.
- Ranjana Aggarwal, Yogesh Suman, **Shiv Narayan Nishad**, Vinayak, Meetali Bharti, Mandeep Kaur, Tusha, Suraj Kumar Singh, Diksha Tripathi (2023). *Proceedings of Grassroots Innovations and Skill Development Conclave for Rural Development*, CSIR-NIScPR.
- Ranjana Aggarwal, Yogesh Suman, **Shiv Narayan Nishad**, Vinayak, Meetali Bharti, Mandeep Kaur, Tusha, Suraj Kumar Singh, Diksha Tripathi (2023). *Proceedings of Workshop cum Training on Making Value Added Products Using CSIR Technologies in Andaman Region*, CSIR-NIScPR.
- Ana Mijic, Claudia Teutschbein, David Finger, Junguo Liu, Kristian Foerster, Marthe Wens, Nejc Bezak, Santosh Palmate, **Shiv Nishad**, and Stefan Krause (2024). Overview of Theme 2 of IAHS HELPING: Holistic Solutions for Water Security EGU General Assembly 2024, Vienna, Austria.
- Kumar N, **Nishad SN** (2024). Comprehensive Analysis of Water Resources for Policy Re-alignment and Sustainable Water Management in Uttar Pradesh. *Water and Sustainable Development (Springer Nature)*.

Proceedings Reports

Dr Shiv Narayan Nishad

- Ranjana Aggarwal, Yogesh Suman, Vinayak, **Shiv Narayan Nishad**, Meetali Bharati, et al.(2023). *Proceedings of Science Conclave and Agro-Tech Expo-2023: Rural Development Through Science & Technology for “Aatmanirbhar Bharat”* CSIR -NIScPR.
- Ranjana Aggarwal, Yogesh Suman, **Shiv Narayan Nishad**, Vinayak, Meetali Bharti, Mandeep Kaur, Tusha, Suraj Kumar Singh, Diksha Tripathi (2023). *Proceedings of a one-day workshop on Bamboo Cultivation and Candy Making*. CSIR-NIScPR.
- Ranjana Aggarwal, Yogesh Suman, **Shiv Narayan Nishad**, Vinayak, Meetali Bharti, Mandeep Kaur, Tusha, Suraj Kumar Singh, Diksha Tripathi (2023).
- **Nishad SN**, Kumar N (2024). Assessment of Water Sustainability of major food producing State using the water footprint Approach: A case study of Uttar Pradesh. *Water and Sustainable Development (Springer Nature)*.
- Tanu Shiva, **Shiv Narayan Nishad**, Naresh Kumar (2025). Assessment of critical population load for Land Resource Sustainability: a case study of India. International conference on environment and sustainable development: addressing global challenges through collaborative action, 18-19 September 2025, Guwahati University in collaboration with United Nations Development Programme.

Dr Vipin Kumar

- **Kumar Vipin** (2024). CSIR-NIScPR's Journey of TRL Assessment, One-Week-One Theme, NCL Pune, 25 June 2024.
- Priti D, Goyal I, & **Kumar Vipin** (2024). India needs to address biodegradable waste for sustainable waste management: A policy perspective. International Geographical Congress (IGC 2024), Dublin, Ireland.

Dr Charu Lata

- दामिनी शर्मा, वैशाली भार्गव, बेनज़ीर चिष्टी, एवं **चारु लता** (2024). आयुर्वेद में प्रयुक्त औषधीय पौधों में मिलावट और प्रतिस्थापन. In: National conference in Hindi "Rashtriya Hindi Vigyan Sammelan 2024". *Anusandhan Sandesh*. 6(1), 63-87.
- **Lata C** & Barman P (2023). Report on the International Conference on Communication and Dissemination of Traditional Knowledge (CDTK-2023). *Indian Journal of Traditional Knowledge*. 22 (2) p. 458-461.
- Ray S, **Lata C** & Barman P (2023). Report on the National Workshop on "Role of Taxonomical identification & Authentication of Plants & Crude Drugs in Traditional Medicine & Research. *Indian Journal of Traditional Knowledge*. 22 (2) p. 462-464.
- **Lata C** & Barman P (2023). Report: NIScPR-SVASTIK Lecture on "Yoga for Vasudhaiva Kutumbakam". *Indian Journal of Traditional Knowledge*. 22 (3) p. 682-683.
- **Lata C**, Barman P. Report on SVASTIK Special Session at 6th Bharatiya Vigyan Sammelan. *Indian Journal of Traditional Knowledge* (2024). 23(1):100-101.
- Sharma D, **Lata C**, Barman P (2024). A report on the International Conference on "Communication and Dissemination of Traditional Knowledge (CDTK-2024)". *Indian Journal of Traditional Knowledge*. 23(12), 1183-1187.
- **Lata C** & Barman P (2025). A Report on National Workshop on 'Capacity Building in Indian Knowledge Systems': Documentation, Validation, and Communication. *Indian Journal of Traditional Knowledge*. 24 (3):288-291.
- Ray S, Majumdar P, **Lata C**, Barman P,

Lakshmanan S (2024). *Souvenir & Abstract Book, International Conference: Communication and Dissemination of Traditional Knowledge (CDTK-2024)*.

Dr Manish Mohan Gore

- Manish Mohan Gore (2024). Poetry: An Effective Format of Science Popularisation. *Rashtriya Hindi Vigyan Sammelan, Conference Proceedings 2024*.

Technical Reports and Bulletins

Dr Vipin Kumar and Dr Shiv Narayan Nishad

- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK & Banerjee D (2023). *Kodo millet beverage powder*. Developed by Geetha P, Tamil Nadu Agricultural University, Coimbatore.
- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK, & Banerjee D (2023). *Seed cube making machine*. Developed by Umarani, R Seed Centre, Tamil Nadu Agricultural University, Coimbatore.
- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK, & Banerjee D (2024). *A carbon fiber reinforced silicon carbide fiber and its method of preparation*. Developed by Charan, KVR.
- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK, & Banerjee D (2024). *An improved ferromanganese slag to oxidize arsenite and removal of arsenic from water*. Developed by Maiti et al. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK, & Banerjee D (2024). *A pelletized arsenic adsorbent and its method of preparation using the laterite rock and the ferromanganese slag*. Developed by Maiti et al. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK, & Banerjee D (2024). *A low-cost portable mechanical ventilator with feedback control and respiratory monitoring with a remote interface*. Developed by Das et al. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Bhattacharya S, Majumder SK, & Banerjee D (2025). *Sustainable solution for recovery of greater than 95% water, edible salts and mixed salts from desalination reject brine*.

Developed by Chatterjee et al. SSP Private Ltd, Faridabad.

- **Kumar V, Nishad SN**, Majumder SK, & Banerjee D (2025). *Silk fibroin nanofiber-based edible coating for enhancing the shelf life of horticulture products*. Developed by Gopinath et al. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Majumder SK, & Banerjee D (2025). *Lightweight polyester hybrid composite reinforced with chemically treated Sterculia foetida, steel particles, and S-glass fabrics*. Developed by Chethan et al. Alliance University, Bengaluru.
- **Kumar V, Nishad SN**, Majumder SK, & Banerjee D (2025). *Enzymatic conversion of aldehyde to carboxylic acid for the synthesis of ibuprofen using oxidoreductase*. Developed by Kulkarni N. Quantumzyme LLP.
- **Kumar V, Nishad SN**, Majumder SK, & Banerjee D (2025). *Advanced hydrogen on demand systems*. Developed by Saxena, SM AHODS Technologies India Pvt. Ltd.
- **Kumar V, Nishad SN**, Majumder SK & Banerjee D (2025). *A reconfigurable system and method for testing and validation of the power electronics circuit and control for power electronic converter systems*. Developed by Chakrabarty & Ghosh. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Majumder SK & Banerjee D (2025). *The net zero machine*. Developed by Kanitkar, Y. Pi Green Innovations Pvt. Ltd.
- **Kumar V, Nishad SN**, Majumder SK & Banerjee D (2025). *A sustainable and cost-efficient route for the synthesis of paracetamol*. Developed by Banerjee & Haldar. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Majumder SK, & Banerjee D (2025). *Cobalt-based boron nitride supported heterogeneous catalyst involving nitrogen ligand and its method of preparation thereof*. Developed by Banerjee & Haldar. Indian Institute of Technology Roorkee.
- **Kumar V, Nishad SN**, Majumder SK, & Banerjee D (2025). *Motorized exoskeleton for the lower limb*. Developed by Kujur, JI Genelek Technologies Pvt. Ltd.

Participation in Seminars/Conferences/Workshops/Training Courses

Mr Sanjay Burde

- The 49th meeting of the Directors of the ISSN National Centres in Tunis, Tunisia, organised by the ISSN International Centre (21-24 October 2024).

Dr Vipin Kumar

- Chairperson of the session, Models for Successful Start Up of the event India's Startup Revolution: An Exciting journey from an Idea to Market, organised under One Week One Lab (OWOL) programme, CSIR-NPL, New Delhi (12 September 2023).

Dr Suman Ray

- Global Young Indian Scientists Research and Innovation Conference 2023, National Agriculture Science Complex-ICAR, Inder Puri, New Delhi.

Dr Monika Jaggi

- Biogovernance and Science Diplomacy: The Way Forward, organised by RIS & Centre for Global Science and Epistemic Justice (GSEJ), University of Kent, UK (18-19 August 2023; hybrid)
- Exploring the Vital Role of Science Diplomacy and Evidence-Based Policy in Educating Future Scientists, a session organised by the Marie Curie Alumni Association (14 June 2024; Online).
- OPSA-JRC Knowledge Exchange on Technology Foresight, organised by the Office of Principal Scientific Adviser (PSA) to the Govt of India (18 June 2024; hybrid).
- INSA-AASSA Symposium, on Science Policy Futures for Asia (1–3 September 2024).
- Open Dialogue Session of the Chief Science Advisers' Roundtable jointly organised by UNESCO and the Office of the Principal Scientific Adviser to the Government of India (6 September 2024; hybrid).
- Conclave on Policy Deliberations for Strengthening South-South Cooperation organised by CSIR-NIScPR in collaboration with International S&T Affairs Directorate (CSIR-ISTAD), APCTT and WAITRO (11 September 2024).

- Ethics in AI: Framework for Academic and Research Institutions in India, organised by TERI-IGNOU-UNESCO (22 January 2025; hybrid).
- Technology Dialogue 2025, an international technology policy summit jointly organised by the Ministry of External Affairs (MEA), the Office of the Principal Scientific Adviser to the Government of India, and the Indian Institute of Science (IISc), Bengaluru (24–25 January 2025).
- Global Ministerial Dialogue on Science Diplomacy organised by UNESCO (25-26 March 2025; online).

Dr Shiv Narayan Nishad

- Invited Speaker in National Conference on North-East Sustainable and Inclusive Development (NESID)-23 organised by the Assam Kaziranga University (KU) & Institute of Frontier Science and Application (IFSA), Guwahati, 2023.
- One Day Training/Demonstration Workshop on Bamboo Cultivation and Bamboo Candy Making jointly organised by Unnat Bharat Abhiyan- RCI; IIT Jammu; CSIR-NIScPR, New Delhi, Unnat Bharat Abhiyan, NCI and IIT Delhi, 2023 at IIT Jammu.
- Participated in the Climate Clock event (2023) at Indira Gandhi Indoor Stadium, New Delhi, organised by Energy Swaraj Foundation.
- Global Indian Young Scientists Research and Innovation Conference 2023, at National Agricultural Science Complex-ICAR, New Delhi.
- Workshop on Start-up entitled India's Start-up Revolution: An Exciting Journey from an Idea to Market (2023) at CSIR-NPL, New Delhi, under the OWOL programme.
- Grassroots Innovations and Skill Development Conclave for Rural Development (2023) at CSIR-NPL, New Delhi.
- Presented paper at the International Conference on Water and Sustainable Development (ICWSD-2024), VNIT Nagpur.
- Participated in a discussion meeting with ARAI's Experts on Developing Emission Inventory in India, ARAI, Pune (31 December 2024).
- Participated in the International Technology Transfer Symposium organised by the National Research Development Corporation (NRDC) &

United States Patent and Trademark Office (USPTO) at Tamarind Hall, India Habitat Centre, New Delhi (23 May 2023).

Dr Sandhiya Lakshmanan

- Served as a panellist in the panel discussion session on Open Horizons: Integrating Open Access, Open Data and Computational Innovation sponsored by CEFIPRA (5-6 March 2025).

Dr Manish Mohan Gore

- 'Effective ways to communicate Health issues'. A symposium organised by ICMR-RMRC Gorakhpur on 10 April 2023.
- "Science Communication & Scientific Journalism". Vigyan Parv (Science Festival) organised by Rabindranath Tagore University, Bhopal on 6 October. 2023.
- Coordinated media coverage of the "INSPIRE-MANAK National Level Exhibition & Project Competition" organised by DST, Govt. of India on 9-10 October 2023.
- "Science Communication in the Indian Languages" session of Vishwa Rang Seminar at Mauritius on 8 August 2024.
- 'Science Writing in Hindi' workshop organised by Banaras Hindu University on 6 September. 2024 at Varanasi.
- Rajbhasha Workshop at CSIR-IHBT, Palampur, 19 September 2024.

Dr Arvind Meena

- Programme on Strategic Thinking, Innovation Mindset and Design Thinking, at the Centre for Organisation Development (COD), Hyderabad (18-22 August 2025).
- Session chair, Innovations in Biotechnology for Sustainability (IBS-2024), Jawaharlal Nehru University, New Delhi (23 November 2024).

Dr Paramananda Barman

- Global Indian Young Scientists Research and Innovation Conference 2023, 31 May-

02 June 2023, NASC complex, New Delhi (Oral and poster).

- National Youth Conference on Indian Knowledge Systems, IIT Roorkee, 25-27 August 2023, Received first prize (poster).

Popular Articles

Dr Suman Ray

- सुमन एवं स्वीटी. (2025). “स्ट्रोक हर सेकंड मायने रखता है.” विज्ञान प्रगति 28–32.
- **Suman Ray**, Shubhada Kapil, Ritika Sharma, Gayathri J, and Anil Kumar (2023). Alzheimer’s Disease: Recent Advancements in Diagnostic and Therapeutic Strategies. *Invention Intelligence*. Pg. no. 38-41.
- Spotlight on Alzheimer’s disease and Dementia. *Science Reporter*. 42; April, 2023.
- Mohammad Rais and **Suman Ray** (2023). Millets for Sustainable Health & Agriculture. *Science Reporter*. Vol 23, Page. 26-29.
- **Suman Ray**, Manish Mohan Gore, Vasundhara Bhardwaj, Mohammad Rais (2023). स्वास्थ्य एवं पोषण सुरक्षा हेतु आवश्यक पोषक अनाज. *Vigyan Pragati*.

Dr Monika Jaggi

- **Jaggi M**, Bhatnagar A (2024). Innovative Natural Agents Promise to Function as Global Warming Warriors. *Invention Intelligence*. 59 (05), 36–39.
- Bhatnagar A, **Jaggi M** (2024). Infographics: Mpox. *Science Reporter*. 61 (10), 28–29.
- **Jaggi M**, Bhatnagar A (2024). Waste Not Want Not: New Approaches to Electronic Waste Management. *Dream 2047*. 27(1), 12–16.
- Bhatnagar A, **Jaggi M** (2024). Infographics: Chandipura Virus and Avian Influenza A. *Science Reporter*, 61(9). 54–55.
- Bhatnagar A, **Jaggi M** (2024). Test Your Knowledge: Ozone Layer. *Science Reporter*. 61(9), 60–61.
- **Jaggi M**, Bhatnagar A (2024). Sniffing Cancer-Honeybee, a potential cancer detector? *Scientific India*. 12(04), 23–25.
- **Jaggi M**, Bhatnagar A (2024). ई-कचरा प्रबंधन से जुड़ी जागरूकता बेहद जरूरी. *Vigyan Pragati*. 72-73 (11), 33–36.

Dr Shiv Narayan Nishad

- Ranjana Aggarwal, Yogesh Suman, Vinayak, **Shiv Narayan Nishad**, Meetali Bharti (2023). Increasing opportunities for livelihood in rural areas of India through the dissemination of CSIR Technologies. *Vigyan Pragati*. 54.

Dr Lata Charu

- Lakshmi SP, MR Raghul, **Lata Charu**, Barman Paramananda, Vigyanika Science Literature Festival IISF 2023, *Science Reporter*, Vol. 61 (03), 48-50.
- Prof Ranjana Aggarwal, **Dr Charu Lata**, and Dr Paramananda Barman (2024). NIScPR Online Periodical Repository: स्वस्तिक भारतीय पारंपरिक ज्ञान को समाज से जोड़ने की एक राष्ट्रीय पहल. *Vigyan Pragati*.

