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  - "Hydrogen Energy from renewable resources and circular economy" on 24th July 2023
  - Food Microbiology and Food analysis from 31.07.2023 to 04.08.2023 in collaboration with FICSI
- **CSIR-NIO**
  - Conducted a laboratory visit and hands-on training on "Elementary Laboratory Practices in Oceanography" for school students on 27 June 2023. 30 students from government schools (GHSS Edapally, GHSS Elamkunnappuzha, and HSS JESUS Kothad) were trained in basic principles and practices in ocean sciences.
  - Celebrated National Intellectual Property Festival during July 13 – 14, 2023, conducting workshops on the theme "Protection & management of Intellectual Property Rights" for students & faculties of the institute as well as at different colleges in Goa.
- **CSIR-NML**
  - Organized One day Visit for DBMS Kadma, Xavier English School, Tamulia and Xavier Public School, Kitadih on 14<sup>th</sup> July, 2023. 198 students trained.
  - Organized One day Visit for Jamshedpur Public School -Baridih, Kasidih High School and BPM High School on 21<sup>st</sup> July, 2023. 205 students trained.
  - Organized Intellectual Property (IP) Awareness Programme with the theme-IP life Cycle under the CSIR's IP Campaign- Celebration of "Rashtriya Boudhik Sampada Mahotsava (National Intellectual Property Festival)".
- **CSIR-SERC**
  - Jointly organized with CMC the "Climate Clock Installation" programme on 11th July 2023 at Sri Sankara Vidyashramam Matriculation Higher Secondary School, Thiruvannamiyur, Chennai, Senior Principal Scientist, CMC-CSIO Chennai Unit, delivered a lecture about climate change & its importance to the students, and also demonstrated to the students the assembly, display of the Climate Clock and installation. 250 Students and 15 Teachers participated.
  - Organized Customized Short-Term course for officials of National Thermal Power Corporation Limited (NTPC Ltd) and Indian Oil Corporation Limited (IOCL) on:
    - Geotechnical Investigations during 03 - 07 July 2023. 18 participated.
    - Steel Structures during 17-20 July 2023. 25 participated.
  - Organized Stakeholder Meeting for Army, academia, Defence laboratories, representatives from CSIR Headquarters and private industries on:
    - MLP-220, High Velocity Multi-hit Resistant Movable Protective Booth/Shack for Security Personnel (FTT Project) on 24 July 2023.
    - OLP-223, Bio-Inspired Functionally Graded Cementitious Composite Panels for Enhanced Impact Resistance on 24 July 2023.
    - OLP-227, Sustainable and Reliable Steel Lattice Structures - SaRSS on 28 July 2023. In total 66 participants representing line ministry, research council, academia, standardization and industry (manufacturers, design offices, contractors) had joined.
- **CSIR-URDIP**
  - Dr. Kishore Sreenivasan, Head, CSIR-URDIP delivered a keynote lecture on "IP Value- The 'Portfolio' Perspective" at CSIR-CIMAP on 24th July 2023 as part of "National Intellectual Property Festival"
  - Conducted 2-day IP Filing Review Meeting by staff of CSIR URDIP and CSIR-IPU. Dr. Kishore Sreenivasan, Head, CSIR-URDIP along with his team visited CSIR-CIMAP from 25-26 July 2023 and reviewed the progress in IP filing & addressed queries on patentability criteria, techno-commercial evaluation & inventions.

- Dr. Sivakami Dhulap, Sr. Principal Scientist, delivered an invited talk on "Patents and Patent Practices –The Patinformatics Homework" as part of the workshop on "Intellectual Property Management: Generation, Protection and Commercialization" at CSIR-CIMFR, Dhanbad on 31st July 2023.

## Major Conferences, Seminar/Webinars, Workshops organized

- **CSIR-Hqrs.**

- CSIR-Central Food Technological Research Institute(CSIR-CFTRI), Mysore organized One Week One Lab (OWOL) campaign from 3-7 July, 2023; CSIR-Fourth Paradigm Institute(CSIR-4PI), Bengaluru from 10-15 July, 2023; CSIR-Central Road Research Institute(CSIR-CRRI), New Delhi from 16-22 July, 2023; CSIR-Central Electro Chemical Research Institute (CSIR-CECRI), Karaikudi, TamilNadu from 24-29 July, 2023.
- CSIR organized third lecture of the CSIR AMRIT Lecture Series on 31 July, 2023. The Lecture on "CSIR Racing One Hundred: Challenges and Opportunities" delivered by Dr. Swaminath Sivaram, Honorary Prof. Emeritus and INSA Emeritus Scientist IISER, Pune & Honorary Prof., IISER, Kolkata.
- CSIR and its lab participated in the Food & Technology Expo-2023 at Pragati Maidan, New Delhi during 21-23 July, 2023. Labs participated were CSIR-IHBT, CSIR-CFTRI.

