



Samvardhan



Quarterly Newsletter of CSIR- AMPRI, Bhopal

April to June 2026, Volume 2, Issue 1

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From the Director's Desk



I feel delighted to present Volume 2, Issue 1 (April to June 2026) of the quarterly newsletter 'Samvardhan' of CSIR-AMPRI, Bhopal. During this quarter, CSIR-AMPRI transferred the technology of "Makeshift Buildings for hospitals, housing, and other purposes" developed jointly with CSIR-CBRI on 30th April 2026. National Technology Day 2026 and the 46th CSIR-AMPRI Foundation Day were celebrated from 12 to 14 May 2026. The programme was graced by Dr. (Mrs.) N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, DSIR, GOI, as the chief guest on 12th May 2026. The technology of the SODAR (Sound Detection and Ranging) system was transferred, and three MoUs aimed at promoting collaborative research were exchanged on this occasion in the gracious presence of Dr. (Mrs.) N. Kalaiselvi. The "Centre of Excellence (CoE) - Transparent and Biocompatible Radiation Shielding Polymer Composites" was inaugurated on the occasion of World

Environment Day celebrations on 11th June 2026 in the presence of chief guest Dr Srinivasa Reddy, Director, IICT, Hyderabad. The Management Council meeting and Research Council meeting were held on 11th and 16th April 2026, respectively. Scientific innovations were showcased in the 6th Rising Madhya Pradesh Exhibition, held at the MSME Exhibition Centre, Industrial Area, Bhopal, from 22 to 24 May 2026, and the CSIR-AMPRI team received 1st prize for attractive stall presentation and active participation. Dr N. Kalaiselvi inaugurated the Centre for Sustainable Sisal Systems (C3S), established in collaboration with CSIR-AMPRI, Bhopal, at the Avinashilingam Institute for Home Science and Higher Education Campus on 3 June 2026. CSIR-AMPRI's goal is to contribute to Viksit Bharat @ 2047 by developing indigenous and sustainable technologies.

With best wishes,

Dr. Thallada Bhaskar



R&D Highlights

CSIR-AMPRI, Bhopal First to Demonstrate Technology on Fly Ash based (Cement-Free) advanced Geopolymeric Roller Compacted Concrete Road

India's first fly ash-based (cement-free) geopolymeric roller compacted concrete road stretch at CSIR-AMPRI, Bhopal launched by Dr. (Mrs.) N. Kalaiselvi, Hon'ble DG CSIR & Secretary DSIR, on 2nd February 2026 is now completed. The road is inaugurated and opened to traffic by Prof. Vinod Kumar Singh, Institute Chair Professor, IIT Kanpur and Chairman, Research Council, CSIR-AMPRI, on 16th April 2026. It is an eco-friendly geopolymeric concrete with around 83% less CO₂ emissions, no water

curing and around 80% low embodied energy concrete. It is low slump geopolymer concrete with 21 days compressive strength of 35-40 MPa & Flexural strength of 4-4.5 MPa. The demonstration was carried out under the mentorship of Prof. (Dr.) Thallada Bhaskar, Director of CSIR-AMPRI, by Principal Investigator Dr. (Er.) Manish Mudgal, Scientist G and Head of SCMD-CARS&GM, along with his team as part of the CSIR Mission Mode project on Waste to Wealth. This pioneering technology highlights an eco-friendly and rapid road construction approach, offering a sustainable and durable alternative to conventional cement-based rigid pavement systems.



Geopolymeric Roller compacted concrete road stretch at CSIR-AMPRI, Bhopal campus



Technology Transfer

Makeshift Buildings for hospitals, housing, and other purposes

CSIR-AMPRI, Bhopal transferred technology of "Makeshift Buildings for hospitals, housing, and other purposes" developed jointly with CSIR-CBRI, Roorkee to M/s M R Traders Bhopal on 30th April 2026. The agreement was exchanged between Dr. Thallada Bhaskar, Director, CSIR-AMPRI Bhopal and Mr. Rehan Khan, Proprietor, M/s M R Traders, Bhopal in the august presence of

team from CSIR-AMPRI. Mr. Shiv Singh Patel, Principal Investigator described that the technology has a promising usage in the societal sector for erecting makeshift structures rapidly. Shri Hemant Kumar Shukla Head RPBD, Dr. (Eng.) Manish Mudgal Head SCMD, Dr. J P Chaurasia Head PPMG, Dr. Sandeep Singhai Head BD, Sh. Somnath Mazumder CoA, Sh. Sanjay Vinodiya FAO and Dr. Shabi TS Scientist E were also present during the ceremony.



Glimpses of Technology Transfer

Transfer of Indigenous SODAR System Technology to Industry

CSIR- AMPRI, Bhopal celebrated National Technology Day-2026 and 46th CSIR-AMPRI Foundation Day on 12th May 2026 (May 12-14, 2026). On this auspicious occasion, the technology of

SODAR (Sound Detection and Ranging) system was transferred by CSIR-AMPRI, Bhopal to M/s Meteoxperts Solutions Pvt. Ltd., Noida, in the gracious presence of the Honourable Dr. N. Kalaiselvi, DG, CSIR & Secretary, DSIR, GOI. The Director of M/s Meteoxperts Solutions,



Noida, Mr. Siddharth Gupta was also present on the occasion.

