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*The Innovation Engine of India*

**NEWS BULLETIN**

**11 TO 15 MAY 2023**





## “National Technology Week 2023 concludes in Delhi; Dr Jitendra Singh graces the occasion on Valedictory Ceremony”

CSIR

14<sup>th</sup> May , 2023



National Technology Day is celebrated every year on 11th May to commemorate the country's technological advancements. It was on this day in 1998, India had the prideful accomplishments of 'Operation Shakti' and 'Hansa 3 Test flown'. For this year, to mark this momentous occasion of 25th anniversary of these landmark events, Technology Development Board along with 12 Ministries/Departments viz. Atal Innovation Mission (AIM) -NITI Aayog, Department of Science and Technology, Ministry of Earth Sciences, Defence Research and Development Organisation - Ministry of Defence, Council of Scientific and Industrial Research (CSIR), Department of Biotechnology, Department of Atomic Energy, Ministry of Electronics and Information Technology, Department of Telecommunications, Ministry of Education, Indian Space Research Organisation and Department for Promotion of Industry and Internal Trade (DPIIT) organised National Technology Week, 2023 with primary focus on Atal Innovation Mission, programs and showcase innovations from different sectors of the innovation lifecycle with a central theme of 'School to Startup- Igniting Young Minds to Innovate'.

The event was inaugurated by Hon'ble PM, Shri Narendra Modi. Praising the theme of event



‘School to Start-ups - igniting young minds to innovate,’ the Prime Minister said that India's future will be decided by the youth and children of today. He said that the passion, energy and capabilities of the children and youth today are India's big strengths. Quoting Dr APJ Abdul Kalam, the Prime Minister underscored the importance of knowledge and said as India is developing as a knowledge society, it is acting with equal force. He elaborated on the strong foundation that has been created in the country during the last nine years to ignite young minds.

The Prime Minister said that more than 10 thousand ATAL tinkering labs in 700 districts have become innovation nurseries. More importantly, 60 percent of these labs are in government and rural schools. He informed that over 75 lakh students are working laboriously on more than 12 lakh innovation projects in Atal Tinkering Lab. This, the Prime Minister said, is a sign of young scientists coming right out of schools and reaching the far corners of the country and emphasising that it is everyone's duty to handhold them, nurture their talent and assist them in implementing their ideas. He noted the hundreds of start-ups that have been incubated at Atal Innovation Centres (AIC) and said that it is emerging as the new laboratories of the ‘New India’. “The Tinkerpreneurs of India will soon become leading entrepreneurs of the world,” the Prime Minister said.

The clarion call by Hon'ble PM set the tone right, bringing in over 5000 young minds, 1500 visitors, 800 Exhibitors, 200+ Student Exhibitors & 100+ Startups from different parts of the country. The event also had 10+ technical sessions by different ministries/departments with primary focus on students. These special sessions carried the idea for technopreneurs to become entrepreneurs.

The major highlights of the expo included DrAIve, displayed by Gitanjali Chettri, Sneha Kumari, Aniska Rai. The device utilises artificial intelligence to assist drivers on hilly roads with unexpected turns and pedestrians on the road. Additionally, the device uses machine learning to detect accidents and send SOS messages to family members within seconds, thus increasing the chances of immediate medical assistance.



Atal Divyang Rat displayed by Mohit Tayde, Tarun Maitry, Mohnish Kumar Dhruv. The product is designed to assist specially-abled persons to use washrooms without any constraint through a chair-cum-vehicle. The product was developed after multiple interviews and interactions with students and parents of specially-abled students to allow them to use washrooms without any hesitancy.

SSPL-DRDO showcased the technology ‘Underwater Wireless Optical Communication using Blue-Green Laser’ developed by Dr. Fahim & Dr. Sita Ram, DBT-inSTEM’s Dr Praveen Kumar Vemula showcased Novel Blood Bank & Anti pesticide protection suit, and M/s Panacea Medical Technology Pvt. Ltd, a beneficiary of Technology Development Board, DST displayed indigenously manufactured SBRT Enable Linear Accelerator (LINAC) (Siddharth II).