Dr Manish Mohan Gore

- Gore, Manish Mohan, April 2023. Ek Saptah Ek Prayogshala, *Vigyan Sampreshan*.
- Gore, Manish Mohan, April 2023. 2023 Men Chandrama Chhune Ko Taiyar, *Hindi Vivek*. pp. 38-39.
- Gore, Manish Mohan, April 2023. G20 Bharat aur Science 20, *Electroniki Apke Liye*. pp. 30-33.
- Gore, Manish Mohan, April-September 2023. Prithvi Ko Sahejane Ke liye Paryavaran Chetana Ki Avashyakata, *Navasanchetana*. pp. 1-5.
- Gore, Manish Mohan, May 2023. Adhunik Yug Men Bharat Ki Proudhyogik Pragati, *Awishkar*. pp. 5-11.
- Gore, Manish Mohan, May 2023. Paramparik Hastashilp Kaushal Se Mahilayen Ban Rahin Atmanirbhar, *Kurukshetra*. pp. 51-54.
- Gore, Manish Mohan, June 2023. Paryavaran Sanrakshan Ki Prerana Jagate Paramparik Gyan, *Vigyan Sampreshan*.
- Gore, Manish Mohan, June 2023. Navachar Ki Prerana Yuva Pidhi Ke Liye Mahatvapurn, *Vigyan Paricharcha*. pp. 59-63.
- Gore, Manish Mohan, July 2023. Rashtriya Anusandhan Foundation Ki Sthapana, *Electroniki Apke Liye*.
- Gore, Manish Mohan, August 2023. Rashtriya Anusandhan Foundation: Shiksha Aur Vigyan

- Men Anusandhan Ka Naya Utprerak, *Awishkar*. pp. 24-27.
- Gore, Manish Mohan, Sept.-Oct. 2023. National Research Foundation: An Apex Entity Directing Strategic Scientific Research, *Invention Intelligence*. pp. 34-37.
 - Gore, Manish Mohan, October 2023. CSIR-NIScPR Ne Ayojit Kiya Ek Saptah EK Prayogshala Karyakram, *Awishkar*. pp. 42-45.
 - Gore, Manish Mohan, November 2023. Bachchon Men Navachar Ki Prerana Se Banega Naya Bharat, *Awishkar*.
 - Gore, Manish Mohan, November 2023. CSIR-NIScPR: Bharat Men Vigyan Sanchar Aur Niti Anusandhan Ka Rashtriya Kendra, *Vigyan Sampreshan*.
 - Gore, Manish Mohan, Nov.-Dec. 2023. Vigyan Lokpriyakaran Men Juti Sansthayen, *Electroniki Apke Liye*. pp. 33-37.
 - Gore, Manish Mohan, December 2023. Vigyan Aur Samaj Ko Ek Sutra Men Bandhata Bharat Antarrashtriya Vigyan Mahotsav, *Awishkar*. pp. 30-34.
 - Altaf, Rayies and Gore, Manish Mohan, January 2024. India International Science Festival (IISF) Engages Public with Science, *Science Reporter*. pp. 14-22.
 - Gore, Manish Mohan, February 2024. Vigyan Aur Navachar Ka Utsav Bharat Antarrashtriya Vigyan Mahotsav, *Awishkar*. pp. 22-27.
 - Rizvi, Hasan Zia and Gore, Manish Mohan, March 2024. S&T Media and Communicators Conclave at IISF 2023: Uniting Journalism & Science Communication, *Science Reporter*. pp. 45-47.
 - Gore, Manish Mohan, Oct. 2023-March 2024. Paramparik Hastshilp Kaushal: Grameen Mahilaon Ki Atmanirbharata Ke Srot, *Navasanchetana*.
 - Gore, Manish Mohan, 2-8 March 2024. India's Women Champions in Science, *Employment News*. pp. 1.
 - Gore, Manish Mohan, March 2024. INSAT-3DS: India's Meteorological Marvel, *Employment News*. pp. 1.
 - Gore, Manish Mohan, April 2024. Ek Naye Yug Ke Akash Me Bharatiya Antariksh Karyakram, *Awishkar*. pp. 13-20.
 - Gore, Manish Mohan, April 2024. Star Rating : Urja Ki Bachat aur Paryavaran Ki Hifajat, *Electroniki Apke Liye*. pp. 17-21.
 - Ray, Suman and Gore, Manish Mohan, April 2024. Enhancing nutritional security and sustainable health through millets, *Current Science*. 126(8), pp. 874-875.
 - Gore, Manish Mohan, April-Sept. 2024. Bharat Me Heeng Ki Kheti Ka Prarambh. *Navasanchetana*. pp. 1-3.
 - Gore, Manish Mohan, May 2024. Paryavaran Anukul Vikas Ko Sunishchit Karti Harit Proudhyogiki. *Kurukshetra*. pp. 44-49.
 - Gore, Manish Mohan, May 2024. Aahar, Mausam aur Paryavarana Ka Antarsambandh. *Electroniki Apke Liye*.
 - Gore, Manish Mohan, 11-17 May 2024. Space, Telecom, Biotech, and Beyond India's Technological Triumphs. *Employment News*. pp. 1.
 - Gore, Manish Mohan, 18-24 May 2024. Ecosystem Engineers at Risk: The Importance of World Turtle Day. *Employment News*. pp. 4.
 - Gore, Manish Mohan, 25-31 May 2024. Harnessing Genetics to Combat Tobacco Addiction. *Employment News*. pp. 1.
 - Gore, Manish Mohan, June 2024. Amit Syahi: Lokatantra Aur Navachar Ka Pratik. *Vigyan Sampreshan*. pp. 43-44.
 - Gore, Manish Mohan, July 2024. Gramin Swachhta: Svasth Paryavaran Ke Liye Avashyak. *Electroniki Apke Liye*.
 - Gore, Manish Mohan, July-Aug. 2024. Hiroshima Par Hamle Ki Jinhone Pida Jheli. *Pustak Sanskriti*. pp. 46-48.
 - Gore, Manish Mohan, August 2024. Bemausam Hote Mausam Par Bharat Mausam Vibhag Ki Najar. *Awishkar*. pp. 10-17.
 - Gore, Manish Mohan, 24-30 Aug. 2024. Budget 2024-25: Empowering Research to Fulfill Scientific Aspirations. *Employment News*. pp. 46.
 - Gore, Manish Mohan, October 2024. India's Biofuel Revolution: Efficient, Sustainable, and Clean. *Yojana*. pp. 49-55.
 - Gore, Manish Mohan, 2-8 Nov. 2024. CSIR's One Week, One Theme' Campaign Spotlights

India's Scientific Advancements. *Employment News*. pp. 2.

- Gore, Manish Mohan, 30 Nov. 6 Dec. 2024. India International Science Festival: Unlocking Scientific Excellence for Viksit Bharat. *Employment News*.
- Gore, Manish Mohan, December 2024. Vigyan aur Navacharon Ka Utsav hia IIF, *Awishkar*. pp. 15-22.
- Gore, Manish Mohan, January 2025. Gramin-Shahri Antar Kam Karne Me Madadgar Antariksh Proudhyogiki. *Kurukshetra*. pp. 28-33.
- Gore, Manish Mohan, Jan.-Feb. 2025. Paramanu Urja Ki Prayogshalayen. *Electroniki Apke Liye*. pp. 89-94.
- Gore, Manish Mohan, February 2025. Kisan Kavach: Bharat Ka Pahla Kitnashak Rodhi Bodysuit. *Awishkar*. pp. 24-25.
- Gore, Manish Mohan, 16-31 March 2025. Krishi Kshetra Me Kritrim Buddhimatta. *Hindi Vivek*. pp. 8.
- Gore, Manish Mohan, March 2025. Parivarti Urja Cyclotron Kendra. *Electroniki Apke Liye*. pp. 60-63.

Dr Paramananda Barman

- शायरा, परमानन्द बर्मन. असम में विज्ञान संचार: इतिहास और विकास (2024). नवसंचेतना.

Books/Chapters Published

Books

Dr Vipin Kumar

- **Kumar Vipin**, Bhattacharya S, & Nishad SN (2023). Assessment of Technology Readiness Level (TRL) of Various CSIR Technologies Under ANB and E3OW Themes.
- Aggarwal R, **Kumar Vipin**, Bansal K, & Nishad S (2023). CSIR-NIScPR/AcSIR Academic Handbook.

Dr Avinash Kshitij

- India's Renewable Energy Horizon: A Roadmap to a Sustainable Future. *Bentham Science Books*.

Dr Charu Lata

- Editors: **Charu Lata** & Paramananda Barman (2023). Digital Flipbook in Punjabi. *Treasure of Indian Traditions: A Journey through Scientifically Validated Indian Traditional Knowledge*. Vol I.
- Editors: **Charu Lata** & Paramananda Barman (2024). Digital Flipbook in Hindi. *Treasure of Indian Traditions: A Journey through Scientifically Validated Indian Traditional Knowledge*. Vol I.

Dr Manish Mohan Gore

- *Bharatiya Vigyan Sanstha* (2024) book published by AISECT Publication, Bhopal (ISBN: 978-93-48854-19-3).
- *Bharat Ki Prayogshalayen* (2025) book published by National Book Trust, India, New Delhi (ISBN: 978-93-5743-788-2).
- *Dhalti Umra me Sehat aur Sukun* (2023) book published by National Book Trust, India, New Delhi (ISBN: 978-93-5743-936-7). (Translated)

Dr Shiv Narayan Nishad

- Vipin Kumar, Sujit Bhattacharya, **Shiv Narayan Nishad**, Naresh Kumar, Avinash Kshitij (2023). Assessment of Technology Readiness Level (TRL) of various CSIR technologies under ANB and E3OW themes.
- Ranjana Aggarwal, Vipin Kumar, Kirti Bansal, **Shiv Naryaan Nishad** (2023). *AcSIR Academic Handbook*.
- **Shiv Narayan Nishad** & Naresh Kumar (2025). Regional Assessment of the Water Footprint of the major Foodgrain-producing states: a Case Study of Uttar Pradesh.
- Ranjana Aggarwal, Sujit Bhattacharya, Naresh Kumar, **Shiv Narayan Nishad** (2025). Proceedings of the Conclave on "Policy Deliberations for Strengthening South-South Cooperation" (Prelude to the Science Summit at the 79th United Nations General Assembly).

Book Chapters

Dr Charu Lata

- Shivhare R & **Lata C** (2024). Application of Transcriptomics for Trait Mapping in Pearl

Millet, In: *The Pearl Millet Genome*, Rakesh K, Srivastava C, Tara Satyavathi Rajeev K Varshney (Eds.). Springer Nature, Switzerland, 2024, pp. 107-117.

- Satyavathi CT, Ambawat S, **Lata C**, Shivhare R, Kapoor C, Mukesh Sankar S, Gobu R, Soumya SL, Siddaiah CN & Srivastava RK (2024). Allele Mining for Genome Designing in Pearl Millet, In: *Allele Mining for Genomic Designing of Cereal Crops*, Kole C, Pradhan SK & Tiwari VK (Eds.). CRC Press. pp. 272.
- Jatan R & **Lata C** (2023) Sensory, Physical, and Nutritional Qualities of Traditional Food Prepared from Millets, In: *Nutriomics of Millets*, RN Pudake (Ed.). CRC Press. pp. 157-173.
- Tiwari S & **Lata C** (2023). Identification of Bioactive Compounds in Berberis Species and *In Vitro* Propagation for Conservation and Quality, In: *Plants for Immunity and Conservation Strategies*, MK Mishra, N Kumari (eds.). Springer. p. 113-121.
- Madambikattil Sasi J, Barman P, and **Lata C** (2023). Nutraceutomics of Foxtail Millet (*Setaria italica* L.): Insights, In: *Compendium on Crop Designing for Nutraceuticals*, Chittranjan Kole (Eds.). Springer, Singapore. p. 1-15.

Invited Lectures/Talks

Dr Vipan Kumar

- Kumar Vipan (2024). CSIR-NIScPR's Journey of TRL Assessment, One-Week-One Theme, NCL Pune, 25 June 2024.
- Kumar Vipan (2025). Address in the Inaugural session of the Indo-French Seminar on Open Horizons: Integrating Open Access, Open Data and Computation Innovation, 5-6 March, 2025.

Dr Suman Ray

- Keynote Speaker, "Drug resistance in bacteria: alarming need of new antibiotics", National Conference on North East Sustainable and Inclusive Development (NESID)-2023, Guwahati, 10-12 April 2023.
- Theme Speaker for the session on "One Health–

Nirāmayatvam" at Bharatiya Vigyan Sammelan (BVS) 2025 from 26 to 29 December 2025 at the National Sanskrit University, Tirupati.

- Invited as a distinguished expert/speaker, "Need and Importance of Women Participation in Science Communication" in the brainstorming session of the workshop, two-day National Workshop "Communicate to connect: Science for All", on 14-15 October 2025 at IHBT, Palampur.

Dr Avinash Kshitij

- Invited as a Field Expert in a Symposium on "Computational Science and Scientometrics" on 3 May 2024, at BML Munjal University in Gurugram.

Dr Monika Jaggi

- Invited talk on "Communicating Science: Bridging the Gap between Science and Society" at Deshbandhu College, DU, on 16 May 2023.
- Invited talk on "Popular Science Writing" at Kalindi College, DU, on 2 June 2023.
- Resource Person in Inter-College Skill enrichment course on "Research Methodology Course for UG Studies" at Gargi College, University of Delhi, on 28 October 2023.
- Invited Expert, Panel discussion entitled "Dialogue on Science Diplomacy: Regional and Global Perspectives", INYAS, INSA, Delhi, on 25 January 2024.
- Invited talk on "Scholarly Communication and Scientific Writing" at the Defense Scientific Information & Documentation Center (DESIDOC) on 24 July 2024.
- Invited talk on "Unlocking the Art of Writing Popular Science Pieces", at SGTB Khalsa College, University of Delhi, on 1 October 2024.
- Invited talk on "Mastering the Art of Popular Science Writing", at Gargi College, University of Delhi, on 11 November 2024.
- Plenary address "Science Unplugged: Communicating with Impact" at the IUPAC International Conference on Chemical, Biological, and Environmental Sciences 2025 (ICCBES 2025) sponsored by the Department of Biotechnology

(DBT), Ministry of Science and Technology, Government of India, and Defence Research and Development Organization (DRDO), Ministry of Defence, Government of India on 12 February 2025.

Dr Shiv Narayan Nishad

- Invited speaker in the National Conference on “North-East Sustainable and Inclusive Development (NESID)-23” organised by the Assam Kaziranga University (KU) & Institute of Frontier Science and Application (IFSA), Guwahati on 10-12 April 2023.

Dr Charu Lata

- Lecture on “Communication and Dissemination of Indian Traditional Knowledge: an Insight” during the National Workshop on Capacity Building in Indian Knowledge Systems (IKS): Documentation, Validation, and Communication on 4 March 2025 at DDGD Vaishnav College, Chennai.
- Invited Expert on 19 February 2025 at CCRH hrs regarding revamping the CCRH newsletter published by the Central Council for Research in Homeopathy (CCRH).
- Invited Speaker on the topic “Indian Knowledge Systems A Valuable Asset for Sustainable Development” at the 54th Annual Conference of the Indian Anthropological Society at Amity University, Noida, on 27 September 2024.
- Invited Speaker at the Panel discussion on Arogyasamskriti: The Medical Heritage of Ancient India, organised by the Amrita School of Ayurveda, Kollam, on 16 April 2024.
- Invited Speaker at the Expert Talk programme of Kendriya Vidyalaya, RK Puram, New Delhi, on 22 March 2024.
- Invited Speaker at the International Conference on “Ethnopharmacology for the development of Phytopharmaceuticals (ICTMP)” held at CSIR-IIIM, Jammu, during 16-18 February 2024.
- Invited Panellist for the Panel discussion on “Publication and Ethics” during ICTMP2024.
- Invited Speaker at the ICAR training programme organised by Division of Biochemistry, IARI, New Delhi, during 15 December – 4 January 2024.

- Invited Speaker at the National conference held at CSIR-NEIST, Jorhat during 28-30 November 2023.
- Invited Speaker at the International Conference on “NEP-2020 organised by Jayoti Vidyapeeth Women’s University, Jaipur, during 15-16 May 2023.
- Invited Speaker at the Mother’s Day programme organised by Bioclues on 13 May 2023.
- Invited talk at All India Radio Indraprastha channel on “Millets for a sustainable and better future” broadcast on 27 July 2023.

