



## Annual Report

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# 2021-22



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## 1. Director's Message



I feel a great pleasure and pride in presenting to you this annual report of the Academy of Scientific and Innovative Research (AcSIR) for the year 2021-22. As I write this opening message of the annual report of AcSIR, my attention goes to the dedication and hard work of our students, faculty and staff that have been pivotal to its continued growth, success and standing among the community of academic institutions in India and abroad.

AcSIR's progress and achievement of the year embodied in this annual report reflects a new wave of its journey to excellence in academic processes, scientific research and innovation. The vertical of interdisciplinary education and research has taken a structured shape and enter-stage. It has become visible in every aspect of its academic activities. This power of interdisciplinary learning, thoughts and skills of young researchers (Ph.D. students) of AcSIR would be highly catalytic to their ability to address the current and future challenges understanding complex scientific systems and

create the new avenues of their applications for society and humanity more efficiently in their follow up career path.

While most of the major accomplishments of the AcSIR are abridged in this report, I take this privilege to emphasize some of them as a bird's eye view for the readers. Across diverse academic programs of AcSIR such as Ph.D., M.Sc, M.Tech, Master of Public Health and Post-Graduate Diploma, more than 1200 students were admitted at various Academic Centres of AcSIR in the country. Particularly, it is significant that amongst them more than 1150 comprise students joining the Ph.D. program spanning various Science, Technology, Engineering and Mathematics (STEM) subjects. It has many meanings of merit with respect to goals and standing of AcSIR expected at the time of establishment of AcSIR in 2011. These include (a) expected enrollment of one thousand students per year that was achieved in 2018 and is maintained since then, (b) AcSIR has become very attractive for students to pursue Ph.D., (c) AcSIR has become first choice for national R&D institutions outside CSIR for academic alliance, (d) AcSIR has become country's largest network of academic centers with widest geographic coverage of the country, (e) AcSIR, with close to 6000 Ph.D. students on its rolls in STEM, is the largest institution of higher education in India and one of the largest in the world, in this respect. During the year, about 500 students graduated from AcSIR with Ph.D. in STEM. AcSIR students and faculty published about 2300 research papers in indexed journals in the calendar year 2021. In alignment with enrollment of more than 1000 Ph.D. students per annum in AcSIR, within next two years, more than 1000 students would graduate with Ph.D. degree from AcSIR.

In the second year of its participation in the competition for ranks under National Institution Ranking Framework (NIRF), AcSIR improved its NIRF rank under research category from 22<sup>nd</sup> in 2021 to 18<sup>th</sup> in 2022. It is a great position of achievement for an academic institution that has had an academic journey of just 10 years since its establishment in 2011. I am sure with the continuity such stride of rise in NIRF rank, just in a few years AcSIR would be amongst the top 5 academic institution.

I extend my heartfelt gratitude to Professor Chandra Shekhar, Chairman, Board of Governance, and Prof. Shekhar C. Mande, Vice Chairman, AcSIR Board of Governors (BoG) as well as esteemed members of the AcSIR BoG for their invaluable support, guidance and enabling decisions of governance that have been very helpful in our endeavors to steer this institution to its higher pace of growth and achievements.

I thank all the members of the Senate for their invaluable contributions in shaping the academic landscape of our institution to excellence. I appreciate the contribution of the members of the Boards of Study for their essential role in shaping our academic programs, enriching our curriculum, and providing ways for the highest standards education. I would also like to record my sincere appreciation to the Joint Secretary CSIR, Joint Secretary DSIR as well as Directors of CSIR Laboratories and Directors of other R&D institutions affiliated with AcSIR for academics for their kind support and co-operation throughout the year. It ensured seamless execution of AcSIR academic programs across the nation.

I extend my heartfelt gratitude to Deans and Associate Deans of various Faculties of Study, our faculty members, coordinators of AcSIR at its academic centres, our administrative staff, and, most importantly, our students for their unwavering dedication and enormous achievements during the year of their academic pursuits at AcSIR. My special thanks to the leadership and faculty members of Royal Melbourne Institute of Science and Technology (RMIT) University Australia- our first academic partner in Joint Ph.D. program in Australia. It deserves mention that the AcSIR-RMIT Joint Ph.D. Program is the first and flagship international academic program of AcSIR operationalized in 2018. Its success and sound standing has been basis of wider interests of many Australian universities to form academic alliance with AcSIR.

I thank to all my colleagues at AcSIR whose dedicated contributions in their respective roles have greatly enriched and strengthened our organization. I would like to express my gratitude to all the persons, that could not be mentioned here individually by name, who have made direct and/or indirect contributions for the good of AcSIR.

While closing my pen for this message, I request you to go through the pages of this annual report for the stories of efficiency, excellence, innovation, and impact that define the AcSIR today.

I wish AcSIR to grow with the same acceleration in times to come and become a role model institution globally, better than those we mention today in conversation.

Jai Hind Jai Bharat

**(Professor Rajender Singh Sangwan)**

Director, Academy of Scientific and Innovative Research (AcSIR)

## 2. निदेशक का संदेश



वर्ष २०२१-२०२२ के लिए वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर) की यह वार्षिक रपट आपके सामने प्रस्तुत करते हुए मुझे बहुत खुशी और गर्व महसूस हो रहा है। एसीएसआईआर की वार्षिक रिपोर्ट का प्रारंभिक संदेश लिखते हुए, मेरा ध्यान हमारे छात्रों, संकाय सदस्यों एवं कर्मचारियों के समर्पण एवं उनकी कड़ी मेहनत पर जाता है जो इसके निरंतर विकास, सफलता एवं भारत तथा विदेशों में स्थित अकादमिक संस्थानों के समुदाय के बीच प्रतिष्ठित होने का आधार हैं।

यह वार्षिक रपट एसीएसआईआर द्वारा अर्जित इस वर्ष की प्रगति एवं उपलब्धियों को शैक्षणिक प्रक्रियाओं, वैज्ञानिक अनुसंधान और नवाचार में उत्कृष्टता की ओर इसकी यात्रा की एक नई लहर को दर्शाती है। यही नहीं अपितु अंतःविषय-शिक्षा और अनुसंधान के क्षेत्र ने एक संरचित आकृति के चरण में प्रवेश लिया है एवं यह इसकी शैक्षणिक गतिविधियों के हर पहलू में दिखाई देने लगा है।

एसीएसआईआर के युवा शोधकर्ताओं (पीएचडी छात्रों) के विचार एवं अंतःविषय सीख, छात्रों के लिए वर्तमान तथा भविष्य की चुनौतियों का समाधान करने, जटिल वैज्ञानिक प्रणालियों को समझने तथा समाज एवं मानवता के अनुप्रयोगों के लिए नवीन मार्ग के निर्माण हेतु तथा उसके अनुवर्ती जीविका पथ में अधिक कुशलता की क्षमता के लिए उत्प्रेरक होगी।

एसीएसआईआर की अधिकांश प्रमुख उपलब्धियाँ इस रपट में संक्षिप्त हैं, मैं पाठकों के लिए एक सरसरी नज़र के रूप में उनमें से कुछ पर जोर देने का सौभाग्य लेता हूँ। देश में एसीएसआईआर के विभिन्न शैक्षणिक केंद्रों में १२०० से अधिक छात्रों को एसीएसआईआर के विभिन्न शैक्षणिक कार्यक्रमों जैसे- पीएचडी, एमएससी, एम.टेक, मास्टर ऑफ पब्लिक हेल्थ और पोस्ट-ग्रेजुएट डिप्लोमा में प्रवेश दिया गया। विशेषरूप से, उनमें से ११५० से अधिक छात्र पीएचडी में विभिन्न विषयों- विज्ञान, प्रौद्योगिकी, इंजीनियरिंग और गणित (एसटीईएम) पर आधारित कार्यक्रम में शामिल हुए हैं। २०११ में एसीएसआईआर की स्थापना के समय, एसीएसआईआर के लक्ष्यों और स्थिति के संबंध में योग्यता के कई अर्थ अपेक्षित किये गए। इनमें शामिल हैं (क) प्रति वर्ष एक हजार छात्रों का अपेक्षित नामांकन, जो २०१८ में हासिल किया गया था वह अभी तक अनुरक्षित है, (ख) छात्रों के लिए एसीएसआईआर से पीएचडी स्नातक होना, आकर्षक का केंद्र बन गया है, (ग) एसीएसआईआर अकादमिक गठबंधन के लिए एसीएसआईआर के बाहर राष्ट्रीय अनुसंधान एवं विकास संस्थानों के लिए प्रथम पसंद बन गया है, (घ) एसीएसआईआर व्यापक भौगोलिक आवृत क्षेत्र के साथ देश का सबसे बड़ा शैक्षणिक केंद्रों का तंत्र बन गया है, (च) एसीएसआईआर, करीब ६००० पीएच.डी. छात्रों के साथ विज्ञान, प्रौद्योगिकी, इंजीनियरिंग एवं गणित में, भारत में उच्च शिक्षा का सबसे बड़ा संस्थान है और इस संबंध में दुनिया में सबसे बड़े संस्थानों में से एक है। वर्ष के दौरान, लगभग ५०० छात्रों ने एसीएसआईआर से पीएच.डी. के साथ स्नातक की उपाधि विज्ञान, प्रौद्योगिकी, इंजीनियरिंग एवं गणित में प्राप्त की। एसीएसआईआर के छात्रों और संकाय सदस्यों ने कैलेंडर वर्ष २०२१ में अनुक्रमित पत्रिकाओं में लगभग २३०० शोध पत्र प्रकाशित किए। आगामी दो वर्षों के अंतर्गत, १००० से अधिक पीएचडी अभियर्थियों के प्रति वर्ष नामांकन के संरेखण में १००० से अधिक विद्यार्थी पीएचडी डिग्री में स्नातक होंगे।

नेशनल इंस्टीट्यूशन रैंकिंग फ्रेमवर्क (एनआईआरएफ) के तहत रैंक के लिए प्रतियोगिता में अपनी भागीदारी के द्वितीय वर्ष में, एसीएसआईआर ने अनुसंधान श्रेणी के तहत अपनी एनआईआरएफ रैंक को २०२१ में २२वें से बढ़ाकर २०२२ में १८वें स्थान पर पहुंचा दिया। अपनी स्थापना के केवल १० वर्षों की शैक्षणिक यात्रा के दौरान, एक शैक्षणिक संस्थान के लिए यह एक बड़ी उपलब्धि है। मुझे यकीन है कि एनआईआरएफ रैंक में वृद्धि की निरंतरता के साथ, कुछ ही वर्षों में एसीएसआईआर शीर्ष ५ शैक्षणिक संस्थानों में से एक होगा।

मैं, प्रोफेसर चंद्र शेखर, अध्यक्ष, बोर्ड ऑफ गवर्नेस, और प्रोफेसर शेखर सी. मांडे, उपाध्यक्ष, एसीएसआईआर बोर्ड ऑफ गवर्नेस (बीओजी) के साथ-साथ एसीएसआईआर बीओजी के सम्मानित सदस्यों को उनके अमूल्य समर्थन, मार्गदर्शन एवं शासन के सक्षम निर्णय तथा संस्थान के विकास और उपलब्धियों को उच्च गति पर ले जाने लिए सहायक प्रयासों हेतु हार्दिक धन्यवाद देता हूँ।

मैं हमारे संस्थान के शैक्षणिक परिदृश्य को उत्कृष्टता प्रदान करने में उनके अमूल्य योगदान के लिए सीनेट के सभी सदस्यों को धन्यवाद देता हूँ। मैं हमारे शैक्षणिक कार्यक्रमों को आकार देने, हमारे पाठ्यक्रम को समृद्ध करने और उच्चतम मानकों की शिक्षा में आवश्यक भूमिका के लिए अध्ययन बोर्ड के सदस्यों के योगदान की सराहना करता हूँ। मैं, संयुक्त सचिव-सीएसआईआर, संयुक्त सचिव-डीएसआईआर के साथ-साथ सीएसआईआर प्रयोगशालाओं के निदेशकों और एसीएसआईआर से संबद्ध अन्य अनुसंधान एवं विकास संस्थानों के निदेशकों को पूरे वर्ष शिक्षाविदों में उनके समर्थन एवं सहयोग के लिए अपनी हार्दिक सराहना दर्ज करना चाहता हूँ। इस समर्थन ने पूरे देश में एसीएसआईआर शैक्षणिक कार्यक्रमों का निर्बाध निष्पादन सुनिश्चित किया।

मैं, अध्ययन के विभिन्न संकायों के डीन और एसोसिएट डीन, हमारे संकाय सदस्यों, इसके शैक्षणिक केंद्रों में एसीएसआईआर के समन्वयकों, हमारे प्रशासनिक कर्मचारियों और, सबसे महत्वपूर्ण बात, हमारे छात्रों को वर्ष के दौरान एसीएसआईआर में उनकी शैक्षणिक गतिविधियों में उनके अटूट समर्पण और विशाल उपलब्धियों के लिए हार्दिक आभार व्यक्त करता हूँ। मैं, संयुक्त पीएचडी में हमारा पहला शैक्षणिक भागीदार, रॉयल मेलबर्न इंस्टीट्यूट ऑफ साइंस एंड टेक्नोलॉजी (आरएमआईटी) यूनिवर्सिटी, ऑस्ट्रेलिया के नेतृत्व और संकाय सदस्यों को विशेष धन्यवाद देता हूँ। यह उल्लेखनीय है कि एसीएसआईआर-आरएमआईटी संयुक्त पीएच.डी. कार्यक्रम 2018 में संचालित एसीएसआईआर का प्रथम एवं प्रमुख अंतरराष्ट्रीय शैक्षणिक कार्यक्रम है। इसकी सफलता और मजबूत स्थिति एसीएसआईआर के लिए कई ऑस्ट्रेलियाई विश्वविद्यालयों के साथ अकादमिक गठबंधन बनाने का आधार रही है।

मैं एसीएसआईआर में अपने सभी सहयोगियों को धन्यवाद देता हूँ जिनके अपनी भूमिकाओं में समर्पित योगदान ने हमारे संगठन को काफी समृद्ध और मजबूत किया है। मैं उन सभी व्यक्तियों के प्रति अपना आभार व्यक्त करना चाहता हूँ, जिनके नाम का उल्लेख यहां व्यक्तिगत रूप से नहीं किया जा सकता, जिन्होंने एसीएसआईआर की सफलता के लिए प्रत्यक्ष और/या अप्रत्यक्ष योगदान दिया है।

इस संदेश के लिए अपनी कलम बंद करते हुए, मैं आपसे दक्षता, उत्कृष्टता, नवाचार और प्रभाव की कहानियों के लिए इस वार्षिक रिपोर्ट के पन्नों को पढ़ने का अनुरोध करता हूँ जो आज एसीएसआईआर को परिभाषित करते हैं।

मैं कामना करता हूँ कि एसीएसआईआर आने वाले समय में भी इसी तेजी के साथ आगे बढ़े और विश्व स्तर पर एक प्रेरणास्रोत संस्थान बने, जो आज हम बातचीत में उल्लेखित संस्थानों से बेहतर है।

जय हिन्द जय भारत

(प्रोफेसर राजेंद्र सिंह सांगवान)

निदेशक, वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर)

## 2. About us



The trail of realization of the purpose and the need to create an institution like the Academy of Scientific and Innovative Research (AcSIR) as an academic arm of Council of Scientific and Industrial Research (CSIR), owes its origins to the Kelkar Committee, constituted in 2004 to review functioning of the Council of Scientific and Industrial Research (CSIR). The recommendations in the report also embodied a recommendation of emphasizing encouragement to CSIR laboratories to take on the role of a “Research University”.

The efforts of CSIR, most notably in 2010 resulted in the interim operationalization of the Academy of Scientific and Innovative Research (AcSIR) by a Resolution of Government of India on July 17, 2010. As a follow up, establishment of AcSIR, as an Institution of National Importance, was formalized by enactment of an Act of Parliament called Academy of Scientific and Innovative Research Act 2011 (AcSIR Act 2011) on April 03, 2012, after the AcSIR Act 2011 received the assent of the President of India on February 06, 2012.

The academic functionality of AcSIR reflects a ‘Hub and Spoke’ model wherein the AcSIR Headquarter constitutes its hub for centralized shouldering of the responsibilities of academics-cum-administration in the perspectives of policy decisions, academic programme development and promotion, course curriculum development, academic alliances/collaborations, admissions, certification, academic monitoring and internal quality control, etc. Whereas, CSIR National Laboratories/Institutes represent the spokes of the model serving as the mainstay of teaching, learning, and facilitation of doctoral research work through its world class research infrastructure and top-tier mentorship of students by its scientists (AcSIR faculty members). Initially, only CSIR’s 39 national laboratories/institutes and units, represented the academic centres (spokes) of AcSIR. Recently, 12 more national institutions/organization have affiliated with AcSIR as its Associate Academic Centres. This reflects the rapidly rising position of AcSIR in the arena of higher education particularly, the doctoral programs in Science and Engineering. Geographically, AcSIR offers the opportunity of pursuing these academic programs through the academic centres at more than 25 locations across the length and breadth of the nation. These academic centres act as campuses of AcSIR. In addition, AcSIR is rapidly establishing academic linkages with reputed international universities/institutions of higher education to promote student mobility and exchange in a structured manner on a perennial academic attributed of advantage.

The objectives of AcSIR, as stipulated in the AcSIR Act 2011, are:

- i. To disseminate advanced knowledge in science and technology, by providing teaching and research facilities in such brancher of learning as it may deem fit, particularly in emerging areas and such areas as may emerge in future;
- ii. To undertake inter-disciplinary studies and research;
- iii. To conduct courses in, and integrated into its courses, inter-disciplinary and multi-disciplinary areas covering natural sciences, life sciences, mathematical and computational sciences, medical sciences, engineering, applied art, humanities, social sciences, law relating to these areas and interfaces thereof;
- iv. To take appropriate measures for innovations in teaching and learning processes;
- v. To create an ambience for learning and scholarship in advanced science and technology instead of exclusively focusing on marks or grades;
- vi. To educate and train manpower in scientific and technological fields;
- vii. To establish linkages with industries in India and outside India for the promotion of science and technology;
- viii. To collaborate, in appropriate areas in the field of science and technology, with reputed universities and institutions in India or outside India;
- ix. To promote research in science and technology having an impact on social, economic, cultural, intellectual and academic welfare of the people;

As a broad mandate and mission, AcSIR undertakes to offer the opportunities of pursuance of high-quality education and advanced research in frontier areas of Science and Technology for students aspiring for world class research career path for serving the society, humanity and the environment. This mandate and mission of AcSIR is being achieved progressively through interdisciplinary and cross-disciplinary R&D approaches at present covered under 5 faculties of study: Biological Science, Chemical Science, Engineering Science, Mathematical & Information Science and Physical Science. As on March 31 of 2022, more than 3500 Masters and PhD students have already graduated from AcSIR, out of which the Ph.D graduates comprise a major proportion of them.

## 2. एसीएसआईआर के बारे में



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद (सीएसआईआर) की शाखा के रूप में वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर) जैसी संस्था के निर्माण की आवश्यकता और इसके उद्देश्य की प्राप्ति का मार्ग वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद के कार्यों की समीक्षा के लिए वर्ष 2004 में बनायी गयी केलकर समिति के साथ मानी जा सकती है। समिति की रिपोर्ट की सिफारिशों में एक "अनुसंधान विश्वविद्यालय" की भूमिका निभाने के लिए सीएसआईआर प्रयोगशालाओं को प्रोत्साहित करने पर जोर देने की सिफारिश भी शामिल है।

वर्ष 2010 में, विशेष रूप से सीएसआईआर के प्रयासों के परिणामस्वरूप इस दिशा में 17 जुलाई, 2010 को भारत सरकार के एक संकल्प द्वारा वैज्ञानिक और अभिनव अनुसंधान अकादमी (एसीएसआईआर) का अंतरिम संचालन हुआ। राष्ट्रीय महत्व के एक संस्थान के रूप में एसीएसआईआर की स्थापना अनुवर्ती कार्रवाई के रूप में 06 फरवरी 2012 को एसीएसआईआर अधिनियम 2011 को भारत के राष्ट्रपति की सहमति प्राप्त होने के बाद, 03 अप्रैल, 2012 को वैज्ञानिक और नवीकृत अनुसंधान अकादमी अधिनियम 2011 (एसीएसआईआर अधिनियम 2011) नामक संसद के एक अधिनियम के अधिनियमन द्वारा औपचारिक रूप दिया गया।

एसीएसआईआर की अकादमिक कार्यक्षमता एक धुरी एवं तिल्ली मॉडल को दर्शाती है जिसमें एसीएसआईआर मुख्यालय नीतिगत निर्णयों, शैक्षणिक कार्यक्रम विकास और पदोन्नति, पाठ्यक्रम एवं पाठ्यचर्चा विकास, शैक्षणिक गठजोड़/सहयोग, प्रवेश, प्रमाणन, अकादमिक निगरानी और आंतरिक गुणवत्ता नियंत्रण, आदि के परिप्रेक्ष्य में अकादमिक सह प्रशासनिक जिम्मेदारियों को केंद्रीकृत रूप में निभाने के लिए एक धुरी के रूप में कार्य करता है जबकि, सीएसआईआर की राष्ट्रीय प्रयोगशालाएं/संस्थान अपने वैज्ञानिकों (एसीएसआईआर संकाय सदस्य) और अपने विश्व स्तरीय अनुसंधान के बुनियादी ढांचे और परामर्श के माध्यम से शिक्षण, अधिगम और डॉक्टरेट अनुसंधान कार्य के मुख्य आधार के रूप में धुरी (स्पोक्स) मॉडल का प्रतिनिधित्व करते हैं। सीएसआईआर और उसके वैज्ञानिकों (एसीएसआईआर संकाय सदस्यों) की प्रारंभ में, केवल सीएसआईआर की 39 राष्ट्रीय प्रयोगशालाओं/संस्थानों और इकाइयों ने एसीएसआईआर के शैक्षणिक केंद्रों की तिल्ली (स्पोक्स) का प्रतिनिधित्व किया। हाल ही में इसके सहयोगी शैक्षणिक केन्द्रों के रूप में 7 और राष्ट्रीय संस्थानों/संगठनों को एसीएसआईआर के साथ संबद्ध किया गया है। यह उच्च शिक्षा के क्षेत्र में विशेष रूप से विज्ञान और अभियांत्रिकी में डॉक्टरेट कार्यक्रमों में एसीएसआईआर की तेजी से बढ़ती स्थिति को दर्शाता है। भौगोलिक दृष्टि से, एसीएसआईआर देश भर में 25 से अधिक स्थानों पर इन कार्यक्रमों को आगे बढ़ाने का अवसर प्रदान करता है। ये शैक्षणिक केंद्र एसीएसआईआर के परिसरों के रूप में कार्य करते हैं। इसके अलावा, एसीएसआईआर चिरस्थायी कार्यक्रम के रूप में संरचित तरीके से छात्रों

की गतिशीलता को बढ़ावा देने और उनके आदान-प्रदान के लिए प्रतिष्ठित अंतरराष्ट्रीय विश्वविद्यालयों/शिक्षण संस्थानों के साथ तेजी से अकादमिक संबंध स्थापित कर रहा है।

एसीएसआईआर अधिनियम 2011 में निर्धारित एसीएसआईआर के उद्देश्य हैं:

- i. भविष्य में विशेष रूप से उभरते ऐसे क्षेत्रों में जैसा कि यह उपयुक्त हो सकता है, सीखने के ऐसे शाखा में विज्ञान और प्रौद्योगिकी में उन्नत ज्ञान का प्रसार करने के लिए, शिक्षण और अनुसंधान सुविधाएं प्रदान करना।
- ii. अंतर-अनुशासनात्मक अध्ययन और अनुसंधान करना;
- iii. प्राकृतिक विज्ञान, जीवन विज्ञान, गणितीय और कम्प्यूटेशनल विज्ञान, चिकित्सा विज्ञान, इंजीनियरिंग, अनुप्रयुक्त कला, मानविकी, सामाजिक विज्ञान और कानून से संबन्धित क्षेत्रों को कवर करते हुये अंतर-अनुशासनात्मक और बहु-अनुशासनात्मक क्षेत्रों में एकीकृत पाठ्यक्रम का संचालन।
- iv. शिक्षण और सीखने की प्रक्रियाओं में नवाचारों के लिए उचित उपाय करना;
- v. विशेष रूप से अंकों या ग्रेड पर ध्यान केंद्रित करने के बजाय उन्नत विज्ञान और प्रौद्योगिकी में सीखने और छात्रवृत्ति के लिए माहौल बनाना;
- vi. वैज्ञानिक और तकनीकी क्षेत्रों में जनशक्ति को शिक्षित और प्रशिक्षित करना;
- vii. विज्ञान और प्रौद्योगिकी को बढ़ावा देने के लिए भारत और भारत के बाहर उद्योगों के साथ संबंध स्थापित करना;
- viii. भारत या भारत के बाहर प्रतिष्ठित विश्वविद्यालयों और संस्थानों के साथ विज्ञान और प्रौद्योगिकी के क्षेत्र में उपयुक्त क्षेत्रों में सहयोग करना;
- ix. लोगों के सामाजिक, आर्थिक, सांस्कृतिक, बौद्धिक और शैक्षणिक कल्याण पर प्रभाव डालने वाले विज्ञान और प्रौद्योगिकी में अनुसंधान को बढ़ावा देना;

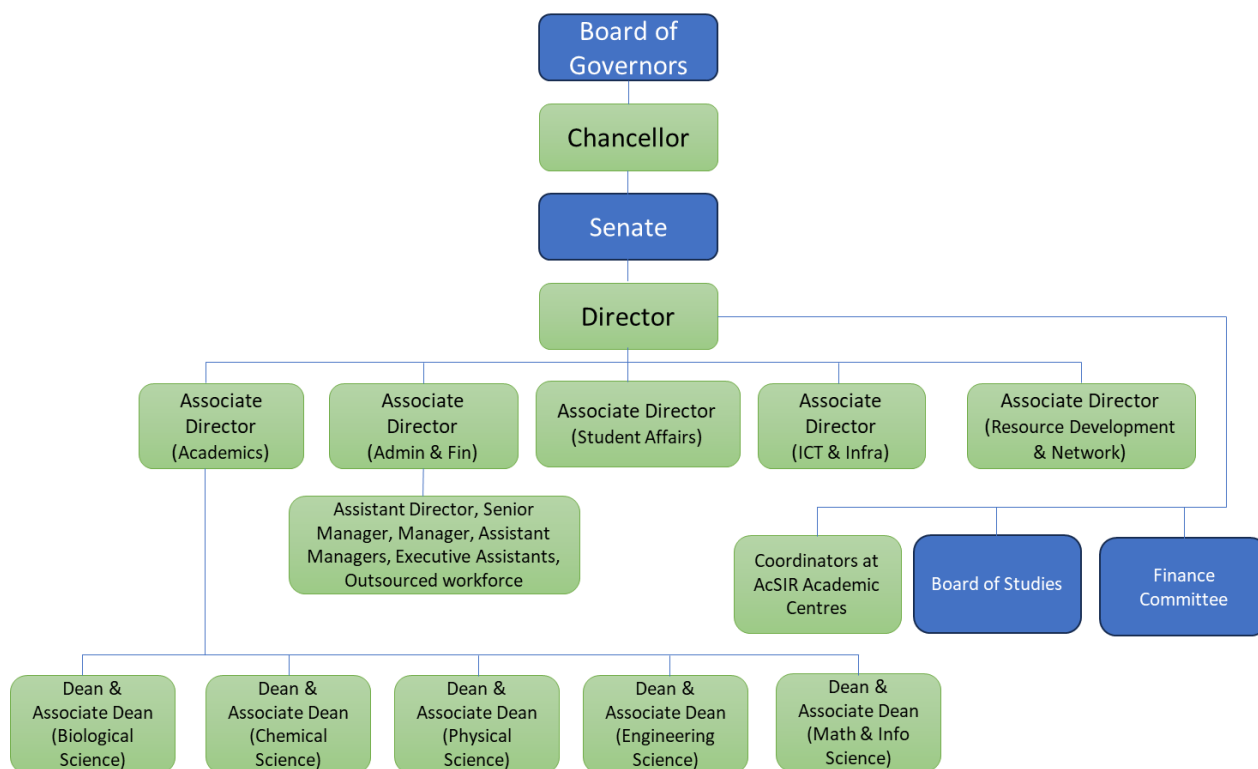
एक व्यापक जनादेश और मिशन के रूप में एसीएसआईआर समाज, मानवता और अखिल विश्व की सेवा के लिए विश्व स्तरीय अनुसंधान कैरियर के इच्छुक छात्रों के लिए विज्ञान और प्रौद्योगिकी के अग्रणी क्षेत्रों में उच्च गुणवत्ता वाली शिक्षा और उन्नत अनुसंधान के अवसर प्रदान करने का कार्य करता है। एसीएसआईआर के इस जनादेश और मिशन को वर्तमान में, जैविक विज्ञान, रसायन विज्ञान, अभियांत्रिकी, गणितीय और सूचना विज्ञान और भौतिक विज्ञान में अध्ययन और अनुसंधान के अंतर्विषय और क्रॉस-डिसिप्लिनरी दृष्टिकोणों के माध्यम से उत्तरोत्तर प्राप्त किया जा रहा है। 31 मार्च 2022 तक, 3500 से अधिक मास्टर्स और पीएच.डी. छात्र पहले ही एसीएसआईआर से उपाधि प्राप्त कर चुके हैं, जिनमें से पीएच.डी. छात्रों का एक बड़ा हिस्सा सम्मिलित है।

### 3. Governance, Academic and Administrative Structure

शासन, शैक्षणिक और प्रशासनिक संरचना

#### Governance Structure

एसीएसआईआर की सांगठनिक संरचना







## Board of Governors, AcSIR

AcSIR is a statutory autonomous organization with the Board of Governors as the pinnacle body of its governance structure. The Board of Governors of AcSIR is responsible for the general superintendence, direction and control of the affairs of the Academy. The Chairman and members of Board of Governors of AcSIR are appointed by the Hon'ble Prime Minister as The President of CSIR. Current Board of Governors of AcSIR, as notified on January 16, 2020, has the following members as on March 31, 2022:

### बोर्ड ऑफ गवर्नर्स, एसीएसआईआर

एसीएसआईआर एक सांविधिक स्वायत्त संगठन है, जिसकी संरचना में सर्वोच्च निकाय के रूप में बोर्ड ऑफ गवर्नर्स हैं। एसीएसआईआर का बोर्ड ऑफ गवर्नर्स (बीओजी) अकादमी के मामलों के सामान्य अधीक्षण, निर्देशन और नियंत्रण के लिए जिम्मेदार है। एसीएसआईआर के बोर्ड ऑफ गवर्नर्स के अध्यक्ष और सदस्यों को माननीय प्रधान मंत्री द्वारा सीएसआईआर के अध्यक्ष होने के नाते नियुक्त किया जाता है। बीओजी के अध्यक्ष एसीएसआईआर के कुलाधिपति के रूप में भी कार्य करते हैं। एसीएसआईआर के वर्तमान बोर्ड ऑफ गवर्नर्स, जैसा कि 16 जनवरी, 2020 को अधिसूचित किया गया है, इसमें निम्नलिखित सदस्य हैं (31 मार्च, 2022 तक):

CHAIRMAN		अध्यक्ष
	<b>Prof. Chandra Shekhar</b> Chancellor, Academy of Scientific and Innovative Research (AcSIR), India	<b>प्रो. चन्द्र शेखर</b> कुलाधिपति, वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर), भारत
VICE-CHAIRMAN		उपाध्यक्ष
	<b>Prof. Shekhar C. Mande</b> Director General, Council of Scientific and Industrial Research (CSIR), India	<b>प्रो. शेखर सी. मांडे</b> महानिदेशक, वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद (सीएसआईआर), भारत
MEMBERS		सदस्यगण
	<b>Prof. Chandrima Shaha</b> President, Indian National Science Academy (INSA), New Delhi <i>Ex-officio Member</i>	<b>प्रो. चंद्रिमा शाह</b> अध्यक्ष, भारतीय राष्ट्रीय विज्ञान अकादमी (आईएनएसए), नई दिल्ली पदेन सदस्य
	<b>Dr. K. Sivan</b> Chairman, Space Commission, Department of Space, Bangalore, Karnataka <i>Ex-officio Member</i>	<b>डॉ. के. सिवन</b> अध्यक्ष, अन्तरिक्ष आयोग, अन्तरिक्ष विभाग, बेंगलूर, कर्नाटक पदेन सदस्य

	<b>Shri. Kamlesh Nilkanth Vyas</b> Chairman of Atomic Energy Commission & Secretary to Govt. of India, DAE, Mumbai, Maharashtra <i>Ex-officio Member</i>	<b>श्री कमलेश नीलकंठ व्यास</b> परमाणु ऊर्जा आयोग के अध्यक्ष और भारत सरकार के सचिव, डीएई, मुंबई, महाराष्ट्र पदेन सदस्य
	<b>Prof. Dharendra Pal Singh</b> Chairman, University Grants Commission (UGC), New Delhi <i>Ex-officio Member</i>	<b>प्रो. धीरेंद्र पाल सिंह</b> अध्यक्ष, विश्वविद्यालय अनुदान आयोग (यूजीसी), नई दिल्ली पदेन सदस्य
	<b>Sh. T.V. Somanathan</b> Finance Secretary, Ministry of Finance, New Delhi <i>Ex-officio Member</i>	<b>श्री टी.वी. सोमनाथन</b> वित्त सचिव, वित्त मंत्रालय, नई दिल्ली पदेन सदस्य
	<b>Prof. Anurag Kumar</b> Honorary Professor, Indian Institute of Science, Bangalore <i>Nominated Member</i>	<b>प्रो. अनुराग कुमार</b> मानद प्रोफेसर, भारतीय विज्ञान संस्थान, बंगलोर मनोनीत सदस्य
	<b>Prof. U.B. Desai</b> Founding Director, Indian Institute of Technology, Hyderabad <i>Nominated Member</i>	<b>प्रो. यू.बी. देसाई</b> संस्थापक निदेशक, भारतीय प्रौद्योगिकी संस्थान, हैदराबाद मनोनीत सदस्य
	<b>Prof. Yogesh Singh</b> Vice Chancellor, Delhi University <i>Nominated Member</i>	<b>प्रो. योगेश सिंह</b> कुलपति, दिल्ली प्रौद्योगिकी विश्वविद्यालय मनोनीत सदस्य
	<b>Prof. Pradeep Kumar Khosla</b> Chancellor, University of California, San Diego, USA <i>Nominated Member</i>	<b>प्रो. प्रदीप कुमार खोसला</b> कुलाधिपति, कैलिफोर्निया विश्वविद्यालय, सैन डिएगो, यू.एस.ए. मनोनीत सदस्य
	<b>Prof. Devang V. Khakhar</b> Former Director, Indian Institute of Technology, Bombay <i>Nominated Member</i>	<b>प्रो. देवांग वी. खाखर</b> पूर्व निदेशक, भारतीय प्रौद्योगिकी संस्थान, बॉम्बे मनोनीत सदस्य
	<b>Dr. Soumya Swaminathan</b> Chief Scientist, World Health Organization, Geneva, Switzerland <i>Nominated Member</i>	<b>डॉ. सौम्या स्वामीनाथन</b> मुख्य वैज्ञानिक, विश्व स्वास्थ्य संगठन, जिनेवा, स्विट्ज़रलैंड मनोनीत सदस्य
	<b>Ms. Vinita Bali</b> Member, Board of Directors, Cognizant <i>Nominated Member</i>	<b>सुश्री विनीता बाली</b> सदस्य, निदेशक मण्डल, कॉग्निज़ेंट मनोनीत सदस्य
	<b>Mr. Ravi Pandit</b> Co-Founder, Chair & CEO, KPIT Technologies, Pune <i>Nominated Member</i>	<b>श्री रवि पंडित</b> सह-संस्थापक, अध्यक्ष और सी.ई.ओ., केपीआईटी टेक्नोलॉजीज, पुणे मनोनीत सदस्य