The 4-day long event was concluded today on 14th May, 2023. The valedictory ceremony was graced by the august presence of Dr Jitendra Singh, Secretaries of Participating Ministries & Stakeholders of the Tech Startups ecosystem. The event ended on a positive note, delivering a great opportunity to celebrate the spirit of innovation and entrepreneurship that drives our country's technological progress. It showcased cutting-edge technologies, innovative solutions that have the potential to transform various sectors and improve the quality of life of people.

The event created awareness about the various schemes and initiatives of the government to support technology startups and SMEs, it tried to reach out to the aspiring entrepreneurs and tech enthusiasts across the country. This fostered ever growing collaboration and partnerships amongst various stakeholders in the technology ecosystem. The event brought them together to exchange ideas, and explore possibilities.

The National Technology Week has precisely set the goals for next 25 years towards technological excellence. As India entered Amrit Kaal, the key focus is on building a robust innovation ecosystem that nurtures and supports the next generation of innovators and entrepreneurs. We need to invest in research and development, strengthen our intellectual



property regime, and create an enabling policy environment that fosters innovation and growth. With the right kind of support and encouragement, India thrives for becoming truly world-class technology ecosystem that can compete with the best in the world.



## Union Minister Dr Jitendra Singh says, last 9 years have turned India into a cost effective medical destination

CSIR

13<sup>th</sup> May , 2023

Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh today said that the last 9 years have turned India into a cost effective medical destination and this has been possible because of several pathbreaking healthcare reforms and enabling provisions brought in by Prime Minister Shri Narendra Modi ever since he took over in 2014.



Addressing the inaugural session of the 42nd annual conference of National Medicos Organisation (NMO) organised at AIIMS Kalyani, West Bengal by NMO, as chief guest, Dr Jitendra Singh, who is also a renowned Diabetologist and Professor, said that previously India was hardly known for any preventive healthcare but today India is recognised as the vaccination hub of the world. He also said that Medico organisations can collaborate with the government for ensuring last mile delivery of healthcare.

Dr Jitendra Singh said that today we can evidently see that patients from several other countries including Pakistan, Nepal, Bangladesh and even European countries coming over to leading hospitals including government hospitals in India for treatment . All of them have gone back satisfied because the treatment provided to them is world class as India has all the medical facilities available as is present anywhere else in the world and at a much cheaper cost, he said.



Dr Jitendra Singh said that his generation belongs to a generation of medicos who has seen the transition happening in India. The Minister recalled that when he entered into the medical school, his earlier generation had grown in a pre-antibiotic era. With the coming of antibiotics, more or less the communication diseases got conquered. Then new lifestyles diseases started to be more prominent be it diabetes, heart attack, cholesterol along with the increase in lifespan of the average Indian. But the diseases of the old age also got introduced into the large spectrum of diseases confronted by India, he said.

The Minister said that the number of old age people in the country is increasing. Pensioners outnumber the serving employees. Because of this, diseases of the old age are also increasing.

Another big challenge the country is facing today is the diseases of the old age affecting the middle and young age groups. The Minister said that it is pertinent that we address these metabolic disorders because India is moving forward rapidly under the leadership of Prime Minister Shri Narendra Modi and hence we have to protect the potential and energy of our youth, he added. It is in such circumstances that the role of organisations like NMO become important. Lifestyle diseases have social, cultural factors, they are also related to food habits and lifestyle. So because of this, we can't leave it just to the doctors, everyone has to contribute. Indians have a mixed lifestyle as we are still evolving and trying to modernise, that's an added challenge as culturally, socially and personally. In this light also collaborations with organisations like NMO gains significance, he said.

Talking about the theme of today's conference 'Our health, our nature, our culture', Dr Jitendra Singh said that it is very much in tune with the requirement of the India of the 21st century. He said that Prime Minister had given us the mantra 'LiFE' for environment. Following this vision in the last 9 years under the leadership of the Prime Minister, healthcare has been given top priority by the government.

