

दि लेदर पोस्ट The Leather Post

सीएसआईआर-केन्द्रीय चर्म अनुसंधान संस्थान
CSIR-Central Leather Research Institute



**Dr P Thanikaivelan Assumes Office as
Director, CSIR-CLRI**

Director's Message

Greetings and Namaskar to the Stakeholders of the leather sector



Dr K J Sreeram
Director, CSIR-CLRI

लेदर पोस्ट के प्रिय पाठको,

नुसंधान वास्तव में एक निरंतर यात्रा है, और प्रभावी अनुसंधान प्रबंधन को उस भावना को प्रतिबिंबित करना चाहिए। जैसे ही मैं डॉ. पी. तणिकैवलन को नेतृत्व की बागडोर सौंपता हूँ, मुझे विश्वास है कि उद्योग की सेवा करने की हमारी प्रतिबद्धता फलती-फूलती रहेगी। प्रत्येक छह वर्ष में नेतृत्व परिवर्तन नए विचारों को पेश करते हैं, जबकि अतीत के सफल मॉडलों पर निर्माण करते हैं। द लेदर पोस्ट का नवंबर संस्करण हमारे हितधारकों के लिए एक वादा है कि हम उनकी जरूरतों और राष्ट्र के विकास के लिए समर्पित हैं। डॉ. तणिकैवलन के मार्गदर्शन में,

सीएसआईआर-सीएलआरआई शिक्षा, अनुसंधान और उद्योग के बीच हमारी साझेदारी को और बढ़ाएगा। प्रधान संपादक के रूप में अपनी भूमिका का समापन करते हुए, मुझे सीएसआईआर-सीएलआरआई में महत्वपूर्ण अनुसंधान एवं विकास और सामाजिक पहलों के बारे में अपने हितधारकों को अद्यतित रखने में योगदान करने पर गर्व है। इस नए अध्याय में डॉ. पी. तणिकैवलन का स्वागत करने में कृपया मेरा साथ दें!

धन्यवाद और जय हिंद!

Research is truly a continuous journey, and effective Research Management should reflect that spirit. As I pass the leadership baton to Dr. P. Thanikaivelan, I am confident that our commitment to serving the industry will thrive. Leadership transitions every six years introduce fresh ideas while building on the successful models of the past. The November edition of *The Leather Post* serves as a promise to our stakeholders that we are dedicated to their needs and the nation's growth. Under Dr. Thanikaivelan's guidance, CSIR-CLRI will further enhance our partnerships between academia, research, and industry. As I conclude my role as Editor-in-Chief, I feel proud to have contributed to keeping our stakeholders informed about the vital R&D and social initiatives at CSIR-CLRI.

Please join me in welcoming Dr. P. Thanikaivelan to this new chapter!

Thank you, and Jai Hind!