Dr Sandhiya Lakshmanan

- Invited talk in the Chemical Sciences Section at the 108th Indian Science Congress held at RTM University, Nagpur, (3-7 January 2023).
- Invited talk on Modern Density Functional Theory for Electronic Structure Calculations of Molecules in PSGR Krishnammal College for Women (17 March 2023).
- Invited lectures in the workshop on Electronic Structure Calculations for Molecules and Materials organised by the Department of Physics, Bharathiar University, Coimbatore (17-24 April 2023).
- Invited talk in the Webinar on Empowering Scientific Women: Chemistry in the World’s Growing Potential on the title, Reaction Potential Energy Surfaces and Rate Theory, organised by Dr SSN Govt College, Malanjikhand (12 March 2024).
- Invited talk on Research Paper Crafting in Skillify Workshop organised by the Department of Biochemistry, IARI, New Delhi (23 March 2024).
- Invited talk on Key Elements of Effective Research Paper Writing in the Faculty Development Programme on Effective Research Paper Writing Strategies and High-Impact Journal Publication Techniques held, in online mode, organised by Kongu Engineering College, Erode, Tamil Nadu (22-26 April 2024).
- Invited talk on Building skill in research paper writing and awareness about Indian Journals in the online short course on Agronomic Research for Food Security and Environmental Stewardship in Changing Scenario held from 20-29 June, organised by the Indian Society of Agronomy.
- Invited talk on “Information on Indian Journals

and Techniques for Crafting a high-quality research paper” in the Two-Week Online FDP on Mastering Research Paper and Proposal Writing, organised by SRM Institute of Science and Technology, Chennai (19-30 August 2024).

- Invited talk on Contribution of Women in Scientific India in the One Day National Manthan on the occasion of International Women’s Day, organised by Dr SSN Govt College, Malanjkhanda (12 March 2025).

Dr Manish Mohan Gore

- Invited talk entitled “*Vigyan Pragati: A Unique Magazine to spread Science*”. Presented at the Indian Council of Medical Research (ICMR) HQ, New Delhi, on 10 April 2023.
- Invited speaker in the workshop, “World Environment Day”. Organised by Oil Industry Development Board (OIDB), Noida, on 5 June 2023.
- Invited talk entitled “Effective ways to communicate Health issues”. Presented at ICMR-Regional Medical Research Centre, Gorakhpur (UP) on 29 June 2023.
- Invited speaker in the workshop, “Science Communication & Organisations engaged in this work,” organised by Rabindranath Tagore University, Bhopal, on 6 October 2023.
- Invited speaker in the workshop, “Communicating the Science of Things through Radio Features & Documentaries,” organised by the National Academy of Broadcasting & Multimedia, Prasar Bharati, New Delhi, on 11 October 2023.
- Invited speaker in the workshop, “Exploring Innovative Approaches to Science Communication”. organised by School of Liberal Studies & Media, UPES University, Dehradun, on 11 July 2024.
- Invited talk entitled “Nuances of Popular Science Writing in Hindi,” Organised by Hindi Prakashan Samiti, Deptt. Of Zoology, Banaras Hindi University (BHU), Varanasi, on 6 Sept. 2024.
- Invited speaker in the workshop, “Popular Science Writing in Hindi,” organised by CSIR-Institute of Himalayan Bioresource and Technology, Palampur, on 19 Sept. 2024.

- Invited speaker in the workshop, “Environment and Literature,” organised by Sahitya Academy (Delhi) and Lekhak Gaon (Dehradun) on 26 October 2024.
- Invited speaker in the workshop, “Importance of science books for creating scientific awareness in society,” organised by Press Club of India on 29 October 2024.
- Invited speaker in the workshop, “Health related writing in Hindi”. Organised by Vaishvik Hindi Parivar, on 22 December 2024.
- Invited speaker in the workshop, “Research Methodology, Science Communication & IPR: A Futuristic Perspective,” organised by CSIR-Indian Institute of Integrative Medicine, Jammu, on 31 January 2025.
- Invited speaker in the workshop titled “Innovative methods to promote underserved learners of science & environment,” organised by In-Service Teacher Education Institute, Delhi, on 27 February 2025.
- Invited speaker in the workshop, “Communicating Science through Science Books and Monographs,” organised by Rabindranath Tagore University, Bhopal, on 29 March 2025.

Radio Talks

- Grameen Vikas Me Soochana Aur Sanchar Ka Mahatva. All India Radio, New Delhi. Broadcast on 17 November 2023.
- Interacted and shared experiences in scientific research and science communication in “Hamare Atithi” programme of All India Radio. The date of broadcast was 16 December 2023.
- Objectives and social benefits of the India International Science Festival 2023 (Phone-in Live programme). All India Radio, New Delhi. Broadcast on 17 January 2024.
- Gramin Vikas me Soochana aur Sanchar Madhyamon madhyamon ki Bhumika. All India Radio, New Delhi. Broadcast on 18 October 2024.
- Gramin Khsteron me Takniki Vikas Me Rashtriy Vigyan Sanchar evam Soochana Sansadhan Ka Yogdan. All India Radio, New Delhi. Broadcast on 17 January 2025.

TV Programmes

- Expert Talk on “Science & Technology for Sachet Bharat Surakshit Bharat”. Telecast at DD National on 2 January 2024.
- Interview on “Celebrating Leap Day” on the occasion of Leap Day (29 February). This programme was telecast at DD National on 5 March 2024.
- Participated in the Live DD Morning Show “National Science Day”. This programme was telecast at DD National on 25 February 2025.

Dr Meher Wan

- Invited address in the G20-Science20 meeting held at Coimbatore, organised by the Indian National Science Academy, a nodal agency for the Science-20 meetings on 21-22 July, 2023.
- Invited Speaker in “Takniki Hindi Sangoshthi 2023” at Indian Institute of Technology Jodhpur during 2-3 December 2023.
- Keynote address at National Institute of Advanced Manufacturing Technology, Ranchi, during “An International Conference on Translational Research: Metals and Materials” on 19-21 November 2023.
- Invited lecture on Science Communication at the Indian Institute of Technology, Hyderabad, on 2 March 2025.

COLLABORATIONS & NETWORKING

MoU between CSIR-NIScPR and Gurugram University

The MoU between CSIR-NIScPR and Gurugram University in the FY 2024-25. This MoU was valid for a period of one year to offer student exchange for capacity building in each institute’s domain area/s along with the organisation of seminars, workshops, etc.

MoU with National Translation Mission

CSIR-NIScPR went into the MoU with the National Translation Mission, Mysuru, for bringing out NIScPR’s popular science books into 22 Indian languages. In the report period, NIScPR provided 8 books to NTM for publishing language editions. This endeavour will ensure the popular science books are available in the regional

languages of the country.

Media Collaboration

Science & Technology Media and Communicators Conclave of IISF 2024 was conducted during 1-2 December 2024 in IIT Guwahati. Science journalists, editors, science communicators and science film-makers participated and shared their valuable thoughts. This conclave fostered discussions, collaborations, and networking among participants, contributing to the broader objective of making science accessible to the public through effective communication. The conclave catalysed advancing science journalism and collaboration, leaving a lasting impact on the participants and reinforcing the commitment to making science a vibrant part of public discourse.

MoU with CSIR-NIScPR and NRDC

CSIR-NIScPR and NRDC signed an MoA jointly on 29 December 2023 in the august presence of DG-CSIR and



Secretary DSIR, Dr N Kalaiselvi, to establish the Technology Readiness Assessment Facility, known as National Establishment for Technology Readiness Assessment (NETRA), at NRDC, New Delhi.

The objectives of the facility are as follows:

- To evaluate the maturity level/readiness of the technologies being developed.
- To assess the acceptability of the technologies in the current market/ commercial scale.
- To identify the potential areas of risk associated with the development of the technologies.
- To undertake research for strengthening the TRL-based assessment in the country.
- To suggest improvements to the clients in the technologies being developed by them and to offer alternative solutions for upgrading the level of technology.
- To assist the beneficiaries, i.e. academic institutions, universities, R&D labs, entrepreneurs, individual innovators, start-ups, private organisations, MSMEs or industries working in technology development .

CSIR-NIScPR act as a Knowledge Partner and will contribute to designing the standard framework for assessment of TRL for various domains of science and technology, and skilling the personnel.

MoU with CSIR-IHBT, Palampur, and Kirat



Biotech Pvt.Ltd

Signed a tripartite MoU with Kirat Biotech Pvt. Ltd. and CSIR-IHBT, Palampur, on 9 February 2024, for in large commercial production of Shiitake Mushroom

based on the technique developed by CSIR-IHBT at Kirat Biotech Pvt. Ltd.

MoU with Meerut Udhya Foundation

A bilateral MoU with Meerut Udhya Foundation on 9 February 2024, for disseminating CSIR technologies in rural areas of the country, for creating awareness about CSIR technologies through the organisation of Technology Exhibitions/ showcasing events/conducting trainings/skill development programmes on CSIR technologies/ installing/deploying CSIR technologies for the purpose of creating business opportunities/ start-ups/ demonstration/ production facilities, etc.

MoU with Vibha Vani India

CSIR-NIScPR and Vibha Vani India signed an MoU on 13 June 2025. The scope of collaboration includes mentoring rural stakeholders in using CSIR technologies and providing access to incubation and infrastructure facilities at CSIR labs as per guidelines. It involves disseminating and showcasing CSIR technologies, promoting innovations through CSIR-NIScPR and other CSIR institutions for commercialisation, and scaling up initiatives like the Kisan Sabha mobile app to support livelihoods and agri-entrepreneurship. The partnership was to explore collaborations with CSR funds, government schemes, TBIs, and innovators, document and protect traditional knowledge, conduct workshops and awareness programmes, and jointly seek national and international funding for technology deployment and related activities.

Science Conclave and Agro-Tech Expo held at Gurugram University, jointly organised by CSIR-NIScPR, Gurugram University and DST Haryana

CSIR-NIScPR, Gurugram University, and DST Haryana





jointly organised the “Science Conclave and Agro-Tech Expo” on 15-16 March 2023 at Gurugram University to facilitate interaction on science and technology developments for farmers and students. The event saw participation from over 1000 scientists, academicians, farmers, and students, and featured the inauguration by Dr N Kalaiselvi, along with other eminent dignitaries from academia and science institutions.

One Day Training/Demonstration Workshop on Bamboo Cultivation and Bamboo Candy Making Jointly Organised by Unnat Bharat Abhiyan-RCI, IIT Jammu, CSIR-NIScPR, New Delhi and Unnat Bharat Abhiyan, NCI, IIT Delhi, (28 April 2023) at IIT Jammu

The workshop focused on promoting bamboo cultivation and value-added bamboo products in the Jammu region to create livelihood opportunities and enhance farmers’ income. It brought together scientists, academicians, UBA institutions, SHGs, KVKs, farmers, and village communities to discuss opportunities, challenges, and technologies developed



by CSIR-IHBT for bamboo-based entrepreneurship and sustainable development

One-day training Workshop on Incense Stick Making from Flowers at Shobhit University, Gangoh (24 May 2023)

The event provided training and technological exposure for farmers and small entrepreneurs to manufacture incense sticks from flowers collected from temples and other religious places. Supported by CSIR-CIMAP, Lucknow, the programme engaged participants from CSIR labs, UBA institutions, SHGs, and farming communities through both offline and online participation.

Hands-On training Programme on Utilisation of offered flowers for making of Incense Stick & Cone for Women and Unemployed Youth at Pilli Padav village, Haridwar (25 May 2023)

The event provided training and technological exposure for farmers and small entrepreneurs to manufacture incense sticks from flowers collected from temples and other religious places. Supported by CSIR-CIMAP Lucknow, the programme engaged participants from SIR labs, UBA institutions, SHGs, and farming communities through both offline and online participation.

Grassroots Innovations and Skill Development Conclave for Rural Development, (13 September 2023) at CSIR-NPL

The event showcased CSIR rural technologies to farmers,



entrepreneurs, students, and stakeholders from UBA and VIBHA networks, with around 450 participants, including scientists, SHGs, FPOs, and academicians. It enabled interactions and training on agriculture, agro-processing, and sustainable practices, promoting collaboration and dissemination of CSIR technologies for rural development through science and technology interventions.

Workshop cum Training on “Making Value Added Products Using CSIR Technologies in Andaman Region” (11-12 January 2024)

CSIR-NIScPR, along with UBA, VIBHA, DSIR, and JNRM, organised a two-day workshop in Port Blair to train farmers, SHGs, and entrepreneurs in producing value-added products using CSIR-developed technologies.



in food processing, solar drying, and agricultural technologies, along with guidance on funding opportunities, government schemes, and project proposal writing. It saw participation from over 100 local stakeholders, including a large number of women entrepreneurs, SHGs, and FPO members, promoting rural entrepreneurship in the Andaman region.

An event, “TRL Assessment and Patent Landscaping of Energy Technologies: Pathways for Commercialisation.

This was held on 25 June 2024, at CSIR-National Chemical Laboratory, Pune. CSIR-NIScPR, in collaboration with CSIR-NCL, organised the event that aimed to support the commercialisation of innovative energy technologies by using Technology Readiness Level (TRL) assessments and patent landscaping — key tools for strategic planning and market positioning.

International Conference on “Communication and Dissemination of Traditional Knowledge (CDTK-2024)” (13-14 November 2024)

The Second International Conference on “Communication and Dissemination of Traditional Knowledge (CDTK-2024)” was organised by CSIR-NIScPR in collaboration with Gurugram University, Gurugram, during 13-14 November at Gurugram University, Haryana. The conference was supported by the Council of Scientific and Industrial Research (CSIR) and the Anusandhan National Research Foundation (ANRF). It brought together global experts to explore the pivotal role of Traditional knowledge (TK) in sustainable development.



Through insightful workshops, sessions, panels, and exhibitions, the conference underscored the relevance of TK in modern times while tackling ethical, ecological, and economic challenges. The conference was coordinated by Dr Charu Lata, Principal Scientist, CSIR-NIScPR.

Vigyanika — Science Literature Festival, IISF 2023

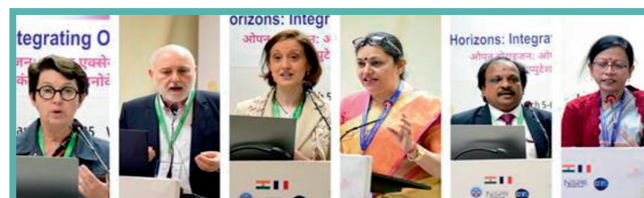
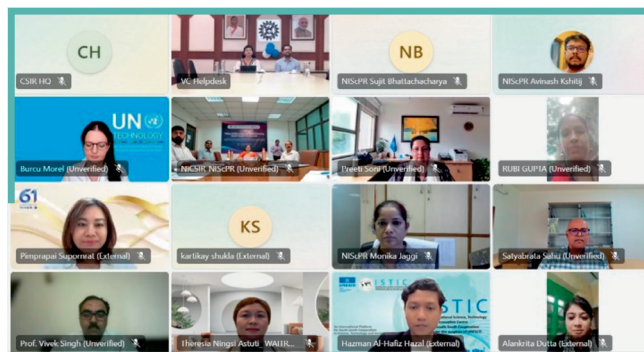
The Vigyanika Science Literature Festival 2023, held on 18–19 January 2024 at the DBT-THSTI-RCB campus in Faridabad as part of IISF 2023, featured discussions, workshops, scientific sessions, and student engagement activities focused on science communication. The event brought together around 350 participants, including students, science communicators, and enthusiasts from India and abroad, with coordination by CSIR-NIScPR, NIF, and VIBHA.

Vigyanika — Science Literature Festival, IISF 2024

The Vigyanika Science Literature Festival, a key event of IISF 2024, was held on 1 December at IIT Guwahati with the theme “From Folklore to Future: An Indian Literary Exploration.” The two-day festival featured sessions and workshops on science communication, Indian scientific narratives, multilingual communication, and the role of AI in science writing. The event was jointly coordinated by CSIR-NIScPR along with CSIR-NIIST, VIBHA, IIT Guwahati, and DBT.