Dr Jitendra Singh said that during the previous governments, health budget was a very small fraction of the Union Budget. By bringing in Ayushman Bharat, the first of its kind health



The Minister said that another important aspect is the integrated healthcare where integration of ayurveda and yoga with modern medical practices is needed. In the past few years, the Government has made a cautious effort to revive our traditional knowledge. In this regard, CSIR has established traditional knowledge digital library where everyone has access to it, not only patent holders so that we have a system of healthcare that has an optimum mix of our traditional knowledge with the most modern discoveries and inventions.

Through Mission Covid Suraksha, Dr Jitendra Singh emphasised that the Government along with the help of like-minded organisations like NMO reached the last mile for conducting the vaccination drive successfully and even providing the indigenously developed vaccines to more than 50 other countries. As a result of this, India was praised globally by the international community for its leadership at the highest levels and its vision to manage the pandemic.

The Minister further said that to prevent lifestyle diseases, in the past few years, the Government has initiated free sugar testing in various hospitals, free dialysis at the district hospital level and developed economical heart stents and medical instruments which are being exported in huge numbers throughout the world.

Talking about National Medicos Organisation, Dr Jitendra Singh said that NMO is a three in one organisation as it is engaged in Swasthya Seva, Samayik Seva and Shiksha Seva at the same time. He said that NMO is an organisation comprising of qualified doctors, qualified students who are contributing to the making of a competitive academic atmosphere as far as medical education in this country is concerned. When Jammu and Kashmir faced devastating floods in 2014, NMO with Sewa Bharati acted promptly by sending not only required material but also 68 doctors from different part of the country for 10 days. Since 2014, Rishi Kashyap Swasthya Sewa Yatra has been regularly conducted with the help of Sewa Bharati, Jammu and Kashmir. This Yatra is aimed to provide health care services and basic awareness to the people in the remote villages of J&K, he said.

Listing out the ways in which organisations like NMO can collaborate with the government,



the Minister said that, firstly, organisations can collaborate with StartUps in the medical field who have the right calibre. The Government has also agencies working in this area like the Technology development board, BIRAC etc. Secondly there is a need to collaborate in developing more Indian data for Indian diseases. Organisations like NMO, Seva Bharati can work with government to collect such valuable health data so that we can ensure targeted delivery of healthcare. Thirdly collaboration is needed to ensure integrated healthcare under single roof promoting yoga and ayurveda with allopathy without overlap and malpractice. Finally, Telemedicine which is going to revolutionise the entire mechanism of healthcare delivery in the country requires utmost collaboration, he concluded.



## “Prime Minister Modi has accorded priority to StartUps, taking personal interest in the matter”: Dr Jitendra Singh

CSIR

12<sup>th</sup> May , 2023



Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr. Jitendra Singh today held a two hour long interaction with young StartUps from different backgrounds, during which he called for a wider awareness, particularly among parents and elders.

“Prime Minister Modi has accorded priority to this, taking personal interest in the matter,” he said, during a visit to the National Technology Week exhibition at Pragati Maidan, here today.

Dr Jitendra Singh spent more than two hours visiting the stalls put up by the CSIR, Department of Biotechnology, ISRO, Department of Atomic Energy, DRDO and a host of other Departments/PSUs and private industry. The Minister showed keen interest in the exhibits put up on display by a large number of Startups. “Before 2014 there were just 350-400 Startups, in 2016 PM Modi started the Startup India movement from the Red Fort. And today their number exceeds one lakh,” said Dr Jitendra Singh.



The Minister interacted with a large number of school children visiting the exhibition and inspired them to take cue from the various Startup entrepreneurs making headway in niche sectors. Dr Jitendra Singh also spoke with the school teachers accompanying the students and the startup promoters.

“All these young minds must realise the huge potential in the StartUps sector and instead of settling down to government jobs, they must seize the opportunity to launch startups and also create jobs,” he said.