	<b>Dr. Rajiv I. Modi</b> CMD, Cadila Pharmaceuticals <i>Nominated Member</i>	<b>डॉ. राजीव आई. मोदी</b> सी.एम.डी. कैडिला फार्मास्यूटिकल्स मनोनीत सदस्य
	<b>Prof. A. Ajayaghosh</b> Director, CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram <i>Nominated Member</i>	<b>प्रो. ए. अजयघोष</b> निदेशक, सीएसआईआर-राष्ट्रीय अंतर्विषयी विज्ञान तथा प्रौद्योगिकी संस्थान, तिरुवनंतपुरम मनोनीत सदस्य
	<b>Prof. Tapas Kundu</b> Director, CSIR-Central Drug Research Institute, Lucknow <i>Nominated Member</i>	<b>प्रो. तापस कुंडू</b> निदेशक, सीएसआईआर-केंद्रीय औषधि अनुसंधान संस्थान, लखनऊ मनोनीत सदस्य
	<b>Prof. Suddhasatwa Basu</b> Director, Institute of Minerals and Materials Technology, Bhubaneswar <i>Nominated Member</i>	<b>प्रो. सुधासत्त्व बसु</b> निदेशक, खनिज एवं पदार्थ प्रौद्योगिकी संस्थान, भुवनेश्वर मनोनीत सदस्य
	<b>Prof. Ranjana Aggarwal</b> Director, CSIR-National Institute of Science, Technology and Development Studies, New Delhi <i>Nominated Member</i>	<b>प्रो. रंजना अग्रवाल</b> निदेशक, सीएसआईआर-राष्ट्रीय विज्ञान प्रौद्योगिकी और विकास अध्ययन संस्थान, नई दिल्ली मनोनीत सदस्य
	<b>Prof. Rajender Singh Sangwan</b> Director, Academy of Scientific and Innovative Research, Ghaziabad <i>Ex-officio Member</i>	<b>प्रो. राजेन्द्र सिंह सांगवान</b> निदेशक, वैज्ञानिक और नवीकृत अनुसंधान अकादमी, गाजियाबाद मनोनीत सदस्य
<div> <div>Secretary</div> <div>Sachiv</div> </div>		
	<b>Prof. Ajay Dhar</b> Associate Director (Administration and Finance), AcSIR	<b>प्रो. अजय धर</b> एसोसिएट निदेशक (प्रशासन और वित्त), एसीएसआईआर

## Senate, AcSIR






The Senate, AcSIR exercises general control and regulation of AcSIR academics, and is responsible for the maintenance and improvement of standards of instruction, education and examinations in the Academy, quality of its graduates etc. The composition of the Senate, as on March 31, 2022, is as under:

### सीनेट एसीएसआईआर

सीनेट, एसीएसआईआर के पास शिक्षाविदों का नियंत्रण और सामान्य विनियमन है और यह अकादमी में निर्देश, शिक्षा और परीक्षाओं, स्नातकों की गुणवत्ता आदि के मानकों के रखरखाव हेतु जिम्मेदार है। सीनेट की वर्तमान संरचना (31 मार्च, 2022 तक) इस प्रकार है:

CHAIRMAN		अध्यक्ष
	<b>Prof. Rajender Singh Sangwan</b> Director, AcSIR	<b>प्रो. राजेंद्र सिंह सांगवान</b> निदेशक, वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर), भारत
MEMBERS		सदस्यगण
	<b>Prof. Ajay Dhar</b> Associate Director (Student Affairs), AcSIR	<b>प्रो. अजय धर</b> एसोसिएट निदेशक (छात्र से संबंधित मामले), एसीएसआईआर
	<b>Prof. Naresh Chandra Murmu</b> Dean (Engineering Sciences) AcSIR CSIR-Central Mechanical Engineering Research Institute, Durgapur	<b>प्रो. नरेश चंद्र मुर्मू</b> डीन (इंजीनियरिंग विज्ञान) एसीएसआईआर सीएसआईआर- केंद्रीय यांत्रिक इंजीनियरिंग अनुसंधान संस्थान, दुर्गापुर
	<b>Prof. Saman Habib</b> Dean (Biological Sciences) AcSIR CSIR-Central Drug Research Institute, Lucknow	<b>प्रो. समन हबीब</b> डीन (जैविक विज्ञान) एसीएसआईआर सीएसआईआर-केंद्रीय औषधि अनुसंधान संस्थान, लखनऊ
	<b>Prof. Ramanuj Narayan</b> Dean (Chemical Sciences) AcSIR CSIR-Indian Institute of Chemical Technology, Hyderabad	<b>डॉ. रामानुज नारायण</b> डीन (रासायनिक विज्ञान), एसीएसआईआर सीएसआईआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान, हैदराबाद
	<b>Prof. Danda Srinivas Rao</b> Dean (Physical Sciences) CSIR-Institute of Minerals and Materials Technology, Bhubaneswar	<b>प्रो. डंडा श्रीनिवास राव</b> डीन (भौतिक विज्ञान), एसीएसआईआर सीएसआईआर- खनिज और सामग्री प्रौद्योगिकी संस्थान, भुवनेश्वर
	<b>Prof. Munia Ganguli</b> (Biological Sciences) CSIR-Institute of Genomics and Integrative Biology, Delhi	<b>प्रो. मुनिया गांगुली</b> (जैविक विज्ञान) सीएसआईआर-इंस्टीट्यूट ऑफ जीनोमिक्स एंड इंटीग्रेटिव बायोलॉजी, दिल्ली

	<b>Prof. G Narahary Sastry</b> (Chemical Sciences) CSIR- Indian Institute of Chemical Technology, Hyderabad	<b>प्रो. जी. नरहरि शास्त्री</b>  सीएसआईआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान, हैदराबाद
	<b>Prof. Manik Varma</b> (Engineering Sciences) Partner Research, Microsoft Research India, Adjunct Professor (Computer Sciences), IIT Delhi	<b>प्रो. माणिक वर्मा</b> (इंजीनियरिंग साइंस) पार्टनर रिसर्च, माइक्रोसॉफ्ट रिसर्च इंडिया, एडजंक्ट प्रोफेसर (कंप्यूटर साइंस), आईआईटी दिल्ली
	<b>Prof. Annapoorni Subramanian</b> (Physical Sciences) Delhi University	<b>प्रो. अन्नपूर्णा सुब्रमनियन</b> (भौतिक विज्ञान) दिल्ली विश्वविद्यालय
	<b>Dr. Binoy Kumar Saikia</b> CSIR-North East Institute of Science and Technology, Jorhat	<b>डॉ. ए.एस. बिनॉय कुमार सैकिया</b> सीएसआईआर-पूर्वोत्तर विज्ञान एवं प्रौद्योगिकी संस्थान, जोरहाट, असम
	<b>Dr. Amol Arvindrao Kulkarni</b> CSIR-National Chemical Laboratory, Pune	<b>डॉ. अमोल अरविंदराव कुलकर्णी</b> सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला, पुणे, महाराष्ट्र
	<b>Dr. Divya Tej Sowpati</b> CSIR-Centre for Cellular and Molecular Biology, Hyderabad	<b>डॉ. दिव्या तेज सौपति</b> सीएसआईआर-कोशिकीय और आण्विक जीवविज्ञान केंद्र, हैदराबाद, तेलंगाना
	<b>Dr. Achu Chandran</b> CSIR-National Institute of Interdisciplinary Science and Technology, Thiruvananthapuram	<b>डॉ. अचू चंद्रन</b> सीएसआईआर-राष्ट्रीय अंतःविषय विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनंतपुरम, केरल
	<b>Dr. Sridevi Annapurna Singh</b> CSIR-Central Food Technological Research Institute, Mysuru	<b>डॉ. देवी अन्नपूर्णा सिंह</b> सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिकी अनुसंधान संस्थान, मैसूर, कर्नाटक
	<b>Dr. Sridevi Jade</b> CSIR-Fourth Paradigm Institute, Bengaluru	<b>डॉ. श्रीदेवी जेड</b> सीएसआईआर-चतुर्थ प्रतिमान संस्थान, बेंगलुरु, कर्नाटक
	<b>Dr. C.S. Gopinath</b> CSIR-National Chemical Laboratory, Pune	<b>डॉ. सी.एस. गोपीनाथ</b> सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला
	<b>Prof. R.K. Sinha</b> Professor, Department of Applied Physics, Delhi Technological University	<b>प्रो आर.के. कुमारी</b> एप्लाइड फिजिक्स विभाग, दिल्ली टेक्नोलॉजिकल यूनिवर्सिटी
	<b>Prof. Ajay Agarwal</b> Professor, Department of Electrical Engineering, Indian Institute of Technology, Jodhpur	<b>प्रो. अजय अग्रवाल</b> प्रोफेसर, इलेक्ट्रिकल इंजीनियरिंग विभाग, भारतीय प्रौद्योगिकी संस्थान, जोधपुर

	<b>Prof. Haripriya Gundimeda</b> Professor, Department of Humanities and Social Sciences, Indian Institute of Technology, Bombay	<b>प्रो. हरिप्रिया गुन्डीमेडा</b> मानविकी और सामाजिक विज्ञान विभाग, भारतीय प्रौद्योगिकी संस्थान, बॉम्बे
	<b>Prof. Mahesh J. Kulkarni</b> Associate Dean (Biological Sciences) AcSIR CSIR-National Chemical Laboratory, Pune	<b>प्रो. महेश जे. कुलकर्णी</b> एसोसिएट डीन (जैविक विज्ञान) एसीएसआईआर सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला, पुणे
	<b>Prof. C.H Suresh</b> Associate Dean (Chemical Sciences) AcSIR CSIR-National Institute for Interdisciplinary Science And Technology, Thiruvananthapuram	<b>प्रो. सी.एच. सुरेश</b> एसोसिएट डीन (रासायनिक विज्ञान) एसीएसआईआर सीएसआईआर-राष्ट्रीय अंतःविषय विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनंतपुरम
	<b>Dr. Neerja Garg</b> Associate Dean (Mathematical & Information Sciences) AcSIR CSIR-Central Scientific Instruments Organisation, Chandigarh	<b>डॉ. नीरजा गर्ग</b> एसोसिएट डीन (गणितीय और सूचना विज्ञान) एसीएसआईआर सीएसआईआर-केंद्रीय वैज्ञानिक उपकरण संगठन, चंडीगढ़
<b>Secretary (Non-member)</b>		
	<b>Ms. Arpita Sengupta</b> Senior Manager, AcSIR	<b>सुश्री अर्पिता सेनगुप्ता</b> वरिष्ठ प्रबंधक, एसीएसआईआर

## Boards of Studies of AcSIR

The courses across different academic programs are regularly revised under the guidance of Boards of Studies for the different faculties of study. AcSIR has two Boards of Study in an inter-disciplinary cluster form i.e. (1) Board of Studies of Biological and Chemical Sciences Cluster and (2) Board of Studies of Engineering and Physical Sciences Cluster. The recommendations of the Boards of Studies are considered for approval by the Senate, AcSIR. The composition of the Boards of Studies (as on March 31, 2022) is as follows:

### एसीएसआईआर के अध्ययन बोर्ड

अध्ययन के विभिन्न क्षेत्रों के लिए अध्ययन बोर्डों के मार्गदर्शन में विभिन्न शैक्षणिक कार्यक्रमों के पाठ्यक्रमों को नियमित रूप से संशोधित किया जाता है। एसीएसआईआर में अंतर-शास्त्रीय समूह के रूप में दो अध्ययन बोर्ड हैं। ये हैं: (1) जैविक और रासायनिक विज्ञान समूह अध्ययन बोर्ड, और (2) अभियांत्रिकी और भौतिक विज्ञान समूह अध्ययन बोर्ड। सीनेट, एसीएसआईआर द्वारा अनुमोदन के लिए अध्ययन बोर्ड की सिफारिशों पर विचार किया जाता है। अध्ययन बोर्डों की संरचना (31 मार्च, 2022 तक) इस प्रकार है:

### Board of Studies of Biological and Chemical Sciences Cluster:

जैविक और रासायनिक विज्ञान समूह अध्ययन बोर्ड :

Chairman		अध्यक्ष
	Prof. Ajay Dhar Associate Director (Academic)	प्रो. अजय धर एसोसिएट निदेशक (अकादमिक)
Members		सदस्यगण
	Prof. Saman Habib Dean (Biological Science), AcSIR	प्रो. समन हबीब डीन (जैविक विज्ञान), एसीएसआईआर
	Prof. Ramanuj Narayan Dean (Chemical Science), AcSIR	प्रो. रामानुज नारायण डीन (केमिकल साइंस), एसीएसआईआर
	Prof. Munia Ganguli CSIR-IGIB, New Delhi	प्रो. मुनिया गांगुली सीएसआईआर-आईजीआईबी, नई दिल्ली
	Prof. G. Narahari Sastry CSIR-NEIST, Jorhat	प्रो. जी. नरहरि शास्त्री सीएसआईआर-एनईआईएसटी, जोरहाट

	Dr. Alka Rao CSIR-IMTECH, Chandigarh	<b>डॉ. अलका राव</b> सीएसआईआर-आईएमटेक, चंडीगढ़
	Prof. Sadhana Suresh Rayulu CSIR-NEERI, Nagpur	<b>प्रो. साधना सुरेश रायुलु</b> सीएसआईआर-नीरी, नागपुर
	Prof. A.S. Raghavendra University of Hyderabad, Hyderabad	<b>प्रो. ए.एस राघवेंद्र</b> हैदराबाद विश्वविद्यालय, हैदराबाद
	Prof. Ramaswamy Murugavel Indian Institute of Technology, Bombay	<b>प्रो. रामास्वामी मुरुगवेल</b> भारतीय प्रौद्योगिकी संस्थान, बॉम्बे
<b>Member Secretary</b>		<b>सदस्य सचिव</b>
	Prof. Mahesh J. Kulkarni Associate Dean (Biological Science), AcSIR	<b>प्रो. महेश जे. कुलकर्णी</b> एसोसिएट डीन (जैविक विज्ञान), एसीएसआईआर
	Prof. C.H. Suresh Associate Dean (Chemical Science), AcSIR	<b>प्रो. सी.एच. सुरेश</b> एसोसिएट डीन (केमिकल साइंस), एसीएसआईआर

## Board of Studies of Engineering and Physical Sciences Cluster:

### अभियांत्रिकी और भौतिक विज्ञान समूह अध्ययन बोर्ड :

Chairman		अध्यक्ष
	Prof. Ajay Dhar Associate Director (Academic)	प्रो. अजय धर एसोसिएट निदेशक (अकादमिक)
Members		सदस्यगण
	Prof. Naresh Chandra Murmu Dean (Engineering Science), AcSIR	प्रो. नरेश चंद्र मुर्मू डीन (इंजीनियरिंग साइंस), एसीएसआईआर
	Prof. D. Srinivasa Rao Dean (Physical Science), AcSIR	प्रो. डी. श्रीनिवास राव डीन (भौतिक विज्ञान), एसीएसआईआर
	Dr. Manik Varma Microsoft Research Indian & Adjunct Professor (Computer Sc.), IIT Delhi	डॉ. माणिक वर्मा माइक्रोसॉफ्ट रिसर्च इंडियन एंड एडजंक्ट प्रोफेसर (कंप्यूटर साइंस), आईआईटी दिल्ली
	Prof. Annapoorni Subramanian University of Delhi, Delhi	प्रो. अन्नपूर्णा सुब्रमनियन दिल्ली विश्वविद्यालय, दिल्ली
	Dr. Amol A. Kulkarni CSIR-NCL, Pune	डॉ. अमोल ए. कुलकर्णी सीएसआईआर-एनसीएल, पुणे
	Dr. Anjana Jain CSIR-NAL, Bengaluru	डॉ. अंजना जैन सीएसआईआर-एनएएल, बेंगलुरु
	Prof. G. Madhavi Latha Indian Institute of Science, Bengaluru	प्रो. जी. माधवी लथा भारतीय विज्ञान संस्थान, बेंगलुरु
	Prof. R.K. Sinha Delhi Technological University, Delhi	प्रो. आर.के. सिन्हा दिल्ली प्रौद्योगिकी विश्वविद्यालय, दिल्ली
Member Secretary		सदस्य सचिव
	Dr. Neerja Garg Associate Dean (Mathematical & Information Sciences), AcSIR	डॉ. नीरजा गर्ग एसोसिएट डीन (गणितीय और सूचना विज्ञान), एसीएसआईआर

## Finance Committee of AcSIR

Finance Committee of AcSIR takes stock of the financial receipts and expenditure of AcSIR.

It also makes its policy recommendations related to financial planning, deployment, grants, investments etc. in the perspectives of self- sustainability of the organization as well as growth of quality, quantity and collaboration of AcSIR for the growing brand of AcSIR among the peers. The recommendations of the Finance Committee are submitted to the Board for approval.

### एसीएसआईआर की वित्त समिति

एसीएसआईआर की वित्त समिति एसीएसआईआर की वित्तीय प्राप्तियों और व्यय का जायजा लेती है।

समकक्ष संस्थानों के बीच एसीएसआईआर के ब्रांड में बढ़त हेतु एसीएसआईआर की गुणवत्ता, मात्रा और सहयोग में वृद्धि के साथ-साथ संगठन की आत्मनिर्भरता के परिप्रेक्ष्य में यह समिति निवेश, अनुदान, परिनियोजन और वित्तीय नियोजन आदि से संबंधित अपनी नीतिगत सिफारिशें भी प्रस्तुत करती है। वित्त समिति की सिफारिशों को अनुमोदन हेतु बोर्ड के समक्ष प्रस्तुत किया जाता है।

The current composition of AcSIR Finance Committee is as under:

एसीएसआईआर वित्त समिति की वर्तमान संरचना इस प्रकार है:

Chairperson		अध्यक्ष
	<b>Prof. Rajender Singh Sangwan</b> Director, AcSIR	<b>प्रो. राजेंद्र सिंह सांगवान</b> निदेशक, वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर), भारत
MEMBERS		सदस्यगण
	<b>Prof. Ajay Dhar</b> Associate Director (Administration & Finance), AcSIR	<b>प्रो. अजय धर</b> एसोसिएट निदेशक (छात्र से संबंधित मामले), एसीएसआईआर
	<b>Mr. Rattan Lal Sharma</b> Retd. Sr. Dy. Fin. Advisor, CSIR HQs.	<b>श्री रतन लाल शर्मा</b> सेवानिवृत्त वरिष्ठ उप वित्त सलाहकार, सीएसआईआर मुख्यालय
	<b>Prof. Ramanuj Narayan</b> CSIR-IICT, Hyderabad & Dean (Chemical Science), AcSIR	<b>प्रो. रामानुज नारायण</b> सीएसआईआर-आईआईसीटी, हैदराबाद और डीन (केमिकल साइंस), एसीएसआईआर
MEMBER SECRETARY		सदस्य सचिव
	<b>Ms. Arpita Sengupta</b> Senior Manager, AcSIR	<b>सुश्री अर्पिता सेनगुप्ता</b> वरिष्ठ प्रबंधक, एसीएसआईआर

<b>Academic Functionaries at AcSIR</b>	<b>एसीएसआईआर में अकादमिक पदाधिकारी :</b>
Prof. Chandra Shekhar, Chancellor	प्रो. चंद्रशेखर, कुलाधिपति
Prof. Rajender Singh Sangwan, Director	प्रो. राजेंद्र सिंह सांगवान, निदेशक
Prof. Ajay Dhar, Associate Director (Student Affairs)	प्रो. अजय धर, एसोसिएट निदेशक (छात्र मामले)
Prof. Ramanuj Narayan, Dean (Chemical Science)	प्रो. के. रविकुमार, एसोसिएट निदेशक (शैक्षणिक)
Prof. Naresh Chandra Murmu, Dean (Engineering Science)	प्रो. रामानुज नारायण, एसोसिएट डीन (रासायनिक विज्ञान)
Prof. Saman Habib, Dean (Biological Science)	प्रो. नरेश चंद्र मुर्मू, डीन (इंजीनियरिंग साइंस)
Prof. Danda Srinivas Rao, Dean (Physical Science)	प्रो. समन हबीब, डीन (जैविक विज्ञान)
Prof. Suresh C. H, Associate Dean (Chemical Science)	प्रो. डंडा श्रीनिवास राव, डीन (भौतिक विज्ञान)
Prof. Mahesh J Kulkarni, Associate Dean (Biological Science)	प्रो. सुरेश सी.एच, एसोसिएट डीन (रासायनिक विज्ञान)
Dr. Neerja Garg, Associate Dean (Mathematical & Information Science)	प्रो. महेश जे. कुलकर्णी, एसोसिएट डीन (जैविक विज्ञान)

<b>AcSIR Coordinator</b>	<b>AcSIR Academic Centre</b>	<b>एसीएसआईआर समन्वयक</b>	<b>एसीएसआईआर अकादमिक केंद्र</b>
Dr. S. A. R Hashmi	CSIR-AMPRI, Bhopal	डॉ. एस.ए.आर. हाशमी	सीएसआईआर-एएमपीआरआई, भोपाल
Dr. Soraj Kumar Panigrahi	CSIR-CBRI, Roorkee	डॉ. सरोज कुमार पाणिग्रही	सीएसआईआर-सीबीआरआई, रुड़की
Dr. Puran Singh Sijwali	CSIR-CCMB, Hyderabad	डॉ. पूरन सिंह सिजवाली	सीएसआईआर-सीसीएमबी, हैदराबाद
Dr. Ritu Trivedi	CSIR-CDRI, Lucknow	डॉ. रितु त्रिवेदी	सीएसआईआर-सीडीआरआई, लखनऊ
Dr. B. Ramesh Babu	CSIR-CECRI, Karaikudi	डॉ. बी. रमेश बाबू	सीएसआईआर-सीईसीआरआई, कराईकुडी
Dr. Mahanth Prasad	CSIR-CEERI, Pilani	डॉ. महंथ प्रसाद	सीएसआईआर-सीएरी, पिलानी
Dr. Giridhar Parvatham	CSIR-CFTRI, Mysuru	डॉ. गिरिधर पार्वथम	सीएसआईआर-सीएफटीआरआई, मैसूर
Dr. Kausik Dana (w.e.f. 1.1.2022) Dr. Sourindra Mahanty (till 31.12.2021)	CSIR-CGCRI, New Delhi	डॉ. कौसिक दाना (1.1.2022 से) डॉ. सौरिंद्र महंती (31.12.2021 तक)	सीएसआईआर-सीजीसीआरआई, कोलकाता
Dr. Suaib Luqman	CSIR-CIMAP, Lucknow	डॉ. सुएब लुकमान	सीएसआईआर-सीमैप, लखनऊ
Dr. Sudip Maity	CSIR-CIMFR, Dhanbad	डॉ. सुदीप मैती	सीएसआईआर-सीआईएमएफआर, धनबाद
Dr. V.G. Vaidyanathan	CSIR-CLRI, Chennai	डॉ. वी.जी. वैद्यनाथन	सीएसआईआर-सीएलआरआई, चेन्नई
Dr. Nripen Chanda	CSIR-CMERI, Durgapur	डॉ. नृपेन चंदा	सीएसआईआर-सीएमईआरआई, दुर्गापुर

Dr. K C Gouda	CSIR-4PI, Bengaluru	डॉ. के.सी. गौड़ा	सीएसआईआर-4पीआई, बेंगलुरु
Dr. Ch. Ravi Sekhar	CSIR-CRRI, New Delhi	डॉ. च. रवि शेखर	सीएसआईआर-सीआरआरआई, नई दिल्ली
Dr. Vinod Karar	CSIR-CSIO, Chandigarh	डॉ. विनोद करार	सीएसआईआर-सीएसआईओ, चंडीगढ़
Dr. D N Srivastava	CSIR-CSMCRI, Bhavnagar	डॉ. डी.एन. श्रीवास्तव	सीएसआईआर-सीएसएमसीआरआई, भावनगर
Dr. Neeru Saini	CSIR-IGIB, New Delhi	डॉ. नीरू सैनी	सीएसआईआर-आईजीआईबी, नई दिल्ली
Dr. Amit Kumar (w.e.f. 21.1.2022) Dr. Ram Kumar Sharma (till 20.1.2022)	CSIR-IHBT, Palampur	डॉ. अमित कुमार (21.1.2022 से) डॉ. राम कुमार शर्मा (20.1.2022 तक)	सीएसआईआर-आईएचबीटी, पालमपुर
Dr. Sanjay Dutta	CSIR-IICB, Kolkata	डॉ. संजय दत्ता	सीएसआईआर-आईआईसीबी, कोलकाता
Dr. Chada Raji Reddy	CSIR-IICT, Hyderabad	डॉ. चडा राजी रेड्डी	सीएसआईआर-आईआईसीटी, हैदराबाद
Dr. Tasduq Abdullah	CSIR-IIIM, Jammu	डॉ. तस्दुक अब्दुल्ला	सीएसआईआर-आईआईआईएम, जम्मू
Dr. Subham Pal	CSIR-IIP, Dehradun	डॉ. शुभम पाल	सीएसआईआर-आईआईपी, देहरादून
Dr. Mahendra Pratap Singh	CSIR-IITR, Lucknow	डॉ. महेंद्र प्रताप सिंह	सीएसआईआर-आईआईटीआर, लखनऊ
Dr. Bama Prasad Bag	CSIR-IMMT, Bhubaneswar	डॉ. बामा प्रसाद बाग	सीएसआईआर-आईएमएमटी, भुवनेश्वर
Prof. Balvinder Singh (w.e.f. 1.1.2022) Dr. Charu Sharma (till 31.12.2021)	CSIR-IMTECH, Chandigarh	प्रोफ. बलविंदर सिंह (1.1.2022 से) डॉ. चारु शर्मा (31.12.2021 तक)	सीएसआईआर-आईएमटेक, चंडीगढ़
Dr. A. Vanaja	CSIR-NAL, Bengaluru	डॉ. ए. वनाजा	सीएसआईआर-एनएएल, बेंगलुरु
Dr. Vidhu A. Sane	CSIR-NBRI, Lucknow	डॉ. विधु ए. साने	सीएसआईआर-एनबीआरआई, लखनऊ
Dr. Santosh Mhaske, Dr. Ram Rup Sarkar	CSIR-NCL, Pune	डॉ. संतोष म्हस्के, डॉ. राम रूप सरकार	सीएसआईआर-एनसीएल, पुणे
Dr. R. J. Krupadam	CSIR-NEERI, New Delhi	डॉ. आर.जे. कूपदम	सीएसआईआर-नीरी, नागपुर
Dr. Manash Ranjan Das	CSIR-NEIST, Jorhat	डॉ. मानव रंजन दास	सीएसआईआर-एनईआईएसटी, जोरहाट
Dr. Kalpana Gahalaut (w.e.f. 1.2.2022) Dr. Kirti Srivastava (till 31.1.2022)	CSIR-NGRI, Hyderabad	डॉ. कल्पना गहलौत (1.2.2022 से) डॉ. कीर्ति श्रीवास्तव (31.1.2022 तक)	सीएसआईआर-एनजीआरआई, हैदराबाद
Dr. Karunakaran V.	CSIR-NIIST, Thiruvananthapuram	डॉ. करुणाकरण वी.	सीएसआईआर-एनआईआईएसटी, तिरुवनंतपुर
Dr. Narsinh Thakur	CSIR-NIO, Goa	डॉ. नरसिंह ठाकुर	सीएसआईआर-एनआईओ, गोवा

Dr. Vipin Kumar	CSIR-NIScPR, New Delhi	डॉ. विपिन कुमार	सीएसआईआर-निस्पर, नई दिल्ली
Dr. J.K. Sahu	CSIR-NML, Jamshedpur	डॉ. जे.के. साहू	सीएसआईआर-एनएमएल, जमशेदपुर
Dr. Rina Sharma	CSIR-NPL, New Delhi	डॉ. रीना शर्मा	सीएसआईआर-एनपीएल, नई दिल्ली
Dr. Saptarshi Sasmal,	CSIR-SERC, Chennai	डॉ. सप्तर्षि सस्मल	सीएसआईआर-एसईआरसी, चेन्नई
Dr. (Ms.) Paromita Banerjee	CSIR-URDIP, Pune	डॉ. (सुश्री) परोमिता बनर्जी	सीएसआईआर-यूआरडीआईपी, पुणे
Dr. Niveditha Devasenpathy	PHFI-IIPH, New Delhi	डॉ. निवेदिता देवसेनपथी	पीएचएफआई-आईआईपीएच, नई दिल्ली
Dr. Suresh Munuswamy	PHFI-IIPH, Hyderabad	डॉ. सुरेश मुनुस्वामी	पीएचएफआई-आईआईपीएच, हैदराबाद
Dr. Shrikant Bharadwaj Dr. Indumathi Mariappan	LVPEI, Hyderabad	डॉ. श्रीकांत भारद्वाज डॉ. इंदुमथी मरियप्पन	एलवीपीईआई, हैदराबाद
Dr. Anupam Sharma	DST-BSIP, Lucknow	डॉ. अनुपम शर्मा	डीएसटी-बीएसआईपी, लखनऊ
Dr. Kailash C. Pandey	ICMR-NIMR, New Delhi	डॉ. कैलाश सी. पाण्डेय	आईसीएमआर-एनआईएमआर, नई दिल्ली
Dr. Sanjeev Khosla	DBT-CDFD, Hyderabad	डॉ. संजीव खोसला	डीबीटी-सीडीएफडी, हैदराबाद
Dr. Dhruva Sharma	DST-IASST, Guwahati	डॉ. ध्रुव शर्मा	डीएसटी- आईएसएसटी, गुवाहाटी
Dr. Abir De Sarkar	DST-INST, Chandigarh	डॉ. अबीर दे सरकार	डीएसटी-आईएनएसटी, चंडीगढ़
Dr. Koushik Sen	DST-WIHG, Dehradun	डॉ. कौशिक सेन	डीएसटी-डब्ल्यूआईएचजी, देहरादून

S. no	Administrative Functionaries of AcSIR & their workplaces:	एसीएसआईआर में प्रशासनिक अधिकारी और उनके कार्य स्थान :
1.	Prof. Rajender Singh Sangwan, Director, (AcSIR HQs)	प्रो. राजेंद्र सिंह सांगवान, निदेशक, (एसीएसआईआर मुख्यालय)
2.	Prof. Ajay Dhar, Associate Director (Admin & Finance), (AcSIR HQs)	प्रो. अजय धर, एसोसिएट निदेशक (प्रशासन और वित्त), (एसीएसआईआर मुख्यालय)
3.	Ms. Arpita Sengupta, Senior Manager, (AcSIR HQs)	सुश्री अर्पिता सेनगुप्ता, वरिष्ठ प्रबंधक, (एसीएसआईआर मुख्यालय)
4.	Mr. Ashwini Mishra, Manager, (AcSIR HQs)	श्री अश्विनी मिश्रा, प्रबंधक, (एसीएसआईआर मुख्यालय)
5.	Mrs. Manju Bagai, Legal Adviser, (AcSIR HQs)	श्रीमती मंजू बगई, कानूनी सलाहकार, (एसीएसआईआर मुख्यालय)
6.	Ms. Aarti Katoch, Assistant Manager, (AcSIR HQs)	सुश्री आरती कटोच, सहायक प्रबंधक, (एसीएसआईआर मुख्यालय)
7.	Mr. Suneet Sapra, Assistant Manager, (CSIR-CSIO)	श्री सुनीत सपरा, सहायक प्रबंधक, (सीएसआईआर-सीएसआईओ)
8.	Mr. Karan Sharma,	श्री करण शर्मा, सहायक प्रबंधक, (सीएसआईआर-आईएचबीटी)

	Assistant Manager, (CSIR-IHBT)	
9.	Ms. Manveet Kour, Assistant Manager, (CSIR-IIIM)	सुश्री मनवीत कौर, सहायक प्रबंधक, (सीएसआईआर-आईआईआईएम)
10.	Ms. Swati Shrivastava, Assistant Manager, (CSIR-IITR)	सुश्री स्वाति श्रीवास्तव, सहायक प्रबंधक, (सीएसआईआर-आईआईटीआर)
11.	Ms. Vaishali J. Suryavanshi, Assistant Manager, (CSIR-NCL)	सुश्री वैशाली जे. सूर्यवंशी, सहायक प्रबंधक, (सीएसआईआर-एनसीएल)
12.	Mr. Kh. Bipinchandra Singh, Executive Assistant, (AcSIR HQs)	श्री ख. बिपिनचंद्र सिंह, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
13.	Mr. Sunny Tomer, Executive Assistant, (AcSIR HQs)	श्री सनी तोमर, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
14.	Mr. Lalit Kumar, Executive Assistant, (AcSIR HQs)	श्री ललित कुमार, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
15.	Ms. Rajni Kumari, Executive Assistant, (AcSIR HQs)	सुश्री रजनी कुमारी, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
16.	Mr. Kaviyarasan G, Executive Assistant, (AcSIR HQs)	श्री कवियारसन जी, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
17.	Ms. Mohanasundari, Executive Assistant, (AcSIR HQs)	सुश्री मोहनसुंदरी, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
18.	Mr. Vivek C. Ramteke, Executive Assistant, (CSIR-NEERI)	श्री विवेक सी. रामटेके, कार्यपालक सहायक, (सीएसआईआर-नीरी)
19.	Mr. Sumit Tyagi, Executive Assistant, (AcSIR HQs)	श्री सुमित त्यागी, कार्यकारी सहायक, (एसीएसआईआर मुख्यालय)
20.	Ms. Vishakha Dhiman, Executive Assistant, (CSIR-CBRI)	सुश्री विशाखा धीमान, कार्यकारी सहायक, (सीएसआईआर-सीबीआरआई)
21.	Mr. Piyush Gupta, Executive Assistant, (CSIR-CDRI)	श्री पीयूष गुप्ता, कार्यकारी सहायक, (सीएसआईआर-सीडीआरआई)
22.	Ms. Iswarya KS, Executive Assistant, (CSIR-CECRI)	सुश्री ईश्वर्या केएस, कार्यकारी सहायक, (सीएसआईआर-सीईसीआरआई)
23.	Mr. Rahul Joshi, Executive Assistant, (CSIR-CEERI)	श्री राहुल जोशी, कार्यकारी सहायक, (सीएसआईआर-सीरी)
24.	Ms. Archana KS, Executive Assistant, (CSIR-CFTRI)	सुश्री अर्चना केएस, कार्यकारी सहायक, (सीएसआईआर-सीएफटीआरआई)
25.	Ms. Rohini Majumdar, Executive Assistant, (CSIR-CGCRI & CSIR-IICB)	सुश्री रोहिणी मजूमदार, कार्यकारी सहायक, (सीएसआईआर-सीजीसीआरआई और सीएसआईआर-आईआईसीबी)
26.	Mr. Lalit Sagar, Executive Assistant, (CSIR-CRRI & CSRI-IGIB)	श्री ललित सागर, कार्यकारी सहायक, (सीएसआईआर-सीआरआरआई और सीएसआरआई-आईजीआईबी)
27.	Ms. Vaishali Boricha, Executive Assistant, (CSIR-CSMCRI)	सुश्री वैशाली बोरिचा, कार्यकारी सहायक, (सीएसआईआर-सीएसएमसीआरआई)
28.	Ms. Pratima Bhardwaj, Executive Assistant, (CSIR-IGIB)	सुश्री प्रतिमा भारद्वाज, कार्यकारी सहायक, (सीएसआईआर-आईजीआईबी)
29.	Ms. P. Sreelatha, Executive Assistant, (CSIR-IICT)	सुश्री पी. श्रीलता, कार्यकारी सहायक, (सीएसआईआर-आईआईसीटी)
30.	Ms. A. Sravani, Executive Assistant, (CSIR-IICT)	सुश्री ए श्रावणी, कार्यकारी सहायक, (सीएसआईआर-आईआईसीटी)
31.	Mr. A. Shyam Kumar, Executive Assistant, (CSIR-IICT)	श्री ए श्याम कुमार, कार्यकारी सहायक, (सीएसआईआर-आईआईसीटी)
32.	Ms. Komal Ashok Patil, Executive Assistant, (CSIR-NCL)	सुश्री कोमल अशोक पाटिल, कार्यकारी सहायक, (सीएसआईआर-एनसीएल)

33.	Ms. Vijaya Vasant Lohar, Executive Assistant, (CSIR-NCL)	सुश्री विजया वसंत लोहार, कार्यकारी सहायक, (सीएसआईआर-एनसीएल)
34.	Mr. Anupol Bordoloi, Executive Assistant, (CSIR-NEIST)	श्री अनुपोल बोर्दोलोई, कार्यपालक सहायक, (सीएसआईआर-एनईआईएसटी)
35.	Mr. Rohit Dhavjekar, Executive Assistant, (CSIR-NIO)	श्री रोहित धवजेकर , कार्यकारी सहायक, (सीएसआईआर-एनआईओ)
36.	Ms. Ujjwal Kumari, Executive Assistant, (CSIR-NML)	सुश्री उज्ज्वल कुमारी, कार्यपालक सहायक, (सीएसआईआर-एनएमएल)
37.	Ms. Soma Sarkar, Executive Assistant, (CSIR-NPL)	सुश्री सोमा सरकार, कार्यपालक सहायक, (सीएसआईआर-एनपीएल)
38.	Mr. Sachin Parida, Executive Assistant, (CSIR-IMMT)	श्री सचिन परिदा, कार्यकारी सहायक, (सीएसआईआर-आईएमएमटी)
39.	Ms. Harshita Nag, Executive Assistant, (CSIR-NBRI)	सुश्री हर्षिता नाग, कार्यपालक सहायक, (सीएसआईआर-एनबीआरआई)
40.	Ms. Shruthi B, Executive Assistant, (CSIR-CFTRI)	सुश्री श्रुति बी., कार्यपालक सहायक, (सीएसआईआर-सीएफटीआरआई)
41.	Ms. Aswathy CS, Executive Assistant, (CSIR-NIIST)	सुश्री अश्वथी सी.एस., कार्यपालक सहायक, (सीएसआईआर-एनआईआईएसटी)
42.	Ms. Akansha Arya, Executive Assistant, (CSIR-CIMAP)	सुश्री आकांक्षा आर्या, कार्यपालक सहायक, (सीएसआईआर-सीआईएमएपी)
43.	Mr. Snehashis Paul, Executive Assistant, (CSIR-CMERI)	श्री स्नेहशीस पॉल, कार्यपालक सहायक, (सीएसआईआर-सीएमईआरआई)
44.	Ms. Surugu Ramya, Executive Assistant, (CSIR-CCMB)	सुश्री सुरुगु राम्या, कार्यपालक सहायक, (सीएसआईआर-सीसीएमबी)
45.	Mr. Biswajeet Dey, Executive Assistant, (CSIR-NIScPR)	श्री बिस्वजीत दे, कार्यपालक सहायक, (सीएसआईआर-एनआईएसपीआर)