A “Conclave On Policy Deliberations for Strengthening South-South Cooperation (Prelude to the Science Summit at the 79 United Nations General Assembly)”

The conclave, which was organised jointly by the Council of Scientific and Industrial Research (CSIR), the World Association of Industrial and Technological Research Organizations (WAITRO), and the Asia-Pacific Centre for Technology Transfer (APCTT), was held on 11 September 2024. This conclave was a significant prelude to the Science Summit at the 79th United Nations General Assembly, which occurred on 18-19 September 2024. The event was hosted by CSIR-National Institute of Science Communication and Policy Research (NIScPR), New Delhi. The event gathered



experts, policymakers, and representatives from various South countries and international organisations to explore collaborative avenues for achieving the Sustainable Development Goals (SDGs).

Indo-French Seminar on “Open Horizons: Integrating Open Access, Open Data, and Computational Innovation” (6-7 March 2025)

CSIR-NIScPR, in collaboration with CNRS-DDOR, Paris, organised the Indo-French Seminar “Open Horizons: Integrating Open Access, Open Data, and Computational Innovation” on 5–6 March 2025 at its Satsang Vihar Campus. The seminar brought together researchers, scientists, and policymakers from India and France to discuss open science, open access, open data, computational innovation, and research evaluation, highlighting the role of digital technologies and open-source platforms in advancing scientific collaboration and transparency. Eminent dignitaries and experts from leading institutions in India and France participated in

thematic sessions on open science policies, research assessment, data sharing, and innovation ecosystems.

Stakeholders Meet for Dissemination of CSIR Technologies in Andaman and Nicobar Islands. Jointly Organised by CSIR-NIScPR, UBA, VIBHA, JNRM at JNRM Port Blair



CSIR technologies in agriculture, food processing, bee farming, floriculture (AROMA Mission), water purification, desalination, and fisheries were showcased for sustainable development and livelihood creation in the Andaman region. A three-day stakeholders' meet held at JNRM, Port Blair (11–13 March 2025), organised by CSIR-NIScPR with UBA, IIT Delhi, VIBHA, and JNRM, focused on technology dissemination, capacity building, and collaboration among stakeholders. The event brought together scientists, government officials, institutions, NABARD representatives, and around 150 SHG participants to explore region-specific applications



of CSIR innovations.

KIZUNA India Japan Study Forum and CSIR-NIScPR Host a Lecture on Science and Higher Education in India and Japan

The KIZUNA India Japan Study Forum and CSIR-NIScPR, New Delhi, jointly organised a lecture on the topic “The Culture of Science & Higher Education in India and Japan: Historical Perspectives, Current Issues and Tips for Exchanges”, on 26 March 2025. Renowned scholar Prof. Yoshiro Azuma delivered this lecture.

The event aimed to facilitate a deeper understanding of the historical and cultural contexts of science and higher education in India and Japan. Prof. Azuma's lecture provided valuable insights into the similarities and differences between the two countries' approaches to science and education.

Technology Demonstration and Networking Meet of CSIR-CFTRI Food and Millet Technologies” Jointly organised by CSIR-NIScPR, CSIR-CFTRI, UBA, VIBHA, 19-20 September 2024 at CSIR-CFTRI, Mysuru



Technologies for improving rural livelihoods. The event focused on food processing innovations, post-harvest technologies, and nutraceutical applications, bringing together stakeholders from academia, industry, policy, and rural communities to promote technology adoption, collaboration, and sustainable development, with participation from over 100 delegates across India.

Science Summit at the United Nations General Assembly 80 (SSUNGA80) on the theme Women and Girls in Science on “Driving Gender-Inclusive Innovation and Breaking Barriers: CSIR a Case Study”

The SSUNGA80 Science Summit on “Driving Gender-



Inclusive Innovation and Breaking Barriers: CSIR – A Case Study,” jointly organised with ISTAD-CSIR on 18 September 2025, focused on strengthening women’s participation and leadership in STEM. The summit addressed global and national gender gaps in STEM careers and highlighted structural and socio-cultural barriers while showcasing case studies of women driving innovation and inclusive scientific progress. It brought together global leaders, policymakers, researchers, and practitioners to discuss actionable strategies for promoting gender equality and inclusive innovation in science and technology.

SVASTIK Partnership with MyGov

Partnership with MyGov, an online citizen engagement platform for the SVASTIK initiative. Three activities regarding traditional millet recipes, processing, and storage techniques were conducted. A Quiz contest, #SVASTIK Quiz (<https://quiz.mygov.in/quiz/svastik-quiz>), in partnership with MyGov, was also rolled out with effect from 13 December 2024 to 31 January 2025 under the national initiative #SVASTIK.

Collaboration with the Dwarka Doss Goverdhan Doss Vaishnav College

A one-day national workshop on 4 March 2025, under the #SVASTIK initiative in collaboration with the DDGD College, was conducted for faculty members in Chennai.

Collaboration with the Indian National Young Academy of Science (INIAS)

A weeklong workshop from 21 October to 25 October under the #SVASTIK initiative in collaboration with the INIAS flagship programme #RuSETUP (Rural Science Education and Training for Upgradation of Practices) and the University of Ladakh, was conducted across multiple educational institutions in Ladakh.

Several outreach programmes and exhibitions were also conducted under the SVASTIK initiative:

- Exhibition during One Week One Lab (15 Sep 2023)
- Exhibition during CSIR Foundation Day (27 Sep 2023).
- SVASTIK Exhibition during the Monitoring committee meeting at CSIR-NIScPR (21 March 2024).





- (d) SVASTIK presented their covered stories across various sectors at the CSIR exhibition at the Pragati Maidan, New Delhi (August 29 – 31 August 2024).
- (e) The SVASTIK Exhibition was prominently featured at the North East Students Festival Exhibition on 21 September 2024 at Talkatora Stadium.
- (f) The SVASTIK team showcased a curated collection of SVASTIK stories highlighting Indian traditional knowledge, emphasising its scientific validation and relevance in society during the CSIR exhibition at the Vibrant India 2024 Exhibition (25-27 October 2024).
- (g) SVASTIK exhibition at the CDTK 2024 (13-14 November 2024)
- (h) SVASTIK exhibition at Shiksha Mahakumbh-2024 at Kurukshetra, Haryana (16-17 December 2024)
- (i) SVASTIK exhibition DDGD Vaishnav College, Chennai (4 March 2025)
- (j) In addition, several lectures and exhibitions in association with CSIR-JIGYASA were conducted at CSIR-NIScPR

SCIENCE OUTREACH

Jigyasa – Science-Society Connect

Launched in 2017 during CSIR's Platinum Jubilee, Jigyasa aligns with Prime Minister Narendra Modi's vision of Scientific Social Responsibility (SSR). Jigyasa is a national initiative of the Government of India that aims to ignite curiosity and foster scientific temper among school students. It connects young minds with scientists and research institutions, inspiring them to explore science through experiential and inquiry-based learning.

Jigyasa, a pan-CSIR programme partnered with Kendriya Vidyalaya Sangathan, inspires scientific temper in students. CSIR-NIScPR leads its implementation by inviting NCT-region students and teachers for lab tours, live demonstrations, and direct interactions with scientists. Hands-on exhibitions of medicinal plants and herbs — let participants “touch and feel” nature's remedies.

The JIGYASA programme under CSIR-NIScPR has created a profound impact by engaging over 5000 students from diverse backgrounds, including remote and rural areas, to foster scientific curiosity and hands-on learning opportunities across India, particularly in the Delhi NCR regions. Besides, more than 200 teachers across various schools have benefited from Jigyasa programmes during the period of FY2023-2025.



Sr. No.	Activity Names	Details of the activity	Number Proposed	Number Achieved
1.	Animations	Focused on creating four animated videos covering Artificial Intelligence, Robotics, buzzer volume variation, and water wave behaviour, offering clear explanations of basic scientific principles through engaging visuals.	4	4
2.	Videos	The six videos created covered Aquaculture, Stem Cells, the History of Millets, Traditional Millet Recipes and their Ethnomedical Importance, miRNA, and Marine Conservation.	6	6
3.	Quiz	The CSIR quiz includes 10 questions on fundamental concepts. The Science Books and Authors quiz also has 10 questions, along with quizzes on climate change, environmental awareness, and emerging technologies.	4	4
4.	Comics	The comic Myth of Biological Determinism examines how genetics and environmental factors, like nutrition and cultural influences, interact to shape human traits and behaviour.	1	1
5.	Info-graphics	Six infographics created covered the IUCN Red List, Geological Time Scale, DNA & RNA, Ashwagandha, and "Stroke: Every Second Counts."	6	6

CSIR-NIScPR implements it actively through events like lab visits and webinars.

Key Activities

- Hosts interactive sessions at NIScPR's Pusa or SV Marg campuses and outreach Programme, featuring hands-on demos, scientist lectures, and CSIR tech showcases.
- Distributes popular Magazines — *Science Reporter* and *Vigyan Pragati*, and *Ayur-Vatika Bulletin* were also distributed among students & teachers. Promotes virtual labs for science learning.
- Visits to the Raw Materials Herbarium & Museum Facility
- SVASTIK exhibitions
- CSIR-NIScPR Popular Book Exhibition
- Ayur-Vatika (Bringing Herbal Healthcare to your Doorstep)

Some of the major activities carried out as part of the Jigyasa initiative include the following:

- (1) Earth Day Celebration, the world's largest global climate clock assembly and display, wherein students were exposed to the concept of "Climate Clock" through a brief film that underscored the significance of climate change and its impact on the environment.
- (2) EMRS (Eklavya Model Residential School) Visit. During the session, the students got to watch an exciting video

(movie show) about Artificial Intelligence (AI).

- (3) Student-Science Connect Event organised under the One Week One Lab Programme of CSIR-NIScPR
- (4) On 27 September 2023, the CSIR-NIScPR celebrated the second day of the CSIR 82nd foundation day with an engaging and educational event at Pragati Maidan, New Delhi.
- (5) Joint Collaborative Programme — CSIR-NIScPR-USO-UNESCO *Young Scientist Challenge, 2023*. During the programme, school to register and submit three scientific and sustainable ideas from their students, common to everyday problems. Open to students of std. 6-10 from USO member schools nationally. This was to encourage students to use basic sciences and find innovative and sustainable solutions to common everyday problems.
- (6) IISF 2023 Outreach Programme — on 18 December 2023, CSIR-NIScPR organised the outreach event for the India International Science Festival (IISF) in New Delhi. The mega science festival aimed to honour and highlight the scientific achievements in Science, Technology and Innovation in the country. The primary objective was to connect science with society.
- (7) Energy literacy training of Energy Swaraj Foundation was conducted to enhance understanding of energy generation, consumption, efficient use, misuse, and clean energy conservation opportunities.

The sessions Actively engaged participants using real-life examples, interactive exercises, and short assessments.

- (8) Rise in India 2025 – The Mega Exhibition’: CSIR-Jigyasa Outreach Programme at HRIT University, Ghaziabad, Uttar Pradesh.

ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

AcSIR was established in 2010 (by a resolution of the Government of India on July 17, 2010) and formalised by an Act of Parliament vide *The Gazette of India* (dated February 7, 2012) and notified on April 3, 2012, as an Institution of National Importance.

With the merger of CSIR-NISTADS and CSIR-NISCAIR into a unified entity, CSIR-NIScPR (National Institute of Science Communication and Policy Research), the Institute now offers new opportunities as part of AcSIR activities.

Mission: To promote STI policy studies and science communication among diverse stakeholders and act as a bridge at the interface of science, technology, industry and society to enable a robust S&T ecosystem in the country.

Objectives: To identify ST&I needs for National missions and create road maps for Sustainable Development, and act as a facilitator in furthering the economic, social, industrial, scientific and commercial development by providing timely access to relevant and accurate information.

Details of PhD Scholars (From April 2023 to 2025)

Students Enrolled during	PhD Awarded during	Publications during
Enrolled = 09 Total student = 49	12	23

AcSIR Rankings

NIRF 2025 – Research Institutions	SCImago Institutions Rankings (SIR)	Nature Index
9 th	13 th	11 th

Key Achievements

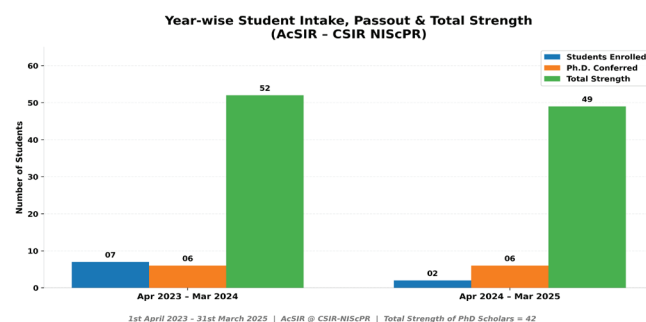
PhD students participated in international conferences (Brazil, Germany, Ireland, etc.).

- Published the *Academic Handbook* for the PhD. Programme (ISBN: 978-81-7236-389-5).
- Awarded the first PhD degree in the Hindi language under AcSIR at CSIR-NIScPR.
- Three PhD students from CSIR-NIScPR applied for the AcSIR Joint International PhD. Programme and have received offers to pursue their research at RMIT University, Australia.
- A PhD scholar from CSIR-NIScPR has been awarded the prestigious India AI Fellowship.
- Established the AcSIR NIScPR Science Club, which actively celebrates and promotes student & faculty activities, fostering a vibrant academic community.
- PhD Alumni from CSIR-NIScPR have achieved 100% job placements in reputed organisations, startups, and research institutions.

Major International Collaborations

- University of Melbourne, Melbourne, Australia
- RMIT University, Melbourne, Australia
- Deakin University, Melbourne, Australia
- University of Western Australia, Perth, Australia
- University of Agder, Norway

Year-wise Student Intake, Passout & Total Strength



PhD Scholars

Student Enrolled during April 2023 - March 2024	07	Student Enrolled during April 2024 - March 2025	02
PhD Conferred during April 2023 - March 2024	06	PhD Conferred during April 2024 - March 2025	06
Total Strength of PhD Scholars = 42			

S.No.	Publications	Numbers of Publications
1	Journal Papers	20
2	Conference Papers / Proceedings	03

Extracurricular Activities

AcSIR CSIR-NIScPR Academic Handbook

AcSIR, CSIR-NIScPR introduced our first *Academic Handbook* on the PhD programme, which includes students' details, faculty information and other academic activities during the One Week, One Lab event.

Science Club@ CSIR-NIScPR

The AcSIR, CSIR-NIScPR Science Club, established in the August 2024 session, which serves as a common platform for AcSIR scholars at CSIR-NIScPR to come together and exchange ideas on various aspects of science. The club encourages through its activities and participation from students across different subjects and departments, the Science Club seeks to promote interdisciplinary interaction and a broader understanding of scientific and societal issues. It aims to create an open environment where ideas can be shared freely, and diverse perspectives can be appreciated.

Poster Presentation

A poster presentation competition was held during the third Foundation Day of CSIR-NIScPR.



Special Lecture by Prof. Yoshiro Azuma, Visiting Professor, Physics Department, BITS Pilani, Goa Campus

A lecture titled "The Culture of Science & Higher Education in India and Japan: Historical Perspectives, Current Issues and Tips for Exchanges" was organised by the Kizuna India-Japan Study Forum in collaboration with CSIR-NIScPR on 21 March 2025 at Vivekananda Hall and via Zoom. The lecture was delivered by Prof. Yoshiro Azuma, who discussed historical perspectives, cultural influences, and opportunities for

strengthening academic exchange and collaboration between India and Japan in science and higher education.

Interactive Session with Prof. Deepak Kumar (Retd), Eminent Professor, JNU Delhi

CSIR-NIScPR and the Science Club at NIScPR organised a special interactive session on 20 March 2025 as part of the celebrations of AcSIR's 13th Foundation Day with Prof. Deepak Kumar (Retd), Eminent Professor (History of Science & Education), JNU Delhi. Prof. Kumar shared valuable insights from his journey and actively engaged with the faculty members and students through questions and discussions.

Teachers' Day Celebration

The Science Club at CSIR NIScPR organised a memorable Teachers' Day event on 5 September 2024. The entire event was planned, executed, and also funded by the club members, showcasing their hard work and

dedication. It was well-received, with students and teachers praising the thoughtful planning and execution.

Science Festival

Our first AcSIR Science Club event, "Singularity", was a collaborative effort organised by CSIR-NIScPR, CSIR-IGIB, CSIR-CRRI, and CSIR-NPL, and hosted by CSIR-IGIB on 20 September, 2024. The active involvement of these institutions was instrumental in planning the event, managing participant entries, and promoting the festival. Students from CSIR-NIScPR enthusiastically participated in various competitions during the Science Festival.

Photography Contest

Our first task was evaluating submissions for a photography contest in August 2024. The contest focused on various scientific topics, i.e. Environment, Technology, Nature and Climate.