- **CSIR-CECRI**

- Organized One Week One Lab (OWOL) campaign from 24-28, July 2023. Eminent personalities, Scientists, Technologists, Speakers of high repute and caliber, Researchers, Students, Entrepreneurs, Licensees and the public took part in this event.
- Celebrated 76th Foundation Day.

- **CSIR-CEERI**

- Organized Intellectual Property Awareness Workshop during National Intellectual Property Festival from 11-12 July 2023. 650 students participated.
- Participated in Ujwal Rajasthan Exhibition at Udaipur, 27-29 July 2023. CSIR Bagged the best informative stall award.

- **CSIR-CLRI**

- Organized National level workshop on "Statistics and Data Analytics using SPSS Software" on 5th July 2023. 100 candidates participated.
- Organized a Seminar on Biomedical Materials on 18 July 2023. Professor Elżbieta Pamuła delivered a lecture on 'Multifunctional biomaterials for tissue engineering and drug delivery'.
- Organized a dissemination workshop on 'Sustainable treatment of organic fractions of municipal solid waste for smart cities' on 19 July 2023. Prof. Dirk Weichgrebe, Leibniz university, Hannover, Germany and Dr S V Srinivasan, Senior Principal Scientist, CSIR-CLRI, Project investigators presented the outcome of the Indo-German projects funded by the IGSTC.

- **CSIR-CMERI**

- Organized High-end workshop (SERB Karyashala) on:
  - Internet-of-thing (IoT) and Artificial Intelligence (AI) and its Industrial Applications; June 26-July02, 2023.
  - Artificial Intelligence (AI) Assisted Surveillance and Security: Accelerating Collaborative Public Safety; July 22-29, 2023.

- **CSIR-CRRI**

- Organized One Week One Lab (OWOL) Campaign during July 16-22, 2023, the following events / workshops were organized at different cities across India.
  - Curtain Raiser at CSIR-IGIB Auditorium, New Delhi on July 16, 2023
  - Student Scientists' Connect at CSIR-CRRI, New Delhi on July 17, 2023
  - Industry Meet at CSIR-CRRI, New Delhi on July 18, 2023
  - Young Researchers Conclave at CSIR-CRRI, New Delhi on July 19, 2023
  - Engaging with State Government at Convention Centre, Lokaseva Bhavan, Bhubaneswar on July 20, 2023
  - Next Generation Transport at IIIT-Hyderabad, Hyderabad on July 21, 2023
  - Mobility @ North East at NEC Auditorium, Shillong on July 22, 2023
- **CSIR-IICT**
  - In association with Luminescence Society of India (LSI), Organized an International conference on Luminescence and its applications (ICLA 2023) during 3rd July to 6th July, 2023. The conference mainly focused on Luminescence Materials and its applications to Optoelectronics such as photovoltaics, OLEDs, FETs, etc. and Biological applications such as Bio imaging and Cancer therapy etc.