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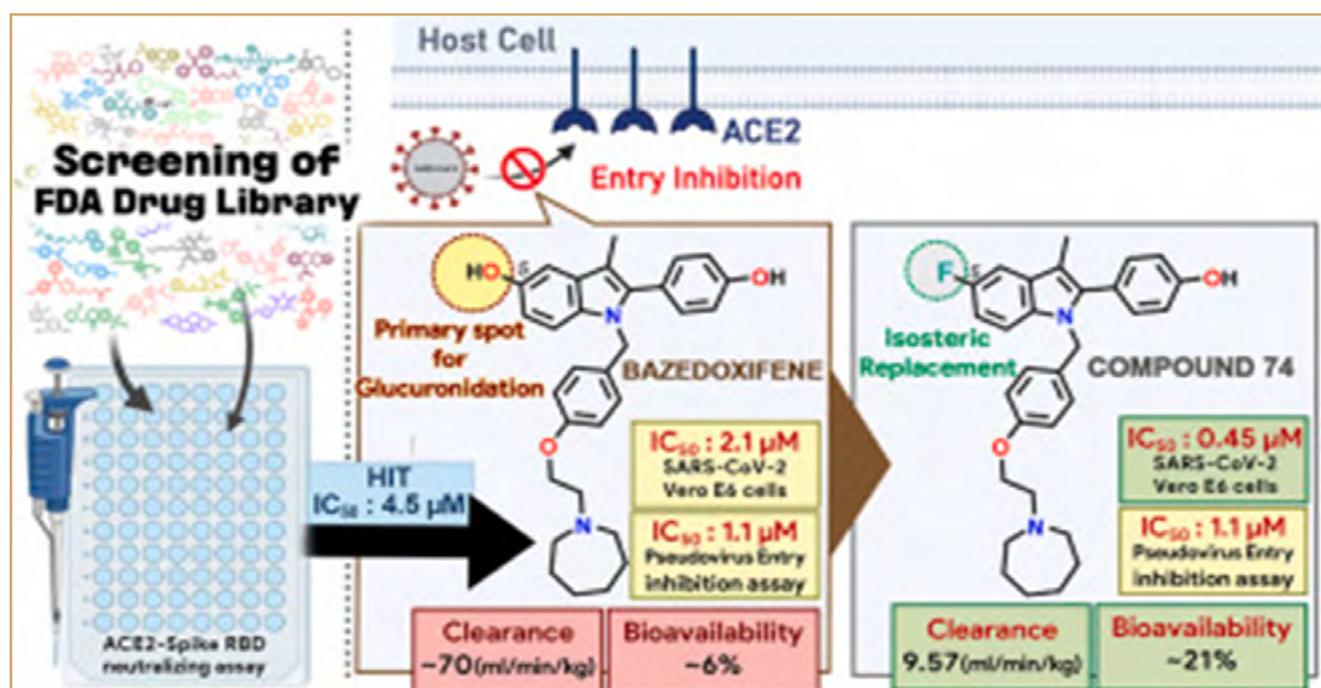
Blocking the Entry of Coronavirus: Role of Repurposed Bazedoxifene Analogs

Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), which causes COVID-19, remains a persistent global health threat. The virus has multiple variants of concern (VOCs), including Alpha, Beta, Gamma, Delta, and Omicron. Each of them is characterized by genetic mutations that have impacted viral behavior. These variants have increased transmissibility and reduced sensitivity to neutralizing antibodies produced through natural infection or vaccination. Mutations in the spike glycoprotein have enabled some variants to partially evade immune recognition. Public health strategies to manage the pandemic include updated vaccines, refinements of monoclonal antibodies, and the exploration of broad-spectrum antiviral agents. As of now, the U.S. Food and Drug Administration (FDA) has approved a limited number of antiviral therapies for the treatment of COVID-19, including Veklury (remdesivir) and Paxlovid. Remdesivir is a nucleotide analog that inhibits the viral RNA-dependent RNA polymerase, whereas Paxlovid combines nirmatrelvir, a SARS-CoV-2 main protease inhibitor, with ritonavir, a pharmacokinetic enhancer.

Further, the emergence of zoonotic coronaviruses (CoVs) underscores the urgent need for broad-

spectrum antiviral agents that can neutralize not only current human-pathogenic strains but also related viruses. The recent identification of Khosta-2, a sarbecovirus isolated from Russian horseshoe bats, has raised significant global concern due to its ability to use human ACE2 as a cellular entry receptor, similar to SARS-CoV-2.

In this study, researchers have focused on screening FDA-approved drugs to identify candidates that can effectively inhibit spike-ACE2 binding, offering a potential early intervention strategy against COVID-19. A library of over 1000 FDA-approved small-molecule drugs was screened using a medium-throughput assay on ACE2-coated plates to assess their potential to block the interaction between human ACE2 and the HRP-conjugated receptor-binding domain (RBD) of SARS-CoV-2. Initial screening identified 22 hit compounds, with bazedoxifene emerging as the most effective and promising candidate. Bazedoxifene is a third-generation selective estrogen receptor modulator (SERM) approved for the prevention and treatment of postmenopausal osteoporosis. Studies have demonstrated bazedoxifene's antiviral efficacy against SARS-CoV-2 strains.