NIScPR Rangoli Team (Earned 2nd Place)



Mr Prajith KK (PhD Scholar, CSIR-NIScPR)

NIScPR Science Fiction (Runners-up)



Ms Moumita Mazumdar (PhD Scholar, CSIR-NIScPR)



Mr Shekhar Sharma (PhD Scholar, CSIR-NIScPR)



Mr Pranjal Jain (PhD Scholar, CSIR-NIScPR)



Ms Himani Meena (PhD Scholar, CSIR-NIScPR)



Mr Ajay Sharma (PhD Scholar, CSIR-NIScPR)

S&T INFORMATION RESOURCES AND SERVICES



S&T INFORMATION RESOURCES AND SERVICES

DIGITAL INFORMATION RESOURCE

CSIR-NIScPR's scientific information dissemination and science communication activities are supported by a robust, modern IT infrastructure. With science communication, policy research & studies, and outreach activities relying heavily on modern ICT, services like NIScPR's Online Periodical Repository (NOPR), Online Publishing Software (OJS), website & portals, popular science magazines, books, reports, etc., and a state-of-the-art Data Center have gained paramount importance.

CSIR-Wide Consortium Access to Online Information Resources

<https://nkrc.niscpr.res.in/>

CSIR-wide Consortium Access to Online Information Resources is one of the earliest formed consortia in the country. The project began during the tenth five-year Plan, then called CSIR e-Journals Consortium, and has been providing access to information resources since 2002. The National Knowledge Resource Consortium (NKRC) has been facilitating comprehensive access to world-class R&D journals and databases, thus enabling CSIR scientists and researchers to engage in competitive high science.

CSIR-NIScPR is functioning as the Nodal Laboratory for the Consortium. In 2009, the DST also joined the consortium. The consortium is one of the contributory factors for CSIR's growing research and IPR output. Beginning with enabling electronic access to 1200 journals in 2001, the consortium today provides access to 13,000+ e-journals (including ONOS) of all major publishers, patents, standards, citations, and bibliographic databases.

The consortium witnessed significant expansion in both scale and scope during this period, particularly with the integration of the One Nation One Subscription (ONOS) initiative. Alongside this transition, NKRC continued to manage non-ONOS resources for all participating CSIR, DST, and MoES institutions, thereby ensuring continuity and comprehensive access to scholarly literature, databases, and standards essential for research and innovation.

Working in consortia is one partnership structure currently utilised by development organisations. Bring stakeholders and participants "into the tent" as a vital practice in establishing a consortia as a community of practice. Have an adaptive, flexible management approach that enables the exploitation of windows of opportunity.

The subscription to these e-resources through consortium mode has many benefits like:

- Access to a wide range of e-Resources
- Leverage of the benefits of collective vs. individual buying
- Prevent publishers from differential pricing within CSIR
- Low cost per download
- Low cost per journal

Participating in consortia has opened up several doors of advantages

- a) It enhances the services and their quality for the users.
- b) Lab/Institutes within a limited budget are getting maximum resources for their users.
- c) It gives members the chance to bargain with publishers and get the maximum discount.
- d) It encourages discussion, collective thinking, and develops leadership among the members.
- e) It enables the library users to access maximum information resources.
- f) It helps develop a common approach to library development, etc.

National Knowledge Resource Consortium

Home About Search CSIR DST

Home

Institute Access Details

Print Journals Details

Holding Details

Institute Login

Online Journals List

Contact Details

- Publishers
- Institutes
- NKRC Project Team

E-Resources 2022

Other Resources

Past Resources

Visitors Online

Site Links

NIScPR

CSIR

DST

Govt. of India

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Chief Scientist

Vigyan Suchna Bhawan

CSIR-NIScPR

14, Satsang Vihar Marg

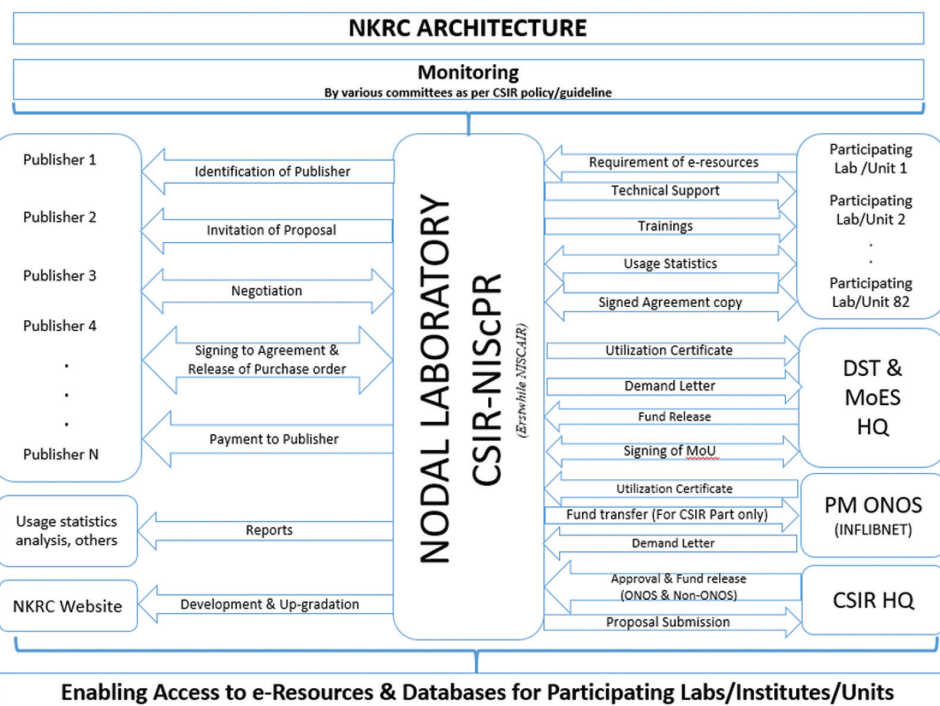
New Delhi - 110067

Ph: 011-26960465

Fax: 011-26519231

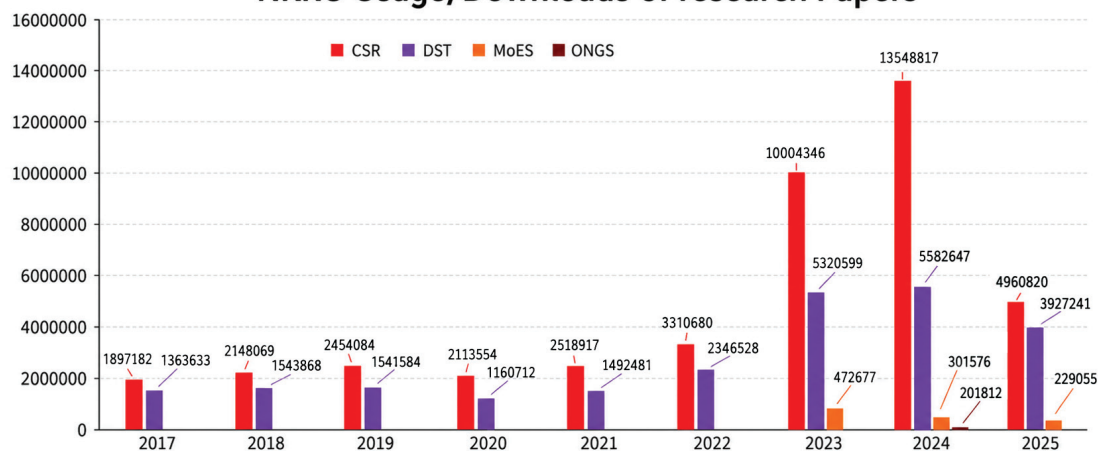
Mail: mukeshpund@niscpr.res.in

nkr@niscpr.res.in



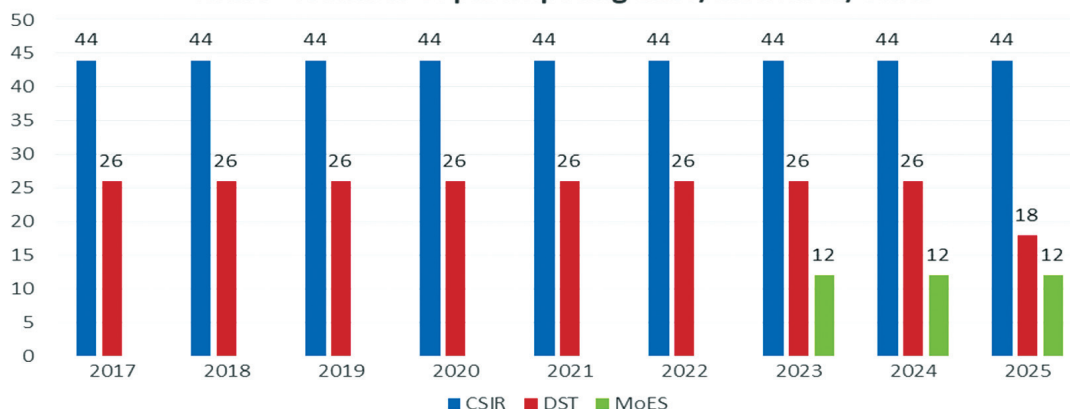
Some Important Statistics

NKRC-Usage/Downloads of research Papers



The graph depicts year-wise number of downloads of research papers by CSIR, DST, and MoES Labs/Institutes

NKRC - Number of participating Labs/Institutes/Units



The graph depicts access to lab-wise e-resources for CSIR, DST, and MoES Labs/Institutes

Online Access to CSIR-NIScPR Knowledge Products

NIScPR Online Periodicals Repository (NOPR) hosts online its research journals, popular science magazines & Natural Products Repository at <http://nopr.niscpr.res.in>. All fifteen research journals have been added in Open Access mode for full-text access. The current issues of all research journals and popular science magazines are published online in NOPR for open access, well before the print version, for the immediate benefit of researchers.

To increase visibility, NIScPR journals have been registered & indexed with the Directory of Open Access

Journals (DOAJ), Registry of Open Access Repositories (ROAR), Directory of Open Access Repositories (DOAR), Google Scholar, National Digital Library of India (NDLI), and other prominent search engines. NIScPR is a content partner of NDLI for its contribution to resources available on NOPR. All readers can access six-month-old issues of these magazines online at (<https://nopr.niscpr.res.in>) for free. Subscribers of the print edition can also get 39 IT Solutions access and the current & all the previous issues of these magazines online. The repository has data spanning from 1954 to the current issues. At present, the repository has 55638 articles. NOPR was accessed



Welcome to NIScPR Online Periodicals Repository

You can now access full text articles from research journals published by CSIR-NIScPR! Full text facility is provided for all nineteen research journals viz. ALIS, AIR, BVAAP, IJBB, IJBT, IJCA, IJCB, IJCT, IJEB, IJEMS, IJFTR, IJMS, IJNPR, IJPAP, IJRSP, IJTK, JIPR, JSIR & JST. NOPR also hosts three Popular Science Magazines viz. Science Reporter (SR), Vigyan Pragati (VP) & Science Ki Duniya (SKD) and a Natural Products Repository (NPARR).

NIScPR Online Periodical Repository

ALIS	AIR	BVAAP	IJBB	IJBT	IJCA	IJCB	IJCT	IJEB	IJEMS	IJFTR	IJMS
IJC	IJNPR	IJPAP	IJRSP	IJTK	JIPR	JSIR	JST	SD	SR	VP	SKD
NPARR	Online Submission of Articles				NIScPR publications- Price list				Contact us	Feedback	

Last 5 Current Issues

3 May 2026 | JST January - March 2026 | IJC April 2026 | JSIR January 2026 | IJTK April 2026

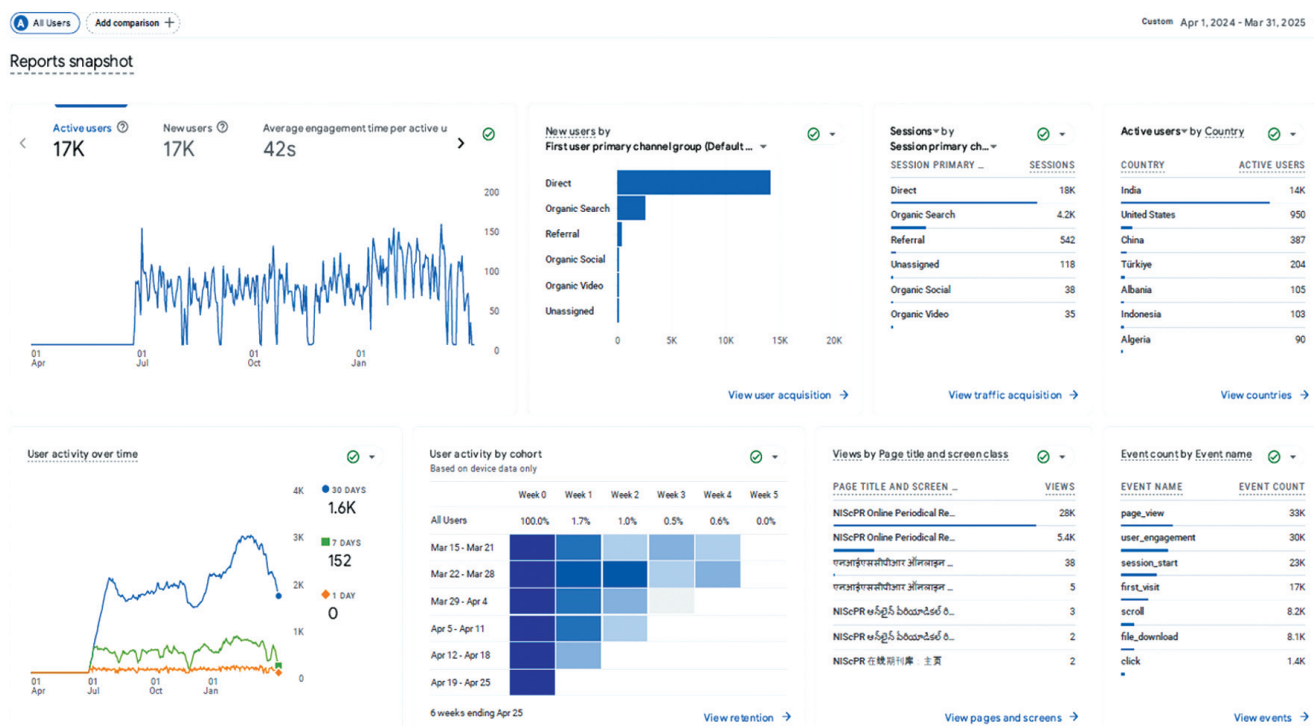
Indian Journal of Chemistry – Section A (IJCA) and Indian Journal of Chemistry – Section B (IJCB) into 'Indian Journal of Chemistry (IJC)'

JSIR Special Issue published Industry 4.0: A Way Forward for Self-reliance and Sustainability—Part I

Printed copies of Science Reporter (English-Monthly) and Vigyan Pragati (Hindi-Monthly) would be available from December 2022 onwards.

Sale/Advertisement details of Research Journals and Magazines 2023.

AI Policy for CSIR-NIScPR Research Journals



Audience overview and site visitors

by 604959 users with 2488977 page views from 197 countries & 289 Indian cities.

A digitisation facility has been created in NIScPR & digitisation work of the remaining journals is in progress. After 100% digitization of all NIScPR journals, NOPR will have more than 1 lakh research articles in the public domain.

NKRC significantly expanded access to scientific knowledge resources during the biennium. In 2024, the consortium facilitated access to over 7,000 e-journals, major bibliographic and citation databases, patents, and standards. This number increased substantially in 2025, with access extending to over 13,000 e-journals, including resources made available under the ONOS framework as well as those managed directly by NKRC. The subscribed resources spanned leading international publishers and platforms, ensuring comprehensive coverage across disciplines in science, engineering, medicine, and technology. This expansion has greatly enhanced the availability of high-quality, peer-reviewed information to researchers across participating institutions.

The enhanced access to knowledge resources has had a direct and measurable impact on research capacity and output. By providing seamless access to high-impact journals, databases, and analytical tools, NKRC has supported researchers in conducting high-quality, globally competitive research. This is reflected in the increase in publication output across participating

institutions. For instance, CSIR publications increased from 5650 in 2024 to 6179 in 2025, while DST & MoES institutions also recorded a rise in research output. Such trends underscore the critical role of NKRC in strengthening the research ecosystem and enabling knowledge-driven innovation.