### **Visit of high-level dignitaries to the Institute/Laboratory**

- **CSIR-CBRI**
  - Prof Venkatesh Kodur, Michigan State University delivered a lecture under CSIR-CBRI Expert Lecture Series at the Rabindranath Tagore Auditorium, CBRI on July 17, 2023 on "Condition Assessment and Refurbishment of Fire Damaged Structures: From Reconnaissance to Advanced Analysis".
- **CSIR-CDRI**
  - Shri. S Gopalakrishnan, Special Secretary (Health), Ministry of Health visited on 25th July-2023.
- **CSIR-CFTRI**
  - Mrs. Shubha Sarma, IAS, Commissioner-cum-Secretary, Women & Child Welfare Dept., Govt. of Odisha along with officials visited on 25.07.2023 to discuss the possible collaboration for improving the Take Home Ration of ICDS scheme.
- **CSIR-CIMFR**
  - Ms. Volha Roshchanka, Co-Chair (Coal Mines Subcommittee), Global Methane Initiative (GMI) from US Environmental Protection Agency and Mr. Jonathan Kelafant, Sr Vice President at Advanced Resources International, USA visited during 13-14 July, 2023.
- **CSIR-CLRI**
  - Shri Dhammjyoti Gajbhiye IPoS, Managing Director, Leather Industries Development Corporation of Maharashtra LIDCOM & other delegation members visited on 04 July 2023.
  - German delegates from Leibniz University, Hannover (LUH) visited on 20 July 2023. The President of Leibniz University, Prof. Dr. Volker Epping along with his delegates met Dr K J Sreeram, Director, CSIR-CLRI & Dr N Anandavalli, Director, CSIR-SERC and discussed about the Indo-German projects and future opportunities for collaboration.
- **CSIR-CRRI**
  - Dr. Jitendra Singh, Hon'ble Minister of State (Independent Charge) in the Ministry of Science & Technology, Govt. of India was the Chief Guest of One Week One Lab Campaign event/ workshop on "Student Scientists' Connect" on July 17, 2023.

- Dr. V.K. Saraswat, Member NITI Aayog, Govt. of India and Chancellor, Jawaharlal Nehru University visited during One Week One Lab (OWOL) Campaign event/ workshop on “Curtain Raiser” on July 16, 2023.
- Shri Faggan Singh Kulaste, Hon’ble Minister of State in the Ministry of Steel, Govt. of India visited CSIR-CRRI as Chief Guest of CSIR-CRRI One Week One Lab Campaign event/ workshop on “Industry Meet” on July 18, 2023.
- Mrs. Ruchika Chaudhry Govil (IRS), Add. Secretary (Minister of Steel) visited CSIR-CRRI to be the Chief Guest for CSIR-CRRI One Week One Lab Campaign event titled “Industry Meet” on July 18, 2023.
- **CSIR-IIIM**
  - Union Minister of State (Independent Charge) Science & Technology; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh visited on 23-07-2023
  - Cannabis Subcommittee of HP government comprising of Sh. Kewal Singh Pathania, Hon. MLA, Dr. Janak Raj, Hon. MLA, Sh. M Rajan Hon. MLA, Dr. Rajeev Dogra, Addl. Commissioner State Taxes & Excise, Prof. RajanKatoch, Scientist HPAU visited on 25th & 26th July 2023.

#### **COVID related developments/research**

- **CSIR-CSMCRI**
  - Developed a process to prepare Air separation grade Zeolite X granules with nitrogen adsorption capacity comparable with commercially available adsorbents for industrial and medical grade oxygen generation from air.
- **CSIR-NEIST**
  - Under the project entitled with "Spatiotemporal Dynamics of SARS-CoV-2 Variants in Wastewater Systems in Northeast India through Genomic Surveillance and Epidemiology for Forecasting its Spread “; CSIR-NEIST has been carried out the wastewater-based surveillances for SARS-CoV-2 from different wastewater bodies of Jorhat District. In the month of June-July 2023; 50 wastewater samples have been collected from different parts of Jorhat District and all samples have been tested negative.
  - Establishment of the protocol for Wastewater based detection of SARS-CoV-2 and the target-based genome sequencing.
  - Genome sequencing activities are in progress. However, during the month of July there is no samples received for sequencing.

#### **Details of events celebrated to mark India@75 or Azadi Ki Amrit Mahotsav / 75 Years of Indian Independence**

- **CSIR-CBRI**
  - An Intellectual Property (IP) awareness programme was conducted for school students to educate them about the significance of IP rights and their role in fostering creativity and innovation:
    - Army Public School, Meerut on 28.07.2023 (417 students and 9 faculty members participated).
    - Scholars Academy, Roorkee (304 students and 8 faculty members participated).
- **CSIR-CDRI**
  - A workshop on Introduction to Patent Search Platform Orbit Intelligence was organized by KRC, CSIR-CDRI in association with @ Questel\_Group to celebrate Rashtriya Bauddhik Sampada Mahotsav (RBSM).

