

**Subject: MONTHLY SUMMARY (For the month of February 2025)**

**Major achievements during the month of February 2025**

**Council of Scientific & Industrial Research (CSIR)**

**New Products/Processes/ Technologies developed**

- **CSIR-CBRI**
  - Developed process for
    - Novel Cost Effective Surficial Geometric Imperfection Measurement device
    - High Volume Fly-Ash (40-50%) Gypsum Composite Plaster for Interior Application
- **CSIR-IIP**
  - Developed 5 additives for diesel-methanol blends
- **CSIR-NIIST**
  - Developed Technology for
    - Freeze drying process for forming light weight, porous polymer aerogel
    - Oil derived Vitrimers Via Epoxidation
    - Electric Hydrogen Leak Detector (EHL D)
- **CSIR-CFTRI**
  - Developed Technology for
    - Virgin Coconut Oil based Spread
    - C HYDRA (Hydration Drink Mix)
    - Biofumigation Technology for Protection of Stored Pulses (1 tonne capacity) from Insect Pests
- **CSIR-CIMAP**
  - Developed NAARI Plus (Aromatic Plant Based Antimicrobial Sanitary Napkin)
- **CSIR-IHBT**
  - Developed Technology for preparation of herbal lip balm

**Technologies licensed/transferred**

- **CSIR-CDRI**
  - Technology for TaqMan-like probe based RT-PCR detection kit for arboviral infections (Dengue, Chikungunya, Zika) transferred to M/s Mylab Discovery Solutions Private Limited, Pune during 14-15/02/2025.
- **CSIR-CFTRI**
  - Technology for:
    - Spice oleoresin - turmeric transferred to M/s Haridra Spices & Laboratories Pvt. Ltd., Kerala
    - Process for the production of soluble and insoluble arabinoxylan from wheat bran transferred to M/s Renee Innovations LLP, Gujarat.
- **CSIR-CIMAP**
  - Technology for :
    - Flomop and Mospray (Natural Aromatic Floor/Mosquito Repellent Liquid) licensed to Tripura State Council of Science and Technology, Agartala.

- CIM-Sugandha (Essential oil based Soap) Ceangerm (Essential oil based Floor Mopping Liquid) licensed to Horticulture Department, Gaya, Bihar.
- **CSIR-CSMCRI**
  - Technology for :
    - Production of Sap from Kappaphycus alvarezii and its application transferred to Brahma Kamal Research, Bhubeneshwar, Odisha
    - Preparation of carveol and alpha-campholenic aldehyde from alpha-pinene transferred to M/s. Hello Aromachem Pvt. Limited
- **CSIR-IHBT**
  - Technology for :
    - Incense Cone and Sticks manufacturing transferred to Shailza Self Help Group Palampur (H.P.) on 26/02/2025.
    - Travel/pocket perfumes (4-5 variants) transferred to M/s Pahadicraft, Gagret Distt. Una (H.P) on 26/02/2025.
- **CSIR-IMMT**
  - Technology for :
    - Alkaline-Phosphogypsum-Biochar transferred to M/s Paradeep Phosphate Ltd (PPL), Paradeep, Odisha
    - Potash Enriched Biochar from Waste Biomass to M/S Livelihood Alternatives, Bhubaneswar, Odisha
    - Tooth Cleaning Anticaries Formulation (TCAF) to First Biotech Pvt Ltd, Bhubaneswar, Odisha
- **CSIR-SERC**
  - Technology for High Velocity Multi-Hit Resistant Movable Protective Booth/Shack for Security Personnel licensed to M/s Sehgal Doors on 07/02/2025.

**Number of New Projects initiated (01/02/25-28/02/25)**

Lab/Institute	CSIR	Ministry/Govt./PSU	Industry/sponsored/ Pvt
CSIR-CBRI	Nil	2	11
CSIR-CCMB	Nil	1	Nil
CSIR-CDRI	Nil	1	Nil
CSIR-CECRI	01	02	02
CSIR-CEERI	Nil	04	Nil
CSIR-CFTRI	Nil	01	02
CSIR-CIMFR	Nil	15	16
CSIR-CLRI	Nil	01	Nil
CSIR-CSIO	01	Nil	Nil
CSIR-CRRI	Nil	06	01
CSIR-CSMCRI	Nil	Nil	02
CSIR-IICB	Nil	1	Nil
CSIR-IICT	Nil	Nil	05
CSIR-IIP	Nil	01	02
CSIR-IITR	Nil	Nil	02
CSIR-IMMT	Nil	02	01
CSIR-NAL	Nil	05	01
CSIR-NEERI	Nil	02	03
CSIR-NGRI	Nil	01	Nil
CSIR-NIIST	Nil	01	01
CSIR-NML	01	01	01
CSIR-SERC	Nil	03	07

**Number of Ph.D. scholars joined/ completed (01/02/25-28/02/25)**

Lab/Institute	Completed
CSIR-CCMB	03
CSIR-CDRI	12
CSIR-CECRI	02
CSIR-CFTRI	03
CSIR-CIMAP	03
CSIR-CLRI	02
CSIR-CSMCRI	02
CSIR-IGIB	02
CSIR-IHBT	05
CSIR-IICB	05
CSIR-IICT	08
CSIR-NAL	01
CSIR-NBRI	05
CSIR-NEERI	03
CSIR-NGTI	01
CSIR-NIIST	06