Resource utilisation remained a key focus area, with NKRC implementing systematic mechanisms for monitoring and analysis. Usage statistics were collected and analysed at both the institutional and resource levels, including metrics such as database searches, journal downloads, and access patterns. These insights informed subscription decisions and ensured alignment with user needs. Continuous feedback from nodal officers and users further contributed to optimising resource allocation and improving service delivery. This data-driven approach has enhanced the efficiency and effectiveness of NKRC operations.

Developments carried out in the NKRC web portal

- The operating system is updated from CentOS 6 to the latest version of Ubuntu 22.04 operating system
- Implementation of HTTPS (continues maintenance of website security)
- Upgrade of MySQL database from v5.1 to v8.0.2
- Upgrade of PHP from v5.3 to v8.1
- Enhanced security with MD5 format for the user database
- Regular website maintenance 24/7

The following e-resources are made available from 2023 to 2025

	Subscription Year 2023	Subscription Year 2024
S. No.	e-Resources/Publisher	e-Resources/Publisher
1	American Chemical Society (ACS)	American Chemical Society (ACS)
2	American Institute of Physics (AIP)	American Institute of Physics (AIP)
3	American Physical Society (APS)	American Physical Society (APS)
4	American Society of Civil Engineers (ASCE)	American Society of Civil Engineers (ASCE)
5	Elsevier- ScienceDirect (for DST & MoES Instts.)	Elsevier- ScienceDirect (for CSIR, DST & MoES Instts.)
6	IEEE	wIEEE
7	Institute of Civil Engineers (ICE)	Emerald Publishing - Institute of Civil Engineers (ICE) & Emerald Journals
8	Institute of Physics (IOP)	Institute of Physics (IOP)
9	Optical Society of America (OSA)	Optica Publishing Group (OPG Formerly OSA)
10	Oxford University Press (OUP)	Oxford University Press (OUP)

	Subscription Year 2023	Subscription Year 2024
S. No.	e-Resources/Publisher	e-Resources/Publisher
11	Royal Society of Chemistry (RSC)	Royal Society of Chemistry (RSC)
12	Springer Nature- NPG Journals	Springer Nature- NPG Journals
13	Springer Nature- Springer Journals	Springer Nature- Springer Journals
14	Taylor & Francis (T&F)	Taylor & Francis (T&F)
15	Wiley (John Wiley & Sons)	Wiley (John Wiley & Sons)
16	ASTM SEDL Standards	ASTM SEDL Standards
17	Clarivate Analytics - Derwent Innovation	Clarivate Analytics - Derwent Innovation
18	Clarivate Analytics- Web of Science	Clarivate Analytics- Web of Science
19	Elsevier- Scopus	Elsevier- Scopus
20	iThenticate	iThenticate
21	Questel-Orbit QPat	Questel-Orbit QPat
22	SciFinderN	SciFinderN
23	Grammarly	Grammarly
24	Sage	Sage
25	MyLoft/RemoteX	MyLoft/RemoteX
26	J-Gate (for MoES only)	AAAS
27	AAAS	PNAS
28	PNAS	ASME
29	ASME	Thieme Database
30	Thieme Journals	Thieme Journals
31	Indian Standards (BSB Edge)	Indian Standards (BSB Edge)
32	CSIR Lab Level resources (more than 100)	CSIR Lab Level resources (more than 100)

The activities of NKRC demonstrate its critical role as a national-level facilitator of access to scientific knowledge and research capacity building. Through strategic governance, large-scale negotiations, expanded access to resources, and sustained capacity-building efforts, the consortium has significantly enhanced the quality, accessibility, and impact of scientific research in India. Its alignment with national initiatives such as ONOS further reinforces its position

as a cornerstone of the country's evolving research and innovation ecosystem.

Regional Training & Awareness Workshops for Users

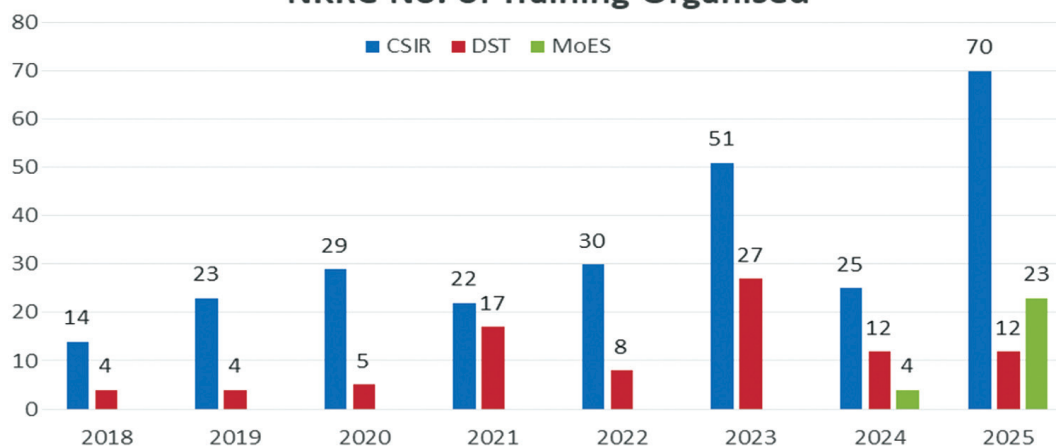
Training programmes were organised at the nodal laboratory (CSIR-NIScPR) and at participating laboratories for the usage of e-resources.

Capacity Building and Training Programmes

S. No.	Type of Programme	Target Participants	Mode	Broad Themes Covered	Frequency/Period
1	Training on e-Resources Usage	CSIR, DST, MoES Scientists & Students	Hybrid	Access and navigation of journals and databases	Conducted throughout 2024–2025
2	Database-specific Training	Researchers, Scholars	Online or Offline	Scopus, Web of Science, SciFinder, Patents	Periodic (Published sessions)

S. No.	Type of Programme	Target Participants	Mode	Broad Themes Covered	Frequency/Period
3	Plagiarism & Research Integrity Tools	Scientists, Faculty	Online	iThenticate, Grammarly, publication ethics	Multiple sessions
4	Advanced Search & Analytics	Research Scholars	Hybrid	Citation analysis, bibliometrics, research trends	Periodic
5	Nodal Officers Training/ Orientation	Institutional Coordinators	Offline or Virtual	Resource management, access control, and reporting	Annual/ Need-based
6	Webinars & Outreach Sessions	Wider Research Community	Online	Awareness and effective utilization of NKRC resources	Regular intervals

NKRC-No. of Training Organised



The graph depicts year-wise number of trainings organised by CSIR, DST, and MoES Labs/Institutes

National Science Digital Library (NSDL)

- ◆ National Science Digital Library (NSDL) aims at providing comprehensive S&T information to students of science, engineering, and technology in the country.
- ◆ Begun as a Tenth Five-Year Plan Network Project of the CSIR, NSDL is the only one of its kind that provides curriculum-based content to address the information needs of undergraduate students of science.
- ◆ The content creation and development for NSDL has gone through rigorous procedures to make quality content available for the students. Authored by eminent teachers and validated by renowned faculty in Indian universities and colleges, NSDL envisages bringing the finest content to the students. The discussion forum has been provided for interactions amongst NSDL users.

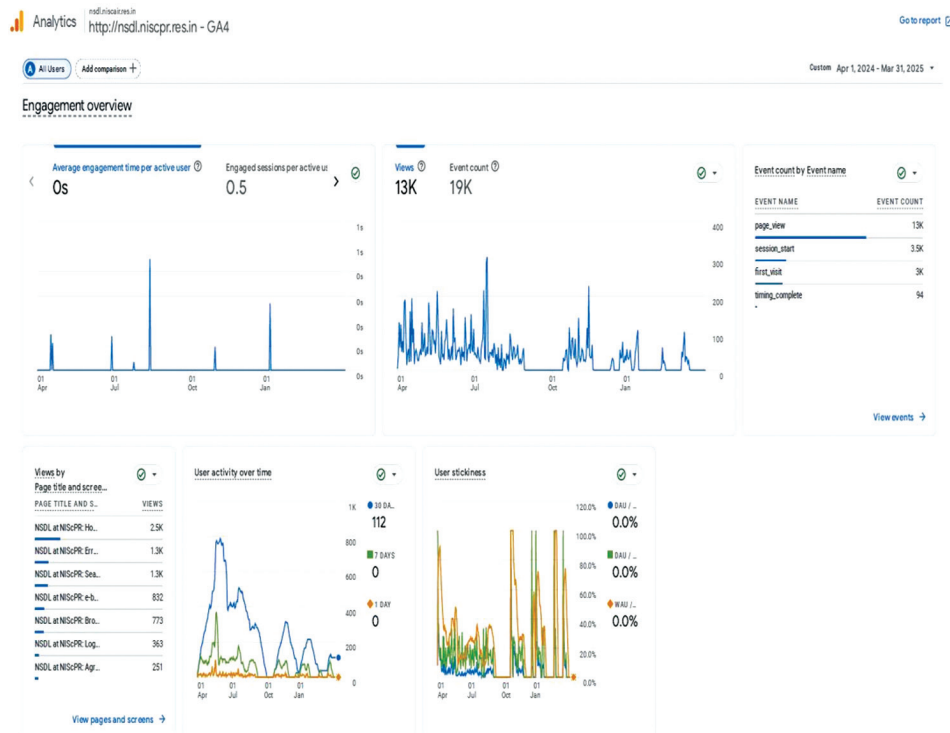
- ◆ The portal contains 24 electronic books (e-books), which are accessible throughout this portal. Like Agriculture, Anthropology, Biochemistry, etc.

E-BOOKS

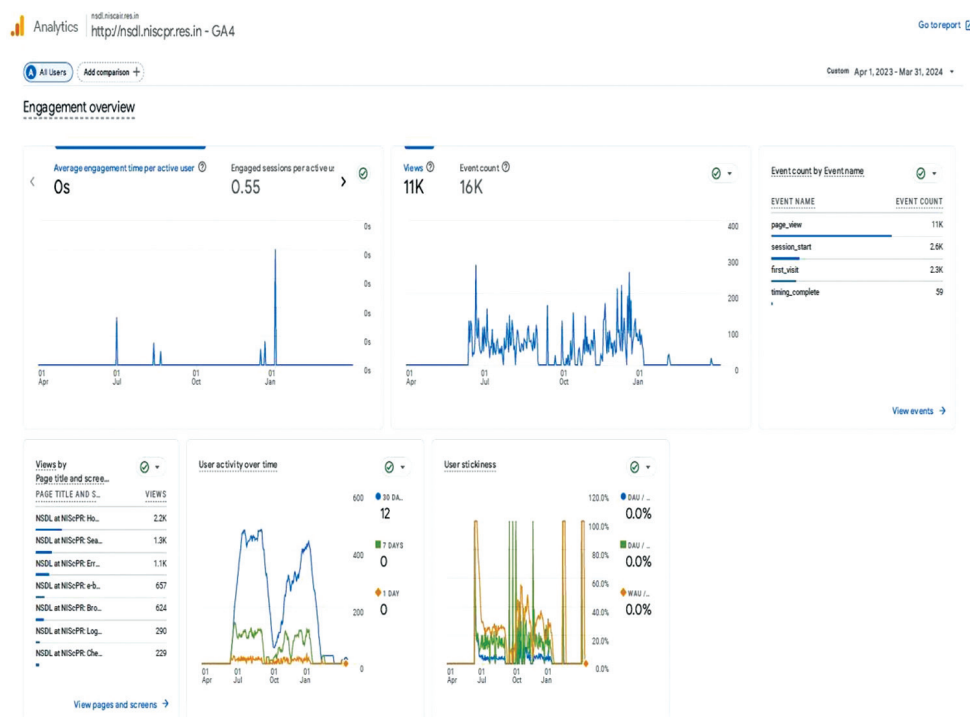
Agriculture	Mathematics
Anthropology	Microbiology
Biochemistry	NIScPR Popular Science
Biology	Books
Chemistry	Pharmacy
Ecology & Environmental Sciences	Physics
Geology	Polymer Science
Horticulture	Space Research
Industrial Chemistry	Statistics
Library Science	Zoology

Usage Statistics of NSDL (Page views, Avg time, sessions)

- 2023-2024



- 2024-2025



S&T INFORMATION RESOURCE

National Science Library and ISSN National Centre, India

The National Science Library (NSL) was set up in 1964 to provide a broad range of S&T documentation and information services. NSL subscribes to several Indian and foreign S&T periodicals. NSL also holds the international memberships of the International Federation of Library Associations and Institutions (IFLA) and the International Standard Serial Number (ISSN). Currently, it has more than 2,90,000 collections including books, monographs, bound volumes of journals, reports, theses/dissertations, handbooks, directories, standards and patents, etc.

The services offered by NSL include NSL membership, Inter Library Loan, National Union Catalogue of Scientific Serials in India (NUCSSI), Online Public Access Catalogue (OPAC), Bibliometric/Scientometric Services, and allotment of ISSN to the Indian serials. Total revenue generated by NSL from its various services during the financial year 2023-24 was ₹ 2,28,781/- and in 2024-25 was ₹ 15,26,306/-.

The e-resources available during the year 2023-25 include:

1. Essential Science Indicators
2. Journal Citation Reports (JCR)/InCites
3. Web of Science–Expanded
4. Derwent Innovation
5. iThenticate
6. SCOPUS
7. Indian Standards
8. ACS Archives
9. Sage Archives
10. Emerald Archives
11. Springer Archives

These apart, over 5000+ foreign journals are available for browsing in NSL through the National Knowledge Resource Consortium (NKRC).

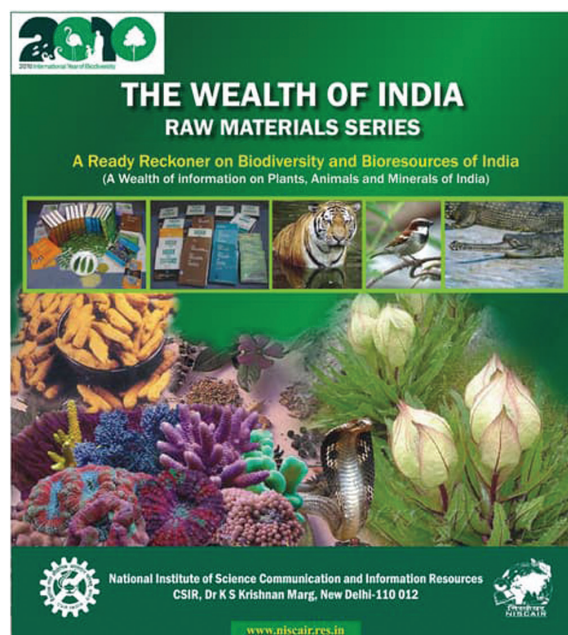
The Wealth of India

The Wealth of India — Raw Materials series is an internationally acclaimed encyclopaedic publication on plants, animals, and minerals of interest to scientists, administrators, foresters, policymakers, naturalists and

even the general public concerned with or actively involved in conservation and utilisation of plants and plant products as natural resources.

The publication contains salient ethnobotanical information, particularly in the context of medicines, food, fodder, fibre, wild edible plants, dyes, tannins and miscellaneous uses. It also contains information relating to the sustainable management of plants used in soil conservation, social forestry, apiculture, sericulture, etc., especially in the context of rural development.

The publication also includes a list of books and journals referred to, an index giving the botanical names and their synonyms, cultivars of crop plants, English, vernacular and trade names, drugs, products, active principles, important chemical compounds and a glossary of relevant medical compounds.



Raw Materials Herbarium and Museum, Delhi (RHMD)

Raw Materials Herbarium & Museum, Delhi (RHMD) at CSIR-NIScPR houses authentic samples of various economically important raw materials of plants, animals, rocks and minerals collected from different parts of India at one place. It was established in 1978 as an adjunct to the Wealth of India, then an eleven-volume encyclopaedia of Indian raw materials, and was assigned the acronym RHMD (Raw Materials

Herbarium & Museum, Delhi) by the International Association for Plant Taxonomy, which appeared in the publication "*Index Herbarium, New York, USA*" (1990). It has approximately 8000 herbarium specimens of economic and medicinal plants of India and 3000 samples of important crude plant drugs, animals and minerals. Due to the vast diversity in its collection, RHMD attracts the attention of all those who visit CSIR-NIScPR.