#### 4. Academic Centres and Associate Academic Centres of AcSIR (as on March 31, 2022)

Sl. No.	AcSIR Academic Centre
1.	CSIR-Advanced Materials and Processes Research Institute, Bhopal, Madhya Pradesh
2.	CSIR-Central Building Research Institute, Roorkee, Uttarakhand
3.	CSIR-Centre for Cellular & Molecular Biology, Hyderabad, Telangana
4.	CSIR-Central Drug Research Institute, Lucknow, Uttar Pradesh
5.	CSIR-Central Electrochemical Research Institute, Karaikudi, Tamil Nadu
6.	CSIR-Central Electronics Engineering Research Institute, Pilani, Rajasthan
7.	CSIR-Central Food Technological Research Institute, Mysuru, Karnataka
8.	CSIR-Central Glass & Ceramic Research Institute, Kolkata, West Bengal
9.	CSIR-Central Institute of Medicinal & Aromatic Plants, Lucknow, Uttar Pradesh
10.	CSIR-Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand
11.	CSIR-Central Leather Research Institute, Chennai, Tamil Nadu
12.	CSIR-Central Mechanical Engineering Research Institute, Durgapur, West Bengal
13.	CSIR-Fourth Paradigm Institute, Bangalore, Karnataka
14.	CSIR-Central Road Research Institute, New Delhi
15.	CSIR-Central Scientific Instruments Organisation, Chandigarh
16.	CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar, Gujarat
17.	CSIR-Institute of Genomics and Integrative Biology, New Delhi
18.	CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh
19.	CSIR-Indian Institute of Chemical Biology, Kolkata, West Bengal
20.	CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana
21.	CSIR-Indian Institute of Integrative Medicine, Jammu, Jammu & Kashmir
22.	CSIR-Indian Institute of Petroleum, Dehradun, Uttarakhand
23.	CSIR-Indian Institute of Toxicology Research, Lucknow, Uttar Pradesh
24.	CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Orissa
25.	CSIR-Institute of Microbial Technology, Chandigarh
26.	CSIR-National Aerospace Laboratories, Bangalore, Karnataka
27.	CSIR-National Botanical Research Institute, Lucknow, Uttar Pradesh
28.	CSIR-National Chemical Laboratory, Pune, Maharashtra

29.	CSIR-National Environmental Engineering Research Institute, Nagpur, Maharashtra
30.	CSIR-North East Institute of Science & Technology, Jorhat, Assam
31.	CSIR-National Geophysical Research Institute, Hyderabad, Telangana
32.	CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, Kerala
33.	CSIR-National Institute of Oceanography, Goa
34.	CSIR-National Institute of Science Communication and Policy Research, New Delhi
35.	CSIR-National Metallurgical Laboratory, Jamshedpur, Jharkhand
36.	CSIR-National Physical Laboratory, New Delhi
37.	CSIR-Structural Engineering Research Centre, Chennai, Tamil Nadu
38.	CSIR-Unit for Research & Development of Information Products, Pune, Maharashtra
<b>AcSIR Associate Academic Centres</b>	
39.	DBT-Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana
40.	DST-Birbal Sahni Institute of Paleosciences, Lucknow, Uttar Pradesh
41.	DST-Institute of Advanced Studies in Science and Technology, Guwahati, Assam
42.	DST-Institute of Nano Science and Technology, Mohali, Punjab
43.	DST-Wadia Institute of Himalayan Geology, Dehradun, Uttarakhand
44.	ICMR-National Institute of Malaria Research, New Delhi
45.	ICMR-Regional Medical Research Centre (ICMR-RMRC), Dibrugarh, Assam
46.	ICMR-Vector Control Research Centre (ICMR-VCRC), Puducherry
47.	MoHFW-National Institute of Biologicals (MoHFW-NIB), Noida, Uttar Pradesh
48.	MoEFCC-Wildlife Institute of India (MoEFCC-WII), Dehradun, Uttarakhand
49.	Centre of Biomedical Research (CBMR), Lucknow, Uttar Pradesh
50.	PHFI-Indian Institute of Public Health, Delhi
51.	PHFI-Indian Institute of Public Health, Hyderabad, Telangana
52.	LV Prasad Eye Institute, Hyderabad, Telangana

#### 4. एसीएसआईआर के अकादमिक केंद्र और सहयोगी अकादमिक केंद्र (31 मार्च, 2022 तक)

क्रम. सं.	एसीएसआईआर अकादमिक केंद्र
1.	सीएसआईआर-उन्नत सामग्री और प्रक्रिया अनुसंधान संस्थान, भोपाल, मध्य प्रदेश
2.	सीएसआईआर-केंद्रीय भवन अनुसंधान संस्थान, रुड़की, उत्तराखंड
3.	सीएसआईआर-कोशिकीय और आण्विक जीवविज्ञान केंद्र, हैदराबाद, तेलंगाना
4.	सीएसआईआर-केंद्रीय औषधि अनुसंधान संस्थान, लखनऊ, उत्तर प्रदेश
5.	सीएसआईआर-केंद्रीय विद्युत रासायनिक अनुसंधान संस्थान, कराईकुडी, तमिलनाडु
6.	सीएसआईआर-केंद्रीय इलेक्ट्रॉनिक्स अभियांत्रिकी अनुसंधान संस्थान, पिलानी, राजस्थान
7.	सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिकी अनुसंधान संस्थान, मैसूर, कर्नाटक
8.	सीएसआईआर-केंद्रीय कांच और सिरेमिक अनुसंधान संस्थान, कोलकाता, पश्चिम बंगाल
9.	सीएसआईआर-केंद्रीय औषधीय और सुगंधित पौधा संस्थान, लखनऊ, उत्तर प्रदेश
10.	सीएसआईआर-केंद्रीय खनन और ईंधन अनुसंधान संस्थान, धनबाद, झारखंड
11.	सीएसआईआर-केंद्रीय चर्म अनुसंधान संस्थान, चेन्नई, तमिलनाडु
12.	सीएसआईआर-केंद्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान, दुर्गापुर, पश्चिम बंगाल
13.	सीएसआईआर-चतुर्थ प्रतिमान संस्थान, बेंगलुरु, कर्नाटक
14.	सीएसआईआर-केंद्रीय सड़क अनुसंधान संस्थान, नई दिल्ली
15.	सीएसआईआर-केंद्रीय वैज्ञानिक उपकरण संगठन, चंडीगढ़
16.	सीएसआईआर-केंद्रीय नमक और समुद्री रसायन अनुसंधान संस्थान, भावनगर, गुजरात
17.	सीएसआईआर-इंस्टीट्यूट ऑफ जीनोमिक्स एंड इंटीग्रेटिव बायोलॉजी, नई दिल्ली
18.	सीएसआईआर-हिमालयी जैव संसाधन प्रौद्योगिकी संस्थान, पालमपुर, हिमाचल प्रदेश
19.	सीएसआईआर-भारतीय रासायनिक जीव विज्ञान संस्थान, कोलकाता, पश्चिम बंगाल
20.	सीएसआईआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान, हैदराबाद, तेलंगाना
21.	सीएसआईआर-भारतीय एकीकृत चिकित्सा संस्थान, जम्मू, जम्मू और कश्मीर
22.	सीएसआईआर-भारतीय पेट्रोलियम संस्थान, देहरादून, उत्तराखंड
23.	सीएसआईआर-भारतीय विष विज्ञान अनुसंधान संस्थान, लखनऊ, उत्तर प्रदेश

24.	सीएसआईआर-खनिज और सामग्री प्रौद्योगिकी संस्थान, भुवनेश्वर, उड़ीसा
25.	सीएसआईआर-सूक्ष्मजीव प्रौद्योगिकी संस्थान, चंडीगढ़
26.	सीएसआईआर-राष्ट्रीय एयरोस्पेस प्रयोगशालाएं, बेंगलुरु, कर्नाटक
27.	सीएसआईआर-राष्ट्रीय वनस्पति अनुसंधान संस्थान, लखनऊ, उत्तर प्रदेश
28.	सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला, पुणे, महाराष्ट्र
29.	सीएसआईआर-राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान, नागपुर, महाराष्ट्र
30.	सीएसआईआर-पूर्वोत्तर विज्ञान एवं प्रौद्योगिकी संस्थान, जोरहाट, असम
31.	सीएसआईआर-राष्ट्रीय भूभौतिकीय अनुसंधान संस्थान, हैदराबाद, तेलंगाना
32.	सीएसआईआर-राष्ट्रीय अंतःविषय विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनंतपुरम, केरल
33.	सीएसआईआर-राष्ट्रीय समुद्र विज्ञान संस्थान, गोवा
34.	सीएसआईआर-राष्ट्रीय विज्ञान संचार एवं नीति संस्थान, नई दिल्ली
35.	सीएसआईआर-राष्ट्रीय धातुकर्म प्रयोगशाला, जमशेदपुर, झारखंड
36.	सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला, नई दिल्ली
37.	सीएसआईआर-संरचनात्मक अभियांत्रिकी अनुसंधान केंद्र, चेन्नई, तमिलनाडु
38.	सूचना उत्पाद के अनुसंधान एवं विकास के लिए सीएसआईआर-यूनिट, पुणे, महाराष्ट्र
<b>एसीएसआईआर एसोसिएट अकादमिक केन्द्र</b>	
	डीबीटी-सेंटर ऑफ डीएनए फिंगरप्रिंटिंग एंड डायग्नोस्टिक्स, हैदराबाद, तेलंगाना
39.	डीएसटी- बीरबल साहनी इंस्टीट्यूट ऑफ पेलियोसाइंसेज, लखनऊ, उत्तर प्रदेश
40.	डीएसटी-विज्ञान और प्रौद्योगिकी में उन्नत अध्ययन संस्थान, गुवाहाटी, असम
41.	डीएसटी-नैनो विज्ञान और प्रौद्योगिकी संस्थान, मोहाली, पंजाब
42.	डीएसटी-वाडिया हिमालय भूविज्ञान संस्थान, देहरादून, उत्तराखंड
43.	आईसीएमआर-राष्ट्रीय मलेरिया अनुसंधान संस्थान, नई दिल्ली
44.	आईसीएमआर-क्षेत्रीय चिकित्सा अनुसंधान केंद्र, डिब्रूगढ़
45.	आईसीएमआर- वेक्टर नियंत्रण अनुसंधान केंद्र, नई दिल्ली
46.	स्वास्थ्य और परिवार कल्याण मंत्रालय-राष्ट्रीय जैविक संस्थान, नोएडा, उत्तर प्रदेश
47.	भारत का पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय-भारतीय वन्यजीव संस्थान, देहरादून, उत्तराखंड
48.	जैव चिकित्सा अनुसंधान केंद्र, लखनऊ, उत्तर प्रदेश
49.	पीएचएफआई-भारतीय जन स्वास्थ्य संस्थान, दिल्ली
50.	पीएचएफआई-भारतीय जन स्वास्थ्य संस्थान, हैदराबाद, तेलंगाना
51.	एल.वी. प्रसाद नेत्र संस्थान, हैदराबाद, तेलंगाना

## 5. Academic Programs

AcSIR offers postgraduate (M.Sc and M.Tech) and Ph.D degree programs in a number of areas in Science and Engineering under five faculties of study viz. Biological Science, Chemical Science, Physical Science, Mathematical and Information Science, and Engineering Science. AcSIR also offers Post Graduate Diploma programs in some selected subjects areas customized for Industry needs.

### Post Graduate Diploma Programs

AcSIR Academic Centre	Specialization
CSIR-Unit for Research & Development of Information Products, Pune	Patinformatics
CSIR-Central Mechanical Engineering Research Institute, Durgapur	Advanced Manufacturing Technology
CSIR-National Physical Laboratory, New Delhi	Precision Measurement and Quality Control

### Post Graduate Studies

M.Sc. (2 Years)	M.Tech (2 Years)
<ol style="list-style-type: none"> <li>1. Clinical Research</li> <li>2. Food Technology</li> <li>3. Health Informatics</li> <li>4. Nutrition Biology</li> <li>5. Science &amp; Technology Communication</li> <li>6. Wildlife Science</li> <li>7. Heritage Conservation and Management</li> </ol>	<ol style="list-style-type: none"> <li>1. Advanced Electronics Engineering</li> <li>2. Advanced Instrumentation</li> <li>3. Building Engineering and Construction Technology</li> <li>4. Chemical Engineering</li> <li>5. Computational Biology and Bioengineering</li> <li>6. Computer Science</li> <li>7. Engineering of Structures</li> <li>8. Environmental Systems Engineering &amp; Modelling</li> <li>9. Flight Vehicles</li> <li>10. Glass and Ceramic Engineering</li> <li>11. Materials Engineering</li> <li>12. Materials Science and Technology</li> <li>13. Polymer Engineering</li> <li>14. Mechatronics</li> <li>15. Farm Machinery and Power Engineering</li> <li>16. Design of Machinery and Equipment</li> </ol>
M.P.H. (2 Years)	
<ol style="list-style-type: none"> <li>1. Master of Public Health</li> </ol>	

### PhD Programs

AcSIR offers research opportunities for pursuance of PhD program at all its Academic Centres and Associate Academic Centres. The Institute lays special emphasis on inter-disciplinary and cross-disciplinary learning and approaches of solution of a problem or answering a scientific question.

## Integrated PhD Programs

AcSIR offers research opportunities for aspirants with undergraduate degree in select AcSIR Academic Centres and Associate Academic Centres.

Integrated PhD Programs are offered at the following AcSIR Academic Centres and Associate Academic Centres:

AcSIR Academic Centre	Program
CSIR-Advanced Materials and Process Research Institute, Bhopal	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Central Building Research Institute, Roorkee	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Central Electrochemical Research Institute, Karaikudi	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Central Food Technological Research Institute, Mysuru	Integrated M.Sc.-Ph.D.
CSIR-Central Glass and Ceramic Research Institute, Kolkata	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Central Scientific Instruments Organisation, Chandigarh	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Fourth Paradigm Institute, Bengaluru	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Institute of Minerals and Materials Technology, Bhubaneswar	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-National Aerospace Laboratories, Bengaluru	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-National Chemical Laboratory, Pune	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-National Environmental Engineering Research Institute, Nagpur	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-National Metallurgical Laboratory, Jamshedpur	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
CSIR-Structural Engineering Research Centre, Chennai	Integrated Dual Degree Program (IDDP- M.Tech+Ph.D.)
AcSIR Associate Academic Centre	Program
PHFI-Indian Institute of Public Health, Delhi	Integrated M.Sc.-Ph.D. in Clinical Research
PHFI-Indian Institute of Public Health, Hyderabad	Integrated M.Sc.-Ph.D. in Health Informatics

## Joint PhD Program

Apart from the above, AcSIR also offers Joint Ph.D. programs in association with the following:

- Royal Melbourne Institute of Technology (RMIT) University, Australia
- University of Western Australia (UWA), Perth, Australia

## 5. शैक्षणिक कार्यक्रम

एसीएसआईआर जैविक विज्ञान, रसायन विज्ञान, भौतिक विज्ञान, गणितीय तथा सूचना विज्ञान, और अभियांत्रिकी विज्ञान अध्ययन के पांच क्षेत्रों के अंतर्गत विज्ञान और अभियांत्रिकी में कई क्षेत्रों में स्नातकोत्तर (एम.एससी. और एम.टेक) और पीएच.डी. डिग्री कार्यक्रम संचालित करता है। एसीएसआईआर उद्योग की जरूरतों के अनुरूप कुछ चयनित विषयों के क्षेत्रों में स्नातकोत्तर डिप्लोमा कार्यक्रम भी संचालित करता है।

### स्नातकोत्तर डिप्लोमा कार्यक्रम

एसीएसआईआर अकादमिक केंद्र	विशेषज्ञता
सूचना उत्पादों के अनुसंधान एवं विकास के लिए सीएसआईआर-यूनिट, पुणे	पेटिनफॉर्मेटिक्स
सीएसआईआर-केन्द्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान, दुर्गापुर	उन्नत विनिर्माण प्रौद्योगिकी
सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला, नई दिल्ली	सटीक मापन और गुणवत्ता नियंत्रण

### स्नातकोत्तर अध्ययन

एम.एससी. (2 वर्ष)	एम.टेक (2 वर्ष)
<ol style="list-style-type: none"> <li>नैदानिक अनुसंधान</li> <li>खाद्य प्रौद्योगिकी</li> <li>स्वास्थ्य सूचना</li> <li>पोषण जीवविज्ञान</li> <li>विज्ञान और प्रौद्योगिकी संचार</li> <li>वन्य जीव विज्ञान</li> <li>विरासत संरक्षण एवं प्रबंधन</li> </ol>	<ol style="list-style-type: none"> <li>उन्नत इलेक्ट्रॉनिक्स अभियांत्रिकी</li> <li>उन्नत इंस्ट्रुमेंटेशन</li> <li>बिल्डिंग अभियांत्रिकी और निर्माण प्रौद्योगिकी</li> <li>केमिकल अभियांत्रिकी</li> <li>कम्प्यूटेशनल बायोलॉजी और बायो अभियांत्रिकी</li> <li>कंप्यूटर विज्ञान</li> <li>संरचना अभियांत्रिकी</li> <li>पर्यावरण प्रणाली अभियांत्रिकी और मॉडलिंग</li> <li>उड़ान वाहन</li> <li>ग्लास और सिरेमिक अभियांत्रिकी</li> <li>माल अभियांत्रिकी</li> <li>सामग्री विज्ञान और प्रौद्योगिकी</li> <li>पॉलिमर अभियांत्रिकी</li> <li>मेकाट्रॉनिक्स</li> <li>फार्म मशीनरी और पावर अभियांत्रिकी</li> <li>मशीनरी और उपकरण का डिजाइन</li> </ol>
<b>एम.पी.एच. (2 वर्ष)</b> <b>मास्टर ऑफ पब्लिक हेल्थ</b>	

### पीएच.डी. कार्यक्रम

एसीएसआईआर पीएच.डी. कार्यक्रम के अनुसरण के लिए अपने सभी शैक्षणिक केंद्रों और सहयोगी शैक्षणिक केंद्रों में अनुसंधान के अवसर प्रदान करता है। एसीएसआईआर पीएच.डी. कार्यक्रम किसी समस्या के समाधान या वैज्ञानिक प्रश्न के निदान हेतु अंतर-अनुशासनात्मक और क्रॉस-अनुशासनात्मक अधिगम पर जोर देते हैं।

### एकीकृत स्नातकोत्तर - पीएच.डी. कार्यक्रम

एसीएसआईआर एकीकृत स्नातकोत्तर - पीएचडी कार्यक्रमों के माध्यम से चुनिंदा एसीएसआईआर अकादमिक केंद्रों और सहयोगी अकादमिक केंद्र में स्नातक की डिग्री वाले उम्मीदवारों के लिए अनुसंधान के अवसर प्रदान करता है।

एकीकृत स्नातकोत्तर - पीएच.डी. कार्यक्रम निम्नलिखित एसीएसआईआर शैक्षणिक केंद्रों और सहयोगी शैक्षणिक केंद्रों में संचालित किये जाते हैं :

एसीएसआईआर अकादमिक केन्द्र	कार्यक्रम
सीएसआईआर-उन्नत सामग्री और प्रक्रिया अनुसंधान, भोपाल	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-केंद्रीय भवन अनुसंधान संस्थान, रुड़की	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिकी अनुसंधान संस्थान, मैसूर	एकीकृत एमएससी- पीएच.डी.
सीएसआईआर-केंद्रीय कांच और सिरेमिक अनुसंधान संस्थान, कोलकाता	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-केंद्रीय वैज्ञानिक उपकरण संगठन, चंडीगढ़	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-चतुर्थ प्रतिमान संस्थान, बेंगलुरु	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-राष्ट्रीय वांतरिक्ष प्रयोगशालाएं, बेंगलुरु	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला, पुणे	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान, नागपुर	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-राष्ट्रीय धातुकर्म प्रयोगशाला, जमशेदपुर	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर-संरचनात्मक अभियांत्रिकी अनुसंधान केंद्र, चेन्नई	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर- केन्द्रीय विद्युत विज्ञान अनुसंधान संस्थान	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
सीएसआईआर - खनिज और सामग्री प्रौद्योगिकी संस्थान	एकीकृत दोहरी डिग्री कार्यक्रम (आईडीडीपी- एम.टेक+पीएच.डी.)
एसीएसआईआर सहयोगी अकादमिक केन्द्र	कार्यक्रम
पीएचएफआई-भारतीय जन स्वास्थ्य संस्थान, दिल्ली	क्लीनिकल रिसर्च में एकीकृत एमएससी-पीएच.डी.
पीएचएफआई-भारतीय जन स्वास्थ्य संस्थान, हैदराबाद	स्वास्थ्य सूचना विज्ञान में एकीकृत एमएससी-पीएच.डी.

### संयुक्त पीएच.डी. कार्यक्रम

ऊपर्युक्त के अलावे, एसीएसआईआर रॉयल मेलबर्न इंस्टीट्यूट ऑफ टेक्नोलॉजी (आरएमआईटी) यूनिवर्सिटी, ऑस्ट्रेलिया के सहयोग से संयुक्त पीएच.डी. भी प्रदान करता है।

## 6. Students' Strength at AcSIR / एसीएसआईआर में छात्र संख्या

### Ph.D. Program

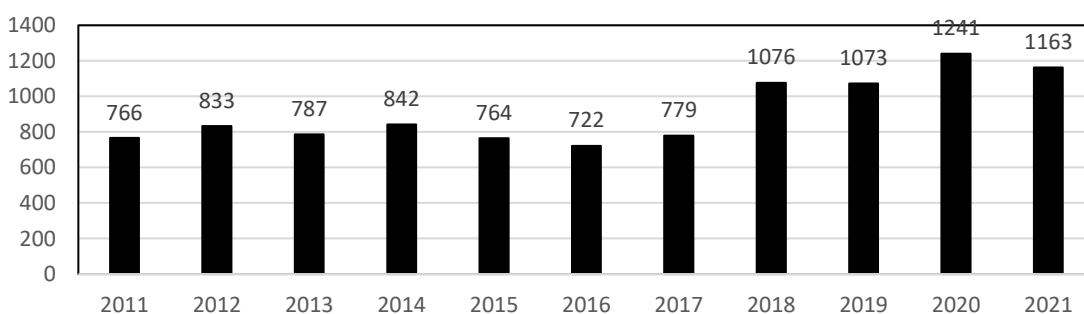
At the time of establishment of AcSIR in 2011, it was expected that a substantially large number of students would join AcSIR for pursuance of their Ph.D. A target of 1000 was set as a benchmark. Enrollment of PhD students per year fluctuated from about 750 to 850 per year during 2011 to 2014. It slightly declined to be in the range of about 720 to 780 during 2015 to 2017. However, 2018 witnessed a big leap in the number of PhD students enrolled in AcSIR and crossed the benchmark of 1000, which has been maintained till 2021 the year of this report.

### पीएच.डी. कार्यक्रम

वर्ष 2011 में एसीएसआईआर की स्थापना के समय, यह उम्मीद की गई थी कि काफी बड़ी संख्या में छात्र पीएच.डी. करने के लिए एसीएसआईआर में शामिल होंगे। इस संबंध में बेंचमार्क के रूप में एसीएसआईआर में पीएच.डी. कार्यक्रम में शामिल होने वाले 1000 छात्रों का लक्ष्य प्रति वर्ष निर्धारित किया गया था। वर्ष 2011 से 2014 के दौरान प्रति वर्ष पीएच.डी. छात्रों के नामांकन में लगभग 750 से 850 छात्रों की प्रति वर्ष वृद्धि हुई। यह संख्या वर्ष 2015 से 2017 के दौरान लगभग 720 से 780 की सीमा में थोड़ी कम हो गयी। हालांकि, वर्ष 2018 में पीएच.डी. के लिए नामांकित छात्रों की संख्या में एक बड़ी छलांग देखी गई और इसने 1000 छात्रों के बेंचमार्क को पार कर लिया, जिसे इस रिपोर्ट के वर्ष 2021 तक बनाए रखा गया है।

#### Year-wise Enrollment of PhD students from 2011 to 2021 (Calendar Year: sum of January and August admission of each Year)

2011 से 2021 तक पी.एच.डी. छात्रों का वर्ष-वार नामांकन  
(कैलेंडर वर्ष : प्रत्येक वर्ष के जनवरी और अगस्त में प्रवेश का योग)



## Master's Program

Some of the CSIR National Laboratories started Post Graduate Research Programme in Engineering (PGRPE) in 2009. This PGRPE program was later merged with the M.Tech and Integrated Ph.D. program of AcSIR. M.Tech program was suspended in the during the years 2016 and 2017 and was reinstated in the year 2018.

In the year 2013, AcSIR started M.Sc. programs in association with PHFI-Indian Institute of Public Health at its Delhi and Hyderabad campus. Later in 2015 and 2019, M.Sc. programs were initiated at CSIR-Central Food Technological Research Institute (CSIR-CFTRI), Mysuru and CSIR-National Institute of Science Communication and Information Resources (CSIR-NISCAIR), New Delhi.

In 2021, the Public Health Foundation of India (PHFI) launched a Masters of Public Health (MPH) program at its Delhi campus under the aegis of the Academy of Scientific and Innovative Research (AcSIR). The program was specifically designed to address the public health challenges posed by the COVID-19 pandemic. It is a two-year, full-time program that covers a wide range of public health topics, including epidemiology, biostatistics, health policy, and program management. The program also includes a fieldwork component, where students gain hands-on experience in public health practice.

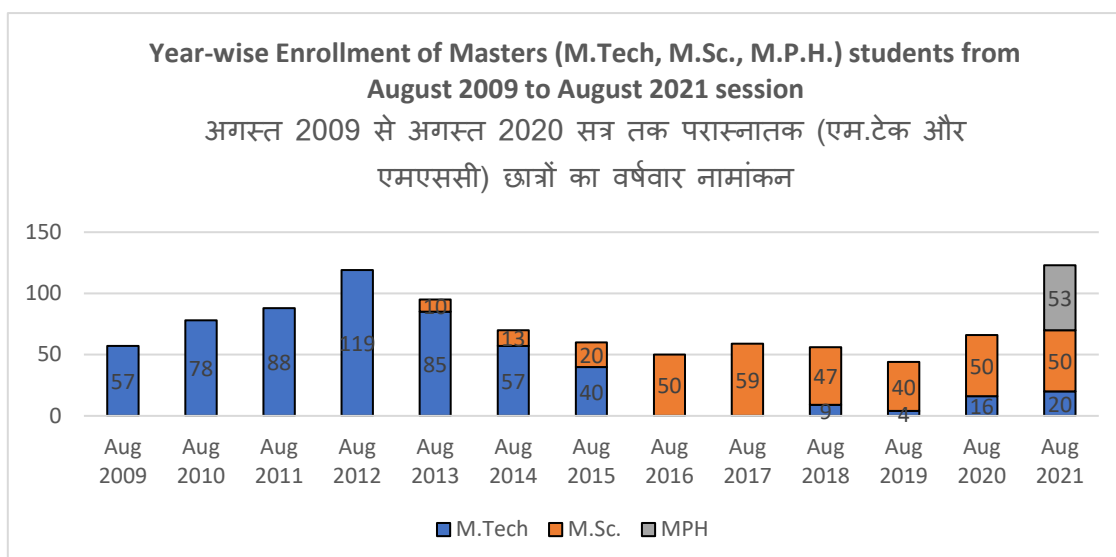
The trend of year-wise enrolment in Masters program is represented below.

### परास्नातक कार्यक्रम

कुछ राष्ट्रीय प्रयोगशालाओं ने 2009 में इंजीनियरिंग में स्नातकोत्तर अनुसंधान कार्यक्रम (पीजीआरपीई) शुरू किया। इस पीजीआरपीई कार्यक्रम को बाद में एसीएसआईआर के एम.टेक और एकीकृत पीएच.डी. कार्यक्रम के साथ मिला दिया गया। एम.टेक कार्यक्रम को वर्ष 2016 और 2017 के दौरान निलंबित कर दिया गया था और इसे फिर से वर्ष 2018 में बहाल कर दिया गया।

वर्ष 2013 में, एसीएसआईआर ने पीएचएफआई-इंडियन इंस्टीट्यूट ऑफ पब्लिक हेल्थ के दिल्ली और हैदराबाद कैंपस के सहयोग से एम.एससी. कार्यक्रम की शुरुआत की है। बाद में वर्ष 2015, 2016 और 2019 में सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिकी अनुसंधान संस्थान, मैसूर (सीएसआईआर-सीएफटीआरआई) और सीएसआईआर-राष्ट्रीय विज्ञान संचार और सूचना संसाधन संस्थान (सीएसआईआर-निस्केयर), नई दिल्ली में एम.एससी. कार्यक्रम की शुरुआत की गई।

2021 में, पब्लिक हेल्थ फाउंडेशन ऑफ इंडिया (PHFI) ने एकेडमी ऑफ साइंटिफिक एंड इनोवेटिव रिसर्च (AcSIR) के तत्वावधान में अपने दिल्ली परिसर में मास्टर्स ऑफ पब्लिक हेल्थ (MPH) कार्यक्रम शुरू किया। कार्यक्रम को विशेष रूप से COVID-19 महामारी से उत्पन्न सार्वजनिक स्वास्थ्य चुनौतियों का समाधान करने के लिए डिज़ाइन किया गया था। यह दो साल का पूर्णकालिक कार्यक्रम है जिसमें महामारी विज्ञान, जैव सांख्यिकी, स्वास्थ्य नीति और कार्यक्रम प्रबंधन सहित सार्वजनिक स्वास्थ्य विषयों की एक विस्तृत श्रृंखला शामिल है। कार्यक्रम में एक फील्डवर्क घटक भी शामिल है, जहां छात्र सार्वजनिक स्वास्थ्य अभ्यास में व्यावहारिक अनुभव प्राप्त करते हैं। परास्नातक कार्यक्रम में वर्षवार नामांकन की प्रवृत्ति को नीचे दर्शाया गया है।



### Post Graduate Diploma Program

In the year 2014, Post Graduate Diploma Program was initiated at CSIR-Unit for Research & Development of Information Products (CSIR-URDIP), Pune.

Later, CSIR-Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur and CSIR-National Physical Laboratory (CSIR-NPL), New Delhi also started Post Graduate Diploma programs from the year 2016 and 2020, respectively.

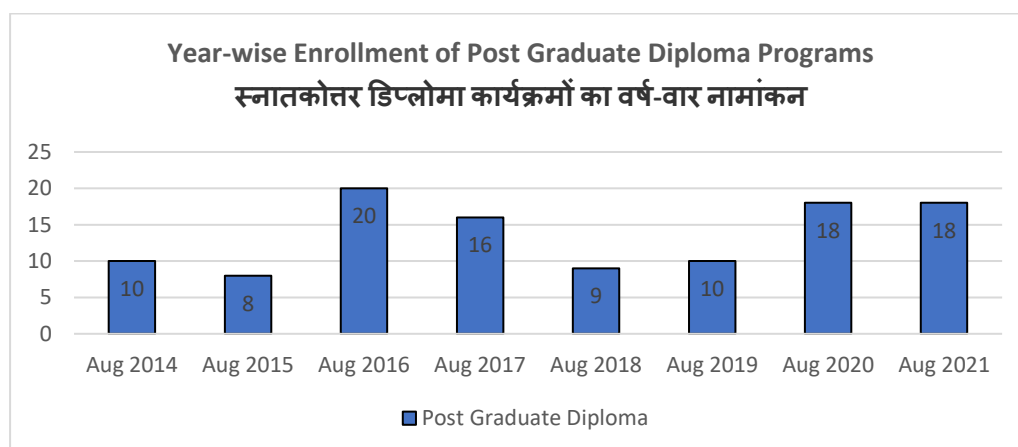
### पोस्ट ग्रेजुएट डिप्लोमा प्रोग्राम

वर्ष 2014 में, सीएसआईआर-यूनिट फॉर रिसर्च एंड डेवलपमेंट ऑफ इंफॉर्मेशन प्रोडक्ट्स (सीएसआईआर-यूआरडीआईपी), पुणे में पोस्ट ग्रेजुएट डिप्लोमा कार्यक्रम की शुरुआत की गई।

बाद में, सीएसआईआर-केंद्रीय यांत्रिक इंजीनियरिंग अनुसंधान संस्थान (सीएसआईआर-सीएमईआरआई), दुर्गापुर और सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला (सीएसआईआर-एनपीएल), नई दिल्ली ने भी क्रमशः वर्ष 2016 और 2020 से स्नातकोत्तर डिप्लोमा कार्यक्रम की शुरुआत की।

स्नातकोत्तर डिप्लोमा कार्यक्रम में वर्षवार नामांकन की प्रवृत्ति को नीचे दर्शाया गया है।

The trend of year-wise enrolment in Post Graduate Diploma program is represented below.



## 7. Faculty Strength (As on March 31, 2022)

संकाय शक्ति (31 मार्च, 2022 तक)

Faculty संकाय	Professors प्रोफेसर	Associate Professors एसोसिएट प्रोफेसर	Assistant Professors सहायक प्रोफेसर	Total Faculty कुल संकाय
Engineering Sciences अभियांत्रिकी विज्ञान	194	186	369	749
Biological Sciences जैविक विज्ञान	154	176	461	788
Chemical Sciences रासायनिक विज्ञान	98	157	375	630
Physical Sciences भौतिक विज्ञान	68	106	245	419
Mathematical & Information Sciences गणितीय और सूचना विज्ञान	18	15	37	70
Academy Professors अकादमी प्रोफेसर				12
Professor of Eminence प्रख्यात प्रोफेसर				1
Outstanding Professors उत्कृष्ट प्रोफेसर				25
Emeritus Professors एमेरिटस प्रोफेसर				32
<b>TOTAL FACULTY MEMBERS at AcSIR</b> एसीएसआईआर में कुल संकाय सदस्य				<b>2728</b>

## 8. Performance Highlights of AcSIR / एसीएसआईआर के प्रदर्शन की मुख्य

### विशेषताएं

AcSIR enables accessibility of world class research facilities and the best mentorship to its doctoral students mainly through the infrastructure and prowess of scientific manpower at CSIR National Laboratories, respectively. With more than 5500 PhD students on its rolls in Science and Engineering, in our estimate, it constitutes about 5% of total students enrolled in PhD in Science and Engineering in India. Thus, AcSIR is probably the largest Higher Education Institution in India and one of the largest Institutions in the world in this regard.

एसीएसआईआर मुख्य रूप से सीएसआईआर की राष्ट्रीय प्रयोगशालाओं में वैज्ञानिक जनशक्ति के बुनियादी ढांचे और कौशल के माध्यम से अपने डॉक्टरेट छात्रों के लिए विश्व स्तरीय अनुसंधान सुविधाओं और सर्वोत्तम परामर्श की पहुंच को सक्षम बनाता है। हमारे अनुमान में, विज्ञान और इंजीनियरिंग में 5500 से अधिक पीएच.डी. छात्र नामांकित हैं, जो भारत में विज्ञान और इंजीनियरिंग में पीएच.डी. करने वाले कुल छात्रों का लगभग 5% है। इस प्रकार, एसीएसआईआर शायद भारत में सबसे बड़ा उच्च शिक्षा संस्थान है और इस संबंध में दुनिया के सबसे बड़े संस्थानों में से एक है।

### Research Publications of AcSIR

AcSIR has an impressive profile of research publications as presented below for the Calendar Years from 2013 to 2021. Analytically, it shows a steep rise in its inception years upto 2015 to reach about 1000 publications per year in 2015. The slope of rise in the number of publications was constant during the Calendar Year 2016 to 2018. However, the years 2019 and 2021 witnessed a steep rise in the number of publications reaching about 2000 and 2301 respectively as shown below. The comprehensive collection of publications pertaining to the academic year 2021 can be accessed on the AcSIR website.