The in vitro assay showed significant antiviral activity of bazedoxifene in virus-infected Vero cells, reinforcing its potential as a repurposed drug for SARS-CoV-2. Mechanistic studies also confirmed bazedoxifene's role as an entry inhibitor, directly blocking the ACE2-spike protein interaction and preventing viral entry into host cells. To refine the pharmacophoric framework responsible for ACE2-spike inhibition, the researchers have investigated the structural features of the 2-phenyl indole scaffold within bazedoxifene.

Binita Patra, Nirmal Das, Akshay Joshi, Sahil Kumar, Renuga Devi, Biswajit Kundu, NandaKumar Raja, Israful Hoque, Soupayan Pal, Anindita Dey,

Jafar Sarif, Nittu Singh, Nandha Kumar, Ravneet Singh Chawla, Uddipta Ghosh Dastidar, Alna Kuriyickal Martin, Kanagasabai Balamurugan, Bokara Kiran Kumar, Rajesh P. Ringe, Dipyaman Ganguly, Arindam Talukdar

Targeted screening and rational optimization of bazedoxifene analogs as pan-variant SARS-CoV-2 entry inhibitors with improved pharmacokinetics

European Journal of Medicinal Chemistry,
Volume 304, 15 February 2026, 118462
<https://doi.org/10.1016/j.ejmech.2025.118462>

Publications from CSIR-CLRI

November 2025

1	Arumugam, M; Subha, N; Sankar, AR; Natarajan, TS; Yang, HH, Layered double hydroxide materials based next-generation photocatalytic system for CO ₂ reduction and H ₂ production applications, <i>FlatChem</i> , 2025, 54, 10.1016/j.flatc.2025.100947
2	Sundarapandian, A; Pachaiyappan, M; Aarthy, M; Jangra, S; Shanmugam, G; Anandasadagopan, SK; Jaganathan, M; Ayyadurai, N, Self-Assembling Synthetic Congener Collagen Mini-Fibrils With Genetically Encoded Hydroxyproline and 3,4-Dihydroxyphenylalanine for Wound Healing, <i>Journal of Biomedical Materials Research Part A</i> , 2025, 113 (11), 10.1002/jbm.a.38014
3	Mahendran, G; Stephen, NM; Manivel, M; Maradagi, T; Nagarajan, M; Natarajan, J; Ponesakki, G, Phycobiliproteins of Marine Red Alga, <i>Kappaphycus Alvarezii</i> Possess Potent Antioxidant and Metal Chelating Properties, and Inhibit Hepatocellular Carcinoma (HepG2) Cell Growth, <i>Applied Biochemistry and Biotechnology</i> , 2025, 10.1007/s12010-025-05444-5
4	Sadan, S; Shanmugam, P; Pillai, ZS, Advances in 4-Hydroxycoumarin Chemistry: Functionalization, Prominent 4-Hydroxycoumarin-based Therapeutics and their Pharmacological Significance, <i>Mini-Reviews in Medicinal Chemistry</i> , 2025, 10.2174/0113895575412635251009051729
5	Sreekumar, S; Kiran, MS, Combinatorial Efficacy of Apigenin-Resveratrol Collagen Bio-Matrix for Wound Repair and Regeneration in Abnormal Lipid Expansion, <i>Wound Repair and Regeneration</i> , 2025, 33 (6), 10.1111/wrr.70114

“Ek Ped Maa Ke Naam” Campaign for Tree Plantation



On the occasion of World Environment Day, CSIR-CLRI participated in the ‘Ek Ped Maa Ke Naam’ campaign launched by the Govt of India. The campaign is a unique initiative combining environmental responsibility with a heartfelt tribute to mothers and aligns with the nation’s quest for sustainable development! This simple act serves a dual purpose: honoring the role of mothers in nurturing life and contributing to the health of the planet.

To mark the event, CSIR-CLRI staff planted trees within the campus on 1 November 2025. This initiative aligns with the nationwide movement encouraging individuals to plant and nurture trees in honor of their

mothers, promoting environmental sustainability and emotional connection with nature.