Urging the parents also to accompany their children on a visit to the Technology Week exhibition over the weekend, Dr Jitendra Singh said, “Let them come in droves and see for themselves how India, at the call of PM Modi, is headed on the path to rapid progress in the 21st century,” he said, adding, “children in Class 6-7 are in their formative years, and by the time they pass out of school, their inherent skills are exploited to help them realise their dream projects.”

The celebration of National Technology Day was started by former Prime Minister Atal Bihari Vajpayee in 1999 to honour Indian scientists, engineers and technologists, who worked for India’s scientific and technological advancement and ensured the successful conduct of Pokhran tests in May 1998. Since then, National Technology Day is observed every year on May 11.

The National Technology Week celebration was inaugurated by the Prime Minister at Pragati Maidan on 11th May 2023. Participants/ exhibitors from 12 Ministries of Government of India are showcasing wide range of scientific innovations in Hall No.4 & 5A, Pragati Maidan, Delhi.

The theme of this event is ‘School to Start – Up – Igniting Young Minds to Innovate’, wherein students from schools across India engaged with Atal Tinkering Labs (under Atal Innovation Mission of Govt. of India), are participating and showcasing technological



innovation in Hall No.4, Pragati Maidan, Delhi. It is celebrated with a new and different theme every year. This year's theme is 'School to Startups- Igniting Young Minds to Innovate'. The CBSE has advised to celebrate National Technology Week 2023.



## 'Excessive chemotherapy leads to physiological and financial toxicity'

CSIR-CDRI

15<sup>th</sup> May , 2023

In India, it has been found that among the 95% cancer patients who undergo chemotherapy, only 15% require it and benefit from it, said Dr Manjiri Bakre, founder CEO of OncoStem Diagnostics Pvt. Ltd.



She was delivering the 'Technology Day' talk titled "Does every breast cancer patient needs chemotherapy? Role made in India innovative test in decision making" on the occasion of

25th National Technology Day celebrations at CSIR –Central Drug Research Institute (CDRI) here on Monday.

"Overuse of chemotherapy leads to physiological and financial toxicity. Thus, before taking lead in chemotherapy, one has to go through proper prognostic tests and alternative methods," she added.

She said to address this need, she founded her startup company OncoStem where its flagship product "CanAssist-Breast (CAB)" could provide cost effective and reliable tests for personalized breast cancer patients, and it has been sold in India and internationally for the last 6 years.

Dr Dhananjay Dendukuri, co-founder & CEO of Achira Labs Pvt. Ltd. delivered another talk and shared his thoughts on "Rapid advance in point of care testing through microfluidic technologies in the post-Covid world".



“On the First National Technology Day in 1999, then Prime Minister Atal Bihari Vajpayee launched the institute’s popular antimalarial drug product alpha-beta Arteether,” said CSIR-CDRI’s director Radha Rangarajan. Later, the annual report of the institute was also released.



## Consul General of Norway visits CSIR-NEERI

CSIR-NEERI

15<sup>th</sup> May , 2023

The Consul General of Norway, Mr. Arne Jan Flolo, paid a visit to CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) recently, where he met the Director, CSIR-NEERI Dr. Atul Vaidya and Dr. Nitin Labhsetwar, Chief Scientist and Head, Energy and Resource Management Division, CSIR-NEERI. During the meeting, joint academic and research possibilities between CSIR-NEERI and Norway were



talked about. The Consul General of Norway was accompanied by the Deputy Consul General Ms. Tone Helene Aarvik and Mr. Rahul Maheshwari, Advisor- Economic and Political Affairs, Royal Norwegian Consulate General Mumbai.

Mr. Arne Jan Flolo discussed about the advancements in the fields of blue hydrogen, cleaner energy options, sustainable blue economy and carbon capture, utilization and storage (CCUS). He expressed satisfaction over the India's clean energy transition as this will provide a huge economic opportunity. Mr. Flolo also interacted on environmental and ecological issues of common interest. Ms. Aarvik stressed on the need for concerted global efforts to address Climate Change.