Distinguished visitors: during 2023-2025, some of the distinguished visitors to RHMD included:

- Prof. Yogesh Singh, Hon'ble Vice Chancellor of the University of Delhi
- Prof. Sat Prakash Bansal, Hon'ble Vice-Chancellor of Central University of Himachal Pradesh
- Prof. Bharat B Dhar, Former Director, CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR), Dhanbad
- Dr VM Tiwari, Director, CSIR-North East Institute of Science & Technology (CSIR-NEIST), Jorhat
- Dr Sudesh Kumar Yadav, Director of CSIR-Institute of Himalayan Bioresource Technology, Palampur
- Dr Anil Kothari, Director General of the MP Council of Science & Technology, Bhopal
- **Educational Visits:** during 2023-2025, educational visits to RHMD were undertaken by nearly 500 UG/PG students and faculty members of various Ayurveda and Pharmacy Colleges. Besides, under the Student-Scientist connect program, JIGYASA, a similar number of school students and teachers visited RHMD and learnt about the vast plant, animal and mineral resources found in India.
- **New Initiative — Updation and Digitisation of RHMD:** herbariums and museums are remarkable and irreplaceable sources of materials and information. Herbaria tell us about the plants and the world they inhabit. They provide the comparative material that is essential for studies in taxonomy, systematics, ecology, anatomy, morphology, conservation biology, biodiversity, ethnobotany, and paleobiology, as well as being used for teaching and by the public. They are a veritable gold mine of information. With changing times and the development of technology, there

is a need for the digitisation of the herbarium and museum specimens so that they are easily accessible and searchable online and are available to a wider section of society.

- To achieve this goal, an inventory of the raw plant drug samples, live plant specimens, animal specimens, mineral samples and herbaria available in the RHMD collection was prepared. An on-top scan type flatbed scanner with software for scanning and digitisation of herbaria was successfully installed, and work on scanning and digitisation of herbarium sheets was initiated. A brainstorming meeting was also held on 6th December 2024 at CSIR-NIScPR, New Delhi, in hybrid mode, to deliberate on the various approaches and techniques for updation, digitisation, and database generation of herbaria and museums. The meeting was attended by experts in the field of plant taxonomy, herbarium and museum facility and mineralogy.



Brainstorming Meeting

S&T SERVICES

The following services are offered by CSIR-NIScPR:

1. Reader Service

The NSL is open to the public for reading and consultation during working hours from 9.00 AM to 5.30 PM (Monday to Friday) except during public holidays. The NSL provides on-the-spot photocopies of articles from its collection at a nominal rate of ₹ 1.00 per page. During 2023-2024, a sum of approximately ₹ 1,174/- and during 2024-2025, a sum of ₹ 818/- was realised from the photocopying service by NSL.

NSL also has registered members, including research scholars, scientists and students. During 2023-2024, a sum of ₹ 52,000/- and during 2024-2025, a sum of ₹ 17,000/- was realised on account of NSL memberships.

2. ISSN National Centre, India

The Indian ISSN National Centre at NSL is one of a network of over 93 national centres worldwide. The primary functions of the ISSN National Centre are:

- i) Assigning ISSN to serials published from India;
- ii) Registering allotted ISSNs in the international database in Paris (ISSN Portal), and
- iii) Promoting the use of ISSN in India and acting as a link between the publishers and the ISSN Network.

Up to 31 March 2024, 25,999 Indian periodicals were assigned ISSNs, while up to 31 March 2025, 26,818 Indian periodicals were assigned ISSNs.

During the period 2023-24, 593 ISSNs were registered by the ISSN National Centre, India and a sum of ₹ 1,13,280/- was realised from the sale of the ISSN Annual Directories and the issuance of ISSN certificates.

During the period 2024-25, 829 ISSNs were registered by the ISSN National Centre, India and a sum of ₹ 71,390/- was realised from the sale of the ISSN Annual Directories and the issuance of ISSN certificates.

3. Scientometrics and Informetrics

The National Science Library offers bibliometric/scientometric analysis of research papers of individual scientists and institutions; Impact Factor calculation of non-SCI journals, and detailed analysis of research papers of academic and research organisations.

The following services were offered:

- During 2023-24, citation analyses of ~1050 papers of 10 individual scientists/Institutions and journals were carried out.
- During 2024-25, the following orders were carried out:
 - Citation analyses of ~ 141 papers of 5 individual scientists/Institutions and journals
 - Impact Factor calculation of One Non-Sci Journal
 - Citation analysis of 8512 research papers of 537 Rashtriya Vigyan Puraskar Nominees (Work done for CSIR-HRDG)
 - Citation analysis of ~7310 research papers of 249 Institutions based on Web of Science and Citation analysis of ~11137 research papers of 249 Institutions based on SCOPUS (Work done for KSHCE, Kerala)
- NSL provides analytical data to CSIR-HQ and CSIR labs pertaining to various Parliament and audit queries on a case-by-case basis.
- During 2023-24, a sum of ₹ 62,327/-, including GST and during 2024-25, a sum of ₹ 14,37,098/- was realised on account of Bibliometric/Scientometric Services offered by NSL.

4. CSIR Research Output

NSL compiled the data tables of analysed CSIR Research Papers published during 2022 and 2023. The reports give descriptive analysis of CSIR publications during the years and also benchmark with the S&T publication output of other leading research institutions in the country. The reports also analyse the research publications across CSIR laboratories with a detailed subject-wise distribution of research publications of the laboratories.

5. NUCSSI

National Union Catalogue of Scientific Serials in India (NUCSSI) is the first indigenous database that serves as an ideal tool to access Journal holding information. NUCSSI is a data repository of a large number of unique journal titles and library holdings belonging to major state and central universities, Scientific and Technical institutions, Research and Development units of industries, higher institutes like IISc, IITs, and professional institutes spread all over the country. Presently, it has 572 libraries covering about 2,67,881 journal holdings.

6. Library Training and Visits

- During the year 2023-2024. The National Science Library provided one month of training to 05 library and information science students of Meera Bai Institute of Technology, Meerabai Polytechnic, Delhi Skill & Entrepreneurship University and IGNOU.
- During the year 2024-2025, the National Science Library provided one month of training to two students (MLIS) of Central University of Himachal Pradesh.
- Nineteen MLibSci Students, along with their faculty members from the Department of Library and Information Science, University of Jammu had visited the National Science Library on 28 August 2023.
- Forty-five students of class 9 with their teachers from the Indian School, New Delhi, visited the National Science Library on 30 Oct 2023.
- Thirty-eight Students of the Bharat National Public School, Delhi, along with their faculty members, visited NSL on 24 April 2024.
- Sixteen library and information science students, along with their faculty members from the Department of Library and Information Science, Gulbarga University, Kalburgi, Karnataka, visited NSL on 9 September 2024.
- Seventy library and information science students, along with their faculty members from the Department of Library and Information Science, Mohan Lal Sukhadia University (MLSU), Udaipur, Rajasthan, visited NSL on 18 December 2024.
- Thirty-two Students of Kendriya Vidhyalaya, Delhi, along with their faculty members, visited NSL on 20 December 2024.
- Thirty Students of Manava Bharati India International School, Delhi, along with their faculty members, visited NSL on 24 April 2025.

7. Authentication of raw plant materials

The RHMD provides authentication service (of herbarium and crude drug samples based on morphological key features) to students, research scholars, scientists and entrepreneurs. As part of the authentication service. Approximately 1080 samples of plant materials were authenticated.

8. Print Production Division

CSIR-NIScPR publishes Research Journals, Popular Science Magazines, Books, Encyclopedias, Reports (Annual Reports, Policy documents, etc.), Newsletters, Bulletins, Posters, Banners, Visiting cards, Pamphlets, Invitation cards, etc. These include in-house publications as well as publications from outside.

CSIR-NIScPR has in-house capability in planning and execution of varied S&T publications, involving costing, designing & formatting, editing/copy editing & proofreading, binding, printing, etc. CSIR-NIScPR undertakes the complete production of jobs from the initial manuscript stage to the final printed copies and timely delivery to the clients. CSIR-NIScPR possesses effective in-house skills and facilities to undertake:

- Editing/copy-editing of manuscript.
- Creative graphic designing through the latest graphic softwares like Photoshop, CorelDRAW, InDesign, etc.
- Scanning, quality enhancement and colour correction of illustrations/photographs through state-of-the-art scanners.
- Page formatting through softwares like MS Office, PageMaker, Photoshop, In-Design, Hindi software Saransh, etc.
- 2-colour and 4-colour printing through a panel of printers.

Revenue generated during 2023-2025

Year	Department/Institution	No of Jobs	Revenue Generated (In Rs)
2023-24	NIScPR's JOBS	51	114395
	OUTSIDE JOBS	5	1154979
2024-25	NIScPR's JOBS	48	600326
	OUTSIDE JOBS	9	766418

PROGRAMMES AND EVENTS



PROGRAMMES AND EVENTS

One Week One Lab Programme (11–16 September 2023)

CSIR-NIScPR celebrated the “One Week One Lab” programme from 11–16 September 2023 as part of CSIR’s initiative involving all 37 laboratories to showcase their activities, achievements, and breakthroughs. During the programme, CSIR-NIScPR organised various events highlighting its contributions to Science Policy Research and Science Communication, engaging scientists, academicians, industry experts, entrepreneurs, students, and other stakeholders.



Science in Diplomacy for Sustainable Growth in India: A Global Governance Perspective (16 September 2023)

Valedictory event of the CSIR-NIScPR’s One Week One Lab’ (OWOL) celebrations during 11-16 September 2023 witnessed a discussion on “Science Diplomacy for Sustainable Development”. Dr Philipp Ackermann,



German Ambassador to India and Bhutan, German Embassy, New Delhi, graced the event as the Chief Guest. Science counsellors from embassies, senior government officials from International divisions of Government organisations, representatives from Niti Aayog, academicians and researchers took part in the discussion.

#SVASTIK Special Session on “Indian Traditional Knowledge” at the 6th Bharatiya Vigyan Sammelan (21-22 December 2023)

This was organised by CSIR-NIScPR, New Delhi, at the 6th Bharatiya Vigyan Sammelan (BVS) in Ahmedabad during 21-22 December 2023. The event witnessed the participation of luminaries like Dr Shekhar C Mande, and others.



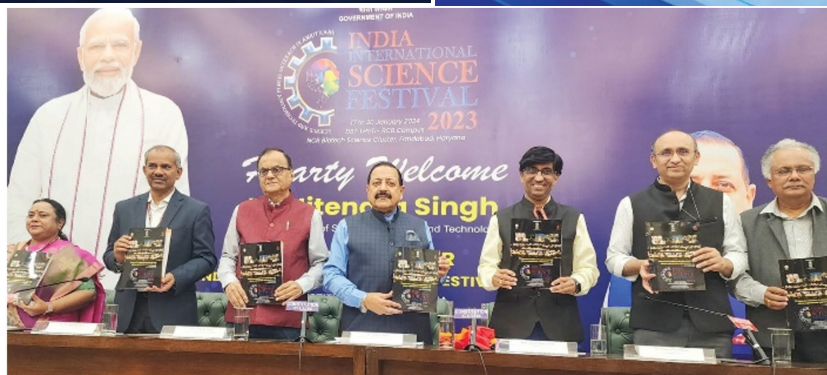
India International Science Festival 2023 (17-20 January 2024)

The mega science event promotes scientific temper and connects science with society. CSIR-NIScPR managed media coverage and publicity for IISF 2023 through collaborations with DD National, DD Urdu, All India Radio, PIB, community radio networks, print and electronic media, ensuring wide dissemination of festival activities across urban and rural audiences. Daily press releases, promotional videos in English and Hindi for all 17 events, and social media coverage of inaugural sessions, event highlights, and dignitary interviews were prepared and shared through IISF

and CSIR-NIScPR platforms to maximise outreach and visibility.

CSIR-NIScPR successfully produced 40 promo videos (in Hindi and English) focused on 17 events of the IISF 2023. These promo videos were disseminated on social media platforms to develop momentum. Besides, the institute expanded IISF 2023 outreach by engaging

over 400 community radio stations across the country, introducing community radio as a communication medium in IISF for the first time, and coordinating publicity through official social media platforms with a reach of over 25 lakh people. IISF coverage was further amplified through special programmes and broadcasts on All India Radio, DD National, and DD Urdu.



You reposted

India International Science Festival
@iisfest

Watch Shri S. Somanath, Secretary DoS & Chairman

@isro interacted with young students participating in the IISF Challenge.

#IISF2023

@PMOIndia @DrJitendraSingh

@IndiaDST @karandi65 @CSIR_NIScPR

@nifindia @SMCC_NIScPR @Vibha

_India @THSTIFaridabad @PIB_India

@AkashvaniAIR



4:53 pm · 18 Jan 24 · 95.5K Views

India International Science Fes... · 19 Jan

A Panel discussion is going on right now at S&T Media and Communicators Conclave #IISF2023. Experienced and reputed panelists are discussing on the theme.

@PMOIndia @DrJitendraSingh @IndiaDST

@karandi65 @CSIR_NIScPR @nifindia

@SMCC_NIScPR @Vibha_India

@THSTIFaridabad @PIB_India



National Science Day 2024 Celebrations of DST and CSIR-NIScPR

CSIR-NIScPR
@CSIR_NIScPR

Glimpses of #NationalScienceDay2024 celebration held today (28 February 2024) at Vigyan Bhawan, New Delhi

@DrJitendraSingh @IndiaDST @karandi65
@CSIR_IND @DrNKalaiselvi @Ranjana_23
@SMCC_NIScPR @PrinSciAdvGoI
@moesgoi @DBTIndia @sharmarashmi123

CSIR-NIScPR
@CSIR_NIScPR

Dr. @Shivkumar.yibha, National Organising Secretary, @Vibha_India, Chief Guest of CSIR-NIScPR's #NationalScienceDay Celebration 2024 at Pusa Campus, New Delhi on March 04, 2024.

@CSIR_IND @DrNKalaiselvi @Ranjana_23
@SMCC_NIScPR @NIScPR_SVASTIK
@PIB_India



CSIR-NIScPR managed media outreach and publicity for the National Science Day 2024 celebrations organised at Vigyan Bhawan, New Delhi, including the production of short videos, interviews, reels, social media creatives, and press releases published through PIB. The Chief Guest was the Hon'ble Union S&T Minister, Dr Jitendra Singh and the event was also attended by eminent dignitaries, including Prof. Ajay Kumar Sood, Prof. Abhay Karandikar, Dr Rajesh Gokhale, Dr VK Saraswat, Dr N Kalaiselvi, and Dr Rashmi Sharma.

Third Foundation Day Celebrations (8-9 February 2024)

CSIR-NIScPR hosted its third foundation day on 8 and 9 February 2024 at its Pusa Campus, New Delhi. The Chief Guest of the Foundation Day Programme was Prof. Yogesh Singh, Hon'ble Vice Chancellor of Delhi University and an esteemed Member of CSIR Society.

CSIR-NIScPR celebrated its Foundation Day with activities including a Student Interaction Meet, Poster Presentation by PhD scholars, and the Jigyasa Student-Scientist Connect Programme. The celebrations featured lectures and interactions by eminent academicians and scientists.



DAY 2 HIGHLIGHTS ON THE OCCASION OF FOUNDATION DAY CELEBRATIONS AT CSIR-NIScPR

Training Programme on Heeng Cultivation for the farmers of the Kargil Region (5-6 March 2024)

A training programme on Heeng Cultivation was organised for the interested farmer group of the Kargil region. The programme was jointly organised by CSIR-NIScPR, New Delhi, CSIR-IHBT Palampur, UBA-NCI, IIT Delhi, UBA-RCI, IIT Jammu, and Government Degree College, Kargil. Nine farmers from the Kargil region attended the programme. These farmers were provided exposures on various aspects of Heeng cultivation, like planting techniques, maintenance, and harvesting methods.

Workshop on Interactive and New Approaches to Communicate Science in Assamese



CSIR-NIScPR organised a virtual workshop on 11 March 2024 on “Interactive and New Approaches to Communicate Science in Assamese,” focusing on popular science writing, videos, podcasts, and social media. The workshop brought together science communicators, teachers, and researchers from Assam to build a network and enhance science communication in the Assamese language.

Workshop on Science & Technology Communication

CSIR-NIScPR, in collaboration with Global Health Strategies (GHS), organised a Science & Technology Communication workshop on 11 June 2024 at its Pusa campus, New Delhi. The workshop brought together scientists, science communicators, and educators to discuss effective ways of engaging with media and using social media to communicate scientific research and technical evidence in simple, accessible language for the public.

Pre-conference Workshop on Indian Traditional Knowledge

A workshop on “Indian Traditional Knowledge” under the #SVASTIK initiative for the students and faculties of Gurugram University, Gurugram, on 08 October 2024, as a prelude to the International conference CDTK-2024. The interactive sessions gave insights to the participants about the SVASTIK initiative, ways to prepare abstract and research papers in various domains of traditional knowledge, and leveraging social media for TK learning.