- **CSIR-CECRI**
  - CSIR-CECRI in association with Society for Advancement of Electrochemical Science & Technology (SAEST) organized a monthly Lecture Series on 'Electrochemical Science and Technologies: A Path Forward to Sustainable Society'. Following lectures organized during July 2023:
    - Prof. Sangaraju Shanmugam, Professor, Department of Energy Science & Engineering, Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea delivered a lecture on "Nanostructured Materials for Green and Sustainable Future Energy Technologies" on 4th July, 2023
    - Prof. Balaji Subramanian, Department of Physics and Astronomy, Trent University, Peterborough, Canada delivered a lecture on "Electrochromic and photochromic Materials / Devices" on 6th July, 2023.
    - Celebrated 75th Foundation Year of "CSIR-CECRI's In-House Symposium" was initiated, an annual event, in which Scientists of all divisions presented their R&D work. The first In-House Symposium was held during 07.07.2023 (Day 1) and 14.07.2023 (Day 2).
    - IP Campaign - Celebration of "Rashtriya Boudhik Sampada Mahotsav" (RBSM) across CSIR laboratories: CSIR-CECRI conducted the One-day programme on IP awareness.
- **CSIR-CRRI**
  - As part of National Intellectual Property Festival 2023 under Azadi Ki Amrit Mahotsav, CSIR-CRRI organized the following lectures on:
    - "Basics of Intellectual Property Rights" on July 17, 2023.
    - "Technology Development Conundrum: Researcher's Perspective" on July 19, 2023.
    - "Intellectual Property- What, Why and How?" on July 19, 2023.
    - "Competing through Intellectual Property Rights (IPR)" on July 28, 2023.
- **CSIR-CSIO**
  - CSIR-CSIO and CSIR-IMTECH jointly organised an IPR Awareness program as part of Azadi Ka Amrit Mahotsav (AKAM)- IP Campaign – Celebration of "Rashtriya Boudhik Sampada Mahotsav" during July 11-12, 2023.
- **CSIR-IMMT**
  - National Intellectual Property Festival (NIPF) under Azadi Ka Amrit Mahotsav, CSIR – Institute of Minerals & Materials Technology (IMMT), Bhubaneswar, flagged off "CSIR- IP Rath" on July 17th, 2023, to unleash the IP knowledge to greater masses. The two-week CSIR-IP Rath Yatra covered schools, colleges, institutions, universities, MSME, local villages and industrial units within the proximity of about 100 km from Bhubaneswar.
- **CSIR-IHBT**
  - Celebrated "Azadi Ka Amrit Mahotsav – Rashtriya Boudhik Sampada Mahotsav/National Intellectual Property Festival", from 21-28 July, 2023.
  - Senior Scientist, CSIR-IMMT, Bhubaneswar delivered a lecture on "The IP Spectrum - An Overview" on 21st July, 2023. The program was attended by students, scholars and trainees.
  - Director, IHBT flagged off IP Awareness Campaign to schools and colleges being organized under AKAM-Rashtriya Boudhik Sampada Mahotsav.
  - Scientists and scholars from CSIR-IHBT apprised school children of Jawahar Navoday Vidyalaya, Paprola on 25.07.2023 about IPR and showcased technologies developed by the Institute.
- **CSIR-IICT**