### एसीएसआईआर के शोध प्रकाशन

एसीएसआईआर के पास 2013 से 2021 तक के कैलेंडर वर्षों के लिए अनुसंधान प्रकाशनों की एक प्रभावशाली प्रोफाइल है, जैसा कि नीचे प्रस्तुत किया गया है। विश्लेषणात्मक रूप से, वर्ष 2015 में प्रति वर्ष लगभग 1000 प्रकाशनों तक पहुंचने के लिए अपने प्रारंभिक वर्षों से वर्ष 2015 तक में भारी वृद्धि दिखती है। कैलेंडर वर्ष 2016 से 2018 के दौरान प्रकाशनों की संख्या में वृद्धि का ढलान स्थिर था। हालाँकि, इस वर्ष 2019 और 2020 में प्रकाशनों की संख्या में एक बार और तेज वृद्धि देखी गई, जो लगभग 2000 और 2300 शोध प्रकाशनों तक पहुंच गई, जैसा कि नीचे दिखाया गया है। शैक्षणिक वर्ष 2021 से संबंधित प्रकाशनों का व्यापक संग्रह एसीएसआईआर वेबसाइट पर देखा जा सकता है।



## Ranking among Higher Education Institutions

AcSIR, despite being a relatively very new institution among the institutions of higher education, it has begun to be acknowledged in the matrices of world ranking systems in 2015. AcSIR is occupying a rapidly rising position in different global ranking systems of academic institutions/universities. A glimpse of the same is as follows:

### उच्च शिक्षा संस्थानों में रैंकिंग

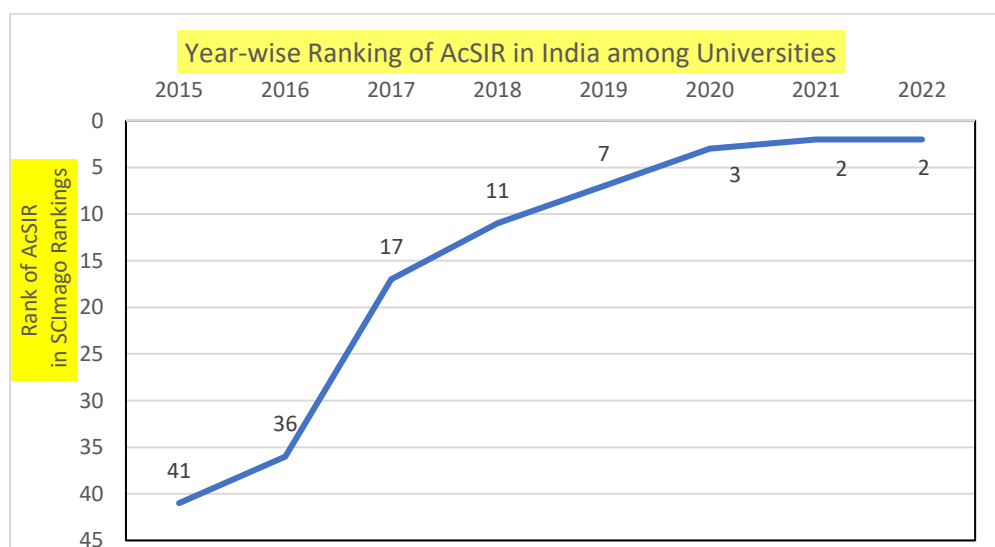
एसीएसआईआर, उच्च शिक्षा के संस्थानों के बीच अपेक्षाकृत बहुत नया संस्थान होने के बावजूद, 2015 में विश्व रैंकिंग सिस्टम के मैट्रिक्स में इसे स्वीकार करना शुरू हो गया है। एसीएसआईआर अकादमिक संस्थानों/विश्वविद्यालयों की विभिन्न वैश्विक रैंकिंग प्रणालियों में तेजी से बढ़ती स्थिति पर कब्जा कर रहा है। उसी की एक झलक इस प्रकार है:

### SCImago Institutions Rankings (SIR)

SCImago Ranking System is largely based on analysis of research output and publications using the SCOPUS database of R&D publications. AcSIR had 41<sup>st</sup> rank among higher education institutions in India in 2015, from which it rose to 36<sup>th</sup> in 2016. Beginning from 2017, it particularly witnessed a rapid rise in its position to reach 17<sup>th</sup>, 11<sup>th</sup>, 7<sup>th</sup>, 3<sup>rd</sup> and 2<sup>nd</sup> position in 2017, 2018, 2019, 2020 and 2021 respectively, in India. AcSIR maintained its 2<sup>nd</sup> position in 2022 edition of SCImago Rankings, as presented below:

### SCImago इंस्टीट्यूशंस रैंकिंग (एसआईआर)

SCImago रैंकिंग सिस्टम काफी हद तक R&D प्रकाशनों के SCOPUS डेटाबेस का उपयोग करते हुए अनुसंधान आउटपुट और प्रकाशनों के विश्लेषण पर आधारित है। एसीएसआईआर की 2015 में भारत में उच्च शिक्षा संस्थानों में 41वीं रैंक थी, जो 2016 में बढ़कर 36वें स्थान पर पहुंच गई। 2017 की शुरुआत से, इसने विशेष रूप से भारत में 17वें, 11वें, 7वें, तीसरे एवं दूसरे स्थान पर क्रमशः वर्ष 2017, 2018, 2019, 2020 और 2021 में पहुंचने के लिए अपनी स्थिति में तेजी से वृद्धि देखी, जैसा कि नीचे प्रस्तुत किया गया है:



In this matrix system (SCImago), the 2<sup>nd</sup> position achieved by AcSIR in India in the year 2022 is second to the Indian Institute of Science (IISc), Bengaluru.

इस मैट्रिक्स सिस्टम (SCImago) में, वर्ष 2022 में भारत में एसीएसआईआर द्वारा प्राप्त दूसरा स्थान भारतीय विज्ञान संस्थान (IISc), बेंगलुरु के बाद दूसरे स्थान पर है।

## Nature Index Rankings

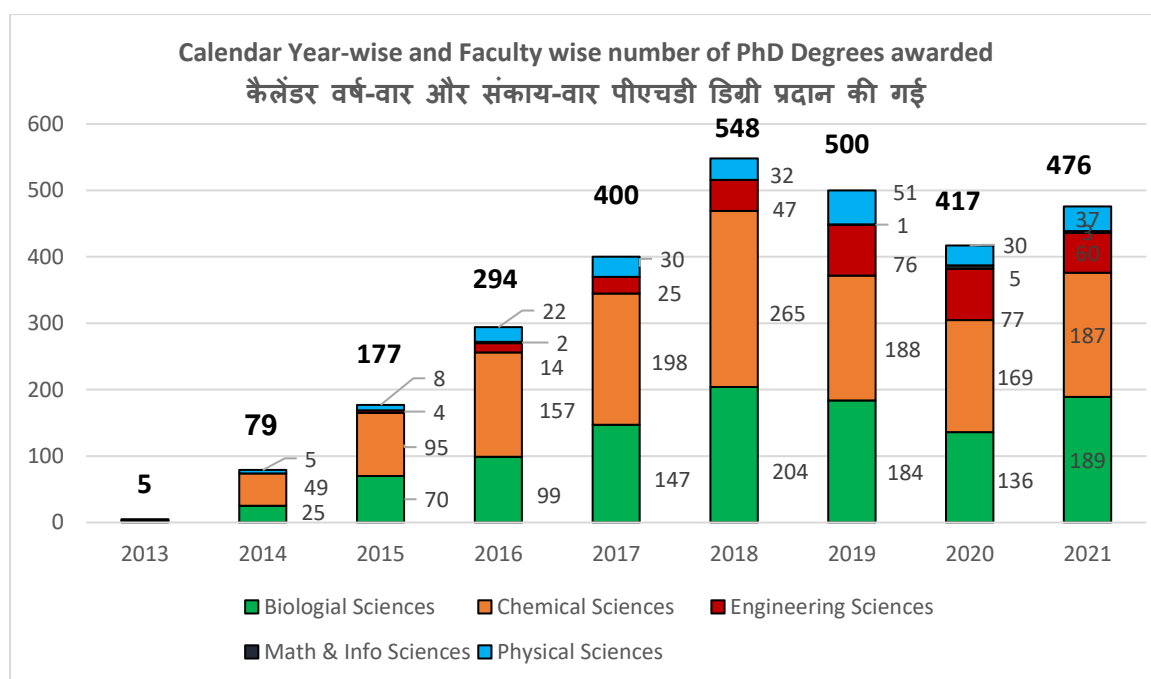
Nature Index uses the analytics of publications made by an institution in a small set of top-tier journals. Nature Index is considered as a marker of quality of research work. AcSIR achieved 11<sup>th</sup> rank in Nature Index among Universities in India, for the period from May 01, 2021 to April 30, 2022.

## प्रकृति सूचकांक रैंकिंग

नेचर इंडेक्स किसी संस्था द्वारा शीर्ष स्तरीय पत्रिकाओं के एक छोटे समूह में किए गए प्रकाशनों के विश्लेषण का उपयोग करता है। प्रकृति सूचकांक को शोध कार्य की गुणवत्ता का सूचक माना जाता है। एसीएसआईआर ने 01 मई, 2021 से 30 अप्रैल, 2022 की अवधि के लिए भारत के विश्वविद्यालयों के बीच प्रकृति सूचकांक में 11वीं रैंक हासिल की।

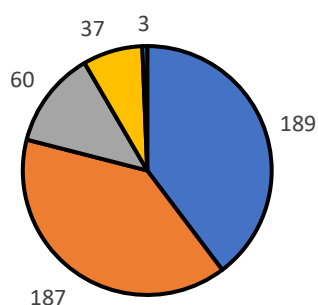
## Ph.D. Degrees Awarded by AcSIR

एसीएसआईआर द्वारा प्रदान की गई पीएच.डी. डिग्री



**Faculty wise distribution of Ph.D. degrees awarded in the Year 2021  
(Calendar Year)**

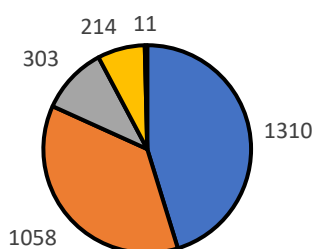
पीएच.डी. का संकायवार वितरण वर्ष 2020 में प्रदान की गई डिग्री



- Biological Science
- Chemical Sciences
- Engineering Science
- Physical Science
- Mathematical & Information Science

**Faculty-wise distribution of Ph.D. degrees awarded by AcSIR from its  
inception year to 2021 (Calendar Year)**

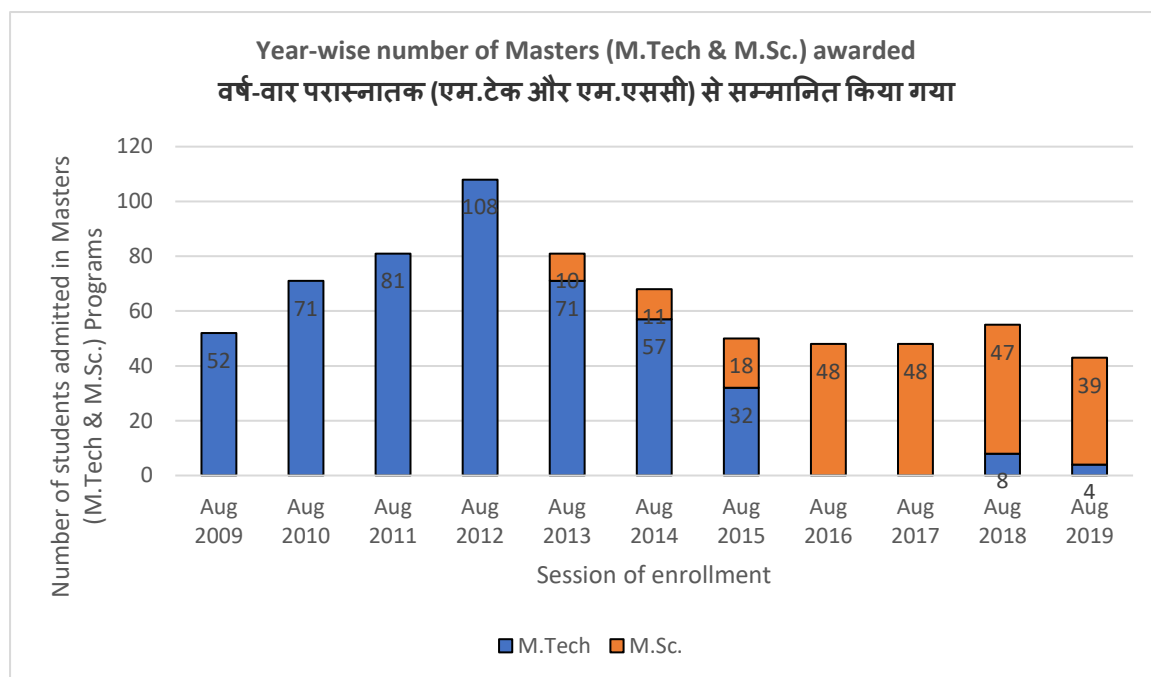
पीएच.डी. का संकायवार वितरण एसीएसआईआर द्वारा अपने स्थापना वर्ष से  
2020 तक प्रदान की गई डिग्री



- Chemical Science
- Biological Science
- Engineering Science
- Physical Science
- Mathematical & Information Science

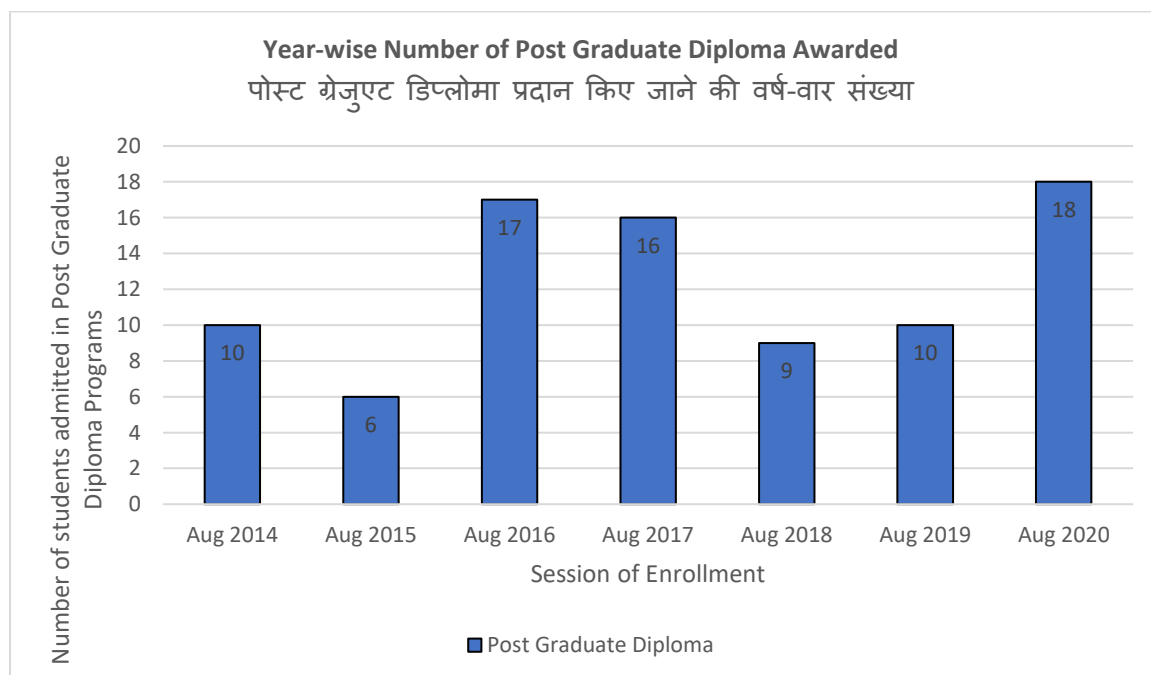
## Masters Degrees Awarded by AcSIR

एसीएसआईआर द्वारा प्रदान की गई परास्नातक डिग्री



## Post Graduate Diploma Awarded by AcSIR

एसीएसआईआर द्वारा प्रदान की गई पोस्ट ग्रेजुएट डिप्लोमा



## 9. Academic Collaborations

During the year 2021-22, Academy of Scientific and Innovative Research (AcSIR) entered into academic collaboration with following national and international institutions:

### ❖ **National Institutions as Associate Academic Centers:**

- ICMR-Vector Control Research Centre, Puducherry (on August 30, 2021)
- ICMR-Regional Medical Research Centre, Dibrugarh (on September 01, 2021)
- Centre of Biomedical Research (CBMR), Lucknow (on September 02, 2021)
- MoEFCC-Wildlife Institute of India, Dehradun (on February 02, 2022)
- MoHFW-National Institute for Biologicals, Noida (on March 07, 2022)

The broad objective of the agreements is to establish academic connectivity and synergy for academic complementation and collaboration enabling build-up of better capacity in identified areas/faculties of research and development.

In specific, AcSIR, by way of the agreement, has recognized above institutes, *not empowered to award degrees*, as its Associate Academic Centres where AcSIR would enrol students for its Ph.D. program. The students would be mentored by those scientists of the above institutes who would be recognized as honorary faculty of AcSIR as per AcSIR rules. The students may also be co-mentored by the faculty of AcSIR at other Academic Centers of AcSIR.

With these new academic collaborations in place, AcSIR has expanded its Associate Academic Centres from 7 to 12 during the year.

### ❖ **International Institutions for Inter-institutional Joint (Cotutelle) PhD Program:**

- University of Western Australia, Perth Australia (on March 29, 2022)

The broad objective of the agreement is to collaborate to jointly provide the Joint PhD Degree Program (JDP) i.e. a cotutelle program of research and training carried out by a PhD candidate who is concurrently enrolled in and jointly supervised by an academic supervisor, at both institutions.

## 9. शैक्षणिक सहयोग

वर्ष 2021-22 के दौरान, वैज्ञानिक और नवीकृत अनुसंधान अकादमी (एसीएसआईआर) ने निम्नलिखित राष्ट्रीय और अन्तरराष्ट्रीय संस्थानों के साथ शैक्षणिक सहयोग में प्रवेश किया:

### ❖ सहयोगी शैक्षणिक केंद्र के रूप में राष्ट्रीय संस्थान :

- आईसीएमआर-वेक्टर नियंत्रण अनुसंधान केंद्र, पुडुचेरी (30 अगस्त, 2021 को)
- आईसीएमआर-क्षेत्रीय चिकित्सा अनुसंधान केंद्र, डिब्रूगढ़ (01 सितंबर, 2021 को)
- सेंटर ऑफ बायोमेडिकल रिसर्च (सीबीएमआर), लखनऊ (02 सितंबर, 2021 को)
- MoEFCC-भारतीय वन्यजीव संस्थान, देहरादून (02 फरवरी, 2022 को)
- MoHFW-राष्ट्रीय जैविक संस्थान, नोएडा (07 मार्च, 2022 को)

समझौतों का व्यापक उद्देश्य अनुसंधान और विकास के पहचाने गए क्षेत्रों/संकायों में बेहतर क्षमता के निर्माण को सक्षम करने के लिए अकादमिक पूरकता और सहयोग के लिए अकादमिक कनेक्टिविटी और तालमेल स्थापित करना है।

विशेष रूप से, समझौते के माध्यम से, एसीएसआईआर ने उपरोक्त संस्थानों को अपने सहयोगी शैक्षणिक केंद्रों के रूप में मान्यता दी है, जहां डिग्री प्रदान करने का अधिकार नहीं है, जहां एसीएसआईआर अपने पीएचडी के लिए छात्रों का नामांकन करेगा। कार्यक्रम। छात्रों को उपरोक्त संस्थानों के उन वैज्ञानिकों द्वारा मार्गदर्शन दिया जाएगा जिन्हें एसीएसआईआर नियमों के अनुसार एसीएसआईआर के मानद संकाय के रूप में मान्यता दी जाएगी। छात्रों को एसीएसआईआर के अन्य शैक्षणिक केंद्रों में एसीएसआईआर के संकाय द्वारा सह-मार्गदर्शन भी दिया जा सकता है।

इन नए शैक्षणिक सहयोगों के साथ, एसीएसआईआर ने वर्ष के दौरान अपने सहयोगी शैक्षणिक केंद्रों को 7 से बढ़ाकर 12 कर दिया है।

### ❖ अंतर-संस्थागत संयुक्त (कोटुटेल) पीएचडी कार्यक्रम के लिए अन्तरराष्ट्रीय संस्थान :

- पश्चिमी ऑस्ट्रेलिया विश्वविद्यालय, पर्थ ऑस्ट्रेलिया (29 मार्च, 2022 को)

समझौते का व्यापक उद्देश्य संयुक्त पीएचडी डिग्री प्रोग्राम (जेडीपी) प्रदान करने के लिए सहयोग करना है, यानी एक पीएचडी उम्मीदवार द्वारा किए गए अनुसंधान और प्रशिक्षण का एक कॉट्यूटेल कार्यक्रम, जो दोनों संस्थानों में एक अकादमिक पर्यवेक्षक द्वारा समवर्ती रूप से नामांकित और संयुक्त रूप से पर्यवेक्षित हों।

## 10. Launch of 10th Year Celebration of ACSIR

### आईसीएमआर के 10 साल पूरे होने का जश्न

#### Celebrating 10 Years of ACSIR: A Journey of Excellence and Innovation

The Academy of Scientific and Innovative Research (AcSIR) launched celebrations of 10<sup>th</sup> Year AcSIR, marking a significant milestone in its journey of excellence and innovation. Distinguished scientists, Dr. Raghunath Anant Mashelkar and Professor Samir Brahmachari, graced the occasion, reflecting on their roles in shaping AcSIR. Let's delve into this celebration, honoring AcSIR's achievements and the visionaries who propelled it forward.

#### एसीएसआईआर के 10 साल पूरे होने का जश्न: उत्कृष्टता और नवाचार की यात्रा

एकेडमी ऑफ साइंटिफिक एंड इनोवेटिव रिसर्च (एसीएसआईआर) ने उत्कृष्टता और नवाचार की अपनी यात्रा में एक महत्वपूर्ण मील का पत्थर चिह्नित करते हुए एसीएसआईआर के 10वें वर्ष का जश्न शुरू किया। प्रतिष्ठित वैज्ञानिक, डॉ. रघुनाथ अनंत माशेलकर और प्रोफेसर समीर ब्रह्मचारी ने एसीएसआईआर को आकार देने में अपनी भूमिकाओं पर विचार करते हुए इस अवसर की शोभा बढ़ाई। आइए एसीएसआईआर की उपलब्धियों और इसे आगे बढ़ाने वाले दूरदर्शी लोगों का सम्मान करते हुए इस उत्सव में शामिल हों।

#### Dr. Raghunath Anant Mashelkar: A Visionary Leader

Dr. Raghunath Anant Mashelkar, a renowned scientist and National Research Professor, has left an indelible mark on India's science, technology, and innovation landscape. As the former Director General of the Council of Scientific and Industrial Research (CSIR), Dr. Mashelkar played a vital role in shaping policies and fostering innovation. His exceptional achievements include winning the prestigious TWAS-Lenovo Science Prize and being elected as a Fellow of the US National Academy of Inventors. Dr. Mashelkar's contributions extend to protecting India's traditional knowledge and advocating for its recognition globally.

#### डॉ. रघुनाथ अनंत माशेलकर: एक दूरदर्शी मार्गदर्शक

प्रसिद्ध वैज्ञानिक और राष्ट्रीय अनुसंधान प्रोफेसर डॉ. रघुनाथ अनंत माशेलकर ने भारत के विज्ञान, प्रौद्योगिकी और नवाचार परिदृश्य पर एक अमिट छाप छोड़ी है। वैज्ञानिक और औद्योगिक अनुसंधान परिषद (सीएसआईआर) के पूर्व महानिदेशक के रूप में, डॉ. माशेलकर ने नीतियों को आकार देने और नवाचार को बढ़ावा देने में महत्वपूर्ण भूमिका निभाई। उनकी असाधारण उपलब्धियों में प्रतिष्ठित टीडब्ल्यूएस-लेनोवो विज्ञान पुरस्कार जीतना और यूएस नेशनल एकेडमी ऑफ इन्वेंटर्स के फेलो के रूप में चुना जाना शामिल है। डॉ. माशेलकर का योगदान भारत के पारंपरिक ज्ञान की रक्षा करने और विश्व स्तर पर इसकी मान्यता की वकालत करने तक फैला हुआ है।

#### Professor Samir Brahmachari: A Trailblazer in Genomics

Professor Samir Brahmachari, former Director General of CSIR, has made remarkable contributions to genomics. His groundbreaking research on the structure-function relationship of DNA and the role of DNA variability in biological processes has paved the way for affordable healthcare. Professor Brahmachari's expertise in genomics and computational technology has earned him recognition as a Fellow of all four academies of science in India. His work has revolutionized the understanding of pathogenic organisms and has had a profound impact on healthcare.

## प्रोफेसर समीर ब्रह्मचारी: जीनोमिक्स में अग्रणी

सीएसआईआर के पूर्व महानिदेशक प्रोफेसर समीर ब्रह्मचारी ने जीनोमिक्स में उल्लेखनीय योगदान दिया है। डीएनए की संरचना-कार्य संबंध और जैविक प्रक्रियाओं में डीएनए परिवर्तनशीलता की भूमिका पर उनके अभूतपूर्व शोध ने किफायती स्वास्थ्य देखभाल का मार्ग प्रशस्त किया है। जीनोमिक्स और कम्प्यूटेशनल प्रौद्योगिकी में प्रोफेसर ब्रह्मचारी की विशेषज्ञता ने उन्हें भारत में विज्ञान की सभी चार अकादमियों के फेलो के रूप में मान्यता दिलाई है। उनके काम ने रोगजनक जीवों की समझ में क्रांति ला दी है और स्वास्थ्य देखभाल पर गहरा प्रभाव डाला है।

## The Role of Dr. Mashelkar and Professor Brahmachari in AcSIR

Dr. Mashelkar and Professor Brahmachari played instrumental roles in conceptualizing AcSIR as an academic research arm of CSIR and further as an Institution of National Importance. Their visionary leadership empowered young researchers and elevated CSIR's standards of excellence. Through their relentless pursuit of innovation and commitment to nurturing talent, AcSIR has become a renowned institution over the past decade.

## एसीएसआईआर में डॉ. माशेलकर और प्रोफेसर ब्रह्मचारी की भूमिका

डॉ. माशेलकर और प्रोफेसर ब्रह्मचारी ने एसीएसआईआर को सीएसआईआर की एक अकादमिक अनुसंधान शाखा और आगे राष्ट्रीय महत्व के संस्थान के रूप में विकसित करने में महत्वपूर्ण भूमिका निभाई। उनके दूरदर्शी नेतृत्व ने युवा शोधकर्ताओं को सशक्त बनाया और सीएसआईआर के उत्कृष्टता मानकों को ऊंचा उठाया। नवाचार की अपनी निरंतर खोज और प्रतिभा को पोषित करने की प्रतिबद्धता के माध्यम से, एसीएसआईआर पिछले एक दशक में एक प्रसिद्ध संस्थान बन गया है।

## Launch of 10<sup>th</sup> Year Celebration of ACSIR

The 10th-year celebration of AcSIR was a momentous occasion, honoring the institution's remarkable achievements. Prof. Chandra Shekhar, Chancellor, AcSIR; Prof. Shekhar C. Mande, DG, CSIR, Prof. Rajender Singh Sangwan, Director, AcSIR; Prof. Ajay Dhar, Associate Director, AcSIR; Prof. Suresh K. Bhargava, RMIT; Prof. Gautam Biswas, former Acting Director, AcSIR; Prof. Kunal Ray; former Associate Director and Acting Director, AcSIR; Prof. K.S. Krishna, former Dean, AcSIR; Deans, Associate Deans and Coordinators of AcSIR and other Esteemed dignitaries, invitees, and participants associated with AcSIR gathered to commemorate this milestone.

## एसीएसआईआर के 10वें वर्ष समारोह का शुभारंभ

एसीएसआईआर के 10वें वर्ष का जश्न संस्थान की उल्लेखनीय उपलब्धियों का सम्मान करने का एक महत्वपूर्ण अवसर था। प्रोफेसर चंद्र शेखर, चांसलर, एसीएसआईआर; प्रोफेसर शेखर सी. मांडे, महानिदेशक, सीएसआईआर, प्रोफेसर राजेंद्र सिंह सांगवान, निदेशक, एसीएसआईआर; प्रोफेसर अजय धर, एसोसिएट डायरेक्टर, एसीएसआईआर; प्रो. सुरेश के. भार्गव, आरएमआईटी; प्रोफेसर गौतम विश्वास, पूर्व कार्यवाहक निदेशक, एसीएसआईआर; प्रो. कुणाल रे; पूर्व एसोसिएट निदेशक और कार्यवाहक निदेशक, एसीएसआईआर; प्रोफेसर के.एस. कृष्णा, पूर्व डीन, एसीएसआईआर; एसीएसआईआर के डीन, एसोसिएट डीन और समन्वयक और एसीएसआईआर से जुड़े अन्य सम्मानित गणमान्य व्यक्ति, आमंत्रित व्यक्ति और प्रतिभागी इस महत्वपूर्ण उपलब्धि को मनाने के लिए एकत्र हुए।

### ***Building a Strong Foundation: The Remarkable Journey of AcSIR***

AcSIR's journey over the past decade has been exceptional, and acknowledged in the various ranking system wherein AcSIR has been ranked highly. Creating a university-like atmosphere within the national laboratory system required tremendous effort and execution. AcSIR's accomplishments stand as a testament to its dedication and determination.

#### ***एक मजबूत नींव का निर्माण: एसीएसआईआर की उल्लेखनीय यात्रा***

पिछले दशक में एसीएसआईआर की यात्रा असाधारण रही है, और विभिन्न रैंकिंग प्रणालियों में इसे स्वीकार किया गया है, जिसमें एसीएसआईआर को उच्च स्थान दिया गया है। राष्ट्रीय प्रयोगशाला प्रणाली के भीतर विश्वविद्यालय जैसा माहौल बनाने के लिए जबरदस्त प्रयास और कार्यान्वयन की आवश्यकता थी। एसीएसआईआर की उपलब्धियाँ उसके समर्पण और दृढ़ संकल्प के प्रमाण के रूप में खड़ी हैं।

#### ***Tracking Student Outcomes: Assessing Success***

Prof. Brahmachari emphasized the importance of tracking student outcomes as a measure of ACSIR's success. While publications serve as a quantitative indicator, the true measure lies in the number of AcSIR students who become future leaders in national laboratories and faculties in prestigious institutions. This reflects AcSIR's contribution to the nation's growth and scientific advancement.

#### ***छात्र परिणामों पर नज़र: सफलता का आकलन***

प्रोफेसर ब्रह्मचारी ने एसीएसआईआर की सफलता के माप के रूप में छात्र परिणामों पर नज़र रखने के महत्व पर जोर दिया। जबकि प्रकाशन एक मात्रात्मक संकेतक के रूप में काम करते हैं, असली माप एसीएसआईआर छात्रों की संख्या में निहित है जो भविष्य में देश के प्रतिष्ठित संस्थानों में संकाय के रूप में एवं राष्ट्रीय प्रयोगशालाओं में अग्रणी भूमिका निभाएंगे। यह देश के विकास और वैज्ञानिक उन्नति में एसीएसआईआर के योगदान को दर्शाता है।

#### ***Mentorship: Empowering the Underprivileged***

Dr. Mashelkar highlighted the need for interdisciplinary research and the importance of creating "borderless minds." He also discussed the challenges faced in integrating engineering with other fields of study and emphasizes the importance of scientific temperament and awareness.

Dr. Mashelkar the Science Ambassador program focusing on empowering students from economically disadvantaged backgrounds. He encouraged AcSIR students to mentor younger students for four years, providing guidance and support. This would foster inclusivity and transform AcSIR into an institution that not only builds human resources but also contributes to nation-building.

Further, he emphasized the importance of hard work and perseverance, particularly for young people. He shared his own experience of working tirelessly and constantly seeking opportunities for growth and learning. He encouraged young individuals to create their own opportunities when doors don't open and to view failure as a stepping stone to success.

He concluded by reminding everyone about the Social Contract of Science that it is the responsibility of scientists and researchers to contribute to society. This mindset should be the focus of AcSIR's research and encourage its students and faculty to actively engage with societal needs and challenges. By aligning

scientific endeavors with societal goals, AcSIR can have a positive and transformative impact on the nation and beyond.

### **परामर्श: वंचितों का सशक्तिकरण**

डॉ. माशेलकर ने अंतःविषय अनुसंधान की आवश्यकता और "सीमाहीन उड़ान" के सृजन की महत्ता पर प्रकाश डाला। उन्होंने इंजीनियरिंग को अध्ययन के अन्य क्षेत्रों के साथ एकीकृत करने में आने वाली चुनौतियों पर भी चर्चा की और वैज्ञानिक स्वभाव और जागरूकता के महत्व पर जोर दिया।

डॉ. माशेलकर का दृष्टिकोण विज्ञान राजदूत कार्यक्रम के अंतर्गत आर्थिक रूप से वंचित पृष्ठभूमि के छात्रों को सशक्त बनाने पर केंद्रित है। उन्होंने एसीएसआईआर छात्रों को चार वर्ष तक युवा छात्रों को मार्गदर्शन देने और सहायता प्रदान करने के लिए प्रोत्साहित किया। यह समावेशिता को बढ़ावा देगा और एसीएसआईआर को एक ऐसे संस्थान में बदल देगा जो न केवल मानव संसाधन बनाता है बल्कि राष्ट्र निर्माण में भी योगदान देता है।

इसके अलावा, उन्होंने विशेष रूप से युवा लोगों के लिए कड़ी मेहनत और दृढ़ता के महत्व पर जोर दिया। उन्होंने अथक परिश्रम करने और लगातार विकास और सीखने के अवसरों की तलाश करने का अपना अनुभव साझा किया। उन्होंने युवाओं को प्रोत्साहित किया कि जब दरवाजे नहीं खुलते हैं तब वे अपने लिए अवसर पैदा करें और असफलता को सफलता की सीढ़ी के रूप में देखें।

उन्होंने सभी को विज्ञान के सामाजिक अनुबंध के बारे में याद दिलाते हुए निष्कर्ष निकाला कि समाज में योगदान देना वैज्ञानिकों और शोधकर्ताओं की जिम्मेदारी है। इस मानसिकता पर एसीएसआईआर के अनुसंधान का ध्यान केंद्रित होना चाहिए और अपने छात्रों और संकाय को सामाजिक जरूरतों और चुनौतियों से सक्रिय रूप से जुड़ने के लिए प्रोत्साहित करना चाहिए। वैज्ञानिक प्रयासों को सामाजिक लक्ष्यों के साथ जोड़कर, एसीएसआईआर देश और उसके बाहर सकारात्मक और परिवर्तनकारी प्रभाव डाल सकता है।

## 11. Events / आयोजन

### AcSIR online lecture series (October – November 2021)

#### एसीएसआईआर ऑनलाइन व्याख्यान श्रृंखला (अक्टूबर-नवंबर 2021)

**Lecture series by Prof. Anil Kumar Gupta on "Meeting the unmet needs: Inclusive development through innovations for and from grassroots"**

**"अपूर्ण आवश्यकताओं को पूर्ति: जमीनी स्तर के लिए नवाचारों के माध्यम से समावेशी विकास" पर प्रोफेसर अनिल कुमार गुप्ता की व्याख्यान श्रृंखला**



**FOUNDER SHODHYATRA,  
HONEYBEENETWORK,  
SRISTI, GIAN, NIF, V FAC  
IIMA, IITB, NIPER-A**

This lecture series was conducted by Prof. Anil Kumar Gupta and Dr. Anamika Dey.

Prof. Anil Kumar Gupta is an Indian scholar in the area of grassroots innovations. He is the founder of the Honey Bee Network, SRISTI, GIAN and National Innovation Foundation. He retired as a full-time professor at the Indian Institute of Management, Ahmedabad in 2017, where he served for about 36 years. He is an Academy Professor of AcSIR.



**Dr. Anamika Dey  
CEO, GIAN**

Dr. Anamika Dey is the Chief Executive Officer of Gujarat Grassroots Innovation Augmentation Network (GIAN).

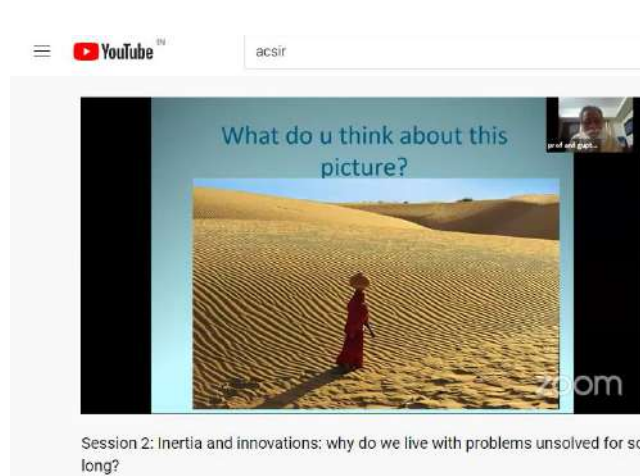
185 Groups/Teams (comprising of 864 students) registered for the lecture series.