CELEBRATING 150 YEARS OF “VANDE MATARAM”

Inaugural celebration commemorating 150 Years of the National Song “*Vande Mataram*” was held on 7 November 2025 in the Reception Hall, Main Building, CSIR-CLRI. On the occasion, a mass singing of the National Song “*Vande Mataram*” was organized. Staff members, research scholars, and students enthusiastically participated in the event and collectively rendered the song, paying tribute to the spirit of patriotism and national pride embodied in “*Vande Mataram*.”



A live telecast of the address by the Hon’ble Prime Minister of India was organized at the CSIR-CLRI in Conference Hall, CARE, and Tagore Ashram on 7 November 2025. Staff members of CSIR-CLRI actively participated in the event and listened with great enthusiasm to the inspiring address by the Hon’ble Prime Minister.





CSIR-CLRI celebrated the Constitution Day, also known as ‘Samvidhan Divas’ on 26 November 2025. The day is celebrated across the country on 26 November every year to commemorate the adoption of the Constitution of India. It was on this day in the year, in 1949, the Constituent Assembly of India adopted the Constitution of India, which came into effect from 26 January 1950. “Constitution Day” is celebrated to promote constitutional values among citizens. On this day, Dr K J Sreeram, Director, CSIR-CLRI, read the Preamble to the Constitution of India, along with the staff members.



Dr P Thanikaivelan Assumes Office as Director, CSIR-CLRI

Dr. P Thanikaivelan, Chief Scientist, CSIR-CLRI has taken charge as the 15th Director of CSIR-CLRI. As a renowned leather technologist, Dr. Thanikaivelan brings expertise in advanced materials. His area of specialization is '*Leather Science & Technology and Material Science for Technology Transfer; Industrial Research*'. Dr. Thanikaivelan has sought to develop integrated solutions to environmental problems in leather processing based on deeper insights into the first principles of leather science. His integrated approach aims to develop '*Do-Ecology*' solutions to leather processing, as well as gaining economic value from the currently wasted resources, posing problems in solid waste disposal. He was instrumental in developing and deploying game-changing Waterless Chrome Tanning Technology for tanneries in India. His work of using collagenous wastes from leather processing as a precursor for developing carbon nano-onion like structures, Nano bio composites and other advanced materials represents first-principle pioneering innovations. He has developed two synthetic agents for pickle-basification free chrome tanning. The application of the technology for the high exhaust chrome-tanning developed by him ensures a reduction in the wastage of chromium by 30%. He explored the development of leather-like materials utilizing the plant wastes of agricultural industry for application in life style products.

Dr. Thanikaivelan has been selected as the Young Associate of Indian Academy of Engineering (INAE) from 2013-2021, Indian Academy of Sciences,



Bengaluru from 2007-2021; Life member of Materials Research Society of India, Chemical Research Society of India, and Indian Leather Technologists Association; Member of International Association of Advanced Materials, Materials Research Society of Singapore (2009-2011), the American Leather Chemists Association (2004-2008). He is the recipient of CSIR Diamond Jubilee Tech. Award, 2016; CSIR Technology Award for Innovation, 2017; Fulbright-Nehru Fellowship, 2010 (USIEF); WIPO Certificate of Merit, 2008 & NRDC Award, 2007; Young Engineer/Scientist Award 2006, INAE & CSIR; Product/Process Comm. Award, 2005 DBT, among other awards and recognitions. He has to his credit 145 research publications, filed 30 National patents, out of which 20 have been granted and 9 have been licensed. He has also filed 17 International patents, out of which 10 have been granted. He has developed and transferred 12 technologies.





Talk on AI-powered Dashboards and Data Visualization

Scientific Seminar

Dr. S. Nithyanantha Vasagam, Senior Principal Scientist, Knowledge Portfolio Management Unit, delivered a guest lecture on “AI-powered Dashboards and Data Visualization as a Key Component of Digital Transformation: Significance of Data Analytics” on 25 November 2025 at the IEEE-Sponsored FDP on “Digital Transformation in the Age of AI, Cyber Security and Business Intelligence,” organized by the Department of Computer Science and Engineering (Cyber Security), S. A. Engineering College (Autonomous), Chennai.