Dr. Thallada Bhaskar, Director CSIR–AMPRI, Bhopal delivered welcome address and highlighted the role of SODAR in climate and environmental studies with emphasis on scientific and societal challenges related to weather, climate variability, forecasting and disaster risk reduction.

Addressing the gathering, Dr. Kalaiselvi stated that the transfer of indigenous SODAR technology developed by CSIR-AMPRI's initiative reflects the commitment of the CSIR towards strengthening indigenous atmospheric monitoring

technologies under the vision of Atmanirbhar Bharat and accelerating industry-oriented innovations for environmental monitoring and air quality management.

Dr. Kalaiselvi congratulated the Principal Investigator of the SODAR activity, Dr. Kirti Soni, Scientist F, CSIR-AMPRI, Bhopal for developing an indigenous SODAR system and for successfully translating research outcomes into technologies of societal and industrial relevance.

Dr. Mohd. Akram Khan, Scientist G, proposed a vote of thanks.



Transfer of Indigenous SODAR System Technology



New Projects

1. Development of nanoparticle cartridges for extraction of metals (Cu/Ni/Co and Li) from seas water, FTT050602, Project Cost: Rs. 105,80,000.

Principal Investigator: Dr. Archana Singh, Scientist F, Innovative Materials and Processes Division (IMPD)

2. Multiplexed Electrochemical Aptasensors for early Detection of breast Cancer Biomarkers: Towards Miniaturized Proof of Concept Device, FTT010605, Project cost: Rs 173,00,000

Principal Investigator: Dr. Raju Khan, Scientist F, Energy and Environmental Solutions Division (EESD)

3. Development of open-cell Aluminum Foams and Foam Core Sandwich panels via Indirect Additive Manufacturing (modified investment casting for strategic Sector Application), FBR080401, Project Cost: Rs. 74,00,000

Principal Investigator: Mr. Sriram Sathaiah, Scientist E, Light Weight Materials Division (LWMD)

Patents

Development of tooling and method for sheet metal joining using bitter coil with field shaper and thereof

Inventors: Meraj Ahmed, Khushwant Singh Gavel, Hari Narayan Bhargaw,

Sanjay Kumar Panthi, Ayisha Ali, Prabhat Kumar Baghel, Amit Bhargav, Dipen Kumar Rajak

Application number: 202611049020, Filed in India on 17th April 2026.



Publications

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2. K.S.Gavel M. Ahmed, H.N. Bhargaw, A. Ali, A.Bhargav, Improved design of field shaper for enhancing performance and durability in electromagnetic forming and joining process, **Proceedings of the Institution of Mechanical Engineers Part L, Journal of Materials Design and Applications**, April 2026. IF:2.2. 10.1177/14644207261434152.
3. S.K. Srivastava, G. K. Gupta, A.Changdar, J. Elambasseril, T. C. Joshi, K.Shah, M.Brandt and Ma Qian, Advancements and perspectives on hollow sphere filled syntactic foams: A promising solution for structural applications, **Proceedings of the Institution of Mechanical Engineers**
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5. A.Pandey, A.Prakash, V.Cruz de Faria, Q. Chao, Y. Qiu, D. Fabijanic, P. D. Hodgson, N. Birbilis, I. Samajdar, S. Thomas, On the influence of solution heat treatment on the grain boundary reactivity of 316L stainless steel manufactured by laser powder bed fusion, **Corrosion Science**, 268, 113939, 2026. IF 8.5. <https://doi.org/10.1016/j.corsci.2026.113939>



6. N. Kumar, A.S. Nair, A. Tiwari, K. Soni, V. K. Soni, A. Kumar, A. Jha & D.Gupta, Intercomparison and Validation of SODAR and ERA5 Measured Atmospheric Boundary Layer Height Over Delhi, **Journal of the Indian Society of Remote Sensing**, 54, 3101,2026 .IF:2.1.
<https://doi.org/10.1007/s12524-025-02376-9>
7. N. Kumar, K. Soni, K. S. Parmar, P. Thorat, D. Saha, A.K. Jha, A. Kumar & V.K. Soni , Prediction of Aerosol Optical Depth Using a Support Vector Machine Model in the Coal Mining Regions of Assam, **Journal of the Indian Society of Remote Sensing**, 54, 3299,2026. IF:2.1.
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<https://doi.org/10.1002/asia.202500984>
9. D. Kumar, S.Agnihotri, T. Bhaskar, Organosolv treatment and reductive catalytic fractionation of wheat straw: Structural and compositional insights, **Biomass and Bioenergy**, Available online 30 May 2026. IF: 7.0.
<https://doi.org/10.1016/j.biombioe.2026.109609>
- 10.A. Singhwane, M.Mili, C.Nayak, S. Verma, Optimizing potato starch-based bio-binder for the production of graphene oxide and cow dung reinforced bamboo composites-A sustainable, eco-friendly material, **Environmental Process and Sustainable Energy**, First published: 31 May 2026. IF: 2.6.
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- 11.M.K.Yadav, K.Singh, S.S. Kundale, S. Kumar, T.D.Dongale, P. Kumar, N. Panwar, Bias-Voltage Induced Transformation From Capacitive-Coupled to Purely Resistive Switching Behavior in Ag/PVA-Graphene Oxide/FTO Devices, **physica status solidi (a)**, 223(11), e70401, 2026. IF:2.0.
<https://doi.org/10.1002/pssa.70401>