Dr. Atul Vaidya, Director, CSIR-NEERI said that it was a new milestone for CSIR-NEERI as we host the Norwegian Consul General for a significant global agenda on ecology and environment. Bilateral relations between India and Norway are of a great significance for the continuous growth of both countries, he added.



Dr. Nitin Labhsetwar, Chief Scientist and Head, Energy and Resource Management Division, CSIR-NEERI, elaborated on the current local and global environmental challenges. He briefed the delegation about the recent achievements of CSIR-NEERI displayed at Harit Sangrahalaya. Dr. Sushant Wath and Dr Satish Dabe also participated in the discussions and provided details of the technologies developed.

Both parties agreed to support emerging partnership for research and development in ecology and environment.



## Bhopal: One Week One Laboratory programme worthy, says Guv

CSIR-AMPRI

14<sup>th</sup> May , 2023

Bhopal (Madhya Pradesh): Governor Mangubhai Patel said that the "One week-one laboratory" programme was a worthy initiative to build a self-reliant India. The programme will inspire the future generation to contribute to nation building.



He said that CSIR-Ampri should become the engine of innovation in the state by developing meaningful and equal partnership between research, academia and industry. He was addressing the educationists, researchers, industrialists, entrepreneurs, start-ups, school and college students at the launch of "One Week-One Laboratory" at the Council of Scientific and Industrial Research's Advanced Materials and Processes Research Institute (CSIR AMPRI) auditorium. He said that nation and society with technical knowledge could alone progress.

Prime Minister Narendra Modi has made multi-pronged efforts to make the thinking of citizens scientific. CSIR-Ampri Director Dr Avnish Kumar Srivastava spoke on 10 programmes organised during the week from May 14 to 18. Dr Mohammad Akram Khan, Chief Scientist, CSIR Ampri proposed vote of thanks. Governor also visited the exhibition focused on the research and exploration works of the laboratory at the venue.

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## What Is Sustainable Aviation Fuel And Its Challenges?

CSIR-IIP

14<sup>th</sup> May , 2023

Recently, the Indian Institute of Petroleum (IIP), a laboratory operating under the Council of Scientific and Industrial Research (CSIR), has formed partnerships with prominent aviation companies such as Boeing, Indigo, and Spicejet, as well as with the three Tata Airlines - Air India, Vistara, and AirAsia India.

This collaboration aims to promote the production of Sustainable Aviation Fuel (SAF), a more environmentally friendly alternative to traditional aviation fuel.

Expanding the production and utilisation of Sustainable Aviation Fuel in India can lead to numerous advantages, such as lowering greenhouse gas (GHG) emissions, improving air quality, bolstering energy security, generating employment opportunities in the renewable energy sector, and advancing sustainable development.

Further, SAF can assist the aviation industry in meeting its environmental objectives and contribute to worldwide efforts to combat climate change.

Biofuel for aviation can be blended with conventional jet fuel and used together. It has a lower sulfur content compared to traditional fuel, which can reduce air pollution and support India's aim of achieving Net Zero emissions.

### **What is Sustainable Aviation Fuel?**

Sustainable Aviation Fuel also known as bio-jet fuel, is a type of fuel that is produced through domestically developed methods using cooking oil and oil-rich seeds from plants.

The production of SAF aims to reduce the carbon footprint of the aviation industry and promote environmental sustainability.



Currently, the SAF samples produced by the participating institutes are undergoing rigorous testing at the US Federal Aviation Administration Clearinghouse to ensure that they meet the necessary standards for ASTM D4054 certification from ASTM International.

The CSIR-IIP has produced fuel from a variety of materials, including non-edible and edible oils, as well as used cooking oil. They have used several sources, such as palm stearin, sapium oil, palm fatty acid distillates, algae oil, karanja, and jatropha, according to Down to Earth.

### **What are the challenges?**

The production and utilisation of Sustainable Aviation Fuel face several challenges that need to be addressed. The cost of producing SAF is higher than traditional jet fuel, making it economically unfeasible for airlines to invest in SAF production and use.

There is limited infrastructure for the production, storage, and distribution of SAF, making it difficult to scale up the production and supply of SAF.