In the talk, insights into how advanced analytics, real-time dashboards, and AI-driven intelligence are reshaping modern enterprises and empowering data-driven decision-making across various industries were discussed.



Training Program on **Rashtriya Karmayogi Jan Seva Modules** at CSIR-CLRI

Staff members of CSIR-CLRI were nominated to attend a one-day program organized on the modules of *Rashtriya Karmayogi Jan Seva*. The programme participation was scheduled into 5 batches on 11, 14, and 18 November 2025. *Rashtriya Karmayogi Jan Seva* is organized by the Capacity Building Commission of the Government of India to build an ecosystem, and was initiated with the motto “*From Learning to Action*”.

During the program, the following modules were conducted:

- ◆ qualities and behaviours of Karmayogi
- ◆ motivations and inner purpose of a Karmayogi
- ◆ learning *Seva-Bhav* in every aspect of work life
- ◆ understanding the role in terms of national goals
- ◆ serving all stakeholders better



Skills Upgradation for Traditional Artisans of Kolhapur Cluster

CSIR-CLRI launched skills upgradation programs for the traditional artisans of the Kolhapur cluster. The main goal of the program is to empower artisans by equipping them with the latest design, manufacturing, and finishing techniques for Kolhapuri Chappals. The focus is to enhance the income and livelihood of artisans of Kolhapur Cluster.

The CSIR-CLRI team, in collaboration with the Kalapuri Foundation, is on a mission to support nearly 200 artisan families, creating sustainable livelihoods while preserving our rich heritage crafts for future generations.

The first batch of the Two-Week Training Program commenced on 24 November 2025. The trainees will be imparted with hands-on skills in the vital aspects

of design, construction, colouring, finishing, and sole attachment. About 15 artisans are being trained in the first batch, and the second batch is set to begin on December 15, 2025.



Curtain Raiser for 11th International Science Festival (IISF-2025)

CSIR-CLRI, Chennai, successfully organised the curtain raiser for the 11th India International Science Festival (IISF-2025) on 20 November 2025. The program was organized to spread the festival's vision and inspire students, researchers, and educators to celebrate the spirit of scientific discovery and innovation. Aligned with the IISF theme “*Vigyan Se Samruddhi: For Aatmanirbhar Bharat,*” the program aimed to inspire young minds through science lectures and interactive laboratory visits. The event saw enthusiastic participation from nearly 400 visitors, including research scholars, students, and teachers from across the city.

The program commenced with an inaugural address by Dr K. J. Sreeram, Director, CSIR-CLRI, followed by an overview of IISF-2025 presented by Mrs. S Shyamala, VIBHA Member and Vidyarthi Vigyan Manthan (VVM), State Coordinator, Tamil Nadu.

Eminent scientists from CSIR-CLRI delivered thematic lectures on a range of topics, including the journey of

leather making, the importance of metals in life, clean water and energy for environmental sustainability, strategies for technology development and marketing, and the evolution of intelligence—from Archimedes to Artificial Intelligence—and its impact on science and innovation.



Participants later visited various labs and research facilities at CSIR-CLRI, and had first-hand exposure to cutting-edge scientific infrastructure.



Training program for Income Tax Officers

CSIR-CLRI has organized a special half-day training program on 24 November 2025 for the newly recruited Income Tax officers from the National Academy of Direct Taxes, Regional Campus, Chennai.

Dr. K. J. Sreeram, Director, CSIR-CLRI, and Dr. S. Palani Kumar, IRS, Additional Director General of Income Tax (Training) inaugurated the program. Various details about the technologies developed at the institute and the institute's role in the development of the Indian Leather sector were discussed. Dr. Palani Kumar visited the Dissemination Centre, Leather Process Technology Division, and Gait Analysis Laboratory at the Institute.

The half-day program primarily focused on introducing leather, leather processing, leather products, and the non-leather footwear pilot plant to the new recruits.