12. M. Roy, S. Mishra, S. Pandey & T. Sardar, Engineered Fruit Peel Biosorbents for Circular and Sustainable Water Treatment, **Separation and Purification Review**, 1–15, June 2026. IF:7.3 <https://doi.org/10.1080/15422119.2026.2687113>.
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17. Yi-Hung Huang, J. K. Tiwari, A. Alfantazi, R. Kumar, De-Shin Liu, Yong-Song Chen, Pai-Chen Lin, Fang-Chieh Lien, B. N. Yadav, Synergistic effects of in-situ heat treatment and graphene reinforcement on the thermo-mechanical response of AlSi10Mg/graphene composites:



Johnson–Cook modeling and artificial neural network prediction, **Journal of Alloys and Compounds**,

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<https://doi.org/10.1016/j.jallcom.2026.188826>

Honors/ Awards

1. Dr. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal was Chief Guest at Outreach Programme and Launch of Brochure, National Symposium & Expo, Sustainable Mining and

Ecological Restoration organized by Vibha Chapter-Vigyan Bharti, Madhya Bharat Prant, Department of Mining Engineering, VNS Group of Institutions, 2nd April 2026.



2. Dr. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal inaugurated exhibition showcasing special exhibits related to minerals, rocks and archaeological sites organised by Geological Survey of India

and Archaeological Survey of India at Regional Science Centre on occasion of International Museum Day on 18th May 2026



Dr. Thallada Bhaskar inaugurating exhibition

3. Dr. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal, graced the inspiring session “Face to Face with S&T Leaders” as Chief Guest at CSIR-NIIST, Thiruvananthapuram. He delivered a talk

on “Sustainable Value Addition Approaches for Organic/Inorganic Residues” and interacted with staff and students on 26th May 2026.



Dr. Thallada Bhaskar at CSIR-NIIST, Thiruvananthapuram

4. Dr. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal was panelist in International MSME Day 2026 celebrated in Bhopal on June 27, 2026. Hosted by the Department of MSME, Government of Madhya Pradesh,

alongside FICCI, the **"Udyami Madhya Pradesh"** summit served as a major regional platform to connect entrepreneurs, startups, and financial institutions.



Dr. Thallada Bhaskar in International MSME Day 2026

Management Council Meeting

The Management Council (MC) Meeting was held at CSIR-AMPRI, Bhopal on 11th April 2026. Dr. S. Venkata Mohan, Director, CSIR-NEERI, Nagpur visited CSIR-AMPRI, Bhopal for MC meeting.

Apart from discussion on administrative matters, he had also seen processes and products developed at CSIR-AMPRI to strengthen the collaboration opportunities and provided suggestions.



Dr. S. Venkata Mohan with Dr. Thallada Bhaskar at CSIR-AMPRI, Bhopal



Research Council Meeting

The 52nd Research Council (RC) meeting held at CSIR-AMPRI, Bhopal on 16th April 2026 under Chairmanship of Prof V K Singh, Member, CSIR Society; Chairman RC; Mentor AMPRI; Institute Chair Prof, IIT Kanpur. Dr Thallada Bhaskar, Director, CSIR-AMPRI presented an overview of R&D activities. Presentations were given by Head of Department of various

divisions followed by scientific & technical discussions. Administrative agenda was presented before RC members. Concluding remarks were given by RC Chairman, Prof. V.K. Singh. He appreciated the presentations and ongoing activities at CSIR-AMPRI. RC meeting ended with vote of thanks by RC Secretary, Shri Hemant Kumar Shukla.



Glimpses of RC Meeting

Recruitment and Assessment Board Meetings

CSIR AMPRI, Bhopal hosted the Recruitment and Assessment Board (RAB) meetings for Assessment of

Scientists in the area of Materials Science, Management and IT as per new CSRAP 2025 rules from 15-17 April 2026



RAB meeting at CSIR-AMPRI

Exchange of MoUs

Exchange of MoU with National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, VIT Bhopal University, and Harcourt Butler Technical University (HBTU), Kanpur

The MoUs aimed at promoting collaborative research were exchanged between CSIR-AMPRI, Bhopal and i. NIMHANS, Bengaluru ii. VIT Bhopal

University and iii. Harcourt Butler Technical University (HBTU), Kanpur on 12th May 2026 on the occasion of National Technology Day-2026 and 46th CSIR-AMPRI Foundation Day celebrations at CSIR-AMPRI, Bhopal (12-14 May 2026) in gracious presence of Dr. N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, DSIR, GOI as the Chief Guest & Dr. Thallada Bhaskar, Director, CSIR-AMPRI.