- Celebrated the successful commencement of commercialization of Hydrazine Hydrate (HH) by GACL on 19th July 2023. GACL and CSIR-IICT, Hyderabad, have jointly received patents from India and the USA for the indigenous process to manufacture Hydrazine Hydrate (H<sub>6</sub>N<sub>2</sub>O). A commercial plant of 10,000 TPA 80% Hydrazine Hydrate was designed by CSIR-IICT and was established by GACL at their Dahej complex.
- Dr. Irfan Khan, Senior Scientist, Dow Chemical Company, TEXAS, USA, delivered a talk on 'Product and Process Development in Chemical Industry to Meet Sustainability Needs' on 26th of July 2023.
- Dr. Srinivas Banala, Group Leader for Probe Design from Institute for Experimental Molecular Imaging, University Hospital RWTH Aachen, delivered a talk on "Development of Bright and Black Dyes for Molecular Imaging Applications" on 24th July, 2023.
- **CSIR-IIIM**
  - Conducted 6 days IP Festival program from July 17-24, 2023 to promote knowledge sharing, collaboration, and the protection of intellectual property rights in the Pharma, Traditional Knowledge & Agrotech industry and 2000 participants attended this event. The following events were organized:
    - Pharma IP conference (Hybrid Mode) on “Shaping the Intellectual Property Landscape in Drug Innovation” on July 17, 2023.
    - Agrotech IP Conference on “Nurturing Innovation and Intellectual Property in Plant Varieties and Agri-Startups” on July 18, 2023.
    - IPR Awareness Workshop for the students, scholars & faculty members of Government Women College, Parade Ground, Jammu was conducted on 19th July, 2023.
- **CSIR-NAL**
  - Role of IPR in Academia & Research for Engineering & Technology Students at East Point College of Engineering & Technology Bangalore on July 4, 2023
  - Importance of IP in R&D Institutions for employees of CSIR-NAL, at PBMD Seminar Hall, CSIR-NAL, 06th July, 2023
  - IP Literacy for Creative and Innovative India for School Students (11th & 12th Class) and Schools - Jigyasa Student Program, ASDC, CSIR-NAL, Bangalore on 21st July, 2023
  - Patenting from Inventor Perspective for Engineering & Technology Students at East Point College of Engineering & Technology Bangalore, 21st July, 2023
  - Need of IP Literacy for Academic and Research institutions, AI and Condition Monitoring, For Engineering & Management Students at Aryabhata Seminar Hall, K S School of Engineering and Management, Bangalore on 27th July, 2023
- **CSIR-NEERI**
  - One day intellectual Property Rights Awareness cum interactive programme on July 14.
- **CSIR-NEIST**
  - Online Awareness program on Promotion and Protection of Traditional Knowledge of NEIndia' organized on 14 July, 2023 on the occasion of National Intellectual Property Festival 2023.
  - Awareness program on Promotion and Protection of Traditional Knowledge of NEIndia' organized on 25 July, 2023 held at The Assam Kaziranga University on the occasion of National Intellectual Property Festival 2023.
- **CSIR-NIIST**

- IPR Seminar in view of National Intellectual Property Festival being conducted at CSIR NIIST on 26th July 2023
- Webinar on IP awareness at Lourdes Matha College of Science & Technology on 29th July 2023
- Lecture on IP awareness at CSIR-CECRI, Karaikudi on 17th July 2023
- Lecture on IP awareness at Sree Chitra Thirunal College of Engineering, Pappanamcode on 11th July 2023

## **DEPARTMENTAL ACTIVITIES**

DSIR's mandate is to promote Industrial Research and Development besides technology promotion, development and utilization. In order to promote and nurture Research and Development in the country, Industrial R&D Promotion Programme of the department gives recognition and registration to in-house R&D units of industries, not for profit Scientific and Industrial Research Organizations (SIROs), Public Funded Research Institutions (PFRI) and periodically renews these recognition / registration under the respective Government Notifications (as amended from time to time), by virtue of which these organizations are able to obtain Customs duty exemptions and Weighted tax deductions on R&D by Industry (under section 35(2AB) of IT Act). This scheme helps in encouraging industrial R&D in the country.

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

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

- 2 in-house R&D units of industries were granted Fresh Recognition and 2 were granted Registration certificates.
- 85 in-house R&D units of industries were granted Renewal of Recognition and 92 were granted renewal of Registration certificates.

#### **Scientific and Industrial Organization (SIRO)**

- 4 SIROs were granted Fresh Recognition and 2 were granted Registration Certificates.

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

- 5 PFRI were granted renewal of Registration certificates.

#### **Fiscal Incentives for Scientific Research u/s 35(2AB) of ITAct 1961**

Under the aegis of Azadi Ka Amrit Mahotsav (AKAM) to mark the 75 years of India's Independence, Department of Scientific and Industrial Research (DSIR) & Department for Promotion of Industry and Internal Trade (DPIIT) along with the partners Council of Scientific and Industrial Research (CSIR), O/o Controller General of Patents, Designs, and Trade Marks (CGPDTM), Protection of Plant Variety and Farmers' Rights Authority (PPVFRA), National Research Development Corporation (NRDC) and Sanrachna Foundation launched a month-long celebrations of Rashtriya Boudhik Sampada Mahotshav (RBSM) - National Intellectual Property Festival from 1st July 2023 to 31st July 2023. The objective of RBSM was to bring in large scale awareness and highlight the importance of value creation therein using Intellectual Property and converting them into assets. The campaign was a focused, time bound, target led initiative to increase patent, trademark, copyright, GI, designs, layout of semiconductor, plant variety registration, etc. DSIR with NRDC organized five workshops on Intellectual Property Rights (IPRs) at National Sugar Institute, Kanpur on 6<sup>th</sup> July, 2023; Agharkar Research Institute (ARI), Pune on 14<sup>th</sup> July, 2023; Guwahati Biotech Park, Assam on 19<sup>th</sup> July, 2023; Andhra Pradesh Innovation Society (APIS), Vishakhapatnam on

20<sup>th</sup> July, 2023; and Tagore College of Arts and Sciences, Puducherry on 25<sup>th</sup> July, 2023. The workshops were attended by participants from Individual Innovators, Inventors, Research Scholars, members from Academia and R&D Institutes.