Shri V. Karthik, Principal Scientist from the CARE Division, delivered a lecture on "All About Leather," which focused on the "Genesis of Leather Industry", CSIR-CLRI, and the contribution of the institute to the industry.

A total of 61 Income Tax officers participated and gained valuable insights and hands-on experience in leather processing. The participants visited the pilot tannery and the pilot plant for non-leather footwear to gain an understanding of the processes involved in making leather and footwear.

This initiative reflects CSIR-CLRI's continued commitment to support government agencies with scientific expertise and practical training.



Start-up Entrepreneurs Interaction Meet

CSIR-CLRI successfully hosted a Start-up Business Entrepreneurs Interaction Meet on 26 November 2025 for participants nominated by the Tamil Nadu Startup and Innovation Mission (StartupTN) under the Micro, Small & Medium Enterprises Department, Govt of Tamil Nadu.

This initiative is aimed at strengthening and promoting Tamil Nadu-based startups by providing them exposure through visits to national laboratories and research institutes.

The program began with an engaging interaction between Dr K J Sreeram, Director, CSIR-CLRI, and representatives from StartupTN, Mr. R Mageswar and Mr. N Subramanian, along with the visiting entrepreneurs. Dr. Sreeram highlighted the institute's wide-ranging technological advancements, its pivotal role in the growth of the Indian leather sector, and its expanding R&D efforts in allied domains. Following this,

participants were given an overview of various technologies developed by the Institute. As part of the exposure visit, the entrepreneurs toured the following key facilities:

- ◆ Leather Processing Technology (Tannery)
- ◆ Shoe & Product Design and Development Centre (SPDDC)
- ◆ Non-Leather Footwear Pilot Plant
- ◆ Chemical Pilot Plant
- ◆ CATERS Facility

These visits provided valuable insights into leather processing, non-leather footwear development, leather goods manufacturing, and the institute's analytical, physical, and testing capabilities. This initiative underscores CSIR-CLRI's continued commitment to support emerging startups through scientific know-how and innovation, in close collaboration with government agencies like StartupTN.





Participation **Participation in 4th Bangalore Gait Course**

Dr. B. Ravikumar, Senior Scientist, and Mr. T. Loganathan, Scientist, from Footwear Biomechanics Unit, CSIR-CLRI, have successfully completed the “4th Bangalore Gait Course”, organized by College of Physiotherapy, Upright Kids Ortho, BIMRA & Rainbow Children’s Hospital, Bengaluru, held during 7–8 November 2025.



53rd Shanti Swaroop Bhatnagar Memorial Tournament (SSBMT-2025)

The CSIR-CLRI team, consisting of 22 players, participated in the 2nd Zonal round of the 52nd Shanti Swaroop Bhatnagar Memorial Tournament (SSBMT-2025) Indoor Games held at CSIR-Central Drug Research Institute, Lucknow, from 31 October 2025 to 3 November 2025. The tournament brings together players and sports enthusiasts from various CSIR laboratories across the northern region to celebrate fitness, teamwork, and camaraderie. The detailed list of winners in the respective categories are:

1. Shri. D. Gnana Bharathi, Sr. Principal Scientist, Table Tennis
2. Shri. K. Chandran, PTO, Table Tennis
3. Shri. Hussain Z Kotawala, AcSIR Ph.D. Scholar, Table Tennis
4. Dr (Smt). Padma Latha Patnam, STO (2), Badminton
5. Smt. V. Bhuvana, SSA (G), Carrom
6. Shri. M. Aranganathan, Sr. Technician (3), Chess
7. Ms. B. Shiny, JSA (F & A), Chess



Dissemination Program with CETP Management and Tanners

CSIR-CLRI had developed a process for the recovery of struvite from tannery wastewater. This project was funded by CSIR as Fast Track Translation (FTT) Project under the title '*Recovery of Struvite from Industrial Wastewater as Soil Conditioner*', to address ammoniacal nitrogen from tannery wastewater. Struvite is a slow-releasing fertilizer with commercial value and acts as a soil conditioner. It is a potential alternative to commercial fertilizer.

