

- **CSIR-CLRI**
 - Conducted one-week executive skill training programme on "Cleaner Technology and Pollution Reduction" under SIDBI- MSME Cluster Intervention Programme for the Chennai leather cluster during 23-27 May 2023. The first day of the programme was organized on the topic "Awareness of Sustainability in the Leather Sector" exclusively for 22 CEO/MDs of the tanneries under Pallavaram Tanners Association (PTA). The next four days of the programme was conducted for 23 mid-level managers from Pallavaram Tanners Association.
 - In collaboration with GRIMCO conducted a new skill upgradation program in Leather & Rexine Goods on 23 May 2023 at Mahisagar, Lunawada, Gujarat for the upliftment of rural artisans from the Scheduled Castes community. 25 female trainees had been trained.
- **CSIR-CMERI**
 - Analytical Techniques and Instrumentation for Water Quality Assessment; May 08-10, 2023
 - One day lab visit was organized for students of Durgapur project boys High school on:
 - 11.05.2023 and demonstration was given on Water parameters and its effect on health and also on Mining Robot. 24 students and 3 teachers participated.
 - 16.05.2023 and demonstration was given on SMART VILLAGE site for demonstration Water parameters and its effect on health and also on Internet of thing (IoT) and its Applications. 18 students and 3 teachers participated.
 - 18.05.2023 and demonstration was given on Solar energy and its Applications; Demonstration of Application of solar energy using solar Photo Voltaic cell; Water parameters and its effect on health. 26 students and 3 teachers participated.
 - Students of Durgapur Iswar Chandra Vidyasagar (DICV)PUBLIC HIGH SCHOOL visited on 23& 25, May 2023 and demonstration was given on the topic Solid Waste Management; Demonstration of Application of solar energy using solar Photo Voltaic cell; Water parameters and its effect on health. 46 students and 1 teacher participated.
 - Students of Jemua Bhadubala Bidyapith (High School), Durgapur visited on 26.05.2023 and demonstration was given on the topic Renewable Energy Systems also visited to the site of Cold storage System in CMERI Colony. 28 students and 3 teachers participated.
- **CSIR-CSIO**
 - Celebrated National Technology Day on 24th May, 2023. Two popular science lectures were presented by eminent scientists & quiz competition/prize distribution was conducted. 150 students of class X & 4 teachers have participated.
- **CSIR-CSMCRI**
 - Organized a Skill Development Training Program on Theory and practical aspects of household solar thermal gadgets. The program took place at Cotton University in Guwahati, Assam, with the aimed to benefiting farmers, NGOs, students and faculties. 80 participated.

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 (PFRIs) 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

- 52 in-house R&D units of industries were granted Renewal of Recognition and 59 were granted renewal of Registration certificates.

Fiscal Incentives for Scientific Research u/s 35(2AB) of IT Act 1961

An online stakeholder's brainstorming meeting on Fiscal Incentives (FI) with Pharma sector was organized successfully in DSIR on 3 May, 2023. The meeting was addressed by renowned scientific experts from CSIR, representatives from Department of Pharma, Industry associations – IDMA, IPA and others.

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 (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 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):

2 new innovation projects were sanctioned and 1 project was successfully completed during the period.

Patent Acquisition and Collaborative Research and Technology Development (PACE) Scheme:

DSIR supported PACE project on "Development and standardization of manufacturing process for large scale production of valuable secondary metabolites from callus-derived cells of vascular cambial

explants of selected woody plants species” was reviewed for successful completion.. The project demonstrated an alternative mechanism to produce secondary metabolites from plant explants.

Common Research and Technology Development Hubs (CRTDH) Scheme:

CRTDH - NIPER, SAS Nagar, Mohali (NIPER-M):

First PGRC meeting to review the financial and technical progress of CRTDH supported to NIPER-M was held on 16th May 2023. PGRC was chaired by the Scientist ‘G’ & Head-CRTDH (DSIR) and attended by Director-NIPER-M, DSIR officials and external members from other government agencies and team members of CRTDH from NIPER-M. PGRC deliberated on the progress of CRTDH-NIPER-M in detail and noted that the institute has allocated building space for CRTDH in the campus and has started the process of appointing consultant/agency for the commissioning of cGMP facility. PGRC appreciated the engagement of two MSEs in CRTDH at NIPER-M.

CRTDH-Indian Institute of Technology (IIT) Gandhinagar (GN), Gandhinagar:

The final PGRC meeting of CRTDH established at IIT-GN Gandhinagar was held on 18th May, 2023. The meeting was attended by Director IIT-GN, Dean Research IIT-GN and program division members. The final outcome of the CRTDH established was presented during the meeting. Based on the deliberations during PGRC meeting the Committee recommended successful completion of the project.

A2K+: Events

20th meeting of Technical Advisory Committee (TAC) was organized online on 9th May 2023 to discuss 5 new proposals for DSIR support. Two proposals namely (i) National conference of Gau-Vigyan in modern life and medical science submitted by Indian Institute of Technology Guwahati and (ii) Smart and Innovative Development in Science, Engineering & Technology submitted by Bhilai Institute of Technology, Durg, Chhattisgarh were recommended by TAC for DSIR support.

An event entitled “National Conference of Gau-Vigyan in Modern life and Medical Science” supported to Indian Institute of Technology, Guwahati was held on 20.05.2023 to 21.05.2023 at Indian Institute of Technology, Guwahati .

Technology Development and Utilization Program for Women (TDUPW):

177 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 for the first time 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. 800.09 lakhs during May 2023.
- Sale of items worth Rs. 770.40 lakhs was realized during May 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 3 technologies on LSM Tasar Rakshak to M/s Biosafe Hygenie; Seaweed extract fertilizer to M/s Lyfim Organics; Vijetha supplement powder technology to M/s. Anil Industries.
- NRDC has collected premia of Rs. 3.0 lakh from respective technologies during May 2023.