**National Collaborations/Agreements/MoUs Signed**

- **CSIR-CDRI**
  - MoU signed with Centre for High Impact Neuroscience and Translational Applications (CHINTA), TCG CREST, Kolkata to promote institutional linkage on 17/02/2025.
- **CSIR-CGCRI**
  - MoU signed with M/s. Tata Steel Limited, Mumbai for Development of Solid Oxide Electrolyzer Cell & Short Stak for Blast Furnace Top Gas Utilization to Reduce CO2 Footprint in the Iron Making Process on 04/02/2025.
- **CSIR-CIMAP**
  - MoU signed with
    - Fragrance and Flavour Development Centre (FFDC), Kannauj for Promoting the R&D work and skill development on 04/02/2025.
    - IIT Roper- Technology and Innovation Foundation (iHub-AWADH), Punjab for Joint development of Cyber-physical systems (CPS), on 04/02/2025
    - M/s Petal Drif, Lucknow & M/s. Mandar Education and Research Foundation, Banka, Bihar for herbal products/formulation of Relaxomap and Painchoo on 28/02/2025.
- **CSIR-CLRI**
  - MoU signed with MSME West Bengal to create infrastructure for testing laboratory at CLCTA on 06/02/2025.
- **CSIR-CRRI**
  - MoU signed with Indian Institute of Technology Tirupati (IIT-Tirupati), Andhra Pradesh, for Academic and research collaboration on 20/02/2025.
  - Agreement signed with Govt of Assam & M/s Ramuka Global Services for implementation of utilization and implementation of ECOFIX Technology at Guwahati Assam on 25/02/2025.
- **CSIR-CSIO**
  - MoU signed with
    - HAL, Korwa and BEL, Panchkula for joint R & D collaboration on 12/02/2025.
    - Harsoria Healthcare Pvt Ltd signed on 28/02/2025.
- **CSIR-CSMCRI**
  - Agreement signed with M/s. Hello Aromachem Pvt. Ltd, Ghaziabad

- MoU signed with Pandit Deendayal Energy University, Gandhinagar & Guru Nanak University, Hyderabad
- **CSIR-IHBT**
  - MoU signed with VS Lignite Power Private Limited, Hyderabad, for collaboration in the area of sustainable farming using microbial-based bio formulation on 02/02/2025.
- **CSIR-IICB**
  - MoU signed with DBT, New Delhi, for Development of genetically engineered 'off-the-shelf' and inducible CAR-T cells for cancer therapeutics on 19/02/2025.
- **CSIR-IICT**
  - MoU signed with Central Silk Board(CSB) Bengaluru to promote cooperative research on sericulture and Seri-Biotechnology on 06/02/2025.
- **CSIR-IIP**
  - MoU signed with Naion Pvt Limited. Hosur for Modified alumina and structural alumina for reforming and other catalytic applications.
- **CSIR-IITR**
  - MoU signed with Acharya Narendra Deva University of Agriculture and Technology, Ayodhya for facilitating Academic collaboration & building programme on 13/02/2025.
- **CSIR-NAL**
  - MoU signed with M/s. Ubifly Technologies Private Limited, Chennai for collaboration on the development of urban air taxi.
- **CSIR-NIIST**
  - MoU signed with
    - Anchunadu Karimbu Ulpadhana Vipanana Sangam& Marayoor Hills Agricultural Development Society (MAHAD) for subsequent turnkey implementation to establish a 6 Tons Per Day (TPD) processing unit for Marayoor jaggery.
    - Chase Avian Communications Private Limited for Technical Inputs for Knowledge Paper on Transition from Fossil-Based Feedstock for Chemicals.
- **CSIR-NML**
  - Agreement signed with Research & Development Centre for Iron & Steel (RDCIS) SAIL, Ranchi for Decarburisation of High Carbon Ferro Manganese for Preparation of Low Carbon Ferro Manganese.

#### International Collaborations/Agreements/MoUs Signed

- **CSIR-IICT**
  - MoU signed with International Science, Technology and Innovation Centre for South-South Cooperation, under the auspices of UNESCO (ISTIC), Malaysia for Education and Research Collaboration on 25/02/2025.

#### Patents Update

Patents Filed			Patents Granted			Patent Prosecutions	
India	Abroad* (Unique Patent Application)	Abroad (Multiple Countries) *	India	Abroad* (Unique Patent Application)	Abroad (Multiple Countries) *	India	Abroad*
14	13	15	04	11	12	04	141
Number of Copyright Applications filed						03	
Number of Design Applications filed						02	

\* Data reported to IPU during February 2025 and may change later during national phase entries. The unique filed/ granted patent may appear in the next months also if its corresponding application is filed/ granted in the respective months.