As part of this project activity, the Institute had organized a dissemination program with CETP Management and Tanners on 21 November 2025 at the Environmental Engineering Department, CSIR-CLRI. Dr. K. Sri Bala

Kameswari, Chief Scientist and Project Investigator, explained the significance of the recovery of struvite from tannery wastewater. It is an exemplary circularity model for the tannery and agricultural sectors.

Dr. K. J. Sreeram, Director, CSIR-CLRI; Dr. C. Anandharamakrishnan, Director National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram & Theme Director, EES program; Dr P Thanikaivelan, Chief Scientist, CSIR-CLRI officials from Tamil Nadu Pollution Control Board (TNPCB), and other Colleagues from CSIR-CLRI were present during the program.



Inauguration of renovated Buildings at CLRI Staff Quarters

Dr K J Sreeram, Director of CSIR-Central Leather Research Institute, inaugurated the renovated Type-II, Block-III building of the CLRI Staff Quarters on 21 November 2025.



Inauguration of Indoor Games Facility at CLRI Staff Club

As part of its continued efforts to promote the well-being of staff members and students, the CLRI Staff Club has established an Indoor Games Facility on the CSIR-Central Leather Research Institute campus. The facility was inaugurated by Dr. K. J. Sreeram, Director, CSIR-CLRI, on 21 November 2025.



Editor-in-Chief: **Dr KJ Sreeram, Director, CSIR-CLRI**

Editor : **G Chandrasekar**

Editorial Team: **Dr R Srinivasan, Dr S Swarnalatha, M Vinodh Kumar, V Karthik**

Design : **G Sathiamoorthy**

Editorial Assistance : **K Thangarasu**

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For Feedback and Comments: Editor, The Leather Post; email: chandrag@clri.res.in

Activities at CLRI Regional Centre, Kanpur

Training Program on Leather, Footwear, and Analytical Testing

A comprehensive three-day training program on “Basics of Leather, Footwear and Physical/Analytical Testing” was successfully conducted at the CLRI Regional Centre, Kanpur, during 29-31 October 2025. The program was organised for officials from the Senior Quality Assurance Establishment (General Stores), Ministry of Defence (DGQA), Kanpur.

The objective of the training was to enhance participants’ understanding of leather and footwear materials, their manufacturing processes, and the associated physical and analytical testing protocols. Sessions were designed to blend theoretical insights with practical demonstrations, fostering a deeper appreciation of quality parameters and testing standards relevant to defence supplies.



8th Annual Conference of the Society of Leather Technologists and Chemists of Nigeria

Dr. M. Sathish, Senior Scientist, CLRI Regional Centre, Kolkata, CSIR-CLRI delivered a lecture at the 8th Annual Conference of the Society of Leather Technologists and Chemists of Nigeria on 6 November 2025 through online mode.

He emphasized the role of innovation and technologies in advancing a sustainable leather sector and highlighted the Indo-Ethiopian collaborative model for other African nations to foster continental progress in sustainable leather innovation.



Janjatiya Gaurav Diwas and Gaurav Varsh-2025 celebrations

About 93 Every year, the birth anniversary of *Bhagwan Birsa Munda*, which falls on 15 November is celebrated as *Janjatiya Gaurav Divas*. This day is celebrated to recognize India's rich cultural diversity and honor India's tribal communities, who have played a crucial role in the nation's history and development. To mark the occasion of *Janjatiya Gaurav Diwas* and *Gaurav Varsh-2025* celebrations, CLRI Regional Centre Kanpur CSIR-CLRI, in association with LSSC and Superhouse Group, organized an enriching industry exposure visit for students from Janjatiya (Scheduled Tribe) on 14 November 2025.

The students visited the footwear manufacturing unit of M/s. Superhouse Limited, located in Unnao District, Uttar Pradesh one of India's leading manufacturers and exporters of footwear. Each section's operations were explained in detail, offering students a comprehensive understanding of the materials used and the processes involved in crafting different types of footwear.