**DSIR Central Sector scheme 'Industrial Research and Development (IRD)'** comprise of the four sub-schemes i.e (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 (BIRD), 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 up-coming 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):**

7 innovation projects were reviewed and 2 projects were successfully completed during the period.

#### **Common Research and Technology Development Hubs (CRTDH) Scheme:**

##### **CRTDH –ChintanShivir-CRTDHs Empowering MSMEs was organized on 27<sup>th</sup> July 2023 at IIT Kharagpur**

The “Chintan Shivir-CRTDHs empowering MSMEs” was organized at the Common Research and Technology Development Hub (CRTDH) at IIT Kharagpur on the 27<sup>th</sup> July 2023. The event started with the Inaugural address of Secretary, Department of Scientific and Industrial Research (DSIR) and was focused on connecting MSMEs/Startups/Innovators with the cutting-edge facilities at CRTDH. The daylong event provided a platform for the MSMEs/Startups/Innovators to understand how these resources can bolster their capacity, enhance productivity, and drive forward innovation in the realm of affordable health solution.

#### **A2K+ Studies**

Project Guidance cum Review Committee (PGRC) meeting was conducted on 17<sup>th</sup> July, 2023 to review technical and financial progress of the study entitled “**Readiness and Interest of Organizations for Adopting Emerging Technologies like AI and ML**” conducted by Indian Institute of Technology, Indore (IIT-I). PGRC was chaired by Scientist-G & Head, A2K+ Studies and attended by DSIR officials, Expert members of PGRC from other academic institute and research institute.

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

Project Review Committee (PRC) meeting of TDUPW Project entitled “**Empowerment of women through silk and cocoon based handicrafts, (“Wealth from Sericulture waste”)** of Department of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh was held on 6<sup>th</sup> July, 2023 to review technical and financial progress of the project. PRC meeting was Co-Chaired by Scientist-G & Head, A2K+ TDUPW and attended by DSIR Officials, Expert Members of PRC from other academic institute and research institute.

Project Review Committee (PRC) meeting of TDUPW Project entitled “**Training of Rajasthan rural women on use of biofertilizer for crop productivity enhancement**” jointly of Amity Institute of Microbial Technology, Amity University, Noida and Arid Forest Research Institute (AFRI), Jodhpur, Rajasthan was held on 11<sup>th</sup> July, 2023 to review technical and financial progress of the project. PRC meeting was chaired by Scientist-G & Head, A2K+ TDUPW and attended by DSIR officials, Expert members of PRC from other academic institute and research institute.

174 Women Beneficiaries have been trained under the various ongoing TDUPW projects aiming women empowerment through technology deployment and dissemination.

## **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 in the country through its own R&D efforts and it 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. 835.38 lakhs during July 2023.
- Sale of items worth Rs. 1939.70 lakhs was realized during July 2023.

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

NRDC continues to lay emphasis on broadening and strengthening the technology resource base by nurturing long-term relationships with R&D institutions as well as universities, technical organizations, industries and individual inventors.

- National Research Development Corporation (NRDC) has licensed five new technologies on POSHAN: a Multi Nutrient Formulation for Correcting the Nutrient Deficiencies in Mulberry to M/s Anil Industries; Components of Met Ocean Buoy I to M/s NextEng Enviro Pvt. Ltd; Components of Met Ocean Buoy II to M/s NextEng Enviro Pvt. Ltd; Saline Water Lantern to M/s Saurashakthi; Multigrain Cereal-Legume Bar and Puffed Rice Bar to M/s Sanjeevani Foundation.
- NRDC has collected premia of Rs. 4.75 Lakhs from respective technologies during July 2023.
- A delegation of officials from the National Office for Technology Acquisition and Promotion (NOTAP), Nigeria visited NRDC headquarter in New Delhi on July 10, 2023 to explore Business opportunities of mutual interest.