## High impact S&T services

- **CSIR-CCMB**
  - Provided molecular diagnostic services for 278 families comprising 299 samples
- **CSIR-CDRI**
  - Provided analytical services to one MSME during February 2025.
  - Supplied 156 experimental animals to outside research organizations for research purposes.
  - Provided service for analysis of sample by IR (Infrared), Mass, NMR (Nuclear Magnetic Resonance) and EM (Electron Microscopy); 409 external samples analysed.
- **CSIR-CMERI**
  - Supplied Metallurgical Characterization of supplied high chrome grinding media ball for the BBD type coal mill for Damodar Valley Corporation, Kolkata.
  - Condition Assessment of Screening Plant Structures at Sukinda Mines for Indian Metal and Ferro Alloys Limited, Odisha.
- **CSIR-CRRI**
  - Design of Cement concrete road on Industrial area (Furnace Road) in Village Kheda under Hapur-Pilkhuwa Development Authority Development Area for Hapur Pilkhuwa Development Authority
  - Pavement Evaluation of Road Connecting Surajpur Entry Point to Kasna T-Point and suggesting Remedial measures for Greater Noida Industrial Development Authority
  - Structural Audit of the Elevated Portion of the Six lane Access Controlled Highway from DND Maharani Bagh to Junction with Jaitpur-Pushta Road section of NH-148 NA in NCT on Hybrid Annuity Mode under Bharatmala Pariyojana for NHAI.
  - Investigation of Failure of pavement of Delhi-Vadodara Greenfield Alignment from Ch.151+840 to Ch. 183+000 (Keshopura Road-Junction with NH-11; pkg.-06,31.16 Km) for Ministry of Road Transport & Highways(MORTH)
  - Investigation of Failure of pavement and structures of Delhi-Vadodara Greenfield Alignment (DVGA, NH-148N) from Ch.151+840 to Ch. 183+000 (Keshopura Road-Junction with NH-11, pkg.-06,31.16 Km) for Ministry of Road Transport & Highways(MORTH)
  - Vetting of Pavement Design for Construction of a 4-Lane Greenfield North-East Side Gorakhpur bypass (26.616 km) starting from NH-29E (Chainage 83+308) and ending at NH-28 (Chainage 285+100) in the state of Uttar Pradesh under Bharatmala Pariyojna Under EPC mode. For Vijai Construction (India) Pvt. Ltd.
- **CSIR-IITR**
  - Performed In vivo geno toxicity studies of furit coating substance for BRIC-National Agri-Food and Biomanufacturing Institute, Mohali.
- **CSIR-NAL**
  - ISA of generic driver machine interface for line 1 & 2 OF Delhi Metro Rail Corporation LTD, BEL, Uttarakhand
  - Evaluation of Experimental ejectors performance of the combined precooler and primary heat exchanger (CPPHE) of Environmental Control System (ECS) FOR AMCA, ADA, Bengaluru
  - Design & development of control laws and air data algorithms for AMCA, LCA AF MK2 and TEDBF (08/339), ADA, Bengaluru
  - Static strength testing of inflight refueling (IFR), ADA, Bengaluru
  - Wind tunnel studies on electric motorcycle model, ola electric, Bengaluru
  - Aeroelastic studies on dhvani launch vehicle and glide vehicle, ASL, Hyderabad
- **CSIR-NEERI**
  - Environmental Monitoring in and around the Integrated CHWTSD Facility, Pithampur during incineration of the HWs from M/s. UCL, Bhopal
- **CSIR-NML**
  - Feasibility study on reduction of Manganese ores for Tata Steel Pvt Ltd, Jamshedpur.
- **CSIR-NPL**
  - Performed preliminary performance assessment and suitability test of ozone analyzer developed for M/S Uniphos Envirotronic Pvt. Ltd.

- Provided Calibration services for electrical safety and defibrillator to NIPER, Guwahati, DHBVN Gurugram, Hisar, Ballabgarh
- Provided continuous traceability to IST(R) to ISRO using satellite links.
- **CSIR-SERC**
  - Performed Cyclic Fracture Studies on Dissimilar Pipe Girth Weldments at Operating Temperature - Bhabha Atomic Research Centre, Mumbai
- **CSIR-URDIP**
  - Provides IP analysis support services to CSIR laboratories regularly.

## Outreach Activities

- **CSIR-Hqrs**
  - CSIR-HRDC Organised training programme on :
    - Socio-Economic Impact Assessment of Science & Technology Outcomes during 10-14/02/2025.
    - Drone Technologies and their Applications in Agriculture during 19-21/02/2025.
- **CSIR-CBRI**
  - Organized a Students-Scientists Interaction Program at PM Shree KV School, Raiwala (Uttarakhand) on 19/02/2025.
  - Organised lab visit for Deen Bandhu Chotu Ram University of Science & Technology, Murthal, Haryana, on 05/02/2025.
  - Organised a Science Quiz on the theme "Empowering Indian Youth for Global Leadership in Science and Innovation for Viksit Bharat" on 27/02/2025.
  - Organised Skill Development Training Programme on Disaster Resilient Building Construction in Hills for All India Commerce & Industry Development Foundation during 21-23/02/2025.
- **CSIR-CCMB**
  - Organised Skill Vigyan Development Program on "Basic Techniques in Genetics and Molecular Biology" during 17-28/02/2025; 14 participants.
- **CSIR-CDRI**
  - Organized a Students-Scientists Interaction Programs for :
    - SBS Group of Institution College of Pharmacy, U.P on 04/02/2025; 118 participants.
    - Maya Institute of Pharmacy, Hathras on 06/02/2025; 65 participants.
    - Sri Sharda Group of Institutions, Lucknow (U.P.) on 11/02/2025; 42 participants.
    - Jawahar Navodaya Vidyalaya, Raebareli (UP) & SR Global School, Bakshi Ka Talab, Lucknow (UP) on 28/02/2025; 130 participants.
- **CSIR-CECRI**
  - Organised Skill Development Training Programme on "Biosensor: Design and Applications" during 24-28/02/2025; 48 participants.
  - Organised lab visit for Marudhar Kesari Jain College for Women, Vaniyambadi on 26/02/2025; 24 participants.
  - Organised lab visit on National Science Day Celebration 2025; 30 participants.
  - Completed Energy Literacy Training by Energy Swaraj Foundation; 24 participants.
- **CSIR-CEERI**
  - Organised lab visit for MGGS Likhwa, GSSS Khudania, Parmveer Peeru Singh GSSS, GSSS Bangothari, Jhunjhunu & PM Shri Shidhari Singh GSSS Hamirwas, Churu on 05/02/2025, 11/02/2025, 12/02/2025, 21/02/2025 & 20/02/2025 respectively; 217 participants.
  - Organized SHILP-Semiconductor High Impact Learning Program for Ganpat University, Gujarat, during 03-14/02/2025; 14 participants from 03-02-2025 to 14-02-2025 for a batch of 14 students.
- **CSIR-CFTRI**
  - Conducted Awareness program on Energy Conservation and Sustainable Energy Sources on 28/02/2025; 80 participants.
  - Organised Skill Development Training Programmes on
    - Fruit and vegetable processing during 29/01/2025-01/02/2025; 22 participants.
    - Value addition to ragi, rice, millet and maize during 03-04/02/2025; 22 participants.