Further, the limited availability of feedstock for SAF production, and there is competition for resources from other industries, such as the food and agriculture sectors.

The certification process for SAF is complex and time-consuming, and a lack of globally recognised standards for SAF production. Also, there is a need to raise public awareness and understanding of the benefits of SAF and to encourage greater support from policymakers and investors.

Efforts to promote Sustainable Aviation Fuel worldwide include the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) program by the International Civil Aviation Organization (ICAO), the Clean Skies for Tomorrow initiative by the World Economic Forum, and the Sustainable Skies Act introduced by the US Congress.

The EU has established blending targets for SAF to reduce GHG emissions from aviation,



starting at 2% in 2025 and aiming for 63% blending by 2050. However, challenges remain in promoting SAF, including high production costs, limited resource availability, complex certification processes, and a need for greater public awareness and support.



## National Technology Day Celebration At CFTRI – Era Of Start-Ups Has Begun: Excelsoft CEO Sudhanva

CSIR-CFTRI

13<sup>th</sup> May , 2023



Mysore/Mysuru: Maintaining that the era of Start-ups has begun across the country, Excelsoft Technologies CEO D. Sudhanva said Start-ups are mainly driven by fast growing technology and newer innovations. He was speaking after inaugurating National Technology Day celebration at CSIR-CFTRI in city on May 11.

Observing that Start-ups and Entrepreneurship are a result of rapidly growing Science and Technology, Sudhanva said not much people had an idea of Start-ups in the 1980s. But with the rapid advancement of Science and Technology, Start-ups have sprung up in large numbers, he said adding that they have now become very much part of our life.

Noting that technology has covered everyone of us, he said that we are using technology right from the time we get up in the morning till we go to sleep at night. Pointing out that technology which was once used only for specific reasons, has now become very much a part of our daily life, Sudhanva said we are dependent on technology for everything, even for delivery of food at our doorsteps.



Stating that fast food supply chain is a result of technology advancement, he said that this trend has resulted in price rise of organic food products.

Continuing, he said that advanced studies and research is going on in the field of Food Science and Food Processing in the country. “Now is the time to discuss the pros and cons of scientific findings of research. Any technology should be a boon and not bane to mankind,” he pointed out adding that everyone should ensure that technology is best used only for welfare of the society.

Several Start-ups that were provided technology by CFTRI were distributed certificates and licences on the occasion.

CFTRI TTBD Section Head B.V. Sathyendra Rao, Chief Scientist Dr. N.K. Rastogi and others were present.



CSIR-CFTRI

13<sup>th</sup> May, 2023

## CFTRI announces 24 new courses for year-long training

**The Hindu Bureau**  
MYSURU

CSIR-Central Food Technological Research Institute (CFTRI), Mysuru, is organising many regular training programmes, skill development programmes and short-term courses in this financial year under CSIR Integrated Skill Initiative, encompassing all the major areas in food science and technology.

The schedule of the 24 courses for 2023-24 has been hosted on the institute website ([www.cftri.res.in](http://www.cftri.res.in)). These courses are of short duration but intensive and packed with lectures and demonstrations. The faculty members for the courses have vast experience in specific areas of food science and technology.

The demonstrations and practical classes are conducted in the state-of-the-art laboratories and pilot plants of CSIR-CFTRI.

Training includes theory and hands-on practical sessions on Food Safety Issues; Paddy and Rice Processing; Animal Cell Culture; Liquid Chromatography - Mass Spectrometry (LC-MS); Flour Milling Baking and Confectionery Technology; Fumigation and Pest Management; Rodent management; Electrical Safety in Food Processing Industry; Molecular Biology; Post-Harvest Technologies for Fruits and Vegetables; Grain Processing; Spice Processing; Sensory analysis; Probiotic Dairy Product Development-

; Food Analysis; Food Packaging; and Edible Oil Extraction.