इस व्याख्यान श्रृंखला का संचालन प्रोफेसर अनिल कुमार गुप्ता और डॉ. अनामिका डे द्वारा किया गया।

प्रोफेसर अनिल कुमार गुप्ता जमीनी स्तर पर नवाचार के क्षेत्र में एक भारतीय विद्वान हैं। वे हनी बी नेटवर्क, सृष्टि, जीआईएन और नेशनल इनोवेशन फाउंडेशन के संस्थापक हैं। वे 2017 में भारतीय प्रबंधन संस्थान, अहमदाबाद में पूर्णकालिक प्रोफेसर के रूप में सेवानिवृत्त हुए, जहां उन्होंने लगभग 36 वर्षों तक सेवा की। वे एसीएसआईआर के अकादमी प्रोफेसर हैं।

डॉ. अनामिका डे गुजरात ग्रासरोट्स इनोवेशन ऑगमेंटेशन नेटवर्क (जीआईएन) की मुख्य कार्यकारी अधिकारी हैं।

व्याख्यान सत्र के लिए 185 समूह/टीमें (864 छात्र शामिल) पंजीकृत हैं।



Above are some of the snapshots taken during Prof. Anil Kumar Gupta Lectures.  
ऊपर प्रोफेसर अनिल कुमार गुप्ता द्वारा दिये जा रहे व्याख्यान के दौरान लिए गए कुछ स्नैपशॉट

### **Meeting the unmet needs: inclusive development through innovations for and from grassroots**

#### **जमीनी स्तर के लिए नवाचारों के माध्यम से समावेशी विकास: अधूरी जरूरतों की पूर्ति**

Session 1: Oct 16, 2021

Fireflies of creativity- innovative ideas can emerge anywhere: learning from uncommon quarters

सत्र 1: 16 अक्टूबर, 2021

रचनात्मकता की ज्योति- नवीन विचार कहीं भी उभर सकते हैं: असामान्य क्षेत्रों से सीखना

Session 2: Oct 23, 2021

Inertia and innovations: why do we live with problems unsolved for so long?

सत्र 2: 23 अक्टूबर, 2021

अविचलनता और नवप्रवर्तन: हम इतने लंबे समय तक अनसुलझी समस्याओं के साथ क्यों रहते हैं?

Session 3: oct 30, 2021

How to identify unmet needs at the individual, community, institutional and even civilizational level?

सत्र 3: 30 अक्टूबर, 2021

व्यक्तिगत, सामुदायिक, संस्थागत और यहां तक कि सभ्यतागत स्तर पर अधूरी जरूरतों की पहचान कैसे करें?

Session 4: Nov 8, 2021, Creating an ecosystem for inclusive innovations: Evolution of Honey Bee Network: global grassroots innovation movement

सत्र 4: 8 नवंबर, 2021

समावेशी नवाचारों के लिए एक पारिस्थितिकी तंत्र निर्माण: हनी बी नेटवर्क का विकास: वैश्विक जमीनी स्तर पर नवाचार आंदोलन

Session 5: Nov 13, 2021

Can we harness traditional knowledge for developing affordable and sustainable solutions?

सत्र 5: 13 नवंबर, 2021

क्या हम किफायती और टिकाऊ समाधान विकसित करने के लिए पारंपरिक ज्ञान का उपयोग कर सकते हैं?

Session 6: Nov 15, 2021

Blending formal and informal science: illustrations of contemporary creativity validated by the institutional scientists.

सत्र 6: 15 नवंबर, 2021

औपचारिक और अनौपचारिक विज्ञान का सम्मिश्रण: संस्थागत वैज्ञानिकों द्वारा मान्य समकालीन रचनात्मकता के चित्रण।

Session 7: Nov 20, 2021

What role does open innovation play in reinforcing experimental and innovative ethic and trigger a collaborative culture of problem-solving?

सत्र 7: 20 नवंबर, 2021

प्रयोगात्मक और नवीन नैतिकता को सुदृढ़ करने और समस्या-समाधान की सहयोगात्मक संस्कृति को गति देने में खुला नवाचार क्या भूमिका निभाता है?

Session 8: Nov 22, 2021

Learning from nature and common people: Shodhyatra

सत्र 8: 22 नवंबर, 2021

प्रकृति और आम लोगों से सीखना: शोधयात्रा

Session 9: Nov 29, 2021

Diffusion of innovations: incentives for scaling innovations and experimental ethic

सत्र 9: 29 नवंबर, 2021

नवाचारों का प्रसार: नवाचारों और प्रयोगात्मक नैतिकता को बढ़ाने के लिए प्रोत्साहन

Session 10: Nov 30, 2021

Policy and institutional implications for research prioritization, pursuit and utilization by the industry, or communities.

सत्र 10: 30 नवंबर, 2021

उद्योग या समुदायों द्वारा अनुसंधान प्राथमिकता, अनुसरण और उपयोग के लिए नीति और संस्थागत निहितार्थ।

## National Science Day celebrations on 28-Feb-2022

### 28 फरवरी 2022 को राष्ट्रीय विज्ञान दिवस के उत्सव का आयोजन

National Science Day was celebrated jointly by CSIR-National Aerospace Laboratories and CSIR-4PI, Bangalore at CSIR-NAL.

In connection with National Science Day celebrations Prof. Dipankar Banarjee, Department of Materials Engineering, IISc, Bangalore has delivered National Science Day Lecture on "Materials in Flight". As part of Azadika Amruth Mohotsav celebration, CSIR-NAL and CSIR-4PI jointly initiated the AcSIR Lecture Series. Dr. Ramesh Sundaram, Chief Scientist and Head, Advanced Composites Division, CSIR-NAL, Bangalore has delivered the First Lecture "Health Monitoring of Composites Structures" under this series.

Various events viz., Essay writing competition, Cartoon drawing and Poster presentation were organized during 15-Feb-2022 to 18-Feb-2022. The AcSIR Ph.D students both from CSIR-NAL & CSIR-4PI took part in these events. The prizes were distributed to the winners.

The AcSIR Faculty was actively involved in organizing the events. The following are the glimpses of National Science Day Celebrations.

राष्ट्रीय विज्ञान दिवस समारोह के संबंध में प्रोफेसर दीपांकर बनर्जी, सामग्री इंजीनियरिंग विभाग, आईआईएससी, बेंगलूर ने "उड़ान में सामग्री" विषय पर राष्ट्रीय विज्ञान दिवस व्याख्यान दिया। आज़ादी के अमृत महोत्सव के हिस्से के रूप में, सीएसआईआर-एनएएल और सीएसआईआर-4पीआई ने संयुक्त रूप से एसीएसआईआर व्याख्यान श्रृंखला शुरू की। डॉ. रमेश सुंदरम, मुख्य वैज्ञानिक और प्रमुख, एडवांस्ड कंपोजिट डिवीजन, सीएसआईआर-एनएएल, बेंगलूर ने इस श्रृंखला के तहत पहला व्याख्यान "कंपोजिट संरचनाओं की स्वास्थ्य निगरानी" विषय पर दिया।

15-फरवरी-2022 से 18-फरवरी-2022 के दौरान निबंध लेखन प्रतियोगिता, कार्टून ड्राइंग और पोस्टर प्रस्तुति जैसे विभिन्न कार्यक्रम आयोजित किए गए। इन आयोजनों में सीएसआईआर-एनएएल और सीएसआईआर-4पीआई दोनों के एसीएसआईआर पीएचडी छात्रों ने भाग लिया। विजेताओं को पुरस्कार वितरित किये गये।

एसीएसआईआर संकाय कार्यक्रमों के आयोजन में सक्रिय रूप से शामिल थे। राष्ट्रीय विज्ञान दिवस समारोह की झलकियाँ निम्नलिखित हैं।

Essay writing competition:  
निबंध लेखन प्रतियोगिता:



Students' participation during the essay competition  
निबंध प्रतियोगिता के दौरान विद्यार्थियों की भागीदारी

Cartoon drawing:  
कार्टून ड्राइंग:



Participation of students  
छात्रों की भागीदारी

Evaluation by Jury members  
जूरी सदस्यों द्वारा छात्रों का मूल्यांकन

Poster presentation by students:

छात्रों द्वारा पोस्टर प्रस्तुति



Science Day Lectures:

विज्ञान दिवस व्याख्यान:

CSIR-NATIONAL AEROSPACE LABORATORIES  
& CSIR-FOURTH PARADIGM INSTITUTE  
BANGALORE - 560 017

Jigyasa AcSIR

Director, CSIR - NAL cordially invites you to attend the

**NATIONAL SCIENCE DAY 2022  
CELEBRATIONS**

on  
28 February 2022 at 2:00 PM

**National Science Day Lecture**  
by  
**Prof. Dipankar Banerjee**  
Dept. of Materials Engineering, IISc  
on  
**" MATERIALS IN FLIGHT "**

**AcSIR Lecture**  
by  
**Dr. Ramesh Sundaram**  
Head, ACD, CSIR-NAL  
on  
**" HEALTH MONITORING OF COMPOSITE STRUCTURES "**

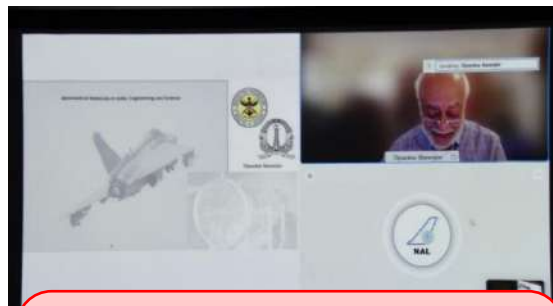
Watch live at <http://webcast.nalres.in>



Welcome address by Mr. Jithendra Jadev,  
Director, CSIR-NAL  
श्री जीतेन्द्र जाधव द्वारा स्वागत भाषण,  
निदेशक. सीएसआईआर-एनएएल



Inaugural address by Dr. Sridevi Jade,  
Head, CSIR - 4PI  
उद्घाटन भाषण डॉ. श्री देवी जेड द्वारा,  
प्रमुख सीएसआईआर - 4पीआई



Prof. Dipankar Banarjee, IISc delivering  
the Lecture through online  
प्रो. दीपांकर बनर्जी, आईआईएससी द्वारा  
ऑनलाइन व्याख्यान प्रस्तुति



Dr. Ramesh Sundaram, CSIR-NAL, Bangalore delivering the AcSIR Lecture  
डॉ. रमेश सुंदरम, सीएसआईआर-एनएएल, बेंगलूर द्वारा एसीएसआईआर व्याख्यान की प्रस्तुति

Distribution of prizes to the winners.  
विजेताओं को पुरस्कार वितरण



Felicitating the guests  
अतिथियों का स्वागत



1



2

Team AcSIR  
एसीएसआईआर टीम



AcSIR Coordinators CSIR – NAL & CSIR – 4PI  
एसीएसआईआर समन्वयक सीएसआईआर - एनएएल और सीएसआईआर - 4पीआई

## **AcSIR Lecture Series at CSIR-NAL on March 07, 2022**

### **एसीएसआईआर व्याख्यान श्रृंखला सीएसआईआर-एनएएल – मार्च 07, 2022**

As part of Azadika Amruth Mohotsav celebration, CSIR-NAL and CSIR-4PI jointly initiated the AcSIR Lecture Series from Feb – 2022. Under this programme, the second lecture was organized on 7-Mar-2022 at CSIR-NAL, Bangalore.

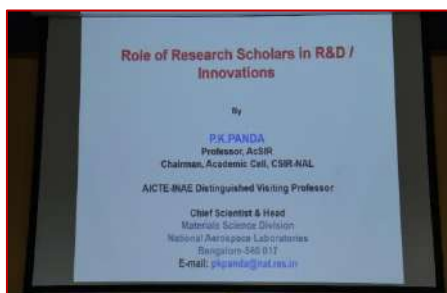
The Second lecture on 7-Mar-2022 was delivered by Dr. P K Panda, Chief Scientist & Head, Materials Science Division, CSIR-NAL, Bangalore on "Role of Research Scholars in R & D / Innovation".

The lecture was well received by the audience.

आज़ादी अमृत महोत्सव के हिस्से के रूप में, सीएसआईआर-एनएएल और सीएसआईआर-4पीआई ने संयुक्त रूप से फरवरी-2022 से एसीएसआईआर व्याख्यान श्रृंखला शुरू की। इस कार्यक्रम के तहत, दूसरा व्याख्यान 7-मार्च-2022 को सीएसआईआर-एनएएल, बेंगलूर में आयोजित किया गया था।

7-मार्च-2022 को दूसरा व्याख्यान डॉ. पी.के. पांडा, मुख्य वैज्ञानिक और प्रमुख, सामग्री विज्ञान प्रभाग, सीएसआईआर-एनएएल, बेंगलूर द्वारा "अनुसंधान एवं विकास/नवाचार में अनुसंधान विद्वानों की भूमिका" पर दिया गया था। व्याख्यान को श्रोताओं ने खूब सराहा।

Glimpses of Lecture: *व्याख्यान की झलकियाँ:*



## Presentation of CSIR-800 Societal Project by AcSIR students:

### एसीएसआईआर छात्रों द्वारा सीएसआईआर-800 सामाजिक परियोजना की प्रस्तुति:

On the eve of National Science Day celebrations, AcSIR students from CSIR-NAL and CSIR-4PI presented the various CSIR-800 Societal Projects executed under AcSIR Ph.D Programme.

राष्ट्रीय विज्ञान दिवस समारोह की पूर्व संध्या पर, सीएसआईआर-एनएएल और सीएसआईआर-4पीआई के एसीएसआईआर छात्रों ने एसीएसआईआर पीएचडी कार्यक्रम के तहत निष्पादित विभिन्न सीएसआईआर-800 सामाजिक परियोजनाओं को प्रस्तुत किया।



National Science Day committee watching the presentations made by AcSIR Ph.D students  
राष्ट्रीय विज्ञान दिवस समिति एसीएसआईआर पीएचडी छात्रों द्वारा दी गई प्रस्तुतियों को देखते हुए

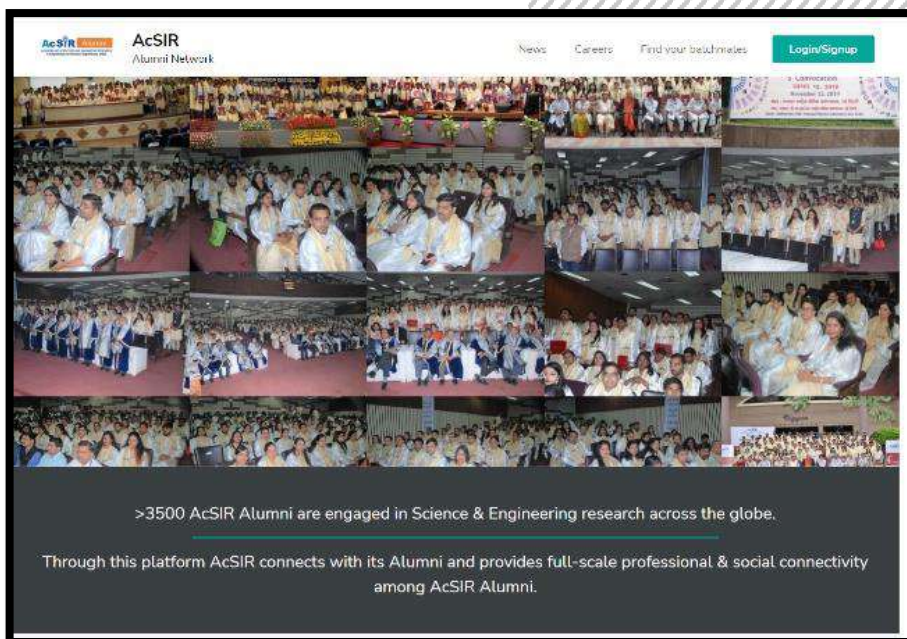
## **Alumni Portal** **अलुमनाई पोर्टल**

An online portal was created which connects AcSIR with its alumni & provides full scale professional & social connectivity among AcSIR alumni. Ongoing students & faculty members are also onboarded on this portal. This portal was launched by Prof. Sekhar C. Mande, Director General, CSIR & Vice Chairman, Board of Governors, AcSIR in presence of All members of Board of Governors online meeting held on 11 December 2021.



एक ऑनलाइन पोर्टल बनाया गया जो एसीएसआईआर को उसके पूर्व छात्रों से जोड़ता है और एसीएसआईआर के पूर्व छात्रों के बीच पूर्ण पैमाने पर पेशेवर और सामाजिक कनेक्टिविटी प्रदान करता है। मौजूदा छात्र और संकाय सदस्य भी इस पोर्टल पर शामिल हैं। इस पोर्टल को 11 दिसंबर 2021 को आयोजित बोर्ड ऑफ गवर्नर्स के सभी सदस्यों की ऑनलाइन बैठक में प्रोफेसर शेखर सी. मांडे, महानिदेशक, सीएसआईआर और उपाध्यक्ष, बोर्ड ऑफ गवर्नर्स, एसीएसआईआर द्वारा लॉन्च किया गया था।





## Conference

The international conference "Frontiers in Terahertz Technologies and Applications (FTTA-2021)" during 9-11 Dec 2021 was held at CSIR National Physical Laboratory of India in collaboration with Academy of Scientific & Innovative Research.

International Conference "Frontiers in Terahertz Technologies and Applications" (FTTA-2021)

**CSIR-NPL and AcSIR** organised a three day long international conference focused on **Frontiers in Terahertz Technologies and Applications** (FTTA-2021). The conference was inaugurated on Dec 9, 2021. Speaking on the occasion, Professor Venugopal Achanta, the Director CSIR-NPL highlighted the importance of terahertz in various fields specially in 6G communication and expressed the need for setting up goals for research & development towards technology application and metrology in this area.



Professor R. S. Sangwan, the Director of Academy of scientific and Innovative Research (AcSIR) expressed his pleasure about the conference, commemorating 75th Anniversary of Independence of India, Platinum Jubilee Year of establishment of CSIR-NPL and 10 years of existence of AcSIR. He mentioned that AcSIR has achieved a National Institutional Ranking Framework (NIRF) ranking of 22 among research institutions category of NIRF 2021 and a Nature Index 2021 ranking of 12, amongst the Academic sector institutions of India.



Prof Shekhar C Mande said that CSIR CAN MAKE COHESIVE EFFORTS in this area and NPL can take lead to develop future technology. He briefly mentioned about various application of terahertz technology in space, defence, Imaging, for safe society. He also emphasised that 6G communication needs Terahertz technology and developing terahertz standard at NPL is necessary to make country self-reliant.

This was amongst the first terahertz conference, specially designed to cover a wide range of important sessions and has managed to attract an outstanding list of participants, in a very short span of notice. The conference brought together researchers and experts in field of Terahertz technology to share ideas, techniques, recent progress and experiences. The conference also aimed to discuss the needs for further advancement of this field in India.

It conducted special sessions on Metrology, Terahertz Sources, Detectors and applications, Terahertz Imaging, Terahertz in Biology and Chemistry, Terahertz Communications and other applications of Terahertz. The conference hosted 17 invited speakers from all over the world, renowned for their exemplary work in the field of terahertz. A total number of over 273 participants from India and other 15 countries registered in this conference conducted online and offline. 18 contributory talks for oral presentation and 30 poster presentation were chosen from the received entries. Conference was attended by more 80 participants physically along with above 160 online.

Most of the presentations were followed by discussions to address the doubts of the attendees. It is hoped that whatever knowledge we have gained during these three days of international conference will be helpful to all of us for future work and higher studies.

It came out that a number of indigenous efforts are being made for terahertz generation and detection related areas in SSPL, IRDE, TIFR, CSIR LABS like NPL and CEERI, IITs, RRCAT and other universities. However, a further greater push is required to bring the terahertz technology in the limelight to be noticed by the decision-making authorities and funding agencies, for a continuous and concerted support. We hope to have fulfilled this challenge by bringing together all the researchers working in the area of terahertz at a common platform to showcase their achievements and challenges. Looking at its immense application there is a need to catalyse the research in this area by way of network and mega projects.



Further, CSIR-NPL is uniquely placed as the National Metrology Institute to realize the first terahertz standard and subsequent validation and traceability to SI units' capability for supporting the Indian industry and academia. Secondly, CSIR-NPL has the required skilled manpower and facilities to undertake the novel research to develop terahertz systems and solutions, in-addition to this our sister laboratory CSIR-CEERI has a strong capability to support semiconductor device design and semiconductor device fabrication. Thus, In the coming weeks a draft proposal for taking up joint projects between CSIR-NPL and CSIR-CEERI under the guidance of Director CSIR-NPL, focusing on the terahertz technologies will be prepared to initiate a concerted effort to cater the domestic needs of our country.

First day's key talks included the international efforts towards terahertz metrology & optical frequency comb, and free electron laser. There were also a number of national speakers that briefed about the various indigenous efforts being taken towards development of terahertz sources and imaging applications.



- (a) Dr. Mira Naftaly NPL, UK highlighted: the aspects of THz metrology, including metrology terms and definitions; procedures for evaluating performance of different systems; system calibration and calibration artefacts; and examples of applications requiring robust metrology.
- (b) Dr. Jin Long Peng, ITRI, Taiwan, highlighted: Optical frequency combs (OFC) have attracted a lot of attentions in the past two decades. Besides the original use in optical frequency measurement, many other applications have been developed in recent years. They play important roles in scientific researches or may have great impacts to the industry. To fit diversified applications, different ways of generation of the OFC have been invented. Some have been mature to be commercialized and many are still in development. In this talk, I will review the ways of the generation of OFC and their applications.
- (c) Dr. Erik Benkler, PTB Germany highlighted: about the applications of optical frequency combs at the national metrology institute of Germany PTB, including stability transfer from the world's most stable laser to optical clock interrogation lasers, absolute and relative optical frequency

measurements, distribution of ultra-stable optical reference signals, as well as tracing interferometric length measurements back to the definition of the SI unit "metre".

- (d) Young Uk Jeong, Director, Radiation Center for Ultrafast Radiation, Korea Atomic Energy Research Institute, Korea highlighted: In an attempt to make smaller THz free electron laser devices capable of producing higher output powers in the THz spectral region of 1-2 THz, they have developed a microtron accelerator that can accelerate electron beams from 3-6 MeV. The Indian effort of developing IR-FEL is being undertaken at RRCAT, Dr. Ashish Khandelwal briefed about its recent development and its first signal obtained by RRCAT.
- (e) Dr. S. S. Prabhu, TIFR, Mumbai highlighted: development of low THz power experiments used for studying compound materials and metamaterials. He described results on Metamaterials and briefly mention the study on a near field scanning THz microscope which is a completely homebuilt instrument. He also described measurements done on materials like  $\text{Ga}_2\text{O}_3$  and near field measurements on various metamaterials. They have built pump-probe THz spectroscopy using high repetition rate laser.
- (f) Dr. Mercy Latha, CEERI, CSIR highlighted: development of firstly, a continuous wave (CW) THz imaging system operating in the range of 0.1 THz to 0.5 THz. The CW THz imaging system consists of a THz emitter and receiver operating on the photo-mixing principle using two CW NIR lasers. Secondly, a pulsed THz time domain spectroscopy (THz-TDS) system has been developed for quantifying the porosity change in composite materials and thickness characterization of individual layers in a multi-layer coated sample. THz-TDS contains of a photo-conductive antenna with an ultrafast femtosecond laser as the THz emitter.



Second day's key talks included the international and national efforts towards terahertz communication, detection and applications in the biology/chemical studies. Mainly:

- (a) Dr. Ranjan Singh, NTU, Singapore highlighted the need to develop various components required to enable wireless communications working at the terahertz frequency, that could allow speeds beyond 150 Gbit/s. Working along with the Osaka University, Japan, Dr. Singh's team has already demonstrated a new chip that out performs the 5G data transfer standards for communications.
- (b) Dr. Hakan Altan, Turkey METU MEMS Center, Turkey highlighted the potential for THz sensor design based on thermal and non-thermal based detection benefits from the use of metamaterial unit cells in 2D arrangements, aptly named as metasurfaces. These structures allow for development of devices with great detection efficiency thereby opening the door towards development of many applications who have long suffered from inadequacy in power of THz light sources. The design and development of these structures requires a careful optimization with respect to the operation THz frequency.
- (c) Dr. Gagan Kumar, IIT Guwahati, highlighted the new class of terahertz waveguides based upon the periodically structured metal surfaces. The structuring leads to the excitation of surface plasmons polaritons at specific frequencies and subsequently their propagation along the corrugated pattern on a planar metal surface. The patterned surfaces act as an effective media for the surface plasmons to propagate whose cut-off frequencies can be tailored by controlling

the dimensions of the structures. The approach is useful in designing the planar plasmonic terahertz guided wave devices.

Third day's key talks included the international and national efforts towards terahertz spectroscopy and other applications.

- (a) Dr. D. S. Rana, IISER Bhopal highlighted THz spectroscopy as indispensable tool for probing a variety of quasiparticles emerging from electrodynamics of collective, bound and free charge carriers, complex spin orders, etc. He presented the efficacy of time-averaged and time-resolved THz spectroscopy in resolving some outstanding issues in rare-earth nickelates dominated by correlations and  $\text{SrIrO}_3$  iridate incorporating the potential of spin-orbit coupling.
- (b) Dr. Dibakar Ray Choudhary, Ecole Mahendra, Hyderabad highlighted modulations of sub wavelength resonances in different metasurface configurations that are studied in Terahertz (THz) domains. He presented the results of transverse magnetism in 1-dimensional (low dimensional system) plasmonic wire.
- (c) Dr. Shovan Pal, NISER, Bhubaneswar, highlighted that nonlinear THz spectroscopy reveals a pronounced coupling of electronic and ionic-displacement dipoles. The soft mode is thus a hybrid mode of lattice (ionic) motions and electronic interband transitions. His work provides fundamental insights into the microscopic processes that govern the softness that any material assumes near a ferroic phase transition.
- (d) Prof. Petr Kuzel highlighted about the Band bending in single-crystalline GaAs nanobars revealed by near-field and far-field terahertz photoconductivity measurements. He discussed his findings about Time-resolved THz spectroscopy in the far and near field.

## सम्मेलन

9-11 दिसंबर 2021 के दौरान अंतरराष्ट्रीय सम्मेलन "फ्रंटियर्स इन टेराहर्ट्ज़ टेक्नोलॉजीज एंड एप्लिकेशन (एफटीटीए-2021)" वैज्ञानिक और नवीन अनुसंधान अकादमी के सहयोग से भारत की सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला में आयोजित किया गया था।

अंतरराष्ट्रीय सम्मेलन "टेराहर्ट्ज़ प्रौद्योगिकियों और अनुप्रयोगों में नवीनताएं" (एफटीटीए-2021)



सीएसआईआर-एनपीएल और एसीएसआईआर ने फ्रंटियर्स इन टेराहर्ट्ज़ टेक्नोलॉजीज एंड एप्लिकेशन (FTTA-2021) पर केंद्रित तीन दिवसीय अंतरराष्ट्रीय सम्मेलन का आयोजन किया। सम्मेलन का उद्घाटन 9 दिसंबर, 2021 को हुआ था। इस अवसर पर बोलते हुए, सीएसआईआर-एनपीएल के निदेशक प्रोफेसर वेणुगोपाल अचंता ने विभिन्न क्षेत्रों, विशेष रूप से 6जी संचार में टेराहर्ट्ज़ के महत्व पर प्रकाश डाला और प्रौद्योगिकी की दिशा में अनुसंधान और विकास के लिए लक्ष्य निर्धारित करने की आवश्यकता व्यक्त की।

एकेडमी ऑफ साइंटिफिक एंड इनोवेटिव रिसर्च (एसीएसआईआर) के निदेशक प्रोफेसर आर.एस. सांगवान ने भारत की स्वतंत्रता की 75वीं वर्षगांठ, सीएसआईआर-एनपीएल की स्थापना के प्लेटिनम जुबली वर्ष और एसीएसआईआर के अस्तित्व के 10 साल पूरे होने के उपलक्ष्य में आयोजित सम्मेलन के बारे में प्रसन्नता व्यक्त की। उन्होंने उल्लेख किया कि एसीएसआईआर ने एनआईआरएफ 2021 की अनुसंधान संस्थानों की श्रेणी में 22वीं राष्ट्रीय संस्थागत रैंकिंग फ्रेमवर्क (एनआईआरएफ) रैंकिंग और भारत के शैक्षणिक क्षेत्र के संस्थानों के बीच नेचर इंडेक्स 2021 में 12वीं रैंकिंग हासिल की है।



प्रोफेसर शेखर सी मांडे ने कहा कि सीएसआईआर इस क्षेत्र में एकजुट प्रयास कर सकता है और एनपीएल भविष्य की तकनीक विकसित करने का नेतृत्व कर सकता है। उन्होंने सुरक्षित समाज के लिए अंतरिक्ष, रक्षा, इमेजिंग में टेराहर्ट्ज़ प्रौद्योगिकी के विभिन्न अनुप्रयोगों के बारे में संक्षेप में उल्लेख किया। उन्होंने इस बात पर भी जोर दिया कि 6जी संचार के लिए टेराहर्ट्ज़ तकनीक की आवश्यकता है और देश को आत्मनिर्भर बनाने के लिए एनपीएल में टेराहर्ट्ज़ मानक विकसित करना आवश्यक है।

यह पहला टेराहर्ट्ज़ सम्मेलन था, जिसे विशेष रूप से महत्वपूर्ण सत्रों की एक विस्तृत श्रृंखला को कवर करने के लिए डिज़ाइन किया गया था और यह बहुत ही कम समय में प्रतिभागियों की एक उत्कृष्ट सूची को आकर्षित करने में कामयाब रहा। सम्मेलन ने विचारों, तकनीकों, हालिया प्रगति और अनुभवों को साझा करने के लिए टेराहर्ट्ज़ प्रौद्योगिकी के क्षेत्र में शोधकर्ताओं और विशेषज्ञों को एक साथ लाया। सम्मेलन का उद्देश्य भारत में इस क्षेत्र को और आगे बढ़ाने की जरूरतों पर चर्चा करना भी था।

इसने मेट्रोलॉजी, टेराहर्ट्ज़ स्रोत, डिटेक्टर और अनुप्रयोग, टेराहर्ट्ज़ इमेजिंग, जीव विज्ञान और रसायन विज्ञान में टेराहर्ट्ज़, टेराहर्ट्ज़ संचार और टेराहर्ट्ज़ के अन्य अनुप्रयोगों पर विशेष सत्र आयोजित किए। सम्मेलन में दुनिया भर से 17 आमंत्रित वक्ताओं की मेजबानी की गई, जो टेराहर्ट्ज़ के क्षेत्र में अपने अनुकरणीय कार्य के लिए प्रसिद्ध थे। ऑनलाइन और ऑफलाइन आयोजित इस सम्मेलन में भारत और अन्य 15 देशों से कुल 273 से अधिक प्रतिभागियों ने पंजीकरण कराया।

प्राप्त प्रविष्टियों में से मौखिक प्रस्तुति के लिए 18 अंशदायी वार्ता और 30 पोस्टर प्रस्तुति को चुना गया। सम्मेलन में 80 से अधिक प्रतिभागियों ने प्रत्यक्ष रूप से और 160 से अधिक प्रतिभागियों ने ऑनलाइन भाग लिया।

अधिकांश प्रस्तुतियों के बाद उपस्थित लोगों की शंकाओं का समाधान करने के लिए चर्चा की गई। आशा है कि अंतरराष्ट्रीय सम्मेलन के इन तीन दिनों के दौरान हमने जो भी ज्ञान प्राप्त किया है वह भविष्य के काम और उच्च अध्ययन के लिए हम सभी के लिए उपयोगी होगा।

यह सामने आया कि एसएसपीएल, आईआरडीई, टीआईएफआर, सीएसआईआर लैब्स जैसे एनपीएल और सीईईआरआई, आईआईटी, आरआरसीएटी और अन्य विश्वविद्यालयों में टेराहर्ट्ज उत्पादन और संबंधित क्षेत्रों के लिए कई स्वदेशी प्रयास किए जा रहे हैं। हालाँकि, निरंतर और ठोस समर्थन के लिए, निर्णय लेने वाले अधिकारियों और फंडिंग एजेंसियों द्वारा नोटिस किए जाने के लिए टेराहर्ट्ज तकनीक को सुर्खियों में लाने के लिए और अधिक प्रयास की आवश्यकता है। हमें उम्मीद है कि टेराहर्ट्ज के क्षेत्र में काम कर रहे सभी शोधकर्ताओं को उनकी उपलब्धियों और चुनौतियों को प्रदर्शित करने के लिए एक आम मंच पर लाकर हम इस चुनौती को पूरा कर लेंगे। इसके विशाल अनुप्रयोग को देखते हुए नेटवर्क और मेगा परियोजनाओं के माध्यम से इस क्षेत्र में अनुसंधान को उत्प्रेरित करने की आवश्यकता है।



इसके अलावा, सीएसआईआर-एनपीएल को भारतीय उद्योग और शिक्षा जगत को समर्थन देने के लिए पहले टेराहर्ट्ज मानक और उसके बाद एसआई इकाइयों की क्षमता के सत्यापन और पता लगाने की क्षमता का एहसास करने के लिए राष्ट्रीय मेट्रोलॉजी संस्थान के रूप में विशिष्ट रूप से रखा गया है। दूसरे, सीएसआईआर-एनपीएल के पास टेराहर्ट्ज सिस्टम और समाधान विकसित करने के लिए नवीन अनुसंधान करने के लिए आवश्यक कुशल जनशक्ति और सुविधाएं हैं, इसके अलावा हमारी सहयोगी प्रयोगशाला सीएसआईआर-सीईईआरआई के पास सेमीकंडक्टर डिवाइस डिजाइन और सेमीकंडक्टर डिवाइस निर्माण का समर्थन करने की एक मजबूत क्षमता है। इस प्रकार, आने वाले हफ्तों में निदेशक सीएसआईआर-एनपीएल के मार्गदर्शन में सीएसआईआर-एनपीएल और सीएसआईआर-सीईईआरआई के बीच संयुक्त परियोजनाओं को शुरू करने के लिए एक मसौदा प्रस्ताव तैयार किया जाएगा, जिसमें टेराहर्ट्ज प्रौद्योगिकियों पर ध्यान केंद्रित करते हुए घरेलू जरूरतों को पूरा करने के लिए एक ठोस प्रयास शुरू किया जाएगा।

पहले दिन की मुख्य वार्ता में टेराहर्ट्ज मेट्रोलॉजी और ऑप्टिकल फ्रीक्वेंसी कॉम्ब और फ्री इलेक्ट्रॉन लेजर की दिशा में अंतरराष्ट्रीय प्रयास शामिल थे। वहाँ कई राष्ट्रीय वक्ता भी थे जिन्होंने टेराहर्ट्ज स्रोतों और इमेजिंग अनुप्रयोगों के विकास की दिशा में किए जा रहे विभिन्न स्वदेशी प्रयासों के बारे में जानकारी दी।

क. डॉ. मीरा नैफ्टली एनपीएल, यूके ने मेट्रोलॉजी के नियमों और परिभाषाओं सहित टीएचजेड मेट्रोलॉजी के पहलू; विभिन्न प्रणालियों के प्रदर्शन के मूल्यांकन की प्रक्रियाएँ; सिस्टम अंशांकन और अंशांकन कलाकृतियाँ; और मजबूत मेट्रोलॉजी की आवश्यकता वाले अनुप्रयोगों के उदाहरण पर प्रकाश डाला।



ख. डॉ. जिन लॉन्ग पेंग, आईटीआरआई, ताइवान ने प्रकाश डाला कि ऑप्टिकल फ्रीक्वेंसी कॉम्ब्स (ओएफसी) ने पिछले दो दशकों में बहुत अधिक ध्यान आकर्षित किया है। ऑप्टिकल आवृत्ति माप में मूल उपयोग के अलावा, हाल के वर्षों में कई अन्य अनुप्रयोग विकसित किए गए हैं। वे वैज्ञानिक अनुसंधानों में महत्वपूर्ण भूमिका निभाते हैं या उद्योग पर बड़ा प्रभाव डाल सकते हैं। विविध अनुप्रयोगों को फिट करने के लिए, ओएफसी के उत्पादन के विभिन्न तरीकों का आविष्कार किया गया है। कुछ व्यावसायीकरण के लिए परिपक्व हो गए हैं और कई अभी भी विकास में हैं। उन्होंने कहा कि इस वार्ता में, मैं ओएफसी के उत्पादन के तरीकों और उनके अनुप्रयोगों की समीक्षा करूंगा।