- Pickle processing during 05-07/02/2025; 26 participants.
- Turmeric processing and value addition during 17-19/02/2025; 16 participants.
- Rice parboiling, milling, processing & value addition during 24-25/02/2025; 29 participants.
- **CSIR-CGCRI**
  - Organised Skill Development Training Programmes on
    - Terracotta Processing 06-07/02/2025; 37 participants.
    - Ceramic membrane and water technologies during 12-14/02/2025 & 18/02/2025; 37 & 26 participants respectively.
    - Soft Skills and Technical Skills Upgradation on Whiteware Ceramics Fabrication and Characterisation 17-20/02/2025; 28 participants.
    - Instrumental Methods for Chemical Characterization of Glass & Ceramic Materials & Testing & Calibration Techniques Related to Temperature Measurement and Control during 18-21/02/2025; 21 participants.
    - Sophisticated Techniques used for Characterization of Ceramic Materials during 25,27 & 28/02/2025; 40 participants.
    - Krishnacharanpur High School (HS), West Bengal; 251 participants.
- **CSIR-CIMAP**
  - Organised Skill Development Training Programmes on:
    - Cultivation and primary processing of medicinal and aromatic plants 28/01/2025-01/02/2025; 42 participants.
    - Medicinal & Aromatic Plants during 17-22/02/2025; 14 participants.
    - Cultivation, processing and marketing of MAPs at Barabanki, Uttar Pradesh on 24/02/2025; 52 participants.
    - Utilization of Offered Flowers for Making Incense Sticks and Fragrant cones at District Jail Sitapur on 14/02/2025; 35 participants.
    - Organised lab visit on National Science Day Celebration 2025; 275 participants.
- **CSIR-CIMFR**
  - Organised a hands-on training session on DIY Science Kit for Utkramit +2 Uchh Vidyalaya, Dhanbad on 17/02/2025; 58 participants.
- **CSIR-CLRI**
  - Organised hands on training with Central Electronics Limited (CEL) for leather goods; 20 participants.
  - Organised training program on Industrial Glove Manufacturing for Burnpur Mahila Voluntary Samity Women Entrepreneurs.
  - Organised lab visit for Saveetha Institute of Medical and Technical Sciences, Chennai on 14/02/2025; 45 participants.
- **CSIR-CMERI**
  - Organised lab visit for Civil Engineering Department of Dr. B. C. Roy Engg. College, Durgapur on 25/02/2025.
  - Organised training programs on:
    - Solar kits, physics kits, e-tractor, e-tiller & Drain Cleaning Equipment on 06/02/2025; 163 participants.
    - Mahish Bathan Manoj Mohan Vidyamandir, Karimpur, W.B. on 07/02/2025; 215 participants.
    - Post-Harvest Processing with Value Chain Analysis of Agricultural Crops at Aizawl, Mizoram during 03-07/02/2025.
    - Upgradation of Skill & Technique towards Manufacturing for Agricultural Implements Cluster at Palakkad, Kerala during 17-21/02/2025.
- **CSIR-CRRI**
  - Organized a Students-Scientists Interaction Program for PM Shri Kendriya Vidyalaya Palwal, Haryana on 11/02/2025; 158 participants.
- **CSIR-CSMCRI**
  - Organized a Students-Scientists Interaction Program for PM SHRI JNV, Bhavnagar
  - Organised lab visit for Pandit Deendayal Energy University (PDEU), Gandhinagar