Exchange of MoUs

MoU with EAII Advisors – Evidence Action's Technical Partner in India, New Delhi

MoU was exchanged between CSIR-AMPRI, Bhopal and EAII Advisors-Evidence Action's Technical Partner in India, New Delhi on World Environment

Day celebrations on 11th June 2026 in presence of Chief Guest Dr. D. Srinivasa Reddy, Director, IICT, Hyderabad & Dr. Thallada Bhaskar, Director, CSIR-AMPRI. The MoU aimed at fostering collaborative efforts for societal and technological impact.



Exchange of MoU

AcSIR

Ph.D.

1. Mr. Deepak Kumar Kashayap, 20EE20A35003, Ph.D student of AcSIR, Supervisor: Dr. Manoj Kumar Gupta, Co-Supervisor: Dr.Asokan Pappu, successfully defended Ph.D thesis titled “Transition metal chalcogenides nanostructures based flexible piezoelectric nanogenerator for energy harvesting and self-powdered sensors” on December 30 ,2025.
2. Mr. Pankaj Bharti, 10PP20A35002, Ph.D student of AcSIR, Supervisor: Dr.Neeraj Dwivedi, successfully defended Ph.D thesis titled “ Graphene based materials for advanced lubrication and protection applications on April 23,2026.
3. Mr. Rezaul Karim SK, 10PP21J35007, Ph.D student of AcSIR, Supervisor: Dr. Mohd. Ashiq, successfully defended Ph.D thesis titled “Synthesis and characterisation of lead free heavy metal oxide -based glass systems for radiation shielding applications on May 08, 2026.



Activities of AcSIR Science Club

1. Painting competition was organised by AcSIR Science Club for students on occasion of World Environment Day celebrations on June 10, 2026. The

event also recognized and encouraged talent through the distribution of prizes to winners of various competitions.



Students in painting competition

2. AcSIR students participated in plantation drive to plant 40 saplings in CSIR-AMPRI campus on 11th June, 2026 to celebrate World Environment

Day under the umbrella of AcSIR Science Club at CSIR-AMPRI, Bhopal.



AcSIR students participating in plantation drive



Recognition of student

Manish Chauhan, AcSIR PhD student (Supervisors: Dr. Shiv Singh, Scientist D & Dr. Pradip Kumar, Scientist E, CSIR-AMPRI) represented CSIR- AMPRI at the international conference ELKIN 2026 in The Hague, Netherlands. He presented his poster titled “Unveiling the Role of Platinum and Graphite Counter Electrodes for Overall Water Splitting via CVD Grown FeO/NiO Anchored Carbon Nanofibers”, based on his recent

publication in the Science Partner Journal Energy Material Advances, (<https://doi.org/10.34133/energymatadv.0327>, IF:18). His participation was supported through International Travel Support (ITS) from ANRF. Manish received appreciation from leading experts at Caltech, University of Twente, and Wageningen University, and was the only participant awarded €500 by ELKIN towards local expenses and accommodation among several international participants.



Mr. Manish Chauhan ELKIN 2026

Skill Development and Jigyasa

1. As part of the CSIR-JIGYASA initiative aimed at nurturing scientific temperament among school students, a group of students from R.J. Chaware High School and Convent, Maharashtra visited CSIR-AMPRI, Bhopal on 07 May 2026.

During the visit, students were introduced to emerging research areas and advanced technological developments in the domains of materials science, sustainable construction materials, environmental technologies, and



advanced processing techniques. The students visited various research laboratories and interacted with scientists of the institute.

The visiting students were also exposed to technologies developed at CSIR-AMPRI. The interaction aimed to inspire students towards careers in science, technology, innovation, and research.

As part of the academic interaction, students also presented their work and ideas in areas related to science, environment, and literature (ancient

Indian scripts etc.), showcasing creativity, scientific curiosity, and analytical thinking. The programme was conducted under the banner of CSIR-JIGYASA, a flagship student-scientist connect initiative of CSIR intended to bridge classroom learning with real-world scientific research and innovation.

The visit concluded with an interactive session encouraging students to pursue scientific inquiry and contribute towards nation-building through science and technology.



Glimpses of visit of students at CSIR-AMPRI, Bhopal

2. A total of 190 participants attended the World Environment Day program conducted under the CSIR Integrated Skill Initiative Phase III & JIGYASA on 10 June 2026. The program began with the screening of the CSIR capsule film, which highlighted the achievements and

contributions of CSIR in the field of science and technology.