ग. डॉ. एरिक बैंकलर, पीटीबी जर्मनी ने प्रकाश डाला कि जर्मनी पीटीबी के राष्ट्रीय मेट्रोलॉजी संस्थान में ऑप्टिकल फ्रीक्वेंसी कॉम्ब्स के अनुप्रयोगों, जिसमें दुनिया के सबसे स्थिर लेजर से ऑप्टिकल क्लॉक लेजर में स्थिरता हस्तांतरण, पूर्ण और सापेक्ष ऑप्टिकल आवृत्ति माप, अल्ट्रा का वितरण शामिल है। स्थिर ऑप्टिकल संदर्भ सिग्नल, साथ ही एसआई इकाई "मीटर" की परिभाषा में इंटरफेरोमेट्रिक लंबाई माप का पता लगाना शामिल है।

घ. यंग यूके जियोंग, निदेशक, रेडिएशन सेंटर फॉर अल्ट्राफास्ट रेडिएशन, कोरिया परमाणु ऊर्जा अनुसंधान संस्थान, कोरिया ने प्रकाश डाला कि 1-2 THz के THz वर्णक्रमीय क्षेत्र में उच्च आउटपुट पावर का उत्पादन करने में सक्षम छोटे THz मुक्त इलेक्ट्रॉन लेजर उपकरण बनाने के प्रयास में, उन्होंने एक माइक्रोट्रॉन त्वरक विकसित किया है जो 3-6 MeV से इलेक्ट्रॉन बीम को तेज कर सकता है। आईआर-एफईएल विकसित करने का भारतीय प्रयास आरआरसीएटी में किया जा रहा है, डॉ. आशीष खंडेलवाल ने इसके हालिया विकास और आरआरसीएटी द्वारा प्राप्त इसके पहले संकेत के बारे में जानकारी दी।

ड. डॉ. एस.एस. प्रभु, टीआईएफआर, मुंबई ने यौगिक सामग्रियों और मेटामटेरियल्स के अध्ययन के लिए उपयोग किए जाने वाले कम टीएचजेड पावर प्रयोगों के विकास पर प्रकाश डाला। उन्होंने मेटामटेरियल्स पर परिणामों का वर्णन किया और निकट क्षेत्र स्कैनिंग टीएचजेड माइक्रोस्कोप पर अध्ययन का संक्षेप में उल्लेख किया जो पूरी तरह से घरेलू उपकरण है। उन्होंने Ga<sub>2</sub>O<sub>3</sub> जैसी सामग्रियों पर किए गए माप और विभिन्न मेटामटेरियल्स पर निकट क्षेत्र माप का भी वर्णन किया। उन्होंने उच्च पुनरावृत्ति दर लेजर का उपयोग करके पंप-जांच THz स्पेक्ट्रोस्कोपी का निर्माण किया है।



च. डॉ. मर्सी लता, सीईईआरआई, सीएसआईआर ने सबसे पहले, 0.1 THz से 0.5 THz की रेंज में काम करने वाली एक सतत तरंग (CW) THz इमेजिंग प्रणाली के विकास पर प्रकाश डाला। सीडब्ल्यू टीएचजेड इमेजिंग सिस्टम में एक टीएचजेड एमिटर और रिसीवर होता है जो दो सीडब्ल्यू एनआईआर लेजर का उपयोग करके फोटो-मिक्सिंग सिद्धांत पर काम करता है। दूसरे, बहु-परत लेपित नमूने में मिश्रित सामग्रियों में सरंधता परिवर्तन और व्यक्तिगत परतों की मोटाई के लक्षण वर्णन को मापने के लिए एक स्पंदित THz टाइम डोमेन स्पेक्ट्रोस्कोपी (THz-TDS) प्रणाली विकसित की गई है। THz-TDS में THz एमिटर के रूप में एक अल्ट्राफास्ट फेमटोसेकंड लेजर के साथ एक फोटो-कंडक्टिव एंटीना होता है

दूसरे दिन की मुख्य वार्ता में जीव विज्ञान/रासायनिक अध्ययन में टेराहर्ट्ज़ संचार, पहचान और अनुप्रयोगों की दिशा में अंतरराष्ट्रीय और राष्ट्रीय प्रयास शामिल थे।

क. डॉ. रंजन सिंह, एनटीयू, सिंगापुर ने टेराहर्ट्ज़ आवृत्ति पर काम करने वाले वायरलेस संचार को सक्षम करने के लिए आवश्यक विभिन्न घटकों को विकसित करने की आवश्यकता पर प्रकाश डाला, जो 150 Gbit/s से अधिक गति की अनुमति दे सकता है। ओसाका विश्वविद्यालय, जापान के साथ काम करते हुए, डॉ. सिंह की टीम ने पहले ही एक नई चिप का प्रदर्शन किया है जो संचार के लिए 5जी डेटा ट्रांसफर मानकों को पूरा करती है।

ख. डॉ. हकन अल्तान, तुर्की एमईटीयू एमईएमएस सेंटर, तुर्की ने 2डी व्यवस्था में मेटामटेरियल यूनिट कोशिकाओं के उपयोग से थर्मल और गैर-थर्मल आधारित पहचान लाभों के आधार पर टीएचजेड सेंसर डिजाइन की क्षमता पर प्रकाश डाला, जिसे उपयुक्त रूप से मेटासर्फेस नाम दिया गया है। ये संरचनाएं महान पहचान दक्षता वाले उपकरणों के विकास की अनुमति देती हैं जिससे कई अनुप्रयोगों के विकास के द्वार खुल जाते हैं जो लंबे समय से THz प्रकाश स्रोतों की अपर्याप्त शक्ति से पीड़ित हैं। इन संरचनाओं के डिजाइन और विकास के लिए संचालन THz आवृत्ति के संबंध में सावधानीपूर्वक अनुकूलन की आवश्यकता होती है।

ग. आईआईटी गुवाहाटी के डॉ. गगन कुमार ने समय-समय पर संरचित धातु सतहों के आधार पर टेराहर्ट्ज़ वेवगाइड की नई श्रेणी पर प्रकाश डाला। संरचना विशिष्ट आवृत्तियों पर सतह प्लास्मॉन्स धुवों की उत्तेजना की ओर ले जाती है और बाद में एक समतल धातु की सतह पर नालीदार पैटर्न के साथ उनके प्रसार की ओर ले जाती है। पैटर्न वाली सतहें सतह के प्लास्मों के प्रसार के लिए एक प्रभावी माध्यम के रूप में कार्य करती हैं जिनकी कट-ऑफ आवृत्तियों को संरचनाओं के आयामों को नियंत्रित करके तैयार किया जा सकता है। यह दृष्टिकोण समतल प्लास्मोनिक टेराहर्ट्ज़ निर्देशित तरंग उपकरणों को डिजाइन करने में उपयोगी है।

तीसरे दिन की मुख्य वार्ता में टेराहर्ट्ज़ स्पेक्ट्रोस्कोपी और अन्य अनुप्रयोगों की दिशा में अंतरराष्ट्रीय और राष्ट्रीय प्रयास शामिल थे।

क. डॉ. डी.एस. राणा, आईआईएसईआर भोपाल ने सामूहिक, बाध्य और मुक्त चार्ज वाहक, जटिल स्पिन ऑर्डर इत्यादि के इलेक्ट्रोडायनामिक्स से उभरने वाले विभिन्न क्वासिपार्टिकल्स की जांच के लिए टीएचजेड स्पेक्ट्रोस्कोपी को अपरिहार्य उपकरण के रूप में रेखांकित किया। उन्होंने समय-औसत और समय की प्रभावकारिता प्रस्तुत की सहसंबंधों और  $\text{SrIrO}_3$  के वर्चस्व वाले दुर्लभ-पृथ्वी निकलेट्स में कुछ मुद्दों को हल करने में THz स्पेक्ट्रोस्कोपी का स्पिन-ऑर्बिट युग्मन की क्षमता को शामिल करते हुए समाधान किया।

ख. डॉ. दिबाकर रे चौधरी, इकोले महेंद्रा, हैदराबाद ने विभिन्न मेटासर्फेस कॉन्फिगरेशन में उप तरंग दैर्घ्य अनुनादों के मॉड्यूलेशन पर प्रकाश डाला, जिनका अध्ययन टेराहर्ट्ज़ (THz) डोमेन में किया जाता है। उन्होंने 1-आयामी (कम आयामी प्रणाली) प्लास्मोनिक तार में अनुप्रस्थ चुंबकत्व के परिणाम प्रस्तुत किए।

ग. डॉ. शोवन पाल, एनआईएसईआर, भुवनेश्वर ने इस बात पर प्रकाश डाला कि नॉनलाइनियर टीएचजेड स्पेक्ट्रोस्कोपी से इलेक्ट्रॉनिक और आयनिक-विस्थापन द्विध्रुवों के स्पष्ट युग्मन का पता चलता है। इस प्रकार सॉफ्ट मोड जाली (आयनिक) गतियों और इलेक्ट्रॉनिक इंटरबैंड संक्रमणों का एक संकर मोड है। उनका काम सूक्ष्म प्रक्रियाओं में मौलिक अंतर्दृष्टि प्रदान करता है जो फेरोइक चरण संक्रमण के निकट किसी भी सामग्री की कोमलता को नियंत्रित करता है।

घ. प्रो. पेट्र कुजेल ने निकट-क्षेत्र और दूर-क्षेत्र टेराहर्ट्ज़ फोटोकंडक्टिविटी माप से प्रकट एकल-क्रिस्टलीय GaAs नैनोबार में बैंड झुकने के बारे में प्रकाश डाला। उन्होंने दूर और निकट क्षेत्र में समय-समाधान THz स्पेक्ट्रोस्कोपी के बारे में अपने निष्कर्षों पर चर्चा की

## 12. Awards & Achievements

### Faculty's Awards & Achievements

#### Dr. Shilpi Kushwaha

Scientist, AcSIR Assistant Professor,

Chemical Sciences

Academic centre: CSIR-CSMCRI

*Won the "CSIR Young Scientist Award" for the year 2021 Analytical and Environmental Science Division and Centralized Instrument Facility in the field of Earth, Atmosphere, Ocean and Planetary Science*

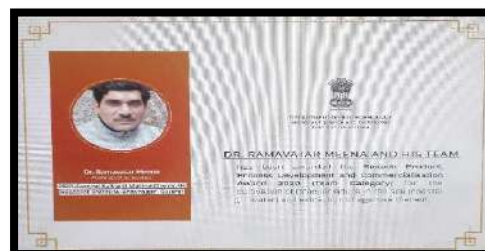


#### Dr. Ramavatar Meena

Principal Scientist, AcSIR Assistant Professor

Academic centre: CSIR-CSMCRI

*Has been awarded the Biotech Product, Process Development and Commercialisation Award 2020 (Team Category) for the cultivation of Gracilariadura in the sea (coastal water) and extraction of agarose thereof.*



#### Dr. Suaib Iqman

Senior Principal Scientist,

AcSIR Associate Professor, Biological Sciences

AcSIR Coordinator

Academic centre: CSIR-CIMAP



*Featured in the List of World's Top 2% Scientist database 2021 released by Elsevier BV based on a study conducted by Stanford University, USA.*

*Also 2020 Highly Cited Researcher in updated science-wide author databases of standardized citation indicators published on October 16, 2020 (PLOS Biology) Stanford University, USA*

*Winner of Carrom Individual event, CIMAP-Sports MEET 2021*

### **Dr. Dinesh A. Ngegowda**

Chief Scientist, Professor, AcSIR

Biological Sciences

Academic centre: CSIR-CIMAP, Bengaluru



*Awarded as Fellow of National Academy of Sciences, India (FNASc)-2021 for his contribution in plant Science. For his immense contribution in the area of plant molecular biology and biotechnology and specialized metabolites, which are essential for plants defence and interaction with the environment. He has unravelled biosynthetic pathways and regulatory aspect of important plant specialized metabolites using genomics, transcriptomics, metabolomics, and utilized the knowledge for enhancing the production of metabolites through metabolic engineering.*

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### **Dr. Debojyoti Chakraborty**

Senior Scientist, Assistant Professor, AcSIR

Biological Sciences

Academic centre: CSIR-IGIB



*Merck Young Scientist Award 2021, Merck Pvt Ltd and EMBO Young Investigator Award, EMBO, Germany.*

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### **Dr. Abhishek Saha**

Senior Scientist, Assistant Professor, AcSIR

Physical Sciences

Academic centre: CSIR-NIO



*Has been selected for the Dr. Shrichandra Srivastava, Gold Medal award-2021 for excellence in Geochemistry. This award is instituted by Gondwana Geological Society (GGS), Nagpur. The award was conferred on 1 December 2021, at Nagpur.*

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### **Dr Ramakrishnan Parthasarathi**

Principal Scientist, Associate professor, AcSIR

Biological Sciences

Academic centre: CSIR-IITR



*As inducted as Fellow of the International Society for Energy, Environment and Sustainability. He has elected as the Fellow of the Society in the class of 2022, based on the outstanding scientific contributions in the field of bioengineering and toxic informatics. Dr Partha received this honour in the VI ISEES International Conference on "Sustainable Energy and Environmental Challenges" (VI SEEC) held on 27th – 29th December 2021.*

### Prof. Siddhasatwa Basu

Director, CSIR-IMMT and Outstanding Professor, AcSIR

Academic centre: CSIR-IMMT

*Has been awarded with Eminent Engineer in Chemical Engineering.*



### Dr. Bikash Ku. Jena

Principal Scientist

& Associate Professor, AcSIR

Academic centre: CSIR-IMMT

*For receiving CRSI Bronze Medal Award 2021 and for becoming Editorial Board Member (Subject Editor) of Indian Journal of Chemistry.*



### Dr. Nabin Ku. Dhal

Chief Scientist & Head E&S Dept.

CSIR-IMMT, and Professor, AcSIR,

Academic centre: CSIR-IMMT

*For receiving NES Award 2021.*



### Dr. Namrata Rastogi

Principal Scientist & Associate Professor, AcSIR

Division Of Medicinal and Process Chemistry

Academic centre: CSIR-CDRI



*Bronze Medal-2022 by Chemical Research Society of India (CRSI)*

*Delivered talks in Asian JOC 10th Anniversary Virtual Symposium*

### Dr. Mrigank Srivastava

Principal Scientist & Associate Professor, AcSIR

Division Of Molecular Microbiology and Immunology

Academic centre: CSIR-CDRI

*SERB- Science and Technology Award for Research (SERB-STAR) by Science and Engineering Research Board (SERB) of the Department of Science & Technology (DST), Government of India*



### Dr. Niti Kumar

Senior Scientist & Assistant Professor, AcSIR

Academic centre: CSIR-CDRI

Division Of Molecular Microbiology and Immunology

*Swarna Jayanti Fellowship 2020-21 by DST, Ministry of Science & Technology, Government of India*



### Dr. Saman Habib

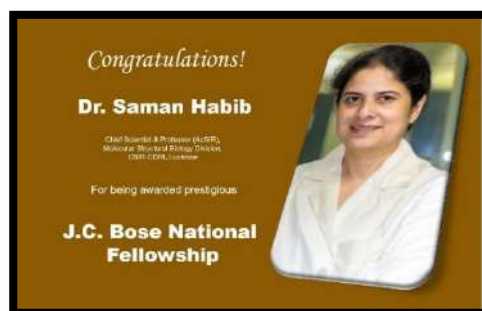
Chief Scientist & Professor, AcSIR

Dean Biological Sciences, AcSIR

Division Of Biochemistry and Structural Biology

Academic centre: CSIR-CDRI

*J. C. Bose National Fellowship*



### Dr. Sanjay Batra

Chief Scientist & Professor, AcSIR

Division Of Medicinal and Process Chemistry

Academic centre: CSIR-CDRI

*Member of ChemMedChem International Advisory Board 2021*



### Dr. Giridhar P

Sr. Principal Scientist, Professor & Coordinator, AcSIR

Plant Cell Biotechnology

Academic centre: CSIR-CFTRI



*Won the Prof. V. Puri Commemorative Medal honoured by Indian Botanical Society on 18 October 2021 during IBS conference held at Jodhpur.*

### Dr Ashok Kumar

Outstanding Scientist & Professor, AcSIR

Academic centre: CSIR-CBRI



*Dr Ashok Kumar has been promoted as a Scientist "H" (Outstanding Scientist) in CSIR-CBRI, Roorkee i.e., 06-oct-2021. His research area is "Energy efficient buildings technologies".*

*Dr Ashok Kumar along with Dr Santha Kumar and Mr Gurram visited AAC blocks making Factory in Ghaziabad. Tata Steel has identified this factory to use the proposed mixes using GGBFS and other wastes, process etc. Recommended by CSIR-CBRI, Roorkee under an industry sponsored research project and take the technology to the market, having better properties and quality.*



*Meeting with DRDO Additional Director regarding passive storage of vegetables in Ladakh. DRDO has requested CSIR-CBRI to carry out Thermal Analysis of different types of structure suiting to Ladakh climate as a research project. The following attended from CBRI: Dr Ashok Kumar, Dr Kishore Kulkarni, Dr Chanchal Sonkar and Dr Tabish Alam.*

*Original Research paper on Design aids for supplementary Lighting Design in India, published in the journal of The Institution of Engineers (India): Series A, Vol. 101, Issue 4 has been selected for the Best Paper Award under Architectural Engineering Division of The Institution of Engineers (India) for the year Dec, 2021. The published research work is a part of the Indo- US Project, The Authors are: Dr Ashok Kumar, Dr Kishore Kulkarni (only AcSIR faculty mentioned)*

**Dr. Suraj Soman**

Scientist,

Chemical Sciences and Technology Division,

CSIR-NIIST, Thiruvananthapuram

Assistant Professor, Chemical Sciences

Academic centre: CSIR-NIIST



*Received the ICT-Foundation Day Young Scientist Award 2021 given by the Hon'ble Governor of the State of Maharashtra, Shri Bhagat Singh Koshyari on October 1, 2021.*



NIIST team (Dr. Vijayakumar C., Dr. Jubi John, Dr. Sreejith Shankar P., Dr. Praveen V. K., Dr. Saju Pillai, Dr. V. Karunakaran and Dr. A. Ajayaghosh) received 'CSIR Technology Award 2021' (Certificate of Merit) under the category of 'Physical Science including Engineering' for the development of 'Fluorescent Materials for Security Printing and anti-counterfeiting applications'. Virtually received the award from the Hon'ble Vice President of India, Shri. M. Venkaiah Naidu.



**Dr. A. Ajayaghosh**

Director, CSIR-NIIST

Outstanding Scientist, Chemical Sciences and Technology Division,

Academic centre: CSIR-NIIST

Outstanding Professor, AcSIR, Chemical Sciences

**Dr. Vijayakumar C**

Principal Scientist, Chemical Sciences and Technology Division,

Associate Professor, AcSIR

Academic centre: CSIR-NIIST

**Dr. Jubi John**

Senior Scientist, Chemical Sciences and Technology Division,

Assistant Professor, AcSIR

Academic centre: CSIR-NIIST

**Dr. Sreejith Shankar P**

Senior Scientist, Chemical Sciences and Technology Division,

Assistant Professor, AcSIR

Academic centre: CSIR-NIIST

**Dr. Praveen V. K**

Senior Scientist, Chemical Sciences and Technology Division,

Assistant Professor, AcSIR

Academic centre: CSIR-NIIST

**Dr. Saju Pillai**

Principal Scientist, Materials Science and Technology Division,

Associate Professor, AcSIR

Academic centre: CSIR-NIIST

**Dr. V. Karunakaran**

Principal Scientist, Chemical Sciences and Technology Division,

Associate Professor, AcSIR

Academic centre: CSIR-NIIST



*NIIST Team won the CSIR-RURAL TECHNOLOGY AWARD-2020 for the development of "UTILIZATION OF VARIOUS AGRO RESIDUES FOR BIODEGRADABLE PRODUCTS AS AN ALTERNATIVE TO SINGLE-USE PLASTICS". They received the award virtually from the Hon'ble Vice President of India, Shri. M. Venkaiah Naidu at CSIR 80<sup>th</sup> foundation day, New Delhi.*

**Dr. A. Ajayaghosh**

Director, CSIR-NIIST

Outstanding Scientist, Chemical Sciences and Technology Division,

Academic centre: CSIR-NIIST

Outstanding Professor, AcSIR, Chemical Sciences

*Honoured with the coveted Goyal Prize for the year 2020 instituted by the Kurukshetra University for his Research contribution in Chemical Sciences.*



**Dr. Achu Chandran,**

Scientist, CSIR-NIIST

Assistant Professor, AcSIR

**Academic Centre: CSIR-NIIST**

*Has been selected for the “CSIR Young Scientist Award” for the year 2021 in the field of “Engineering Sciences” Also, selected for the ISEES Young Scientist Award 2022 by International Society for Energy Environment and Sustainability*



**Dr. S. Venkata Mohan**

Sr. Principal Scientist

Academic Centre: CSIR-IICT,

Energy & Environmental Engineering

*He was awarded with Dr. C.V. Raman Memorial Award-2020 In Science Popularization & Communications by Science City of Andhra Pradesh at Science city Andhra Pradesh, Vijayawada, A.P.*



**Dr. S. Sridhar**

Chief Scientist

Engineering Sciences

Process Engineering & Technology Transfer

Academic Centre: CSIR-IICT,

*First position in “India’s Premier Chemistry & Chemical Article Writing Composition” conducted by Centre of Chemistry & Chemical Excellence, for the manuscript titled “Treatment of Textile Industrial Wastewater using Hydrophilized Polyamide Nanofiltration.”*



**Dr. Nivedita Sahu**

Principal Scientist

Academic Centre: CSIR-IICT, Biological Sciences

Process Engineering & Technology Transfer

Academic Centre: CSIR-IICT,

*First position in “India’s Premier Chemistry & Chemical Article Writing Composition” conducted by Centre of Chemistry & Chemical Excellence, for the manuscript titled “Treatment of Textile Industrial Wastewater using Hydrophilized Polyamide Nanofiltration.”*



**Dr. Srivari Chandrasekhar, Director,**

**Dr. D. Shailaja, Chief Scientist,**

**Dr. S. Sridhar, Sr. Principal Scientist**

Academic Centre: CSIR-IICT,

*For having declared winner of the 8th CSR India Award 2021 by Greentech Foundation. The plaque and a certificate were given to CSIR-IICT on 26th November at Mahabalipuram, Tamil Nadu for the outstanding achievements in promotion of healthcare through successfully executing first CSR project on Face Masks "SAANS" developed by Dr. S. Sridhar and team.*



**Dr. Srivari Chandrasekhar**

Director, CSIR-IICT

**Dr. Prathama S Mainkar**

Sr. Principal Scientist



**Dr. Ch. Raji Reddy**

Sr. Principal Scientist, Organic Synthesis & Process Chemistry

**Dr. Mohana Krishna Reddy Mudiam**

Sr. Principal Scientist, Analytical & Structural Chemistry



**Dr. P. Nagender**

Scientist, Fluoro-Agrochemicals

**Dr. N. Jagadeesh Babu**

Sr. Scientist, Analytical & Structural Chemistry  
Academic Centre: CSIR-IICT,



*The plaque and a certificate were given to CSIR-IICT on 26th September at New Delhi for having CSIR innovative technology award 2021 on 80th CSIR foundation day.*

**Dr. D. C. Sau**

Principal Scientist

Associate Professor, AcSIR

Academic Centre: CSIR-NML



*Expert lecture was delivered on 17.12.21. Title was " Treatment of Iron ore fines" at Chemical Engineering Department, L. D. College of Engineering, Ahmedabad*

**Dr. Sanjay Agarwal**

Principal Scientist, Associate Professor

Academic Centre: CSIR-NML



*Best Oral presentation in Non-Ferrous" on Studies on Production of ferromoly alloy from spent catalyst residues at IIM-ATM 2021*

*Winner in Oral presentation on "Chromium Partitioning studies on Production of low carbon ferrochrome alloy from Sukinda Chromite Ore Fines" under the "Ferrous Process Metallurgy" at IIM-ATM 2021*

**Dr. Pallab Bhattacharya**

Senior Scientist, Assistant Professor

Academic Centre: CSIR-NML



- *Winner in Metallography session of "Scanning Electron Microscopy" titled "Aqua Anemone" in the Indian Institute of Metals*
- *First prize in poster entitled " Phosphorus doped Ti3C2 Mxene for supercapacitors" at ICES 2021 at Mahatma Gandhi University, Kottayam*
- *Chaired session at ICES 2021 at Mahatma Gandhi University, Kottayam*
- *Paper presentation at ICES 2021 at Mahatma Gandhi University, Kottayam.*



**Dr. Vidhu A Sane**

Senior Principal Scientist,  
Professor and Coordinator, AcSIR  
Academic Centre: CSIR-NBRI

*Invited as a Speaker in the "Convocation week of Dr. Rammanohar Lohia Avadh University, Ayodhya" celebrating its 25th Convocation on 20th December, 2021.*



**Dr. Debasis CHAKRABARTY (Biological Science)**

Senior Principal Scientist & Professor (AcSIR)  
Molecular Biology & Biotechnology Div.  
Academic Centre: CSIR-NBRI

*Get featured in the List of World's Top 2% scientist database 2021 and 2022 released by Elsevier BV based on study conducted by Stanford University.*

*Elected Fellow of West Bengal Academy of Science and Technology (WAST)*



**Dr. Syed Dastager**

Associate Professor AcSIR, Biological Sciences,  
Principal Scientist, NCIM Resource Centre  
Academic Centre: CSIR-NCL



*Invited to join the Editorial Board of Microbiotechnology, a section within Frontiers in Microbiology, Frontiers in Bioengineering and Biotechnology and Frontiers in Environmental Science as an Associate Editor on Dec 2, 2021.*

**Dr. Nandanwar Sachin Uttamrao**

Assistant Professor, AcSIR, Chemical Sciences  
Senior Scientist  
Academic Centre: CSIR-NCL

*Elected as a Young Associate of the Maharashtra Academy of Sciences on Nov 22, 2021.*



**Dr. C. S. Gopinath**

Professor, AcSIR

Chief Scientist

Chair, Catalysis and Inorganic chemistry division

Academic Centre: CSIR-NCL



*Invited to be the Editorial Board Member of the Indian Journal of Chemistry (IJC) published monthly by CSIR-National Institute of Science Communication and Policy Research (NIScPR), New Delhi on Nov 22, 2021*

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**Dr. Sakya Singha Sen**

Assistant Professor, AcSIR

Chemical Sciences

Catalysis and Inorganic Chemistry Division

Academic Centre: CSIR-NCL



*Selected to receive the prestigious Swarna Jayanti Fellowship on Nov 9, 2021*

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**Dr. Kumar Vanka**

Assistant Professor, AcSIR

Scientist

Chemical Sciences

Academic Centre: CSIR-NCL



*Dr. A. P. J. Abdul Kalam HPC Award 2021 on Oct 25, 2021.*

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**Dr. Amol Kulkarni**

Assistant Professor, AcSIR

Senior Scientist

Academic Centre: CSIR-NCL



*A Fellow of the Indian National Academy of Engineering (INAE), New Delhi on Oct 12, 2021*

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**Dr. Pooja**

Principal Scientist

Associate Professor, AcSIR

Materials Science and Sensor Application

Academic Centre: CSIR-NCL



- *NASI Young Scientist Platinum Jubilee Award (2021)*
- *IEI Young Engineer Award (2021)*



**Dr. Abhishek Saha** selected as INYAS member

Dr. Abhishek Saha, Senior Scientist at the Geological Oceanography Division, CSIR-NIO, Goa, has been selected as a member (2022-2026) of Indian National Young Academy of Sciences (INYAS) which is the only recognized young scientist academy of India founded by INSA council.

Dr. Saha has been selected to the INYAS for his outstanding track record as a successful scientist and commitment to applying science for the benefit of society.

INYAS has been very active specifically to pursue promotion of science amongst the various strata of the society through science camps, remote area lectures, conferences and other forms of outreach. INYAS is a platform that enables young scientists to interact and work towards spreading the enthusiasm about science among school children, college students and the general public. INYAS is recognized as the voice of young scientists of India by the Global Young Academy, and actively participates in various international events that invite participation by young scientists INYAS hopes to work towards building a generation of Indians who practice science as a way of life.

## CSIR Technology Awards 2021



## Life Sciences:

**AcSIR Faculty:** Souvik Maiti, Debojyoti Chakraborty

**AcSIR Student:** Mohd. Azhar, Rhythm Phutela Manoj Kumar, Asgar Hussain Ansari, Rya Rauthan, Sneha Gulati.

CSIR-Institute of Genomics and Integrative Biology (IGIB), Delhi

For developing FnCas9 Linked Uniform Detection Assay (FELUDA), a rapid, robust, and inexpensive CRISPR-Cas based diagnostic tool that provides a visual readout on a dipstick for the detection of monogenic and infectious diseases CoV2 and its variants.

**AcSIR Faculty:** Probir Kumar Pal, Sanatsujat Singh, Mohit Sharma, Ashok Yadav, Rakesh Kumar and Ram Kumar Sharma

CSIR-Institute of Himalayan Bioresource Technology (IHBT), Palampur

For developing rebaudioside-A rich cultivar of 'Him stevia', advanced agro-technology with 28% yield improvement, and green process technology for converting dry leaf into stevia glycosides powder with a purity of more than 95%.

**AcSIR Faculty:** Rakesh K Mishra, Santosh K. Kuncha, Divya Singh

CSIR-Centre for cellular and Molecular Biology (CCMB), Hyderabad

For developing a Dry Swab based Direct RT-PCR Method for COVID-19 Diagnostics.

## Engineering:

**AcSIR Faculty:** Sadhana Rayalu, Penumaka Nagababu,

**AcSIR Student:** Er. Shilpa Kumari, Rakesh Kumar

CSIR-National Environment Engineering Research Institute (NEERI), Nagpur

For developing Green firecrackers which are environmentally benign by design with reduced chemical and environmental footprint.

**AcSIR Faculty:** Vijayakumar C., Jubi John, Sreejith Shankar P., Praveen V. K., Saju Pillai, Karunakaran V. and A. Ajaya Ghosh.

CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram

For developing fluorescent molecules and ink as security markers for the protection of Indian currency and prevention of counterfeit activities.

## Innovation:

**AcSIR Faculty:** S Chandrasekhar, Ch. Raji Reddy, Prathama S. Mainkar, M. Mohana Krishna Reddy, N. Jagadeesh Babu, Punna Nagender

CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad

For developing a cost-effective and scalable process for the synthesis of TLR 7/8 agonist molecule (IMDG), used as an adjuvant in COVAXIN® (COVID-19 vaccine).

**AcSIR Faculty:** Anil K Sinha, C V Pramod and Anand Narani

CSIR-Indian Institute of Petroleum (IIP), Dehradun

For developing a single-step process to make Sustainable Aviation Fuel (SAF) from non-edible and used cooking oil.

<p><b>AcSIR Faculty:</b> Sandip B. Bharate, Ajay Kumar, Deepika Singh</p> <p><i>CSIR-Indian Institute of Integrative Medicine (IIIM), Jammu</i>  For significant work in discovering preclinical development and out-licensing the Saffron-based nutraceutical product/dietary supplement. The product is aimed at people who are at higher risk of developing Alzheimer's disease, including patients with early onset of disease.</p>
<p><b>AcSIR Faculty:</b> A. Gangagni Rao, N.V. Satyanarayana, Y.V. Swamy, Bharath Gandu, Kranti Kuruti.  <b>AcSIR Student:</b> Arelli Vijayalakshmi, Sudharshan Juntupally</p> <p><i>CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad</i>  For developing a novel high rate biomethanation technology based on Anaerobic Gas lift Reactor (AGR), for the generation of biogas and biomanure from organic wastes.</p>
<p><b>Business Development &amp; Marketing:</b></p> <p><b>AcSIR Faculty:</b> S.K. Pal, Amitava Mitra, Beena Kumari, Mita Tarafder, and G.V.S. Murthy</p> <p><i>CSIR-National Metallurgical Laboratory (NML), Jamshedpur</i>  For introducing technology partnership and collaborative business models with Indian Industries, Foreign Clients and Multinationals. Appropriate business strategy has been adopted for technology development, licensing of knowledgebase, utilisation of infrastructural resources by the industries which led to a sustainable, cumulative growth of External Cash Flow and its positioning.</p>
<p><b>AcSIR Faculty:</b> Pradeep Kumar Singh, Aditya Rana, R.D. Dwivedi, C. Sawmliana, Dr. Murari Prasad Roy &amp; More Ramulu</p> <p><i>CSIR-Central Institute of Mining and Fuel Research (CIMFR), Dhanbad</i>  For significant contributions in development of strategic and civil infrastructure sectors. Its technologies has helped in faster and cost effective constructions of roads in border areas; railways, tunnels and highways; crude oil storage and disposal of nuclear waste in underground space and constructions of metros in sensitive areas.</p>

## CSIR Young Scientist Award 2021

Biological Sciences
Dr. Divya Tej Sowpati, <i>Scientist, CSIR-CCMB, Hyderabad</i>
Dr. Rakesh Shamsunder Joshi, <i>Scientist, CSIR-NCL, Pune, Assistant Professor, AcSIR</i>
Chemical Sciences
Dr. Amit Ashok Vernekar, <i>Scientist, CSIR-CLRI, Chennai, Assistant Professor, AcSIR</i>
Dr. K. Giribabu, <i>Scientist, CSIR-CECRI, Karaikudi, Assistant Professor, AcSIR</i>
Earth, Atmosphere, Ocean & Planetary Sciences
Dr. Shilpi Kushwaha, <i>Scientist, CSIR-CSMCRI, Bhavnagar</i>
Engineering Sciences
Dr. Achu Chandran, <i>Scientist, CSIR-NIIST, Thiruvananthapuram, Assistant Professor, AcSIR, (AcSIR Alumni),</i>
Dr. Bhavya B. Krishna, <i>Senior Scientist, CSIR-IIP, Dehradun, Assistant Professor, AcSIR (AcSIR Alumni)</i>

## Students' Achievements

### Priya Tiwari

AcSIR Enrollment no. 10BB18J04018

Academic centre: CSIR-CDRI

Supervisor- Dr. Kashif Hanif

*won the Best Poster award under the young scientist award category in the international e-conference of Indian Academy of Neurosciences (IAN) 2021.*



### Jhajan Lal

AcSIR Enrollment no. 10CC18J04035

Academic centre: CSIR-CDRI

Supervisor- Dr. Damodara Reddy N,

*won the Best mini oral presentation award in MedChem-2021 conference held at Institute of Technology, Madras*



### Dr Hrishikesh A Tavanandi

AcSIR Enrollment no. 10BB14A08013,

Academic Centre: CSIR-CFTRI,

Supervisor - KSMS Raghava Rao

*Won the INSA Medal and Young Scientist award 2021.*



### Trinadha Vasanasetti Rao

AcSIR Enrollment no.10PP19A29003

Academic centre: CSIR-NIO,

Supervisor-Dr. Suneel Vasimalla,

*won the first prize in physical sciences in Saransh thesis presentation in 3 minutes at National Level Science Communication Competition for Ph.D. Scholars organized by Indian National Young Academy of Sciences (INVAS) sponsored by Anton Paar India Pvt. Ltd*



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### Dr. Purna Kanta Baruah

AcSIR Enrollment no. 10CC15J38004,

Academic Centre: CSIR-NEIST, Chemical Sciences

Supervisor Dr. Manash R Das, Principal Scientist,

*has received the prestigious Japan Society for the promotion of Science (JSPS) postdoctoral Fellowship on 17-12-2021. He completed his Ph.D. in Chemical Sciences in June, 2020 from AcSIR (CSIR-NEIST)*



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### Arya Das

AcSIR Enrollment no.10PP18A36005

Physical Sciences

Academic Centre: CSIR-IMMT,

Supervisor- Prof. Suddhasatwa Basu,

Co-Supervisor- Dr. (Ms.) Mamata Mohapatra, CSIR-IMMT

*Selected for SERB-OVDF program.*



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### Yamini Mittal

AcSIR Enrollment no.20EE17A36010,

Academic Centre: CSIR-IMMT,

Supervisor- Dr. Asheesh kumar Yadav,

*has been selected for IGSTC Industrial Fellowship program.*



**Sajja. S. Chandrasekhar**

AcSIR Enrollment no.10BB18A18062

Academic Centre: CSIR-IICT,

Supervisor: Dr. S. Sridhar



*Won 1<sup>st</sup> prize in India's Premier Chemistry & Chemical Article Writing Competition-2021, conducted by Centre of Chemistry & Chemical Excellence for the article entitled "Treatment of Textile Wastewater using Hydrophilized Polyamide Nanofiltration"*

**Anurag Raj**

Enrollment No. 10BB16A02005

Academic Centre: CSIR-IGIB,

Supervisor: Dr. Debasis Dash



*An oral presentation in an online Conference "13th Annual Meeting of Proteomics Society, India & International Virtual Symposium on OMICS in Redefining Modern Biology" conducted by Proteomic Society of India in Oct 2021 and have won the best presentation award.*