- **CSIR-IHBT**
  - Organised lab visit for PM SHRI JNV Paprola, GSSS Paraur, Khajurnoo, Spail, Gohju, Rajnali, Dhatti, Bari Kalan Distt. Kangra, Bir Baghera, Maharal, Distt. Hamirpur (H.P.); 563 participants
  - Organized a Students-Scientists Interaction Program for Govt. Sr. Sec. School, Rakh, District Kangra (HP) on 14/02/2025; 136 participants.
- **CSIR-IICB**
  - Organised Capacity Building Programme on "Reverse Pharmacology of Traditional Medicine Using Modern Biomedical Techniques for Scientific Understanding and Promotion of AYUSH systems for AYUSH Practitioners' during 03-08/02/2025.
- **CSIR-IICT**
  - Organized Students-Scientists Interaction Programs for:
    - ZPHS, Kukatpally on 19/02/2025; 100 participants.
    - PM Shri social welfare residential girls school, Nalagonda on 18/02/2025; 160 participants.
  - Organised Skill Development Training Programme on Analytical Techniques in Food and Nutritional Chemistry during 03-10/02/2025; 29 participants.
- **CSIR-IIP**
  - Organised Skill Development Training Programme on Analysis using Chromatography & Mass Spectrometry during 03-14/02/2025; 16 participants.
- **CSIR-IITR**
  - Organised lab visit on National Science Day Celebration 2025; 960 participants.
- **CSIR-IMMT**
  - Organised Skill Development Training Programmes on:
    - Documentation and conservation techniques of medicinal plants for sustainable environment at Choudwar College, Choudwar on 03/02/2025.
    - IP Mentor during 10-15/02/2025.
    - ATL mentoring for KV schools of Bhubaneswar region & SAINIK School on 03/02/2025 & 05/02/2025 respectively.
  - Organised lab visit for PM Shri Kendriya Vidyalaya, No-5, Kalinganagar on 11/02/2025.
- **CSIR-NAL**
  - Organised lab visit for Defence personnel and College students.
- **CSIR-NBRI**
  - Organised Skill Development Training Programmes on
    - Plant Tissue Culture Technician during 21/02/2025-20/03/2025; 10 participants.
    - Soil Testing & Fertilizer Recommendations for Crops during 17-21/02/2025; participants.
    - Isolation, Fractionation, Purification & Chemical Profiling of Essential Oils from Aromatic Plants 27/02/2025-03/03/2025; 13 participants.
  - Organised lab visits for:
    - PM Shri Kendriya Vidyalaya, No. 1 Cantt. Shahjahanpur during 05-07/02/2025; 180 participants.
    - PM Shri Kendriya Vidyalaya, IIT Kanpur on 12/02/2025; 130 participants.
    - PM Shri Kendriya Vidyalaya, Kanpur Nagar on 14/02/2025; 167 participants.
    - PM Kendriya Vidyalaya, Nanpara Bahraich on 17/02/2025; 52 participants.
    - PM Shri Kendriya Vidyalaya No. 2, Shahjahanpur during 20-21/02/2025; 96 participants.
    - PM Shri Kendriya Vidyalaya, Devaria on 24/02/2025; 68 participants.
    - PM Shri Kendriya Vidyalaya Hardoi during 25-27/03/2025; 211 participants.
- **CSIR-NEERI**
  - Organised Skill Development Training Programme on Analytical Instrumentation Techniques for Measurement of Environmental Contaminants on 19-20/02/2025.
- **CSIR-NGRI**
  - Organised Skill Development Training Programme on Groundwater Quality Monitoring and Assessment during 03-13/02/2025.



- **CSIR-NIIST**
  - Organised Skill Development Training Programme on 1G, 2G Ethanol and Bio fuels process, Development, Analysis, Opportunities and Pilot Scale Operation on 10-14/02/2025; 20 participants.
  - Organised Career Guidance Workshop for Govt Girls Higher Secondary School, Malayinkeezhu on 14/02/2025; 54 participants.
  - Organized Students-Scientists Interaction Programs for Christnagar Higher Secondary School, Kowdiar on 14/02/2025; 80 participants.
- **CSIR-NPL**
  - Organised lab visit for students on 14/02/2025; 15 participants.
  - Organised training programme on "Metrology in Chemistry (MiC)- Practical Training on ICP-MS to determine mass fraction of measured" during 17-19/02/2025.
- **CSIR-SERC**
  - Organised Skill Development Training Programmes on
    - Selected Aspects in Steel Design during 17-28/02/2025.
    - AI Assisted Techniques for Health Monitoring and Assessment of Special Structures during 27-28/02/2025; 28 participants.
- **CSIR-URDIP**
  - Conducted IP Training Programme for Scientists from CSIR-NAL, Bengaluru during 3-7/02/2025.

#### Conferences, Workshops, Major Events

- **CSIR Hqrs**
  - Organised AMRIT Lecture on "A Path Toward Sustainable Supply-chain-friendly Energy Storage" by Dr Arumugam Manthiram, George T. and Gladys H. Abell Endowed Chair of Engineering the University of Texas at Austin, USA on 27/02/2025.
  - Participated in Rise in India 2025 at HRIT University, Ghaziabad during 20-22/02/2025.
  - Participated in Bharat Development & Scheme EXPO at Prem Nagar Aashram, Haridwar, Uttarakhand during 21-23/02/2025.
  - Participated in Vibrant Haryana 2025 at Grain Market, Karnal, Haryana during 28/02/2025-02/03/2025.
- **CSIR-4PI**
  - Organised lecture at National Science Day by Dr. G C Anupama, Former Dean and INSA Senior Scientist, Indian Institute of Astrophysics, Bengaluru on 28/02/2025.
- **CSIR-CBRI**
  - Participated in the Bharat Development & Scheme Expo during 21-23/02/2025.
  - Released book "Meri Yojana – Kendra Sarkar" at Raj Bhawan, Dehradun contributed valuable inputs to the book, including information on R&D activities, skill development programs, vocational training for students, and various technologies.
  - Organised lectures on
    - "Sustainability in Civil Engineering" by Dr. Sujatha Manoj on 14/02/2025.
    - "Reconsidering Urbanization in the Tokyo Metropolitan Area Since the 1983 Great Kanto Earthquake: A Perspective on Exposure" by Dr. Osamu Murao on 25/02/2025.
- **CSIR-CCMB**
  - Organized EMBO meeting on Host and Pathogen Heterogeneity in Tuberculosis during 09-12/02/2025.
- **CSIR-CDRI**
  - Organised International Symposium on Current Trends in Drug Discovery Research (CTDDR) during 19-22/02/2025.