The event was formally inaugurated and addressed by Dr. Prabhat Kumar Baghel, Scientist-F and Skill Coordinator, Dr. Sandip Singhai, Scientist-F and Co-coordinator, Shri Shiv Singh Patel,



Scientist-D, Coordinator jigya. During their inaugural address, they emphasized the importance of environmental protection, sustainable development, and the active role of students in preserving the environment.

Following the lectures, several engaging activities were organized for the participants as part of the World Environment Day 2026 celebrations. Key activities included a Quiz Competition, Slogan Writing Competition, and Poetry Competition, aimed at promoting environmental awareness and

encouraging creative expression among the participants.

Following the key activities, a laboratory visit was organized for the participants. They visited the Exhibition Hall at the New Building, where various innovative technologies and key inventions developed at CSIR-AMPRI were showcased. Winners of events were felicitated on 10 June 2026 in the 'TaRa' auditorium in Environment Day celebrations of CSIR-AMPRI, Bhopal.



World Environment Day program conducted under the CSIR Integrated Skill Initiative Phase III & JIGYASA

3. A five-day workshop on IPR was organised at CSIR-AMPRI under the aegis of CSIR Integrated Skill Initiative Phase III from June 15 to 19, 2026. The final day was marked with expert lectures by Adv. Aman Sinha, Delhi High Court, Delhi; Dr Narinder Singh, Scientist G,

CSIR-CSIO, Chandigarh; and Dr Sanjeeva Kumar Mazumdar, Head, Incubation Centre, NRDC, Delhi. This was followed by the valedictory session in which Dr Thallada Bhaskar, Director CSIR-AMPRI impressed upon the importance of IPR in transformation and



its contribution to the Viksit Bharat Mission. He also distributed certificates to the students. Dr Prabhat Kumar Baghel, Skill Coordinator, and Dr Sandeep

Singhai, Course Coordinator, were also present on the occasion and addressed the gathering.



Glimpses of Training Programmes under CSIR Integrated Skill Initiative



Events

CSIR-AMPRI Celebrated National Technology Day-2026 and 46th CSIR-AMPRI Foundation Day

CSIR- AMPRI, Bhopal celebrated National Technology Day-2026 and 46th CSIR-AMPRI Foundation Day from May 12 to 14, 2026.

The programme was graced by Dr. N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, DSIR, GOI as the Chief Guest on 12th May 2026.

The event commenced with her welcome and laying of foundation stone for the

Underpass and Overhead Tank facilities. Dr. Kalaiselvi visited the TEJASVI Centralized Testing Facility and inaugurated various facilities. The celebrations further included the inauguration of the Vivekananda Vigyan Pradarshani, Kalpana-Shala, and the UTM Facility. The Hon'ble DG visited the Roller Compacted Geopolymeric Road (cement free) constructed at the institute campus.

The function held at TARA Auditorium began with floral welcome followed by



welcome address by Dr. Thallada Bhaskar, Director, CSIR-AMPRI. During the programme, demonstration of the SURYA Portal was presented and the latest edition of the “Samvardhan” Quarterly Newsletter of CSIR- AMPRI was released.

The Indigenous SODAR Technology "Indigenous SODAR (Sound Detection and Ranging) System" developed by CSIR-AMPRI, Bhopal was transferred to M/s Meteoxperts Solutions Pvt. Ltd., Noida.

In addition, the MoUs were exchanged with three institutes.

Addressing the gathering, Dr. N. Kalaiselvi stressed the need for need-based and socially relevant research, urging scientists to identify the requirements of society and develop technologies that can effectively reach and benefit the common people.

Commendation certificate were given to CSIR-AMPRI staff members and researchers for outstanding performance during 2025-2026 under various categories.

The Chief Guest Dr. N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, DSIR was felicitated by Dr. Thallada Bhaskar,

Director, CSIR-AMPRI, Bhopal. Vote of thanks was proposed by Dr. Mohd. Akram Khan, Scientist G, CSIR-AMPRI, Bhopal. An open day was observed at CSIR-AMPRI, Bhopal on 13th May 2026. Students, teachers and professors from various institutes visited exhibition hall viz. Vivekanand Vigyan Pradarshani of CSIR-AMPRI showcasing various R & D activities /products developed by CSIR-AMPRI.

The 46th Foundation Day celebrations of CSIR-AMPRI with the renowned Professor, Prof. B. S. Murty, Director, Indian Institute of Technology (IIT) Hyderabad (chief guest, morning technical session) and Prof Gobardhan Das, Director, IISER Bhopal & NITI Aayog Member (Chief Guest, evening technical session) were organized on May 14, 2026.

The inaugural session at TARA Auditorium began with welcome of Prof. B. S. Murty by Dr. Thallada Bhaskar, Director, CSIR-AMPRI. On the occasion, Dr. N. Sathish, Scientist F, CSIR-AMPRI, Bhopal, delivered the Foundation Day Lecture on “Make-in-India Raman Spectrometer”. Delivering the Foundation Day address, Prof. B. S. Murty emphasized that the vision of “Viksit Bharat” can truly be realized when Indian technologies and



products become globally recognized and occupy shelves in international markets. The Chief Guest Prof. B. S. Murty was felicitated by Dr. Thallada Bhaskar, Director, CSIR-AMPRI. Vote of thanks was proposed by Shri Hemant Kumar Shukla, Scientist G, CSIR-AMPRI, Bhopal.