In addition, the students toured the State-of-the-Art Testing Laboratory at the KLC Complex, Unnao, where they were introduced to the testing standards and quality requirements for leather and footwear, both for domestic markets and international exports.



They observed demonstrations of various physical and chemical testing instruments, gaining valuable insights into quality assurance protocols.

The visit sparked keen interest and enthusiasm among the students, many of whom were experiencing such an industrial environment for the first time. All the students expressed heartfelt gratitude and joy, describing the experience as eye-opening and inspiring.



Industry Visit to Footwear and Product Industries

In connection with the establishment of the Footwear Pilot Plant at CLRI Regional Center, Jalandhar, a team led by Dr. K. Krishnaraj, Chief Scientist & Project leader, and Dr. Sudhakara Posa, Principal Scientist, along with members visited various product industries at Jalandhar during 13–14 November 2025 and discussed about industries' requirements and services expected from the pilot plant and career interests.



Prize/Awards/Recognition

Best Poster Award

Mr. Rajani Kumar Borah, Research Scholar working under the guidance of Dr. Amit A. Vernekar, Senior Scientist, Inorganic and Physical Chemistry Laboratory, CSIR-CLRI, has been awarded the Best Poster Award at the Society of Materials Chemistry – Chennai Chapter Meeting held on 2 November 2025 at the Indian Institute of Technology, Madras.



Happy Retirement



Shri Munusamy V
Sr. Technician(3)
Engineering Services Department

The Director and Staff wish him a happy and healthy retired life

CSIR-Central Leather Research Institute



(CSIR Integrated Skill Initiative Training Programme)

CSIR-CLRI announces the commencement of the following placement oriented courses

Leather Processing

- ◆ Post Graduate Diploma Programme in Leather Technology
- ◆ Diploma in Leather Processing
- ◆ Short Term Executive Skill Development Programme in Leather Processing
- ◆ Integrated Skill Development on Quality Control Methods in Leather Manufacture
- ◆ Computerized colour Matching for Leather manufacturing

Leather and Leather products

- ◆ Post Graduate Diploma Programme in Leather Products Technology
- ◆ Quality and Visual Inspection of Leather and Leather Products
- ◆ Skill Training Programme in Leather and Leather-like materials for Emerging Entrepreneurs
- ◆ Short Term Executive Skill Development Programme in Leather Upholstery Manufacture
- ◆ Course in Fashion Design and Development for Leather Lifestyle Products

Leather Goods and Garments

- ◆ Diploma in Leather Goods Manufacture
- ◆ Short Term Executive Skill Development Programme in Leather Goods Manufacture
- ◆ Training Programme in Leather Goods Design (Manual and CAD)
- ◆ Diploma in Leather Garment Manufacture
- ◆ Short Term Executive Skill Development Programme in Leather Garments manufacture
- ◆ CAD for Garments

Allied Science courses

- ◆ Bioinformatics Associate/Analyst
- ◆ Quality Control Chemist – Microbiology
- ◆ QA Chemist Equipment Validation - Life Sciences
- ◆ Nuclear Magnetic Resonance (NMR) Spectroscopy Analyst
- ◆ Quality Assurance Chemist
- ◆ Leather Biotechnologist
- ◆ Enzyme Technologist
- ◆ Structural Analytical Technologist
- ◆ rDNA Technologist

Leather Allied Sectors

- ◆ Short Term Executive Training Programme on Occupational Health and Safety for Leather and Allied (Product) Industries
- ◆ Short Term Executive Training Programme on Testing and Calibration for Leather Sector
- ◆ Repair, restore and maintenance of leather products
- ◆ Short Term Executive Training Programme on Waste Management for

Footwear

- ◆ Diploma in Footwear Manufacture
- ◆ Short Term Executive Skill Development Programme in Footwear manufacture
- ◆ Training programme in GAIT Analysis
- ◆ CAD for Footwear

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Chennai : +91 44 24437109 / chord@clri.res.in ; Kolkata : +91 33 23292381 / clrikol@clri.res.in ;

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