- **CSIR-CECRI**
  - Organised Talk on “Importance of Electron Repulsions” by Prof. S. Ramasesha, FASc, FNA, FTWAS, Honorary Professor and INSA Senior Scientist, SSCU, Indian Institute of Science, Bengaluru on 08/02/2025.
  - Organised seminar on "Advancing Metallurgy: Innovations and Sustainability" during 13-14/02/2025.
  - Organised lecture at National Science Day by Prof. S. Natarajan, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru on 28/02/2025.
  - Participated in Sivagangai Book Fair 2025 at Mannar Higher Secondary School, Sivagangai during 21/02/202-02/02/2025.
- **CSIR-CEERI**
  - Organized ESDM Skill Conclave 2025 on 19/02/2025.
- **CSIR-CGCRI**
  - Organised conference on Emerging Trends in Advanced Materials (ETAM 2025) during 06-07/02/2025.
- **CSIR-CIMAP**
  - Participated in
    - State Flower & Vegetable Show at Governor House, Lucknow during 08-10/02/2025.
    - State Flower and Vegetable Show at Company Bagh, Varanasi from 22-24/02/2025.
  - Vendor Development Programme at MSME-DFO, Kanpur from 17-18, Feb., 2025.
- **CSIR-CIMFR**
  - Organised Seminar with Mining Geological and Metallurgical Institute of India, Dhanbad on Technological Advancements for Sustainable Mining and Exploration during 31/01/2025-01/02/2025; 286 participants.
  - Organised lab visit for PM Kendriya Vidyalaya, Gomoh on 27/02/2025; 210 participants.
- **CSIR-CLRI**
  - Participated in India International Leather Fair (IILF) 2025, held at Chennai Trade Centre during 01-03/02/2025.
  - Organised Leather Research – Industry – Government (LERIG) Conclave on 02/02/2025.
  - Participated in the Delhi International Leather Expo (DILEX 2025) during 20-21/02/2025.
- **CSIR-CRRI**
  - Organised ICC Conference 2025 on Emerging Technologies Redefining Highways, Rural Roads and Infrastructure on 07/02/2025.
  - Participated in Rise in India 2025 – The Mega Exhibition at HRIT University, Ghaziabad during 20-22/02/2025.
  - Organised workshop on AVCC Systems: Technologies, Applications & Future Trends on 28/02/2025.
- **CSIR-CSIO**
  - Organised Youth Space Conference with World Space Council, Kurukshetra during 17-19/02/2025.
- **CSIR-CSMCRI**
  - Participated in the Global CSR & Philanthropy Summit 2025 at Ganpat University, Mehsana, (Guj) on 07/02/2025.
- **CSIR-IGIB**
  - Organised National Science Day Celebrations on 28/02/2025.
- **CSIR-IHBT**
  - Organized Tulip Festival & National Symposium on Ornamental Bulbous Flowers at the CSIR-IHBT, Palampur during 18-19/02/2025.
  - Organised National Science Day Celebrations on 28/02/2025.
  - Organized workshop
    - Deep Bioinformatics Bootcamp Season 2 during 18-21/02/2025.
    - High Elevation Plant Adaptation in a Changing Climate (HEPACC) during 25-28/02/2025.
- **CSIR-IICB**
  - Organised lecture on