The evening session was graced by Prof. Gobardhan Das, Director, Indian Institute of Science Education and Research (IISER) Bhopal, and Member, NITI Aayog, Government of India as the Chief Guest. Prof. Das visited Roller Compacted

Geopolymeric Road developed by CSIR-AMPRI in the institute campus.

The evening session at TARA Auditorium started with welcome of Prof. Gobardhan Das by Dr. Thallada Bhaskar, Director, CSIR-AMPRI. Addressing the gathering, Prof. Gobardhan Das emphasized that the nation's target is achieving Viksit Bharat by 2047. The Chief Guest Prof. Gobardhan Das was felicitated by Dr. Thallada Bhaskar, Director, CSIR-AMPRI. Vote of thanks was proposed by Dr. P. Asokan, Scientist G, CSIR-AMPRI, Bhopal.





Glimpses of National Technology Day-2026 and 46th CSIR-AMPRI Foundation Day celebrations

World Environment Day 2026 Celebrated at CSIR-AMPRI, Bhopal

CSIR- AMPRI, Bhopal, celebrated World Environment Day on 11th June 2026. The event was graced by Dr. D. Srinivasa Reddy, Director, CSIR- IICT, Hyderabad, as the Chief Guest. The celebrations commenced with a plantation drive in the institute premises. Dr. Reddy visited the TEJASVI Centralized Testing Facility (Technical Evaluation and Joint Analysis System for Virtual Integration) and Vivekananda Vigyan Pradarshani, where he interacted with scientists and students.



The formal function was held at the TaRa Auditorium and began with the floral welcome of the chief guest and welcome address by Dr. Thallada Bhaskar, Director, CSIR-AMPRI. Dr. D. Srinivasa Reddy delivered a keynote address on the occasion highlighting the significant contributions of CSIR-IICT towards environmental protection and sustainable development. The Chief Guest was felicitated by Director, CSIR-AMPRI. The programme was concluded with a vote of thanks delivered by Dr. P. Asokan, Scientist-G.



World environment day celebrations at CSIR-AMPRI



Inauguration of the Centre for Sustainable Sisal Systems (C3S) established in collaboration with CSIR-AMPRI, Bhopal

The 4th International Conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA 2026) was held at the Coimbatore Institute of Technology (CIT) in India from June 3–5, 2026. The event was inaugurated by N. Kalaiselvi, DG, CSIR & Secretary, DSIR. Coinciding with the event, Dr. N. Kalaiselvi, inaugurated the Centre for

Sustainable Sisal Systems (C3S) established in collaboration with CSIR-AMPRI, Bhopal at Avinashilingam Institute for Home Science and Higher Education Campus on 3 June 2026. The C3S aims to promote sustainable sisal cultivation, value addition, rural entrepreneurship, and community development. Dr. Dr. Thallada Bhaskar, Director of CSIR-AMPRI, addressed the international gathering during the industry meet session.



Glimpses of AMCEHA 2026

International Yoga Day -2026 Celebrated at CSIR-AMPRI, Bhopal

CSIR-AMPRI, Bhopal, celebrated the International Yoga Day on June 21, 2026. A lecture and live demonstration of yoga

were given by the yoga experts from Patanjali Yogpeeth. AMPRI staff, their family members, and students experienced and learned about the benefits of yoga.



International Yoga Day celebrations at CSIR-AMPRI

New facilities

1. Dr. N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, DSIR, visited CSIR-AMPRI, Bhopal, on May 12, 2026 on the occasion of National Technology Day (NTD) & 46th CSIR-AMPRI Foundation Day (May 12-14, 2026). She inaugurated ICP-OES,

Hydrogen Storage Materials Analyzer and UTM Facility at TEJASVI Centralized Testing Facility (Technical Evaluation and Joint Analysis System for Virtual Integration).





Inauguration of New Facilities

2. CSIR-AMPRI, Bhopal celebrated World Environment Day on June 11, 2026. Chief guest, Dr. D. Srinivasa Reddy, Director, CSIR-IICT, Hyderabad inaugurated “Centre of Excellence (CoE) -Transparent and Biocompatible Radiation Shielding Polymer composites” established under the DCPC-

AMPRI Project, marking an important milestone in strengthening the institute’s research infrastructure and innovation capabilities in the area of recyclable and transparent gamma and neutron shielding polymer composites



Inauguration of “CoE -Transparent and Biocompatible Radiation Shielding Polymer composites”

Outreach Activities

1. Prof. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal, participated in the CSIR & Ministry of Textiles Meeting on New Age Fibres on 29th April 2026 at CSIR Science

Centre, New Delhi. Dr. N. Kalaiselvi, Hon'ble DG CSIR presented CSIR-AMPRI's Sisal product to the Secretary, Ministry of Textiles.