Successful participants will be given certificates at the end of the course. Due to its short duration and condensed, focused and capsulated syllabus, the short-term courses are well received by students, academics, employed people and entrepreneurs who are unable to spare more time. At the same time, these programmes are beneficial for unemployed youth or entrepreneurial aspirants to establish their start-up venture based on food processing, a release said here.

The institute is a Training Partner (TP) for conducting Skill Development Programmes (SDPs) aligned with National Skill Development Corporation (NSDC) under Skill India Mission of Government of India for skills like Baking Technician/Operative (FIC/Q5005), Food Microbiologist (FIC/Q7603) and Spice Processing Technician (FIC/Q8502).

Academic institutions, government departments, industry and FPOs can contact CFTRI for custom-made programmes exclusively designed for their students/staff/sponsored-participants in the area of Food Processing. These courses will be held from the third week of May 2023 onwards and end during the third week of January 2024 in different time intervals.

The course calendar for the year 2023-24 has been announced. For more information and registration, visit: <https://stc.cftri.res.in>



## NCL licenses technology to produce nanocellulose through fermentation process

CSIR-NCL

11<sup>th</sup> May , 2023

Pune: CSIR-National Chemical Laboratory (CSIR-NCL), Pune, recently licensed the technology for producing bacterial nanocellulose for wound care and cosmetics applications to Rapidcure Healthcare Pvt. Ltd.



'The CSIR-NCL technology uses a high-yield fermentative process for the production of high-value bacterial nanocellulose films from low-cost carbon sources. Syed Dastager's team at CSIR-NCL developed this technology and validated it at a lab scale. The nanocellulose produced has very high purity levels and unique micromorphology enabling it to use for various commercially important applications. Bacterial nanocellulose is a unique material that offers a range of benefits, including high tensile strength, biodegradability, and biocompatibility,' said the official press release from NCL.

In his statement to the media, Ashish Lele, Director of CSIR-NCL said, "We are excited to see our research on bacterial nanocellulose technology being adopted by Rapidcure Healthcare for commercialization. We believe this technology has the potential to yield new products in various market segments, including for wound care and cosmetics applications. We look forward to working with our partners in taking this technology from the lab scale to commercialization, and the benefits it would bring to society."



## National Technology Day celebrated at CSIR-NML Jamshedpur

CSIR-NML

11<sup>th</sup> May , 2023

National Technology Day was celebrated at CSIR-National Metallurgical Laboratory, Jamshedpur on May 11. The event was attended by several dignitaries including the Chief Guest Ujjal Chakraborty, Managing Director of Jamshedpur Continuous Annealing & Processing Co. Private Limited (JCAPCL), Dr. Avanish K. Srivastava (Director, CSIR-NML), Dr. Sandip Ghosh Chowdhury (Chief Scientist, CSIR-NML), and Dr. Sital Kumar Pal (Head of Research Planning & Business Development Division). During the event, a capsule video showcasing CSIR-NML's R&D focus and achievements was also displayed.



Dr. Avanish K. Srivastava highlighted the significance of the day, which was initiated by former Prime Minister Atal Bihari Vajpayee in 1999 to recognize Indian scientists, engineers, and technologists for their contribution to the nation's scientific and technological progress. This year's theme was "School to Start-ups-Igniting Young Minds to Innovate."

Dr. Sital Kumar Pal gave a presentation on CSIR-NML's technological achievements in the previous year. He shared that the laboratory licensed/commercialized four technologies and had over 65 active technologies in its portfolio. Dr. Sandip Ghosh Chowdhury introduced the Chief Guest, Ujjal Chakraborty, who appreciated CSIR-NML's contribution to the entire materials cycle, from mineral processing to waste-to-wealth technologies. Chakraborty also emphasized the importance of small-scale industries collaborating with national labs to achieve technological growth. As a part of the celebration, there was a display of posters related to various technologies developed by CSIR-NML. A group of 70 students and 1



faculty from Nettur Technical Training Foundation (NTTF)-Jamshedpur was present at the event and they were excited to gain new knowledge. The event ended with the vote of thanks proposed by Aditya Mainak, Administrative Officer, and the singing of the National Anthem.



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