- Next-Generation CAR T Cells and In Vivo Approaches: Advancing Efficient Delivery and Long-Term Persistence by Dr. Tanveer Ahmad, Cellogent Pvt Ltd and Assistant Professor at JMI on 10/02/2025.
- Functional Foods for Cardioprotection, Cancer, and Lifestyle Diseases by Dr. Asim K. Duttaroy, Oslo Medical University, Norway on 27/02/2025.
- Decoding epigenetic and mitochondrial memory and plasticity by Prof. Ullas Kolthur-Seetharam, Director, CDFD, Hyderabad at National Science Day on 28/02/2025.
- **CSIR-IICT**
  - Organised annual festival "SAMYUKTH-2025" on 12/02/2025.
  - Organised Indo-Pharma Connect(IPC) on 11/02/2025.
  - Participated in the National Science Day celebrations at Rashtrapati Nilayam, Bolaram during 27-28/02/2025.
- **CSIR-IIP**
  - Organised National Workshop on Advanced Carbon Materials for Next Generation Energy Solution (NWCM 2025) during 20-21/02/2025.
  - Organised National Science Day Celebrations on 28/02/2025.
  - Participated in
    - Bharat Development & Scheme Expo at Uttarakhand during 21-23/02/2025.
    - Science Festival Exhibition at RSC Vigyan Dham, Dehradun on 27-28/02/2025.
- **CSIR-IITR**
  - Organised lecture on Experience Sharing: 50 Years in 50 Minutes by Padma Shri Dr. Ram Chet Chaudhary, the Chairman of the Participatory Rural Development Foundation (PRDF) on 04/02/2025.
- **CSIR-IMMT**
  - Organised International conference on thermal spray during 21-23/02/2025.
- **CSIR-NAL**
  - Participated in Aero India 2025 during 10-14/02/2025.
  - Organised National Science Day Celebrations on 28/02/2025.
- **CSIR-NBRI**
  - Organized 'Information Session' on EU-India cooperation opportunities: Marie Sklodowska-Curie Actions (MSCA) Staff Exchanges scheme on February 07/02/2025.
- **CSIR-NGRI**
  - Participated in
    - Vigyan Vaibhav - 2025 at Gachibowli, Hyderabad during 28/02/2025-01/03/2025.
    - Annual Regional Food, Vegetable and Flower Exhibition at Raj Bhavan during 7-9/02/2025.
- **CSIR-NIIST**
  - Organised lecture on National Science Day by Prof. Rohit Srivastava, Vigyan Shri 2024 awardee and Himanshu Patel Chair Professor, IIT Bombay on 28/02/2025.
  - Commissioned "Sṛjanam" – a Biomedical Waste Conversion Rig, enabling research-based point-of-care validation for sustainable healthcare waste management at AIIMS, New Delhi, Inaugurated by Dr. Jitendra Singh ji, Hon'ble Minister for Science & Technology, in the esteemed presence of Dr. V. K. Paul ji, Hon'ble Member, NITI Aayog on 10/02/2025.
- **CSIR-NISCPR**
  - Organised workshop with the Indian Women Scientists' Association on "Empowering Girls for Participation in STEM: Fostering Awareness for Inclusive Education" on 11/02/2025; 80 participants.
- **CSIR-NML**
  - Organised Industrial Conclave on Maritime Corrosion Monitoring and Management (MCMM-2025) at Marine Corrosion Research Station (MCRS), Digha, West Bengal on 28/02/2025.
  - Organised International Conference on Corrosion and Coatings (iC3), at Jamshedpur from 6-7/02/2025.

## Visit of high level dignitaries

- **CSIR-CCMB**
  - Dr Rajesh Gokhale, Secretary, DBT visited for EMBO meeting on Host and Pathogen Heterogeneity in Tuberculosis.
- **CSIR-CEERI**
  - Shri Haribhau Bagde, Honorable Governor, Rajasthan visited for the EDSM Skill Conclave 2025 event on 19/02/2025.
- **CSIR-CGCRI**
  - Prof. Dipankar Banerjee, Padma Shri Awardee, IISc, Bangalore, visited to deliver 3rd Platinum Jubilee Distinguish Lecture, on 07/02/2025.
- **CSIR-CLRI**
  - Dr. Dirk weichgrebe from Leibniz University, Hannover, Germany, Project investigator of Indo-German projects, visited during 20-21/02/2025.
- **CSIR-CRRI**
  - Shri Nitin Gadkari ji, Hon'ble Minister of Road Transport & Highways, Govt. of India visited to launch "REJUBIT" on 06/02/2025.
  - Delegation from Nepal Academy of Science and Technology (NAST) visited on 19/02/2025.
- **CSIR-CSIO**
  - Sh. Tarun Kapoor, Advisor to the PM & Sh. Hari Ranjan Rao, Addl. Secy, PMO India
- **CSIR-IHBT**
  - Hon'ble Minister Science & Technology and Ministry of Earth Sciences, and Vice-President CSIR, Dr. Jitendra Singh, visited as Chief guest of the EMBO international workshop and Industry, Farmer & Academia meet during 25-28/02/2025.
- **CSIR-IICT**
  - Israeli Delegation from DDR&D and Red C, Biotech visited on 26/02/2025.
- **CSIR-IITR**
  - Padma Shri Dr. Ram Chet Chaudhary, the Chairman of the Participatory Rural Development Foundation (PRDF), Gorakhpur visited to deliver lecture 04/02/2025.
- **CSIR-NGRI**
  - Jonathan Pearce., Research Geoscientist & John Williams, Team Leader from British Geological Survey visited for discussions related to Mission Innovation 2.0 Project.

## Honours/ Awards

- **CSIR-CDRI**
  - Dr. Monika Sachdeva, Senior Principal Scientist from Division of Endocrinology received Dr. Mridula Kamboj Memorial Oration Award 2025.
- **CSIR-CEERI**
  - Dr. Neeraj Kumar, Senior Principal Scientist has been selected for the prestigious 'IEEE-Vacuum Electronics Young Scientist Award 2025.
- **CSIR-CLRI**
  - Dr Yasmin Khambhaty, Principal Scientist, received the "People's Choice Award".
- **CSIR-CRRI**
  - CSIR-CRRI team Received Build India Infra award for Innovative Technology of Development of Bio Bitumen from Rice straw.
- **CSIR-CSIO**
  - Dr. Ranjan Jha has been awarded the prestigious ICMR DHR Long-Term Fellowship
- **CSIR-CSMCRI**
  - Dr. (Mrs.) Moutusi Manna, Principal Scientist is featured as a Women Achievers in a book entitled "SHE IS: Women in Chemistry", by Beyond Black in collaboration with the Office of the Principal Scientific Adviser, Government of India, and the Royal Society of Chemistry.
- **CSIR-NAL**
  - Dr S T Aruna, Chief Scientist received the Thermal Spray Excellence Award on 21/02/2025.