Prof. Thallada Bhaskar in the CSIR & Ministry of Textiles Meeting

2. CSIR-AMPRI, Bhopal showcased sisal fibre and sisal fibre composites-based exhibits in 'National Seminar on New Age Fibres: Innovation, Research and the Road Ahead' at New Delhi on May 19, 2026.

Dr. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal, interacted with Hon'ble Ministers and dignitaries, Ministry of Textiles, Govt of India on the occasion.



CSIR-AMPRI showcasing exhibits (left) and Dr. Thallada Bhaskar interacting with Hon'ble Ministers (right)

3. The CSIR-AMPRI team visited Leh-Ladakh during May 20 – 24, 2026 to find a suitable location to install an indigenous SODAR system for atmospheric research, as Leh-Ladakh's unique high-altitude, arid climate with extreme temperatures from 34°C to -27°C, low pressure, high winds, and clear skies makes it ideal for atmospheric

studies. After surveying four locations of IMD and the Indian Institute of Astrophysics, and the Indian Astronomical Observatory, Hanle was finalised for installing an indigenous SODAR system to understand boundary layer dynamics, climate change effects, and weather patterns in the region



Indian Astronomical Observatory (IAO) at Hanle

4. CSIR-AMPRI, Bhopal, showcased technologies/products developed by the institute at the 6th Rising Madhya Pradesh Exhibition, which was held at the MSME Exhibition Centre, Industrial Area, Govindpura, Bhopal, from May 22 to 24,

2026. For outstanding R&D outcomes and attractive stall presentation, the event organising committee awarded the AMPRI stall with the first Prize.



CSIR-AMPRI team at 6th Rising Madhya Pradesh Exhibition



5. Meeting of Dr Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal & Dr Manish Mudgal with Shri R B Barad, Chairman & Smt Dipali Tank Member Secretary GPCB was held at

GPCB HQ, Gandhinagar on 9th June 2026 regarding ceramic waste to geopolymeric materials & value addition and industrial waste to wealth.



Glimpses of meeting

6. As per the invitation and expression of interest from Shri P. Raja Babu, IAS, District Collector and District Magistrate of Prakasam district, Ongole, A.P., team of Scientists -G viz. Dr. P Asokan, Dr. Manish Mudgal and Dr. Mohd. Akram Khan from CSIR-AMPRI, Bhopal visited the Granite

Mining and Mineral Industries, Ongole Prakasham district, A.P. during 30 June to 1st July 2026, made detailed presentation on CSIR-AMPRI expertise and facilities and showcased the exhibits to explore possibility for utilization of granite waste generated to undertake the program.



Glimpses of visit of CSIR-AMPRI team to Granite Mining and Mineral Industries

Invited Lectures

Dr Ashokan Pappu, Scientist G, CSIR-AMPRI, Bhopal delivered a talk on “Sustainable Circular Economy from industrial inorganic wastes Recycling

Technologies in manufacturing high-performance composite wood” in Monthly Lecture Series conducted by CSIR- IPU on May 02, 2026



Visit of Dignitaries to the Institute

1. Ms. Nivedita Raghunath Bhide, Padmshree, All India Vice President of the Vivekananda Kendra, Kanyakumari visited CSIR-AMPRI,
2. Bhopal on 6th April 2026. She visited exhibition hall showcasing processes and products developed at CSIR-AMPRI



Ms. Nivedita Raghunath Bhide at CSIR-AMPRI, Bhopal



2. Prof. V. Bharathi Harishankar, Vice Chancellor and Dr. P. Lalitha, Director, Research and Development Cell, Avinashilingam Institute for Home Science and Higher Education for Women, (Deemed University), Coimbatore visited CSIR-AMPRI, Bhopal on 12th May 2026 to explore possibility of Collaborative work.



Dignitaries at CSIR-AMPRI, Bhopal



3. Dr. S.S. Amritphale, Research Director, Science Investments LLC. Ruston, Louisiana, United States 375 and Ex - Acting Director, CSIR-AMPRI, Bhopal visited CSIR-AMPRI, Bhopal and interacted with Director, Dr. Thallada Bhaskar to explore the possibilities of collaborations in the areas of mutual interest.



Dr. S.S. Amritphale with Dr. Thallada Bhaskar at CSIR-AMPRI, Bhopal

4. Mr Manickam Athappa, the Chairman and Mr Ramesh Rajagopal, General Manager, Mak India Limited, Coimbatore and two more clients visited to CSIR-AMPRI Bhopal to discuss about Technology Transformation opportunities during June 16-17, 2026.