Workshop on “Interactive and New Approaches to Communicate Science: SVASTIK as a Case Study” at Vigyanika Science Literature Festival, IISF2024

In the Vigyanika Science Literature Festival, a part of the India International Science Festival

(IISF) 2024, a workshop on “Interactive and New Approaches to Communicate Science: SVASTIK as a case study” was conducted on 2 December 2024. The workshop demonstrated innovative strategies for engaging audiences through infographics, videos, podcasts, and social media platforms. The workshop was followed by an interactive session with the audience.

International Conference on “Aligning Science-Technology-Innovation (STI) Indicators for Effective R&D Governance” (14-15 January 2025)

CSIR-NIScPR organised an International Conference on 14–15 January 2025 to commemorate its 4th Foundation Day, bringing together distinguished national and international experts in Science, Technology and Innovation (STI) policy. The conference focused on “Re-imagining Science, Technology and Innovation Indicators” for effective R&D governance and development towards Viksit Bharat 2047, with discussions on inclusion, sustainability, performance evaluation, and innovation metrics. Eminent speakers, including Prof. Ashutosh Sharma and Prof. Sachin Chaturvedi, along with experts from France, the Netherlands, Australia, South Africa, Russia, South Korea, and Armenia, participated in the deliberations.



RAJBHASHA IMPLEMENTING OFFICIAL LANGUAGE POLICY



RAJBHASHA IMPLEMENTING OFFICIAL LANGUAGE POLICY

With the establishment of CSIR-NIScPR on 14 January 2021, the process for implementation of the official language was initiated along with the commencement of other administrative works in the newly created institute. The Institute is continuously following and implementing the official language acts and rules in day-to-day administrative work.

The Official Language Unit initiated afresh efforts to inform and encourage the implementation of the official language. A Hindi knowledge roster of all the personnel (scientific, technical and administrative) of the institute was prepared. On the basis of the updated roster, two officers were identified and nominated for Hindi Training Classes. The Institute is a member of TOLIC (West Delhi) and attended all four meetings held during the year 2023-25.

CSIR-NIScPR successfully celebrated “Hindi Month” in September 2023 & 2024, respectively. During the Hindi Month celebration, several Hindi competitions/open talks, and activities were organised for the employees of CSIR-NIScPR. Some of the other activities/initiatives undertaken by the Official Language Unit during the above-mentioned period are as follows:

- A series of monthly lectures in Hindi scheduled for 2024 included topics on LTC “Niyamon ki Jankari” on March 11, “Cyber Security in Banking” on November 8, and “Mastishak Gatividhiyon ka shabdon mein Parivartan” on December 4.
- A quarterly lecture in Hindi on “Niymit Karmikon ke liye Nai Pension Yojana” on 20 January 2025.
- Quarterly lectures/workshops/hands-on training on various subjects related to progressive use of Hindi were organised at regular intervals during the year 2023-25.
- Updation of the Hindi website was also done regularly.
- Bilingualisation was done for banners/posters/programmes/special day’s celebration and other events organised by CSIR-NIScPR.

- Bilingualisation of the sessions and the report during the international conference on “Communication and Dissemination of Traditional Knowledge” organised on 14 & 15 Feb 2023.
- Bilingualisation and updation of the Institute’s telephone/email directory.
- Translations of various English articles and write-ups were done for special issues of popular science magazines.
- Reports of meetings/programmes organised with farmers under the Unnat Bharat Abhiyan programme and other MLP/OLP were translated into Hindi, and posters were prepared in Hindi.
- Advertisements for the post of Scientist, as well as Technical & Administrative posts, and official announcements translated into Hindi and made available to the Administration Section for uploading on the website.
- Translation of CSIR scientific advertisements published in every issue of *Vigyan Pragati* Magazine. Besides, translated various write-ups of Jigyasa events.
- A training programme on a newly introduced parliamentary questionnaire related to progressive use of Hindi was organised via video conference on 9 July 2024.
- The Institute, in collaboration with CSIR-AMPRI, Bhopal, organised a National Hindi Vigyan Sammelan during 30-31 July 2024. A press release was published on different channels.
- Published four issues of Rajbhasha magazine, namely *Nav-Sanchetna* (Rajbhasha half-yearly magazine).
- Time-bound publication of 24 issues of *CSIR Samachar*, a monthly Hindi newsletter, was also accomplished in a timely manner during this period.

HONOURS AND RECOGNITIONS



HONOURS AND RECOGNITIONS

Dr Paramananda Barman

- Contributed as a reviewer of the NCERT Science textbook for Grades 7 and 8.
- Received the best poster presentation award for the work titled “Exploring Multilingual Communication: Promoting Traditional Knowledge Dissemination in India”, under the theme “Role of Indian Languages in the Promotion of IKS” at the National Youth Conference on Indian Knowledge Systems 2023, organised at the Indian Institute of Technology, Roorkee in association with the IKS division at AICTE, from August 25 to 27, 2023.

Dr Meher Wan

Member of the National Textbook Development Team of NCERT for the class 6-8 Science subject.

Dr Manish Mohan Gore

Received “Jagapati Chaturvedi Bal Vigyan Lekhan Award” (2022) from the Uttar Pradesh Hindi Sansthan, UP Government. This prestigious award is felicitated for the outstanding contributions to a person in the field of science communication aimed at children.

Dr Charu Lata

- Selected as an Associate Fellow of the Indian National Science Academy (INSA), New Delhi, India.
- Member of the Society for Ethnopharmacology, Kolkata, India.
- Featured in the CSIR Women Achievers in STEM compendium released by CSIR in the year 2023.
- Listed in the top 2% of researchers worldwide by Stanford University, USA, for the years 2023 & 2024.

- Recipient of CSIR-Grant of Special Honorarium as a performance-linked incentive.

Dr Vipin Kumar

Honour & Participation in the Executive Environmental Negotiations (COP30 Capacity-Building Programme) Diplomacy by Networking initiative of the German Federal Foreign Office, Berlin, Germany (28 October – 1 November 2024).

Dr Sandhiya Lakshmanan

Selected as a Member of the prestigious Indian National Young Academy of Science (INYNAS) (2024).

Membership in Committees

Dr Charu Lata

- Jury Member of the Committee to evaluate the Science Fiction entries during the AcSIR Science Festival, Singularity hosted at CSIR-IGIB, Mathura Road, Campus on 20 September 2024.
- Special Member of the Board of Studies of the Physics Department, DDGD Vaishnav College, Chennai.
- Member of the Evaluation Committee of the Model G20 event organised by IIT Hyderabad in association with the Indian National Young Academy of Science (INYNAS).
- Member of the Evaluation Committee of the #Minutes Ideathon (Level-1) organised by Society for Plant Biochemistry and Biotechnology, and Dept of Biochemistry, IARI, New Delhi.

Dr Monika Jaggi

- Jury Member, Pt. Deen Dayal Upadhyaya Rolling Shield Inter-College Debate Competition, Deen

Dayal Upadhyaya College, University of Delhi on 18 March 2024.

- Member, International Science Council's Global Roster of Experts on 30 October 2024.
- Jury Member, Grand Finale of the Biosphere Reserve Champions National Competition organised by United Schools Organization of India on 12 November 2024.
- Member, Curricular Area Group: Science, National Council of Educational Research and Training (NCERT) to develop subject-wise syllabi and corresponding teaching-learning material, including textbooks, activity books and workbooks in science for classes 6-12.

Dr Shiv Narayan Nishad

- External Expert member of the Board of Studies, Department of Mathematics, MS Ramaiah University of Applied Sciences, Bengaluru.
- External Expert Member in "Technology Readiness level Assessment of 'Technological Readiness Level and its Application in Food Processing and Agriculture Technologies', IIT (ISM Dhanbad).
- Advisory committee member of the International Conference on 'Interdisciplinary Perspectives in Mathematics, Science & Linguistics' 5-7 December 2024, organized by the School of Advanced Sciences and Languages, VIT Bhopal University.

Dr Suman Ray

- Jury Member, 7th Inter-School Science Fest, 'Innovations 2023' organised at Cambridge School, Srinivaspuri, New Delhi.

Dr Sandhiya Lakshmanan

- Member of Board of Studies, Department of Physics, Bharathiar University.

CB Singh

- Member of the Management Council.
- Chairman of the Allotment Committee for CSIR-NIScPR Quota at Maharani Bagh Scientist Apartments and CRRI Quarters.
- Chairman of the Book Publishing Committee

- Chairman of the Ethic and Scientific Vigilance Committee.
- Chairman of the committee for appointment on compassionate grounds in NIScPR.
- Member of the Committee to decide area, essential and desirable qualifications for recruitment of 12 posts of Gr. IV Scientist.
- Chairman of the T&PC for purchase of Digital Production Printer for CSIR-NIScPR.
- Administrator for GeM Portal for CSIR-NIScPR.

Dr Charu Lata

- Examiner of the Doctoral Thesis entitled "Evaluating the impact of agrobacterium-derived factors on plant genome integrity and defense" of a student from Central University of Kerala, Kasargod in 2024.
- Examiner of the Doctoral thesis entitled "Cloning And Characterisation Of cDNA Encoding Legume Seed Defensin And Its Activity Against Bruchids" of Department of Agricultural Biotechnology, Assam Agricultural University, Jorhat in 2024.
- Examiner of the Doctoral thesis entitled "Phylogeography and population genetic structure of Indian wild bananas (*Ensetesuperbum* and *Ensete glaucum*)" of Faculty of Biological Sciences, CSIR-National Botanical Research Institute, Lucknow in 2023.
- Viva-Voce Examiner of the Doctoral thesis entitled "Phylogeography and population genetic structure of Indian wild bananas (*Ensetesuperbum* and *Ensete glaucum*)" of Faculty of Biological Sciences, CSIR-National Botanical Research Institute, Lucknow in 2023.
- Examiner of the Master's thesis entitled "Isolation, structural characterization and hypoglycemic effects of functional polysaccharides from Shiitake (*Lentinula edodes*)" of Department of Biochemistry, ICAR-Indian Agricultural Research Institute, New Delhi in 2024.

Dissertations Guided/Internships

Dr Arvind Meena

- Two Students: MSc Dissertation

Dr Monika Jaggi

- Mentored for six-month training (January-June 2024) to one BTech Student (Banasthali Vidyapith, Rajasthan).
- Mentored for six-month training (January-June 2025) to one BTech Student (Banasthali Vidyapith, Rajasthan).

Dr Subha Rastogi

- One Student: PhD Co-supervisor, PhD Awarded in 2024.

Dr Sandhiya Lakshmanan

- Guided three BTech and one BPharm students from Banasthali Vidyapith for their internship and dissertation.

Dr Paramananda Barman

- One Student: MSc Dissertation (guided with Dr Jahnavi Phalkey, Science Gallery Bengaluru)

Dr Manish Mohan Gore

- Two Students: PhD Awarded

Dr Meher Wan

- One Student: PhD Awarded
- One MSc Student: Project

Dr Shiv Narayan Nishad

- One Student: Internship MSc
- Seven Students: Internship Training BTech

CSIR-NIScPR MANPOWER AS ON 01 MARCH 2025



CHAPTER 08

CSIR-NIScPR MANPOWER AS ON 01 MARCH 2025

Director

1. Dr Ranjana Aggarwal

Chief Scientist

2. Dr Naresh Kumar
3. Dr Vipin Kumar
4. Sh. Mukesh A Pund
5. Dr (Mrs) Charu Verma
6. Sh. CB Singh
7. Sh. SB Burde
8. Dr Yogesh Suman

Senior Principal Scientist

9. Dr N Majumdar
10. Ms Sandhya M Wakdikar
11. Dr Tarakanta Jana
12. Dr (Mrs) Subha Rastogi
13. Dr (Mrs) Kanika Malik

Principal Scientist

14. Dr (Mrs) Madhulika Bhati
15. Sh. Manoj Kumar
16. Dr Suman Ray
17. Dr (Mrs) Kasturi Mandal
18. Sh. Avinash Prasad Kshitij
19. Dr Monika Jaggi
20. Dr (Smt) Charu Lata
21. Ms Pramila Majumdar
22. Dr Vinayak
23. Dr (Ms) Puspanjali Tripathy

Senior Scientist

24. Dr NK Prasanna Kumari
25. Dr SD Bhuvanesh
26. Dr Shivnarayan Nishad

27. Ms Sonali Nagar
28. Dr Lakshmanan Sandhiya
29. Dr Arvind Meena
30. Dr Manish Mohan Gore
31. Ms Meetali Bharti
32. Dr Meher Wan
33. Dr Narendra Kumar Sahoo
34. Dr Paramananda Barman
35. Dr Dinesh Tolu Velip

Scientist

36. Dr Akshansh Gupta

Principal Technical Officer

37. Sh. Kashmiri Lal
38. Sh. AK Brahmi
39. Sh. Narendra Pal
40. Sh. Suresh Prasad
41. Ms Manju D Choudhary

Senior Technical Officer(3)

42. Sh. Yatish Panwar

Senior Technical Officer(2)

43. Sh. MS Ansari
44. Dr Anil Kumar
45. Sh. Mandeep Singh

Senior Technical Officer(1)

46. Sh. Gurparsad Singh Bagga

Technical Officer

47. Sh. Arun Uniyal
48. Ms Swarnalata Upadhyay
49. Sh. Pawan Kumar
50. Sh. Abhinav Raj

- 51. Ms Monika Sharma
- 52. Sh. Anil Kumar
- 53. Sh. Md. Shakeel Ahmed

Technical Assistant

- 54. Ms Shubhada Kapil
- 55. Sh. Chand Mohammad
- 56. Ms Kirti Bansal
- 57. Sh. Hashim Ali
- 58. Sh. Abhay Kumar Mishra
- 59. Sh. Chandran Kumar

Technician(2)

- 60. Sh. Khem Chand

Technician(1)

- 61. Sh. Manish Kumar
- 62. Ms Neelam Verma
- 63. Sh. Naresh
- 64. Sh. Manender Singh
- 65. Sh. Anuj Singh

Lab Assistant

- 66. Sh. Om Prakash Aswani
- 67. Sh. Murli Dhar

Lab Attendant(2)

- 68. Sh. Arjun Singh Rawat

Lab Attendant(1)

- 69. Ms Dimple
- 70. Sh. Govind Singh Bisht

Controller of Administration

- 71. Sh. RKS Roushan

Administrative Officer

- 72. Sh. Naresh Kumar

Section Officers(G)

- 73. Ms Vandana Srivastava
- 74. Ms Bhavana Thakur
- 75. Sh. Rajiv Kumar Chopra
- 76. Sh. Anil Kumar
- 77. Sh. Pretesh Kumar

Assistant Section Officers(G)

- 78. Sh. Pranjal Dhar Divedi
- 79. Sh. Rajiv Kumar
- 80. Ms Rajo Devi
- 81. Sh. Shiv Balak

SSA(G)

- 82. Sh. Chand Ram
- 83. Sh. Dinesh Kumar Sharma

JSA(G)

- 84. Sh. Rajnath

Controller of Finance & Accounts

- 85. Sh. Rama Shankar Sharma

Finance & Account Officer

- 86. Ms Gurmeet Kaur

Section Officer(F&A)

- 87. Sh. Alok Kumar

Assistant Section Officers(F&A)

- 88. Sh. Narender Singh

Store & Purchase Officer

- 89. Sh. Banwari Lal Meena

Section Officer(S&P)

- 90. Sh. Mohd Rijwan

Principal Private Secretaries

91. Sh. Ved Prakash

Private Secretaries

92. Sh. Kiran Kumar

93. Ms Sunita Arora

Senior Stenographers

94. Ms Inderjeet Kaur

Hindi Officer

95. Ms Meenakshi Gaur

Senior Translator

96. Sh. Anirudh Tiwari

Driver

97. Sh. Surinder Prasad

MTS

98. Sh. Krishan Kumar

99. Sh. Ram Harak

100. Sh. Raju

101. Sh. Ramanand Yadav

102. Ms Sushila Bisht

103. Sh Mohit

104. Ms Asha Devi

105. Sh. Ajay Kumar

Safaiwala

106. Sh. Ashok Kumar

Washboy

107. Sh. Sonu Chakraborty

108. Sh. Nathu Ram

109. Sh. M Subramani



राष्ट्रीय विज्ञान संचार एवं नीति अनुसंधान संस्थान
NIScPR
NATIONAL INSTITUTE OF SCIENCE COMMUNICATION AND POLICY RESEARCH

CSIR-National Institute of Science Communication and Policy Research (NIScPR)

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