- **CSIR-NIIST**
  - Dr Rakhi R B selected as Woman Achiever in Science 2025 from St. Teresas College Ernakulam.
  - Dr Jubi John was selected as one of the Thieme chemistry journals awardees for 2025.
- **CSIR-NPL**
  - Sh. Anurag Katiyar, Senior Technical Officer was selected as Senior Member of Indian National Academy of Engineering (INAE)

### **DEPARTMENTAL ACTIVITIES**

DSIR is the nodal department for granting recognition to in-house R&D units established by corporate companies, Scientific and Industrial Research Organizations (SIROs) and registration to Public funded research Institutions like universities, IIT's, IISc, Regional Engineering College (RECs) other than hospitals. R&D units recognized by DSIR are eligible for customs duty and weighted tax deductions on R&D expenditures by Industry.

### **Industrial R&D Promotion Programme (IRDPP)**

#### **Recognition/ Registration and renewal of In-house R&D in Industry**

- 52 in-house R&D units of industries were granted renewal of Recognition & renewal of Registration certificates.

#### **Public Funded Research Institutions (PFRI)**

- 3 PFRIs were granted renewal of Registration Certificates

**DSIR Central Sector scheme 'Industrial Research and Development (IRD)'** comprises of the four sub-schemes (i) Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM), wherein financial assistance is extended to independent innovators for converting innovative ideas into demonstrable working models / prototypes / processes that may take the form of new or improved products, processes, or services; and assist them to become incubatees / techno-entrepreneurs, (ii) Patent Acquisition and Collaborative Research and Technology Development (PACE), wherein support shall be provided to industries and institutions for development and demonstration of innovative technologies, (iii) Building Industrial R&D and Common Research Facilities (BIRDF), wherein support shall be provided for creation of Common Research and Technology Development Hubs (CRTDH) for use by entrepreneurs and industries and (iv) Access to Knowledge for Technology Development and Dissemination (A2K+) wherein studies and conferences in upcoming areas of industrial research shall be taken up besides undertaking a Technology Development and Utilization Programme for Women (TDUPW).

### **Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM)**

One Innovation Project "Copper Coated Multifunctional Cotton Fabrics" has been successfully completed during the month under PRISM programme of the Department.

### **A2K+ Studies:**

A One day Stakeholders meeting/workshop on "Role of ICT Tools in learning for children with Autism Spectrum Disorder (ASD)" was organized under the study "A Study of the Usability and Accessibility of Various ICT Tools related to English Language Speaking and Reading Skills of Children with Autism Spectrum Disorder (ASD)" was held on 21<sup>st</sup> February, 2025 at Malviya National Institute of Technology (MNIT), MNIT Campus, Jaipur.

## **A2K+ Events:**

The following events were successfully organized:

- A international conference on Hydrogen conclave (HYCON) -2025 was organized by Center for Renewable Energy & Storage, Suresh Gyan Vihar University, Jaipur during 10-14 Feb, 2025.
- XIII Annual International Conference of Indian Academy of Biomedical Sciences -2025(IABSCON-2025) was organized by Department of Biochemistry, AIIMS, Bhopal during 11-13 Feb 2025.

## **Technology Development and Utilization Program for Women - TDUPW/A2K+:**

Around 275 Women Beneficiaries were trained during the month of February, 2025 in the field of Sericulture, Aquaculture, food fortification and processing, Ready to Eat food preparation & packaging, paper recycling, handicraft/handloom, agri-technology under various on-going projects supported.

## **Asian & Pacific Centre for Transfer of Technology (APCTT)**

Organized event on “Fostering regional Cooperation building partnerships between scientific and research councils in the Asia Pacific region’ at 12<sup>th</sup> Asia Pacific Forum on Sustainable Development (APFSD) on “Advancing Sustainable, Inclusive, Science and Evidence based solutions for the 2030 Agenda and its SDGs for leaving no one behind in Asia and the Pacific” held on 25-28 February 2025.

## **PUBLIC SECTOR ENTERPRISES**

### **Central Electronics Limited (CEL)**

CEL is an Enterprise under DSIR having an objective to commercially exploit the indigenous technologies developed by national labs and R&D institutions in the country. CEL has developed a number of products through its own R&D efforts and continues to emphasize its leading role in the area of solar photovoltaic systems, electronic gadgets for Railway and other strategic electronic equipment/components among others.

- The company manufactured electronic components/systems/SPV products worth Rs. 2188.04 lakhs during the month.
- Sale of electronic components/systems/SPV products worth Rs. 2508.99 lakhs was realized during the month.

### **National Research Development Corporation (NRDC)**

The Corporation continued to lay emphasis on broadening and strengthening the technology resource base by nurturing long-term relationships with R&D institutions, Universities as well as industry.

- The Corporation licensed following two technologies:
  - Herbal Toothpaste to M/s. Dehlvi Naturals
  - Navrakshak PPE Suits to M/s. Mafatlal Industries
- The Corporation signed following MoA /MoU for Technology licensing and providing IPR assistance:
  - IIT, Palakkad
  - Foundation for Indian Biotech MSME's and Startup
  - NIT, Agartala

- ILS, Bhubaneswar
- Govt. of Odisha, Department of Skill and Technical Education
- The Corporation hosted Dr. V.K. Singh, Sr. Adviser, NITI Aayog who was briefed about the various activities being undertaken by NRDC and proposed projects.
- NRDC hosted high level delegation from Israel for collaboration and to bring together stakeholders from India and Israel to drive innovation.

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