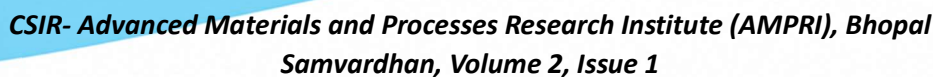
Dignitaries from Mak India Limited, Coimbatore at CSIR-AMPRI, Bhopal



Staff News

Sad Demise

1. Shri Devtanand Prasad, superannuated Tea maker, passed away on 10th June 2026.
2. Shri K.P. Tripathi, superannuated security guard, passed away on 12th June 2026



CSIR-AMPRI in Media



Ministry of Science & Technology

From Waste to Wealth: CSIR-AMPRI Builds India's First Geopolymeric Concrete Road

CSIR-AMPRI, Bhopal Develops India's First Cement-Free Fly Ash Based Concrete Road

09/07/2023 17:46:58 IST 2.47K Views 17 Bhopal

CSIR-Advanced Materials and Processes Research Institute (CSIR-AMPRI), Bhopal, has successfully demonstrated India's first fly-ash based, cement-free geopolymeric roller compacted concrete road. This innovative and eco-friendly road stretching 1.5 km, developed within the institute campus, has now been completed and opened for use.

The project was inaugurated and opened to traffic on April 16, by Prof. Vinod Kumar Singh, Institute Chair Professor, IIT Kanpur and Chairman of the Research Council of CSIR-AMPRI. Earlier, the project was launched on February 2, 2026, by Dr. R. K. Kalavathi, Director General, CSIR and Secretary, DSIR. This advanced road technology uses fly ash instead of traditional cement, making it highly environment-friendly. The geopolymeric concrete used in the road reduces CO2 emissions by around 83% and requires no water curing. It also has nearly 80% lower energy consumption compared to conventional concrete.



Ministry of Science & Technology

CSIR-AMPRRI Celebrated National Technology Day-2026 and 46th CSIR-AMPRRI Foundation Day with Technology Transfer and Collaborative Partnerships

NEW DELHI, 12 MAY 2026 (PTI) — Prime Minister

CSIR-Advanced Materials and Processes Research Institute (AMPRRI), Bhopal celebrated National Technology Day-2026 and 46th CSIR-AMPRRI Foundation Day on 12th May 2026 (May 12-14, 2026) under the Chairmanship of Dr. Thallada Bhaskar, Director, CSIR-AMPRRI with a series of scientific, technological, and institutional initiatives aimed at strengthening research infrastructure, innovation, and collaborative partnerships.

The programme was graced by Dr. N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, CSIR, Government of India as the Chief Guest. The event commenced with her arival and welcome at CSIR-AMPRRI, Bhopal by Thallada Bhaskar, Director followed by inauguration and foundation-laying activities across the institute campus. As part of the programme, the foundation stone for the Underpass and Overhead Tank facilities were laid, alongside the declaration of institutional collaborations.

 Ministry of Science & Technology

CSIR-AMPRI, Bhopal Celebrated 46th CSIR-AMPRI Foundation Day

शुक्रदिने 14 मार्च 2026 10:41AM by PIB Bhopal

CSIR-Advanced Materials and Processes Research Institute (AMPRI), Bhopal celebrated 46th CSIR-AMPRI Foundation Day celebrations from 12-14 March 2026 under the Chairmanship of Dr. Tushila Bhojwade, Director, AMPRI. The programme was graced by Dr. N. Kalaiselvi, Hon'ble DG, CSIR & Secretary, DSIR, Government of India as the Chief Guest on the first day on 12th March 2026.

An open day was observed at CSIR-AMPRI, Bhopal on 13th March 2026. Students, teachers and professors from various institutes visited exhibition hall viz. Virochanand Vignan Pradurbhan of CSIR-AMPRI showcasing various R & D activities /products developed by CSIR-AMPRI.

76th
Azadi Ka
Amrit Mahotsav

Ministry of Science & Technology

World Environment Day 2026 Celebrated at CSIR-AMPRi, Bhopal

देश दिनांक: 12 JUN 2026 2:30 PM by PIB Bhopal

CSIR-Advanced Materials and Processes Research Institute (CSIR-AMPRi), Bhopal celebrated World Environment Day on 11th June 2026 with great enthusiasm and active participation from students, scientists, staff members, and distinguished guests. The event was graced by Dr. D. Srivastava Reddy, Director, CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad, as the Chief Guest.

Inspired by the Honourable Prime Minister's call to protect the mother earth and promote sustainable growth, the celebrations commenced with a plantation drive in the institute premises, where Dr. D. Srivastava Reddy and Dr. Thallada Bhaskar, Director, CSIR-AMPRi, along with students of CSIR-AMPRi, planted saplings in front of various Laboratory Blocks. Dr. Reddy also visited the Roller Compacted Geopolymeric Road (cement free) constructed at the institute campus.



Contact:

Prof. Dr. Thallada Bhaskar, Director
CSIR- Advanced Materials and Processes Research Institute (AMPRI)
Narmadapuram Road, Bhopal-462026 (M.P.) India
Tel: +91-755-2457105
Email: director.ampri@csir.res.in
Website: <https://ampri.res.in/>

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