**Chaphalkar Aseem Amol**

AcSIR Enrollment :10BB19A02003

Academic Centre: CSIR-IGIB,

Supervisor: Dr. Kausik Chakraborty



*Received this year's Sharad Pawar Literary Fellowship in 'Science Literature'. Out of total 887 applications received by the selection committee from all over Maharashtra, 10 candidates have received this fellowship, which consists of Rs. 50,000 in multiple instalments over the period of a year.*

## Ekansh Agarwal

AcSIR Enrollment no. 20EE18A01003

Academic Centre: CSIR-CBRI,

Supervisor: Dr. Anindya Pain, Co-supervisor: Dr. Shantanu Sarkar



*Awarded the SERB – Overseas Visiting Doctoral Fellowship (OVDF) 2021 to visit Purdue University, USA for a period of one year starting January 2022. The fellowship is sponsored by the Science and Engineering Research Board, Department of Science and Technology, Government of India.*

*Won the Third prize in physical sciences in Saransh thesis presentation in 3 minutes at National Level Science Communication Competition for Ph.D. Scholars organized by Indian National Young Academy of Sciences (IN-YAS) sponsored by Anton Paar India Pvt. Ltd*

*Awarded the AcSIR-RMIT joint PhD fellowship to pursue joint PhD degree from RMIT University Australia.*

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## Nikhil Bhaskar Lothe

AcSIR Enrollment no. 10BB20A10015

Academic centre: CSIR-CIMAP,

Supervisor: Dr. Rajesh kumar verma,



*Won the 2<sup>nd</sup> prize in 5th International conference on Innovative Approaches in Applied Sciences and Technologies held on 3-5th December 2021*

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## Alka Kurmi

AcSIR Enrollment no. 10BB18J10010

Biological Sciences

Academic centre: CSIR-CIMAP,

Supervisor: Dr. Dharmendra Saikia



*Won the 2<sup>nd</sup> prize in 5th International conference on Innovative Approaches in Applied Sciences and Technologies held on 3-5th December 2021*

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## Diya Mukherjee

AcSIR Enrollment no. 20EE20J12016

Supervisor: Dr. Manidipto Mukherjee

Academic centre: CSIR-CMERI,



*Won the special presentation award at 35th National Convention of Product Engineers and National Conference, paper titled "Effects of Trialuminide Dispersoid Distributions on the Microstructure of New Al-Zn-Mg-Cu alloy" in theme Emerging Technologies for Sustainable Manufacturing October 30-31, 2021*

## Riya Saini

AcSIR Enrollment No.: 50BB21A08003

Krishna Kumar Upadhyay

AcSIR Enrollment No.: 50BB21A08008

Valcea Pearl D Cunha

Enrollment No.: 50BB21A08013

Academic centre: CSIR-CFTRI,



*Awarded the "Kerry Scholarship" based on highest marks scored by them in M.Sc. Food Technology 2021-23 Batch entrance examination and the function was conducted on Dec 16, 2021.*

## Monika Patel

AcSIR Enrollment no. 10BB16A16009

Supervisor: Dr. Asish Parida

Academic centre: CSIR-CSMCRI,



*Has won the Best rapid presentation & Poster award for the paper entitled "salinity influences cross tolerance of arsenic in the facultative halophyte Salvadora persica L. through metabolic shifts and photosynthetic regulation" in the International Conference of Biotechnology for Resource Efficiency Energy Environment, Chemicals and Health jointly organised by CSIR-IIP and Biotech Research Society, India, at Dehradun, India during December 01-04, 2021.*

### Vikrant Yadav

AcSIR Enrollment no. 10CC16A16002

Supervisor: Dr. Vaibahv Kulshreshtha

Academic centre: CSIR-CSMCRI,

*Won the JSPS fellowship at University of Yamanashi Anion,*

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### Riya Ghosh

AcSIR Enrollment no. 10CC20A16009

Supervisor: Dr. Pabitra Chatterjee

Academic centre: CSIR-CSMCRI,

*Won the Best poster award, Organized by Indian Chemical Society, from the international conference on Recent Trends in Chemical Science*

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### Sunil Luhar

AcSIR Enrollment no. 10CC19A16005

Supervisor: Dr. Divesh Srivastava

Academic Centre: CSIR-CSMCRI

*Won the second price in HDR Creative competition, Tilted Electrochemical Biosensors: Attachment facilitated through self-assembly monolayer on gold coated polymer composite electrode.*

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### Snehasish Debnath

AcSIR Enrollment no. 10CC18A16010

Supervisor: Dr. Pabitra Chatterjee

Academic Centre: CSIR-CSMCRI

*Won the Best poster award in The International conference on Molecules to Materials (Organized by SVNIT, December 2021).*

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## V. Rajagopal

AcSIR Enrollment no. 10CC18A05007 Chemical Sciences

Supervisor: Dr. V. Suryanarayanan, Principal Scientist

Academic centre: CSIR-CECRI



*Has been offered for AcSIR-RMIT Australia Joint (Cotutelle Ph.D.) –program 2021 in the Department of Applied Chemistry and Environmental Science, School of science (STEM College), RMIT, University, Australia under the guidance of Prof. Lathe Jones from 1st Sept. 2021 to 31st August 2023.*

## Shyam Sunder Prasad

AcSIR Enrollment no.30EE15A06003,

## Naval Kishore Mehta

AcSIR Enrollment no 32EE18A06009

## Sumeet Saurav

AcSIR Enrollment no. 32EE14A06008

Academic centre: CSIR-CEERI

*Face Recognition-based attendance system (FRAS) have been installed in more than 10 CSIR institutes including CSIR Headquarter, CSIR HRDC Ghaziabad and other institutes are in pipeline.*



At CSIR-CEERI, Pilani



At HRDC, Ghaziabad



**Shyam Sunder Prasad**

AcSIR Enrollment no.  
30EE15A06003

Supervisor: Dr. Sanjay Singh



**Naval Kishore Mehta**

AcSIR Enrollment no.  
32EE18A06009

Supervisor: Dr. Ravi Saini

**Seema Choudhary**

AcSIR Enrollment no.  
20EE21J06014

Supervisor: Dr. Ravi Saini



**Pratibha Sharma**

AcSIR Enrollment no. 20EE18A06003

Supervisor: Dr. Sanjay Singh

**Sumeet Saurav**

AcSIR Enrollment no. 32EE14A06008

Supervisor: Dr. Sanjay Singh

Academic centre: CSIR-CEERI

*Won the 3rd Position in Engineering Science Festival (Edutech) at 7th India International Science Festival (IISF-2021) in Panaji, Goa (11th-12th Dec 2021)*

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**Shyam Sunder Prasad**

AcSIR Enrollment no. 30EE15A06003

**Naval Kishore Mehta**

AcSIR Enrollment no. 32EE18A06009

**Sumeet Saurav**

AcSIR Enrollment no. 32EE14A06008

Academic centre: CSIR-CEERI



*Won the **Padma Bhushan Dr. Amarjit Singh Memorial Excellence award** in the category of Best Technological Solution for developing the **Face Recognition-based attendance system (FRAS)** at CSIR-CEERI, Pilani.*

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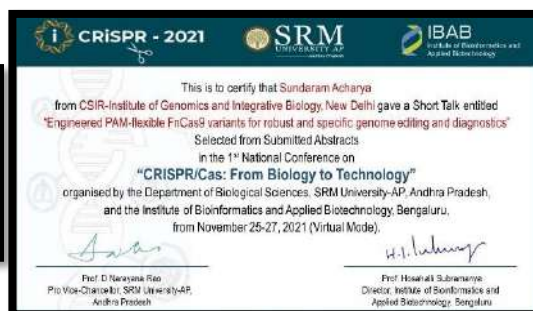
**Sundaram Acharya**

AcSIR Enrollment : 10BB19J02002

Supervisor: Dr. Debojyoti Chakraborty

Co-Supervisor: Dr. Souvik Maiti

Academic centre: CSIR-IGIB



*Topic selected and received the cash prize titled "Engineered PAM-flexible FnCas9 variants for robust and specific genome editing and diagnostics" in the 1<sup>st</sup> National conference on "CRISPR/Cas: From Biology to Technology" organised by the Department of Biological Sciences, SRM University- Andhra Pradesh and Institute of Bioinformatics and Applied Biotechnology, Bengaluru, from November 25-27, 2021 (virtual mode). Got the prestigious "Keystone Symposia Future of Science Fund Scholarship" for attending a Keystone meeting on "Precision Genome Engineering" in Canada from 13-17th February 2022.*

**Anirban Sardar**

AcSIR Enrollment no. 10BB19J04001

Supervisor: Dr. Ritu Trivedi

Academic centre: CSIR-CDRI

*Certificate of appreciation for Securing 3rd Prize in the "E-Poster Session 2" ISBMR 2021, Hyderabad*



**Kriti Sharma**

AcSIR Enrollment no. 10BB18J04012

Supervisor: Dr. Divya Singh

Academic Centre: CSIR-CDRI

*Has got "Young Investigator Award" in 'IOF Regional Asia Pacific Osteoporosis Conference 2021' being held in Bangkok, Thailand along with 1000USD Cash prize. Abstract will be published in a supplement of 'Osteoporosis International Journal'*



**Young Investigator Award**



Kriti Sharma (DST-SRF), Student of Dr. Divya Singh has got "Young Investigator Award" in 'IOF Regional Asia Pacific Osteoporosis Conference 2021' being held in Bangkok, Thailand along with 1000USD Cash prize.

Abstract will be published in a supplement of 'Osteoporosis International Journal'.



**Mohit Kumar**

AcSIR Enrollment no. 10CC17A04027

Supervisor: Dr. Dipankar Koley

Academic Centre: CSIR-CDRI

*Incentive Awards for Excellence in Research Publications 2021 Dr. JM Khanna Memorial Early Career Achievement Award 2021*



**Dr. Hemant Bherwani**

AcSIR Enrolment No. 20EE18J27003

Supervisor: Dr. Rakesh Kumar

Academic Centre: CSIR-NEERI

*Young scientist award 2021 by International Society for Energy, Environment and Sustainability (ISEES) on 28th December 2021 for my contributions in the field of urban microclimate, environmental damages cost assessment and environmental economics.*



**Abhishek Khapre**

AcSIR Enrolment No. 20EE17A27006

Academic Centre: CSIR-NEERI

Supervisor: Dr. Sunil Kumar

*Received third prize for poster presentation in 7<sup>th</sup> India International Science Festival at Panaji, Goa.*



**Poonam Kumari**

AcSIR Enrolment No. 10CC18A27032

Chemical Sciences

Supervisor: Dr. Noor A Khan

Academic Centre: CSIR-NEERI

*Delegate and presented a research paper on Suitability of treated wastewater as a substitute for irrigation on agricultural land – A sustainable approach in Virtual National Conference on Emerging Trends to Heal the Earth and Environment (ETHEE)*



**Varun Shukla**

AcSIR Enrolment No. 10CC21J27002

Supervisor: Dr. Sukdeb Pal

Academic Centre: CSIR-NEERI

*Participated in national webinar series in Faunal Diversity of India organized by Zoological Survey of India, northern regional centre, Dehradun.*



**Vivek Ojha**

AcSIR Enrolment No. 10BB17A27017

Biological Sciences

Supervisor: Dr. Sunil Kumar

Academic Centre: CSIR-NEERI

*Expert talk on "Utilization of inert fraction recovered from legacy waste sites for gainful applications: key considerations" - Centre for Science and Environment, New Delhi*



**Sakshi Shambhavi**

AcSIR Enrolment no. 10BB18A03011

Supervisor: Dr. Rajan Sankaranarayanan

Academic Centre: CSIR-CCMB



*For the best poster award at the 48th National Seminar on Crystallography from 25th-27th Nov, 2021,*

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**Amol Bisen**

AcSIR Enrollment no. 10CC20A04053

Biological Sciences

Supervisor: Dr. Rabi Sankar Bhatta

Academic Centre: CSIR-CDRI



*Best E-poster award in SSX 2021 virtual conference*

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**Anuradha Seth**

AcSIR Enrollment no. 10BB17A04005

Biological Sciences

Supervisor: Dr. Susanta Kar

Academic Centre: CSIR-CDRI



*Won the Felicitation prize for delivering lecture in 4th CSIR-CDRI Nobel Symposium 2021*

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**Sumit Kumar Rastogi**

AcSIR Enrollment no. 10CC18J04042

Supervisor: Dr. Ravindra Kumar

Academic Centre: CSIR-CDRI



*Won the Felicitation prize for delivering lecture in 4th CSIR-CDRI Nobel Symposium 2021*

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**Simmi Anjum**

AcSIR Enrollment no. 10BB18J04027

Supervisor: Dr. Shakil Ahmed

Academic Centre: CSIR-CDRI



*Won the Felicitation prize for delivering lecture in 4th CSIR-CDRI Nobel Symposium 2021*

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### Swetapadma Majhi

AcSIR Enrollment no. 10BB18J04028

Biological Sciences

Supervisor: Dr. Kalyan Mitra

Academic Centre: CSIR-CDRI



*Won the Felicitation prize for delivering lecture in 4th CSIR-CDRI Nobel Symposium 2021*

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### Olivia Dhara

AcSIR Enrollment No: 20EE21J18003

Academic Centre: CSIR-IICT, Engineering Sciences

Supervisor: Dr. Pradosh P Chakraborti,



*Center for Lipid Science & Technologies, As one of the top three winners in the ECOFEST Competition (Thematic Poster) in the subject "Climate change sustainability and lifestyle change" held during 20th November 2021 to 30th November 2021 as a part of India International Science Festival-2021.*

### Sulogna Chatterjee

AcSIR Enrollment No:  
10BB16A18072

Academic Centre: CSIR-IICT, Biological Sciences

Supervisor: Dr. S. Venkata Mohan,



*Center for Energy & Environmental Engineering*

*AU-CBT Excellence Award of the Biotech Research Society, India (BRSI) for the year 2020 in recognition of research work and achievement during doctoral studies. The Award was received by her during XVIII BRSI convention of the society, being organised as the International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemical and Health (BREEECH 2021) held at CSIR-Indian Institute of Petroleum, Dehradun during December 1-4, 2021.*

**M M V Subbarao**

AcSIR Enrollment no. 10CC19J18007

**Patil Amol Dnyande**

AcSIR Enrollment no. 10CC19A18025

**Enagandhula Damodar**

AcSIR Enrollment no. 10CC20A18028

Academic Centre: CSIR-IICT, Chemical Sciences

Supervisor: Dr. Ch. Raji Reddy

*Selected for the 78th Foundation Day Director's Special Prize-2021.*

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**Kolgave Dattahari Hanmanthrao**

AcSIR Enrollment no. 10CC17J18016

Academic Centre: CSIR-IICT, Chemical Sciences

Supervisor: Dr. Ch. Raji Reddy,

*Organic Synthesis & Process Chemistry*

*Selected for the 78th Foundation Day Vepachedu Gopalkishanrao Best SRF Award-2021.*

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**Shagufta Haque**

AcSIR Enrollment no. 10BB18A18072

Academic Centre: CSIR-IICT, Biological Sciences

Supervisor: Dr. Chittaranjan Patra,

Applied Biology



*Molecular Systems Design & Engineering (MSDE) poster prize for the poster titled " Silver Nanoparticle Fabric for Potential Antiviral Activity and In Vivo Wound Healing" at MSDE Symposium 2021: Frontie Engineering 17th – 18th June 2021*

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**K.V.R.N. Sri Divya**

AcSIR Enrollment no. 10CC20J18013

Academic Centre: CSIR-IICT

Supervisor Name: Dr. S. Venkata Mohan,



*DST-Women Scientist got Best rapid presentation and poster award in International conference on Biotechnology for resource efficiency, Energy, Environment, Chemicals and Health (BRE3CH 2021) at XVIII BRSI Convention and the International Conference BREECH-2021, CSIR-IIP, Dehradun during December 1-4 2021 held in online mode.*

**Mr. Ranaprathap Katakojwala,**

AcSIR Enrollment no. 10BB17A18050

Academic Centre: CSIR-IICT,

Supervisor Name: Dr. S. Venkata Mohan,



*UGC-SRF secured 1<sup>st</sup> place in oral presentation at International Conference On Biotechnology and Interdisciplinary Technologies (iCBIT'21) held during November 8-12, 2021 held in online mode.*

**Gaurav Kumar Bansal**

AcSIR Enrollment no. 32EE16A31003

Supervisor: Dr. Sandip Ghosh Chowdhury

Academic Centre: CSIR-NML

*B. R. Ninjawan Award 2021*



**Mr. Athmakuri Tharak**

AcSIR Enrollment no. 10BB21A18002

Academic Centre: CSIR-IICT, Biological Sciences

Supervisor Name: Dr. S. Venkata Mohan,

*PA-1 secured 1<sup>st</sup> place in oral presentation at International Conference On Biotechnology and Interdisciplinary Technologies (iCBIT'21) held during November 8-12, 2021 held in online mode.*



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**Dr. Omprakash Sarkar,**

Academic Centre: CSIR-IICT,

Selected for Young Scientist Award 2019 by Telangana Academy of Sciences (TAS) in the field of "Earth, Ocean, Atmospheric and Environmental Sciences" at NIN Hyderabad held on 20th November-2021.



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**Dr. Amulya Kotamraju**

Academic Centre: CSIR-IICT,

*Has been awarded the 'Dr. A.P.J. Abdul Kalam Best Ph.D. Thesis Award-2022' by the International Society for Energy, Environment and Sustainability (ISEES) at the VI International Conference on 'Sustainable Energy and Environmental Challenges' held at Lucknow during December 27-29, 2021*



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**E Zachariah Chacko**

AcSIR Enrollment no. 20EE14A31005

Dr. Sarmishtha Palit Sagar

Academic Centre: CSIR-NML

*Winner in "Ferrous Process Metallurgy" Poster Session at IIM-ATM 2021*



## Akhilesh Kumar Maurya

AcSIR Enrollment  
no.10BB21A25014

Academic Centre: CSIR-NBRI

Supervisor: Dr. Gaurav Kumar Mishra

*Seminar conducted by- Utkarsh school of management and technology, Seminar title- Recent developments in science and technology (RDST-21) National seminar, on 11/12/2021*



*Award - Best poster presentation award, Poster & Abstract title- Lichens a potential source for medicine.*

## Bidisha Das

AcSIR Enrollment no. 10BB18A17003

Academic Centre: CSIR-IICB

Supervisor: Dr. Krishnananda Chattopadhyay

*Runner up in Flash talk session by PhD students in Indian Academy of Neurosciences annual conference 2021.*



## Neha Balyan

AcSIR Enrollment no. 10BB18J33004

Academic Centre: CSIR-IHBT

Supervisor: Dr. Rakshak Kumar

*Best Poster Presentation Award in 6th International Annual conference of INSCR 2021 under "Microbes in Sustainable Development" on 23rd Nov 2021.*



*The title of poster was "Exploration of Conjugated Linoleic Acid (CLA) producing probiotics from traditional fermented food of North Western Himalayan region against Obesity".*

## Gargi Kundu

AcSIR Enrollment no. 10CC17A26014

Academic Centre: CSIR-NCL

Supervisor: Dr. Sakya Singha Sen

*Indian Chemical Society Research Excellence Award at the '58th Annual Convention of Chemists (ACC-2021) & International Conference on Recent Trends in Chemical Sciences (RTCS-2021)' organized by the Indian Chemical Society, Kolkata, held online during 21-24 December, 2021.*



## Ashakiran Maibam

AcSIR Enrollment no. 10CC18A26016

Academic Centre: CSIR-NCL

Supervisor: Dr. Sailaja Krishnamurthy

*Physical Chemistry Chemical Physics (PCCP) Poster Prize at 'the Theoretical Chemistry Symposium (TCS 2021)' held online during December 11-14, 2021 at IISER Kolkata.*

*Best poster presentation award at the 'DAE Symposium on Current Trends in Theoretical Chemistry (CTCC-2020)' organized by the Chemistry Division, Bhabha Atomic Research Centre, Mumbai held online during 23-25 September 2021.*



## Priyanka Kataria

AcSIR Enrollment no. 10CC16J26018

Academic Centre: CSIR-NCL

Supervisor: Dr. Ravindar Kontham

*D. S. Bhakuni Award for the Oral presentation at the '58th Annual Convention of Chemists (ACC-2021) & International Conference on Recent Trends in Chemical Sciences (RTCS-2021)' organized by the Indian Chemical Society, Kolkata.*



## Kavita Thakkar

AcSIR Enrollment no. 10PP18A26025

Academic Centre: CSIR-NCL

Supervisor: Dr. Kavita Joshi

*Physical Chemistry Chemical Physics (PCCP) Poster Prize at 'the Theoretical Chemistry Symposium (TCS 2021)' held online during December 11-14, 2021 at IISER Kolkata.*



### Sanjukta Pahar

AcSIR Enrollment no. 10CC16A26009

Academic Centre: CSIR-NCL

Supervisor: Dr. Sakya S. Sen

*Chemical Science Oral Presentation prize at the 'ChemSci 2021: Leaders in Field Symposium' organised by The Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, in association with the Chemical Science journal from December 13 to 15, 2021*



### Dr. Rahul A. Jagtap

AcSIR Enrollment no. 10CC15J26022

Academic Centre: CSIR-NCL

Supervisor: Dr. Benudhar Punji

*JSPS Postdoctoral Fellowship*



### Ms. Ashwini S. Rane

AcSIR Enrollment no. 10BB17A26054

Academic Centre: CSIR-NCL

Supervisor: Dr. Ashok Giri

*Best Oral Presenter for her work presented at the Two Days International (Online) Conference on "Insect and Plant Biology: 2021" held during October 7-8, 2021, organised by the Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.*



### Ravi Kumar

AcSIR Enrollment no. 10CC18A26018

Academic Centre: CSIR-NCL

Supervisor: Dr. Nayana Vaval

*Best poster presentation award at the 'DAE Symposium on Current Trends in Theoretical Chemistry (CTCC-2020)' organized by the Chemistry Division, Bhabha Atomic Research Centre, Mumbai held online during 23-25 September 2021.*



**Nitesh Kumar Das**

AcSIR Enrollment no. 32EE20A15008

Supervisor Dr Harry Garg

Academic Centre: CSIR-CSIO

*I got selected for Pre-incubation for the development of an enzyme-conjugated paper-based microfluidic device for the detection of waterborne pathogens in drinking water.*



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**Rajesh Manda**

Enrollment No. 10CC17A18021

Supervisor Name: Dr. M. Sridhar Reddy.

Academic Centre: CSIR – IICT

*Got the Best Thesis Award from  
NOST-SAILIFE conducted in January 2022.*



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**Garima Shukla,**

Enrollment No. 10PP19A29022,

Supervisor: Dr. Ashwini Kumar

Academic Centre: CSIR-NIO



*Won 1st Prize winning entry in GZA Global Essay Competition, 2022.*

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### Student list availing prestigious fellowship

Student's Name	Enrollment No.	CSIR Lab	Fellowship	Location and Period of visit
Jyoti Semwal	10BB18J08001	CSIR-CFTRI	Stipendium Hungaricum Programme	University of Debrecen, Hungary, 01.09.2021 to 28.02.2022. (6-10 months)
Meena Kumari	50BB17A08032	CSIR-CFTRI	DAAD Fellowship	Max Delbruck Centre for Molecular Medicine, Berlin (01.10.2021 to 30.09.2022)
Priyanshu Goel	30EE15A15001	CSIR-CSIO	Herz Fellow in Zukunft Kollege	University of Konstanz, Germany (03.02.2021 -04.02.2022)
Sawmya Sharma	10BB17A02027	CSIR-IGIB	Fulbright-Nehru Doctoral Research Fellowship Program 2021-22	Sanford Research, United States (06.10.2021 to 05.07.2022)
Indradev	10BB16A22004	CSIR-IITR	Cancer Research Training	Health Research Incorporated, New York (01.12.2021 to 31.05.2022 (6 months)
Saruchi Wadhwa	10BB20A02021	CSIR-IGIB	EMBO scientific exchange short term placement	University of Helsinki, Finland (01.12.2021 to 28.02.2022)
Arya Das	10PP18A36005	CSIR-IMMT	SERB-OVDF Fellowship	Purdue University, USA (from January 2022 for 1 year)
Ekansh Agarwal	20EE18A01003	CSIR-CBRI	SERB-OVDF Fellowship	Purdue University, USA (from January 2022 for 1 year)
Lalit Maurya	20EE17A15018	CSIR-CSIO	Commonwealth Split-Site Fellowship Program	Aberystwyth University, United Kingdom (01.03.2022 to 28.02.2023)
Aarushi	10PC20A15003	CSIR-CSIO	IGSTC PhD Industrial Exposure Fellowship (PIEF)	Indo-German Science & Technology Centre Germany, (15.05.2022 to 15.11.2022 (6 months)
Yamini Mittal	20EE17A36010	CSIR-IMMT	IGSTC PhD Industrial Exposure Fellowship (PIEF)	Indo-German Science & Technology Centre, Germany (20.04.2022 to 20.10.2022 (6 months)

## 13. Financials

### Financial Information for Year 2021-22:

The financial resource of AcSIR is the tuition fee received from the students enrolled in the academic programs (viz. PhD, M.Tech, M.Sc, Integrated PhD, PG Diploma) of AcSIR.

Goyal and Goyal Chartered Accountants, New Delhi (CAG empanelled Chartered Accountants) audited the accounts of AcSIR.

The Annual Accounts of AcSIR are prepared on the basis of historical cost convention, unless otherwise stated and generally on the accrual method of accounting as per the Common Format of Accounting.

Summary of Audited Balance Sheet and Income & Expenditure for current financial year (2021-2022) is provided below. For comparison Income and Expenditure of previous financial year (2020-2021) is also provided along with.

A copy of full audit report for the Financial Year 2021-22 is presented hereafter.

Sl. No.	Particulars	As on 31-03-2022	As on 31-03-2021
<b>A.</b>	<b>Corpus/ Capital Fund and Liabilities</b>		
1.	Corpus/ Capital Fund	109,453,453	10,94,53,453
2.	Reserves and Surplus	16,02,45,346	11,59,09,799
3.	Current Liabilities and provisions	17,637	12,11,047
	<b>Total</b>	<b>26,97,16,436</b>	<b>226,574,299</b>
<b>B.</b>	<b>Assets</b>		
1.	Fixed Assets	32,08,047	29,10,480
2.	Investments-from Earmarked/ Endowment funds	1,32,90,838	-
3.	Current Assets, Loans & Advances etc.	25,32,17,551	22,36,63,819
	<b>Total</b>	<b>26,97,16,436</b>	<b>22,65,74,299</b>
<b>C.</b>	<b>Income</b>		
1.	Fees/ Subscriptions	9,12,01,300	7,81,95,230
2.	Interest Earned	1,07,96,810	1,04,10,356
	<b>Total</b>	<b>10,19,98,110</b>	<b>8,86,05,586</b>
<b>D.</b>	<b>Expenditure</b>		

<b>1.</b>	<b>Salary &amp; Employees Benefit Expenses</b>	<b>3,65,49,912</b>	<b>2,95,08,233</b>
<b>2.</b>	<b>Other Administrative Expenses</b>	<b>2,05,21,369</b>	<b>1,58,06,304</b>
	Advt. & Publicity	17,01,971	20,31,133
	Revenue Provided to CSIR Labs (as AcSIR Academic Centres)	83,92,059	83,03,711
	Printing & Stationery	4,33,905	5,61,499
	Consultant Fees	12,09,000	15,61,032
	Transportation Charges and Vehicle Running and Maintenance	5,39,293	3,89,168
	Postage & Stamps	2,03,051	2,56,925
	Board of Studies and other academic or administrative Meetings	-	2,13,111
	Subscription Fee	4,46,603	2,37,467
	Manpower outsourcing	27,81,164	16,43,006
	Fellowship / Stipend /Awards	-	72,000
	Income Tax	-	10,930
	Senate Meeting Expenses	40,000	50,714
	Convocation Expenses	-	-
	Professional Fee to Dean, Associate Dean and Coordinator	31,62,583	30,43,478
	Others Expenses	16,11,740	4,75,608
<b>3.</b>	<b>Depreciation</b>	<b>10,67,285</b>	<b>10,68,892</b>
<b>4.</b>	<b>Prior Period Adjustment</b>	<b>-7,02,063</b>	<b>1,11,64,757</b>
<b>5.</b>	<b>Income Tax Expenses</b>	<b>2,26,060</b>	
	<b>Total</b>	<b>5,76,62,563</b>	<b>6,05,91,664</b>
<b>E.</b>	<b>Fixed Deposits</b>	<b>24,42,54,680</b>	<b>21,75,07,338</b>
<b>F.</b>	<b>Saving Account Balance</b>	<b>3,62,167</b>	<b>25,960</b>
<b>E+F</b>	<b>Total</b>	<b>24,46,16,847</b>	<b>21,75,33,298</b>



# Annexures



## Annexure 1: Master's Degree Dissertation Titles

Sl. No	Name, Enrollment Number	Lab Name	Title of the Project
<b>M.Tech. Advanced Electronic Engineering</b>			
1	Priti Pal (30EE19A06001)	CSIR-CEERI, Pilani	Study of atmospheric pressure cold plasma technologies for enhancement of seed germination and plant growth
2	Diksha Shekhawat (30EE19A06003)	CSIR-CEERI, Pilani	An Efficient Architecture for Posit Arithmetic and its FPGA Implementations
<b>M.Tech. Advanced Instrumentation</b>			
1	Souvik Thakur (30EE19A15003)	CSIR-CSIO, Chandigarh	Performance Evaluation of Person Re-Identification Techniques
2	Harish (30EE19A15004)	CSIR-CSIO, Chandigarh	Development of bio-inspired and wearable soft robotic ankle rehabilitation device
<b>M.Sc. Food Technology</b>			
1	Achala Achalkar (50BB19A08001)	CSIR-CFTRI, Mysuru	Preparation of tea bags flavoured with decalepis hamiltonii roots and evaluation of compatibility with green and black tea
2	Adithya K S (50BB19A08002)	CSIR-CFTRI, Mysuru	Fortification of rice with micronutrients: iron and folic acid
3	Aishwarya Mishra (50BB19A08003)	CSIR-CFTRI, Mysuru	Analysis of formulated oils and its product development
4	Anusha K J (50BB19A08004)	CSIR-CFTRI, Mysuru	Nutritional, sensory and microbial evaluation of immunity boosting nutritional supplement
5	Ashikgowda H P (50BB19A08005)	CSIR-CFTRI, Mysuru	Extraction and characterization of mucilage from wood apple and ash gourd
6	Bharathi Kannamma S (50BB19A08006)	CSIR-CFTRI, Mysuru	Development and characterization of chips from chicken egg
7	Bhavyatha G (50BB19A08007)	CSIR-CFTRI, Mysuru	Influence of functional ingredients like barley and chickpea semolina in the development of pasta
8	Fleming K F (50BB19A08008)	CSIR-CFTRI, Mysuru	Studies on functional properties of enzyme modified duck egg white hydrolysate
9	Girish N (50BB19A08009)	CSIR-CFTRI, Mysuru	Effect of grading of paddy on milling characteristics and comparative study of physical, cooking and textural properties of IR 64 and meenakshi varieties of paddy
10	Karthick V (50BB19A08010)	CSIR-CFTRI, Mysuru	Preparation and quality evaluation of multiple fruits and vegetables puree and its application in products formulation (RTS beverage and vegan gummy jelly)
11	Kavithabai S (50BB19A08011)	CSIR-CFTRI, Mysuru	Edible plant sources to boost immunity

12	Maithri Hegde V (50BB19A08012)	CSIR-CFTRI, Mysuru	Formulation of a beverage mix incorporating bovine colostrum hydrolysate for geriatrics
13	Muktha R (50BB19A08013)	CSIR-CFTRI, Mysuru	Synthesis and characterization of allyl-esters of aliphatic acids with special reference to flavour interest
14	Nikhil Kumar A S (50BB19A08014)	CSIR-CFTRI, Mysuru	Effect of natural colours on the quality characteristics of muffins
15	Nirmala M (50BB19A08015)	CSIR-CFTRI, Mysuru	Indian filter coffee brewing and its qualitative profile
16	Parthi Desai (50BB19A08016)	CSIR-CFTRI, Mysuru	A fibery coconut spread
17	Pooja S T (50BB19A08017)	CSIR-CFTRI, Mysuru	Value based products from mahua flowers
18	Pulkit Tyagi (50BB19A08018)	CSIR-CFTRI, Mysuru	Formulation of noodles from little millet and evaluation of its quality characteristics
19	Ramananda V H (50BB19A08019)	CSIR-CFTRI, Mysuru	Wax coating for the control of internal browning and shelf-life extension of pineapple
20	Ramya V (50BB19A08020)	CSIR-CFTRI, Mysuru	Preparation of shelf stable coffee extract
21	Telang Rohit Kamalakar (50BB19A08021)	CSIR-CFTRI, Mysuru	Thermal processing of the cabbage for enrichment of dietary bioactive compounds
22	Sheela P S (50BB19A08022)	CSIR-CFTRI, Mysuru	Replacement of table sugar in cookies with natural and artificial sweeteners
23	Siddesh Odeyar K (50BB19A08023)	CSIR-CFTRI, Mysuru	Preparation and characterization of polylactic acid (PLA)/ Cuminaldehyde blend flavoured films for food packaging applications
24	Siddhath Choudhury (50BB19A08024)	CSIR-CFTRI, Mysuru	Non-thermal processing of milk using ultraviolet radiation
25	Soumya Ranjan Sahu (50BB19A08025)	CSIR-CFTRI, Mysuru	Effect on addition of oats and coconut residue on quality of ragi paddu
26	Soumya V Pundi (50BB19A08026)	CSIR-CFTRI, Mysuru	Study on black tea mouthfeel properties by sensory and physico-chemical methods
27	Sushanth R (50BB19A08027)	CSIR-CFTRI, Mysuru	Development of biodegradable cutlery utilizing milling by-products
28	Thanuja B J (50BB19A08028)	CSIR-CFTRI, Mysuru	Effect of bio-formulations on pyrethroid residues in apple
29	Vibhuti Mittal (50BB19A08029)	CSIR-CFTRI, Mysuru	Development of plant-based milk by using pearl millet
30	N Vignesh Nayaka (50BB19A08030)	CSIR-CFTRI, Mysuru	Influence of ageing of paddy on milling, cooking and textural properties
<b>M.Sc. Science &amp; Technology Communication</b>			
1	Hemant Kumar (50MM19A42001)	CSIR-NISCAIR, Delhi	CSIR samachar newsletter: Analysis of its content, outreach and reader's views

<b>2</b>	Harshada. H (50MM19A42005)	CSIR-NISCAIR, Delhi	Genetically modified foods: Science, technology and society
<b>3</b>	Jyoti Sharma (50MM19A42006)	CSIR-NISCAIR, Delhi	Vaccines: Science, technology and society
<b>4</b>	Mohd. Kahlid Anwar (50MM19A42009)	CSIR-NISCAIR, Delhi	Role of folk media in science communication: A preliminary study
<b>M.Sc. Clinical Research</b>			
<b>1</b>	Paridhi Jain (50BB19A61001)	PHFI-IIPH, Delhi	Cost Analysis of Breast Cancer Treatment in It's Different Stages – A Hospital Based Cross-Sectional Study
<b>2</b>	Pratiksha Sharma (50BB19A61002)	PHFI-IIPH, Delhi	Validate Genetic Variants Related to Type 2 Diabetes in Indian Population
<b>3</b>	Versha (50BB19A61003)	PHFI-IIPH, Delhi	Willingness to Pay for Rotavirus Vaccine among Parents of Children Less than One Year in Purulia, West Bengal - A Secondary Data Analysis
<b>4</b>	Kirthana Nair (50BB19A61004)	PHFI-IIPH, Delhi	An Assessment of Treatment Satisfaction, Adverse Effects and Cost Analysis of Three Drugs- Denosumab, Teriparatide and Zoledronic Acid for Osteoporosis
<b>5</b>	Ria Sinha (50BB19A61005)	PHFI-IIPH, Delhi	Validation of Genetic Variants Related to COPD in North-Indian Population

## Annexure 2: Ph.D. Degree Theses

Sl.No.	Name of Student (Enrollment Number) & date of award of Degree	Name of the Supervisor	Title of Thesis	AcSIR Academic Centre
1	Jijnasa Bordoloi (10BB15A38017) & 01.04.2021	J. Kalita	"A study on the therapeutic potential of vitamin K against impaired lipid metabolism associated with hyperlipidemic pathophysiology"	CSIR-NEIST, Jorhat
2	Tanvi Sharma (10BB14J33005) & 01.04.2021	Sanjay Kumar	"Development and analyses of draft genome of <i>Picrorhiza kurroa</i> Royle ex Benth."	CSIR-IHBT, Palampur
3	Aswathi A. (10BB15J39008) & 01.04.2021	Rajeev K. Sukumaran	"Bacterial xenobiotic response - insights into the efficacy and molecular mechanisms of organophosphate evasion and degradation"	CSIR-NIIST, Thiruvananthapuram
4	Sheerin Naqvi (10CC17J32017) & 01.04.2021	Asit Patra	"Synthesis and characterization of anode interfacial and absorbing layers for excitonic solar cell application"	CSIR-NPL, New Delhi
5	Rahul Michael (10BB14J25003) & 06.04.2021	Prabodh K. Trivedi	"Light-mediated transcriptional regulation of terpenoid biosynthetic pathway in <i>Arabidopsis thaliana</i> "	CSIR-NBRI, Lucknow
6	Nalawade Sagar Arjun (20EE14J08021) & 06.04.2021	H. Umesh Hebbar	"Electromagnetic radiation based hybrid drying of vegetable and herb: Process efficiency and product quality evaluation"	CSIR-CFTRI, Mysuru
7	Falae Philips Omowumi (10PP16A01002) & 06.04.2021	D.P. Kanungo	"Integrated geo-investigation for landslide assessment"	CSIR-CBRI, Roorkee
8	Said Madhukar Shyam (10CC17J26050) & 06.04.2021	Jayant M.Gajbhiye	"Total synthesis of butenolide cinnamate and synthetic exploration in to carbon-fluorine bond forming reaction"	CSIR-NCL, Pune
9	Chidirala Swetha (10CC15A18004) & 07.04.2021	V. Jayathirtha Rao	"Design, synthesis and characterization of novel organic molecules involving pyrene and oxadiazoles for	CSIR-IICT, Hyderabad

			organic light emitting diode applications"	
10	Mohit Aggarwal (10BB15A02019) & 07.04.2021	Anurag Agarwal	"Study of lung function & its development (SOLID) in Indian children"	CSIR-IGIB, New delhi
11	Sushma Rani Tirkey (10BB14A16025) & 07.04.2021	Sandhya Mishra	"An approach to develop an efficient microbial system for degradation of polycyclic aromatic hydrocarbons"	CSIR-CSMCRI, Bhavnagar
12	Sadiya Khwaja (10CC16A10010) & 07.04.2021	Arvind Singh Negi	"Nature inspired microtubule destabilizers as possible cancer chemotherapeutics"	CSIR-CIMAP, Lucknow
13	Athira K. J. (10CC14J39019) & 07.04.2021	K.R. Gopidas	"Design, synthesis and self-assembly of $\beta$ -cyclodextrin based donor-acceptor systems for charge transfer and photoinduced electron transfer applications"	CSIR-NIIST, Thiruvananthapuram
14	Vivek Wakchaure (10CC15A26004) & 22.04.2021	S.B. Sukumaran	"A transition from non-processable to processable 2D-polymers using solvent-free organic liquids"	CSIR-NCL, Pune
15	Rangarajan B (10CC17J26003) & 22.04.2021	Sayan Bagchi	"Tuning the photophysical properties of low dimensional hybrid perovskites"	CSIR-NCL, Pune
16	Milan Kumar Bisai (10CC15A26020) & 22.04.2021	Sakya S. Sen	"Synthesis and reactivity of hypersilylsilylene and catalytic applications of organosilicon and lithium compounds"	CSIR-NCL, Pune
17	Ntemafack Augustin (10BB17J37017) & 22.04.2021	Qazi Parvaiz Hassan	"Evaluation of bioactivities of secondary metabolites of Rumex species and their endophytes"	CSIR-IIIM, Jammu
18	Sanghamitra Mohapatra (10BB13J36001) & 22.04.2021	Manish Kumar	"Production of biochars and its assessment for Cr remediation in chromite mining overburden and wastewater"	CSIR-IMMT, Bhubaneswar
19	Souneek Chakraborty (10BB15J37006) & 22.04.2021	Anindya Goswami	"Elucidating the molecular signaling activation attributable to drug induced DNA damages eventually leading to aberrant colon cancer metastasis"	CSIR-IIIM, Jammu
20	Jyoti Kumari (10BB14A16021) & 22.04.2021	Mangal Singh Rathore	"Cloning and characterization of Na <sup>+</sup> /H <sup>+</sup> antiporter gene from Kappaphycus alvarezii"	CSIR-CSMCRI, Bhavnagar
21	Sandopu Sravan Kumar	Parvatam Giridhar	"Isolation and characterization of potential nutraceutical compounds from fruits of	CSIR-CFTRI, Mysuru

	(10BB17A08014) & 22.04.2021		Basella rubra L. for value addition"	
<b>22</b>	Ashootosh Mandpe (20EE16A27001) & 22.04.2021	Sunil Kumar	"Sustainable utilization of fly ash in in-vessel composting of agricultural waste"	CSIR-NEERI, Nagpur
<b>23</b>	Gopala Rao Nalliboina (10CC15A18031) & 22.04.2021	B. Venkateswara Rao	"DDQ mediated stereoselective synthesis, immunological evaluation of (-)-cytoxazone, (-)-4-epi-cytoxazone and their analogues, dearomatisation of indoles triggered by silver catalyzed enyne cyclization leading to polycyclic dihydroindoloisoquinoline derivatives and facile synthesis of $\alpha$ -acyloxy ketones from terminal alkynes using hypervalent iodine (III)"	CSIR-IICT, Hyderabad
<b>24</b>	S. Sasikala (10CC14A05004) & 22.04.2021	Santoshkumar D. Bhat	"Functionalized clay and zeolite based composite polymer electrolytes for direct methanol fuel cells"	CSIR-CECRI, Karaikudi
<b>25</b>	Mohd Aatif (10CC14A32012) & 22.04.2021	Jai Prakash Tiwari	"Interface energy barrier modulation for improved performance of organic solar cells"	CSIR-NPL, New Delhi
<b>26</b>	Barbi Gogoi (10BB15A38008) & 22.04.2021	S P Saikia	"Molecular and in-silico analysis of Clerodendrum species from North East India"	CSIR-NEIST, Jorhat
<b>27</b>	Ravikant (10PP15A32004) & 22.04.2021	Ashok Kumar	"Ferroelectric tunnel junction for multistate non-volatile memory elements"	CSIR-NPL, New Delhi
<b>28</b>	Khursade Parag Sakham (10BB16J18033) & 22.04.2021	R.S. Prakasham	"Isolation, purification, optimisation and characterisation of potent fibrinolytic enzyme from Stenotrophomonas maltophilia Gd2 and its application in treatment of thrombosis"	CSIR-IICT, Hyderabad
<b>29</b>	Potuganti Gal Reddy (10CC16A18031) & 22.04.2021	A. Manjula	"Copper-catalyzed multicomponent approaches: Access to fused and spiro heterocyclic compounds via C-N bond formation"	CSIR-IICT, Hyderabad
<b>30</b>	Aravind Reddy Dorigundla (10CC15J18009) & 22.04.2021	B. Venkateswara Rao	"Stereoselective approaches for the synthesis of Peracetylated (-)-gloeosporiol, some carbasugars and amino carbasugars"	CSIR-IICT, Hyderabad

<b>31</b>	Suresh Udutha (10CC16J18012) & 22.04.2021	S. Prabhakar	"Characterization and toxicity evaluation of degradation products of sumatriptan succinate and bortezomib; A quantitative determination of serum key metabolites in pregnant women with hypertensive disorders, and avascular necrosis of femoral head patients by LC-MS/MS"	CSIR-IICT, Hyderabad
<b>32</b>	Matam Parameshwar (10CC16J18006) & 22.04.2021	M. Sridhar Reddy	"Novel annulation reactions of electron deficient alkynes with crotonate derived active methylene compounds"	CSIR-IICT, Hyderabad
<b>33</b>	Kashmiri Neog (10CC16A38005) & 22.04.2021	P Gogoi	"Development of novel strategies for the synthesis of coumestan, Isocoumarin, benzofuran and arylphosphorous compounds via Arynes"	CSIR-NEIST, Jorhat
<b>34</b>	Rajathsing K (10CC15J16006) & 22.04.2021	Kannan Srinivasan	"Layered double hydroxide-polymer nanocomposite: Multi-functional materials for diverse applications"	CSIR-CSMCRI, Bhavnagar
<b>35</b>	Wagalgave Sopan Mahadev (10CC16J18017) & 22.04.2021	Sidhanath V. Bhosale	"Design, synthesis, supramolecular self-assembly and optoelectronic applications of small organic molecules"	CSIR-IICT, Hyderabad
<b>36</b>	Bharati Lalhal Barsain (10BB13J33002) & 17.05.2021	Vipin Hallan	"Assessment of geranyl pyrophosphate synthase/geranyl geranyl pyrophosphate synthase (GPPS/GGPPS) enzyme system and epigenetic regulation upon picroside biosynthesis pathway of Picrorhiza Kurrooa royle ex benth."	CSIR-IHBT, Palampur
<b>37</b>	A. A. Boopathi (10CC16A11001) & 17.05.2021	T. Narasimhaswamy	"Design, synthesis and self-assembly studies of $\pi$ -conjugated tetrabenzofluorene (TBF) luminogens"	CSIR-CLRI, Chennai
<b>38</b>	Shailja Jain (10CC15A26024) & 17.05.2021	Kumar Vanka	"Computational studies of the explicit role of the solvent in facilitating transformations in main group chemistry"	CSIR-NCL, Pune
<b>39</b>	Ravindra Mule (10CC15J26007) & 17.05.2021	Senthilkumar Beeran	"Metal-mediated intramolecular cyclization of pyridino-alkynes"	CSIR-NCL, Pune

<b>40</b>	Gongutri Borah (10CC17J38002) & 17.05.2021	P Patel	"Synthesis of N-heterocyclic compounds via metal catalysed carbon functionalisation"	CSIR-NEIST, Jorhat
<b>41</b>	Sameer Huprikar (20EE12A26080) & 17.05.2021	Ashish V. Orpe	"Rheology and microstructure of capillary force induced gels"	CSIR-NCL, Pune
<b>42</b>	Karan Singh Verma (20EE15J35002) & 17.05.2021	S.K. Panthi	"Numerical and experimental studies of deformation behavior of closed cell aluminium foam"	CSIR-AMPRI, Bhopal
<b>43</b>	M. Mathankumar (10PP14A05006) & 17.05.2021	B. Subramanian	"Fabrication of transition metal oxide/sulphide thin films by pulsed laser deposition for Energy applications"	CSIR-CECRI, Karaikudi
<b>44</b>	Soumi Biswas (10BB14A17008) & 17.05.2021	Sharmila Chattopadhyay	"An investigation on Podophyllum hexandrum – a potential source of the anticancer drug podophyllotoxin"	CSIR-IICB, Kolkata
<b>45</b>	Dongala Venkataramanamma (10BB15J08009) & 17.05.2021	R.P. Singh	"Studies on effect of pomegranate peel extract on polyamine metabolism in acrylamide induced cytotoxicity"	CSIR-CFTRI, Mysuru
<b>46</b>	Aditya Prakash Rathore (10BB14J16014) & 17.05.2021	D.R. Chaudhary	"Study of nutrient cycling, phenology and population dynamics of halophytes in coastal saline ecosystem of Gujarat"	CSIR-CSMCRI, Bhavnagar
<b>47</b>	Swati Walia (10BB16A33008) & 17.05.2021	Rakesh Kumar	"Effect of nutrients, weed management and altitude on biomass, essential oil yield and quality traits of Tagetes minuta L."	CSIR-IHBT, Palampur
<b>48</b>	Mitali Mahajan (10BB15A33002) & 17.05.2021	Probir Kumar Pal	"Understanding the growth, physiological and biochemical responses of Stevia rebaudiana Bertoni. under salinity, moisture and nutritional regimes"	CSIR-IHBT, Palampur
<b>49</b>	Javed Ahmad (20EE16A15007) & 17.05.2021	H K Sardana	"Non-stationary thermal wave imaging for subsurface defect detection in metals"	CSIR-CSIO, Chandigarh
<b>50</b>	Kishora Shetty (20EE14A24003) & 17.05.2021	Shylaja Srihari	"Hot-wet environmental effects on properties of IMA/M21E aerospace grade CFRP composite"	CSIR-NAL, Bangalore

51	Hemant Jain (20EE17A35003) & 01.06.2021	D.P. Mondal	"Synthesis of open cell stainless steel foam prepared by powder metallurgy routes and its characterization"	CSIR-AMPRI, Bhopal
52	Reshma R. (10BB15J39007) & 18.05.2021	Muthu Arumugam	"Identification of selenoprotein T and enrichment of organic selenium from edible microalgae for nutraceutical applications"	CSIR-NIIST, Thiruvananthapuram
53	Nishant Kumar (10BB14A02023) & 01.06.2021	Anurag Agrawal	"Role of protein kinases in physiology and sporulation of Bacillus anthracis"	CSIR-IGIB, New delhi
54	Vinay Kumar (10BB14A25003) & 01.06.2021	Hemant K. Yadav	"Molecular marker and phenotypic trait based genetic diversity analysis in Lepidium sativum Linn."	CSIR-NBRI, Lucknow
55	Stella Jes Varghese (10PP14A45002) & 01.06.2021	Sajani Surendran	"Impact of resolution and deep convection scheme on simulation of Indian summer monsoon and its projection under multiple RCPs using multforcing ensembles"	CSIR-4PI, Bangalore
56	Patil Gouri Vijay (10BB14J26020) & 01.06.2021	Mahesh J. Kulkarni	"Investigation of diabetes as a risk factor for development of Alzheimer's disease"	CSIR-NCL, Pune
57	Sukanya Mozumder (10BB17A17003) & 01.06.2021	Jayati Sengupta	"Investigation on ligand-based structure and dynamic properties of serotonin (5-HT) G-protein coupled receptor (GPCR)"	CSIR-IICB, Kolkata
58	Shewale Sandhya Rustumrao (20BE15J08010) & 01.06.2021	Umesh Hebbar H	"Integrated electromagnetic radiation treatment and low humidity air drying of apple and rosemary for improving product quality"	CSIR-CFTRI, Mysuru
59	Ratan Das (20EE14A15005) & 01.06.2021	Neelesh Kumar	"Instrumentation system for analysis and classification of gait disorders"	CSIR-CSIO, Chandigarh
60	Vanammoole Lakshmi Reddy (10CC15J18032) & 02.06.2021	B. China Raju	"Synthesis and selective halogenation of biologically active heterocyclic compounds mediated by Oxone /Nax"	CSIR-IICT, Hyderabad
61	Kalbhori Dinesh Bapusaheb (10CC13A26031) & 02.06.2021	S.P. Chavan	"Synthetic studies towards biotin, stemoamide, hydroxylated piperidine and azepane"	CSIR-NCL, Pune
62	Srinivasa Rao Atchuta (10CC15J24004) & 02.06.2021	Harish C. Barshilia	"Development of stable selective solar absorber"	CSIR-NAL, Bangalore

			coatings for concentrated solar thermal applications"	
<b>63</b>	Bhingaradiya Nutanben Himmatlal (10CC16A16003) & 02.06.2021	Suresh Kumar Jewrajaka	"Synthesis of biodegradable amphiphilic copolymers and conetworks by sequential nucleophilic substitution reaction and applications"	CSIR-CSMCRI, Bhavnagar
<b>64</b>	Pronay Das (10CC15A26015) & 02.06.2021	Srinivasa Reddy	"Antimalarial natural product cladosporin: synthesis of stereoisomeric library, lead optimization, co-crystallization and biological evaluation and synthesis of related macrocyclic natural products"	CSIR-NCL, Pune
<b>65</b>	Poonam Yadav (10CC17J26049) & 02.06.2021	Manjusha Shelke	"Synthesis and electrochemical study of tunable alloying-conversion hybrid anodes for rechargeable Li-ion batteries"	CSIR-NCL, Pune
<b>66</b>	Sudhakar V (10CC17A26030) & 02.06.2021	K. Krishnamoorthy	"Approaches to suppress back electron transfer and improve dye sensitised solar cell performance"	CSIR-NCL, Pune
<b>67</b>	Ria Khare (10BB14J25002) & 02.06.2021	Prabodh K. Trivedi	"Molecular mechanisms involved in arsenic stress response under limiting sulphur condition in Arabidopsis thaliana natural variation"	CSIR-NBRI, Lucknow
<b>68</b>	Anupama Nair (10BB15A39021) & 14.06.2021	Raghu K.G.	"Upregulation of inflammatory mediators during diabetic cardiomyopathy and possible amelioration with cinnamic acid"	CSIR-NIIST, Thiruvananthapuram
<b>69</b>	SILPA K (10PP14J45002) & 14.06.2021	Anil Earnest	"A study on Indian plate seismogenesis using kinematic slip distribution models of selected earthquakes"	CSIR-4PI, Bangalore
<b>70</b>	Anurag Kumar (10CC15A19003) & 14.06.2021	Suman L. Jain	"Semiconductor-metal hybrid materials for photocatalytic activation of organic compounds"	CSIR-IIP, Dehradun
<b>71</b>	Kommeraj Rajkumar (10CC15A18008) & 14.06.2021	B. China Raju	"Synthesis of 3-formylchromone and coumarin based heterocycles of biological interest through novel approaches"	CSIR-IICT, Hyderabad
<b>72</b>	Shaumik Ray (20EE14A41001) & 14.06.2021	Saptarshi Sasmal	"Investigation on the hydration processes of cementitious systems using MIR and THz spectroscopy"	CSIR-SERC, Chennai

<b>73</b>	Jit Sarkar (10BB18J17001) & 14.06.2021	Partha Chakrabarti	"Pathophysiological characterization of non-obese type 2 diabetes mellitus"	CSIR-IICB, Kolkata
<b>74</b>	Amrita Singh (10BB14A02005) & 14.06.2021	Souvik Maiti	"Dissecting the functional role of triplex forming long noncoding RNAs"	CSIR-IGIB, New delhi
<b>75</b>	Amit Chandra (10BB14A02004) & 14.06.2021	Neeru Saini	"Functional characterization of miR-128 in maintaining cholesterol homeostasis"	CSIR-IGIB, New delhi
<b>76</b>	S J Yogaspoorthi (10BB14A02026) & 14.06.2021	Vivek T Natarajan	"Deciphering the role of guidance cues in melanocyte migration, patterning and survival"	CSIR-IGIB, New delhi
<b>77</b>	Kishore Kumar Sahu (10CC13A36021) & 14.06.2021	Mamata Mohapatra	"Synthesis of Fe, Cu and Ni oxalates and their oxides for photocatalytic and energy storage applications"	CSIR-IMMT, Bhubaneswar
<b>78</b>	Nagarjunachary Ragi (10CC16J18007) & 14.06.2021	S. Prabhakar	"Mass spectrometry analysis of uremic toxins and key metabolites in the blood of chronic kidney disease patients and stress degradation studies of vortioxetine"	CSIR-NAL, Bangalore
<b>79</b>	Minju N. (20EE16J39005) & 14.06.2021	Savithri S.	"Surface engineered porous silicates and hybrid materials for sorption applications"	CSIR-NIIST, Thiruvananthapuram
<b>80</b>	Ch. Venkata Suryakumar (10CC16A11002) & 14.06.2021	V. Subramanian	"Computational studies on catalytic applications of boron nitride nanomaterials for nitrogen fixation"	CSIR-CLRI, Chennai
<b>81</b>	M.B. Mrinalini (10CC17A18001) & 14.06.2021	L. Giribabu	"Self-assembly of redox active materials for optoelectronic applications"	CSIR-IICT, Hyderabad
<b>82</b>	Ipsita Putatunda (10PP12J45002) & 14.06.2021	K. Rajendran	"Characteristics of heating and moisture in tropics: An observational study"	CSIR-4PI, Bangalore
<b>83</b>	Bithika Chaliha (10BB15J38009) & 21.06.2021	S P Saikia	"Screening of some tree borne oilseeds of forest origin of North-East India for edible and non-edible applications"	CSIR-NEIST, Jorhat
<b>84</b>	Gorantla Vijay Nalini (10BB14J26019) & 21.06.2021	Subashchandrabose Chinnathambi	"Unravelling tau aggregation using small molecules by augmenting heat shock protein response"	CSIR-NCL, Pune
<b>85</b>	Kukde Sanchita Vijay (10PP14J27002) & 21.06.2021	B.K. Sarangi	"Mapping selected plant species using morphological, physiological and biochemical tools towards capability enhancement for greenhouse	CSIR-NEERI, Nagpur

			gas (GHG) sequestration and resource generation"	
<b>86</b>	Bables Ranawat (10BB16J16003) & 21.06.2021	Aneesha Singh	"Studies on halo-tolerant bacteria for agricultural applications"	CSIR-CSMCRI, Bhavnagar
<b>87</b>	Abhishek Balmik (10BB15J26039) & 21.06.2021	Subashchandraboise Chinnathambi	"Histone deacetylase 6 ZnF UBP as a regulator of Tau stability and neuronal functions"	CSIR-NCL, Pune
<b>88</b>	Sinare Sudam Nana (10CC17J18003) & 21.06.2021	Ch. Raji Reddy	"Synthetic studies on active pharmaceutical ingredients: Betrixaban, ibrutinib & eliglustat"	CSIR-IICT, Hyderabad
<b>89</b>	Guddeti Dileep Kumar (10CC16A18010) & 21.06.2021	K. Suresh Babu	"Phytochemical and synthetic studies on bio-active constituents from some traditional flora (plants & lichens) and evaluation of their biological activities"	CSIR-IICT, Hyderabad
<b>90</b>	Praveen Kumar (10CC14A26017) & 21.06.2021	Meitram Niraj Luwang	"Discovery of graphene 'nanogate' structure: A new chemical bond entity and its energy applications"	CSIR-NCL, Pune
<b>91</b>	Yogeshwar Vikram Dhar (10BB16J25007) & 21.06.2021	Mehar H. asif	"Bioinformatics based structural analysis of bi-functional TCS protein modules involved in ripening mechanism of fruits"	CSIR-NBRI, Lucknow
<b>92</b>	MUBashir Javed Mintoo (10BB14A37011) & 21.06.2021	D.M. Mondhe	"Evaluation of new rohitukine analogues for their anticancer potential"	CSIR-IIIM, Jammu
<b>93</b>	Suraya Jan (10BB15J37012) & 21.06.2021	Sayed Sajad Hussain	"Discovery of new G9a inhibitors and their anticancer activity"	CSIR-IIIM, Jammu
<b>94</b>	Shubhendra Kumar Jain (20EE16A32031) & 22.06.2021	Govind	"Device engineering of III-Nitride semiconductors based sensors"	CSIR-NPL, New Delhi
<b>95</b>	Rade Priyanka Prakash (10CC17J26009) & 22.06.2021	Baijayantimala Garnaik	"Synthesis of poly (L-Lactide) using zinc salen complex and fabrication of biocompatible polymers nonwoven nanofibrous mats and films for biomedical applications"	CSIR-NCL, Pune
<b>96</b>	Ambarish Kumar Singh (10CC15A26029) & 22.06.2021	J Nithyanandhan	"Squaraine based dyes for controlling the aggregation and charge recombination	CSIR-NCL, Pune

			processes in dye-sensitized solar cells"	
<b>97</b>	Motiwalla Zenia Yazdi (10BB15A26037) & 23.06.2021	Kiran Kulkarni	"Structural studies on Ras superfamily GTPases and their hematopoietic effectors: Zap70 and Asrij"	CSIR-NCL, Pune
<b>98</b>	Shweta Sonawane (10BB14J26024) & 23.06.2021	Subashchandrabose Chinnathambi	"Small molecules abet neuronal cytoskeleton integrity and attenuate pathological tau aggregation and glycation"	CSIR-NCL, Pune
<b>99</b>	Paras Sehgal (10BB15J02003) & 23.06.2021	Sridhar Sivasubbu	"Long non-coding RNA mediated regulation of endothelial cell function"	CSIR-IGIB, New delhi
<b>100</b>	Joshi Priyanka Satishchandra (10BB15A16009) & 23.06.2021	Pradeep Kumar Agarwal	"Isolation and characterization of NAC transcription factor from Aeluropus lagopoides for stress tolerance"	CSIR-CSMCRI, Bhavnagar
<b>101</b>	Jampala Annie Modestra (10BB16J18025) & 23.06.2021	S. Venkata Mohan	"Microbial catalyzed reduction of co2 to biobased products through bio-electrochemical synthesis and gas fermentation"	CSIR-IICT, Hyderabad
<b>102</b>	K. Amulya (10BB17J18046) & 23.06.2021	S. Venkata Mohan	"Sustainable production of succinic acid and polyhydroxyalkanoates through waste valorization and co2 sequestration in a biorefinery framework"	CSIR-IICT, Hyderabad
<b>103</b>	Shakuntala Bai (10BB13A26037) & 23.06.2021	Mahesh Kulkarni	"Study of methylglyoxal induced proteome in muscle cells"	CSIR-NCL, Pune
<b>104</b>	S. Kathyayani (10BB15J18044) & 24.06.2021	Rajkumar Banerjee	"Evaluation of glucocorticoid receptor-modulating bioactive self-assemblies for developing cancer-targeted therapeutics"	CSIR-IICT, Hyderabad
<b>105</b>	Songhita Meher (10CC14J18057) & 25.06.2021	Rohit Kumar Rana	"Designing facile routes to assemble graphene-based materials and nanocomponents with multifunctionalities"	CSIR-IICT, Hyderabad
<b>106</b>	Venkatesh Telugu (10CC15J18037) & 25.06.2021	S. Chandrasekhar	"Synthetic studies towards (±)- Galanthamine and (±)- Cochlearol A"	CSIR-IICT, Hyderabad
<b>107</b>	Viveki Amol Basagonda (10CC15J26016) & 25.06.2021	Santosh B. Mhaske	"Development of synthetic transformations comprising C–H functionalization and NHC catalysis to access vital scaffolds via C–C and C–N bond formation"	CSIR-NCL, Pune

<b>108</b>	Chandan Kumar A (20EE14J24001) & 25.06.2021	L Venkatakrishnan	"Role of the horseshoe vortex and the effect of controlling its formation at the wing-body intersection by a fairing design"	CSIR-NAL, Bangalore
<b>109</b>	Subhash Chandra Shit (10CC16A18038) & 25.06.2021	John Mondal	"Development of robust porous nanoarchitecture as heterogeneous catalyst for energy and environmental application"	CSIR-IICT, Hyderabad
<b>110</b>	Kaneez Fatima (10BB15A10006) & 25.06.2021	Suaib Luqman	"Molecular and cell target based study of selected terpenoids as anticancer agents"	CSIR-CIMAP, Lucknow
<b>111</b>	Sonam Nain (10BB15J02007) & 07.07.2021	Rakesh Sharma	"Oxidative stress tolerant genes: Their repertoire and functions in different ecological niches"	CSIR-IGIB, New delhi
<b>112</b>	Mousumi Khanra (20EE17J12001) & 07.07.2021	Arup Kumar Nandi	"Optimal driving based trip planning of electric vehicles using evolutionary algorithms: A driver assistance system"	CSIR-CMERI, Durgapur
<b>113</b>	Galande Sneha Harishchandra (10BB15J18054) & 07.07.2021	R.S. Prakasham	"Engineering, expression, purification and characterization of recombinant L-asparaginase from Bacillus subtilis"	CSIR-IICT, Hyderabad
<b>114</b>	Anamika Singh Gaur (10BB17A18047) & 07.07.2021	G. Narahari Sastry	"Molecular property diagnostic suite (MPDS): Towards development of disease-specific web portals"	CSIR-IICT, Hyderabad
<b>115</b>	Jattuboyina Siva Krishna (10CC17A18016) & 07.07.2021	B. Venkateswara Rao	"Synthesis, biological evaluation of triazole derivatives and stereo selective synthesis of some polyhydroxy iminosugars and Polyvalent iodine mediated $\alpha$ -acyloxylation of $\beta$ -keto esters"	CSIR-IICT, Hyderabad
<b>116</b>	Sivahari Prasad Kurma (10CC17J18032) & 07.07.2021	B. China Raju	"Synthesis of coumarin heterocycles and evaluation of their biological activities"	CSIR-IICT, Hyderabad
<b>117</b>	Deshpande Ashwini Anil (10CC15J26003) & 07.07.2021	P.P. Wadgaonkar	"Apolar oligomers: Synthesis and their self-association through physical / 3D interactions"	CSIR-NCL, Pune
<b>118</b>	Rajiv Dubey (10PP15J15001) & 07.07.2021	Raj Kumar	"Investigations on holographic shearing interferometry for	CSIR-CSIO, Chandigarh

			applications in optical metrology"	
<b>119</b>	Saumya Mishra (10BB14A22003) & 07.07.2021	M.P. Singh	"A study on the crosstalk between microglial activation and dopaminergic neurodegeneration in the cellular model of cypermethrin-induced parkinsonism"	CSIR-IITR, Lucknow
<b>120</b>	Dhiviya V (10BB14A03005) & 07.07.2021	Krishnan H Harshan	"Investigating the role of epithelial mesenchymal transition (EMT) in human viral infections"	CSIR-CCMB, Hyderabad
<b>121</b>	Sangeeta Bagha (20EE14J36014) & 07.07.2021	Debi Prasad Das	"Development of algorithms for active control of narrowband noise"	CSIR-IMMT, Bhubaneswar
<b>122</b>	Dinesh Kumar (10BB15A18041) & 07.07.2021	T. Anjana Devi	"Understanding the role of fluorinated thiazolidinol in inducing autophagic cell death in pancreatic cancer"	CSIR-IICT, Hyderabad
<b>123</b>	Preeti Yadav (10CC16A32025) & 08.07.2021	Asit Patra	"Studies on poly(3,4-ethylenedioxy-selenophene) and its derivatives for organic solar cell applications"	CSIR-NPL, New Delhi
<b>124</b>	Bir Bahadur Sherpa (20EE16J15008) & 16.07.2021	Sachin Tyagi	"To study and develop low VoD explosive welding process for joining aluminium and steel"	CSIR-CSIO, Chandigarh
<b>125</b>	Nisha Dhiman (10BB14J33003) & 16.07.2021	Amit Bhattacharya	"Studies on development of in vitro systems and de novo transcriptome analysis for secondary metabolite pathway elucidation in Nardostachys jatamansi (D.Don) DC.- A critically endangered medicinal herb of Himalayas"	CSIR-IHBT, Palampur
<b>126</b>	Anitha R E (50BB15A08001) & 16.07.2021	V. Baskaran	"Lactucaxanthin mediated modulation of oxidative stress & retinal angiogenesis in hyperglycemia induced ARPE-19 cell line and rat models"	CSIR-CFTRI, Mysuru
<b>127</b>	Mayank Garg (20EE17J15004) & 16.07.2021	Suman Singh	"Synthesis and characterization of 2-D layered material derived nanostructures for sensing of oxidative stress markers"	CSIR-CSIO, Chandigarh
<b>128</b>	Navya Mishra (50BB13A61001) & 16.07.2021	Tanica Lyngdoh	"Factors affecting early adult lung function"	PHFI-IIPH, New Delhi

<b>129</b>	Amit Abhash (20EE15A35007) & 16.07.2021	D P Mondal	"Open cell titanium alloy foam for bone implant using space holder technique"	CSIR-AMPRI, Bhopal
<b>130</b>	Sharma Mrityunjay Keshav Prasad (20EE14A26058) & 16.07.2021	Amol A. Kulkarni	"Selectivity engineering of exothermic multistep reactions using flow reactors"	CSIR-NCL, Pune
<b>131</b>	Tripti Sharma (10BB17A19013) & 16.07.2021	Debashish Ghosh	"Production of yeast single cell oil from lignocellulosic biomass and its assessment as biofuel and oleochemicals"	CSIR-IIP, Dehradun
<b>132</b>	Ankesh Pandey (10BB15A25001) & 16.07.2021	Indraneel Sanyal	"Expression of <i>Cocculus hirsutus</i> trypsin inhibitor (ChTI) in chickpea for resistance to <i>Helicoverpa armigera</i> and <i>Spodoptera litura</i> "	CSIR-NBRI, Lucknow
<b>133</b>	Sridharashanmukha Rao. B (10CC16A18037) & 16.07.2021	G. Sudhakar	"Total synthesis of macroline class indole alkaloids: Macroline, alstomicine, alstofonidine, and alstofoline A"	CSIR-IICT, Hyderabad
<b>134</b>	Nevare Yogesh Ramesh (10CC14J26017) & 16.07.2021	P.P. Wadgaonkar	"Synthetic approaches to aliphatic polyesters"	CSIR-NCL, Pune
<b>135</b>	Anirban Ghoshal (10BC16A18055) & 16.07.2021	Ajay Kumar Srivastava	"Construction of privileged heterocycles through novel isocyanide-based multicomponent reactions and their biological evaluations"	CSIR-IICT, Hyderabad
<b>136</b>	Pathak Gauri Mukund (10BB13A26034) & 16.07.2021	Narendra Kadoo	"Insights into the life cycle of <i>Bipolaris sorokiniana</i> through OMICS approaches"	CSIR-NCL, Pune
<b>137</b>	Braham Dutt Arya (10CC16J32012) & 23.07.2021	Surinder P. Singh	"Synthesis, physico-chemical characterization and biological evaluation of graphene oxide-chloroquine nanoconjugate as novel anti-cancer nanoplatfrom"	CSIR-NPL, New Delhi
<b>138</b>	Ranjana Maurya (10CC17J10003) & 23.07.2021	C S Chanotiya	"Unravelling the aroma of <i>Chrysopogon zizanioides</i> and <i>Ocimum</i> species: Identification and characterization of odor-impact compounds"	CSIR-CIMAP, Lucknow
<b>139</b>	Amzad Khan (10CC16J19001) & 23.07.2021	Om. P. Khatri	"Ionic liquids and deep eutectic solvents for enhancement of lubrication properties"	CSIR-IIP, Dehradun

<b>140</b>	Vikrant Yadav (10CC16A16002) & 23.07.2021	Vaibhav Kulshrestha	"Synthesis of conducting polymeric membranes by hydrophilic charge modification for various electro-membrane applications"	CSIR-CSMCRI, Bhavnagar
<b>141</b>	Maheshwari Tallapally (10CC16J18005) & 23.07.2021	UVR Vijaya Sarathi	"Comparative studies of artificially ripened banana fruits ripened with various artificial ripeners for identification of changes in chemical composition"	CSIR-IICT, Hyderabad
<b>142</b>	C Shireesha (10CC15J18002) & 23.07.2021	UVR Vijaya Sarathi	"Metabolic profiling of naturally and artificially ripened mango fruits"	CSIR-IICT, Hyderabad
<b>143</b>	Yadagiri. T (10CC16J18013) & 23.07.2021	Galla V. Karunakar	"Development of new methods for the synthesis of substituted alkynes and gold- catalyzed formation of 2,5- dihydrofurans and pyrazolo[1,4]oxazepines"	CSIR-IICT, Hyderabad
<b>144</b>	Thorat Meghana Namdeo (10BB14A26049) & 23.07.2021	Syed G Dastager	"Bacterial nanocellulose by Komagataeibacter strain PG2: production, characterization and potential applications"	CSIR-NCL, Pune
<b>145</b>	Surbhi Sharma (10BB15A02035) & 23.07.2021	Souvik Maiti	"Elucidating the role of a novel circadian transcript in retina"	CSIR-IGIB, New Delhi
<b>146</b>	Masroor Ahmad Paddar (10BB15J37020) & 23.07.2021	Dr. Fayaz Malik	"Exploring the molecular mechanism(s) of Trastuzumab resistance in HER2 positive breast cancers."	CSIR-IIIM, Jammu
<b>147</b>	Kanakangi S. Nair (10CC14J39020) & 23.07.2021	Surendran K.P.	"Synthesis and fabrication of flexible lead-free piezoelectric nanocomposites for energy harvesting applications"	CSIR-NIIST, Thiruvananthapuram
<b>148</b>	Manoj Kumar Singh (10BB14A02021) & 23.07.2021	Chetana Sachidanandan	"Investigating the effects of chronic systemic inflammation on zebrafish liver"	CSIR-IGIB, New delhi
<b>149</b>	Varkekar Namrata Jagdeo (10BB14J08018) & 23.07.2021	Ng. I. Singh	"Processing of Parkia biglandulosa W. & A. for traditional food formulations of Manipur: evaluation of nutritional quality and storage stability"	CSIR-CFTRI, Mysuru
<b>150</b>	Anwar Sadat (10BB16A02006) & 02.08.2021	Kausik Chakraborty	"Understanding the molecular mechanism of GroEL/ES assisted folding of a substrate"	CSIR-IGIB, New Delhi
<b>151</b>	Anjum Dihingia (10BB16A38023) & 03.08.2021	J. Kalita	"A study on the prophylactic role of vitamin K against impaired glucose metabolism"	CSIR-NEIST, Jorhat

			and vascular inflammation in type 2 diabetes"	
<b>152</b>	Joyashree Baruah (10BB16A38021) & 03.08.2021	M Lal	"Assessment of selection criteria for development of high yielding variety of Capsicum Chinense jacq."	CSIR-NEIST, Jorhat
<b>153</b>	Abhilash Sharma (10CC16A38008) & 03.08.2021	P Gogoi	"Development of transition-metal free cascade strategies for ortho-functionalization of arenes, synthesis of arylated coumarins and indoloquinazolinones via arynes"	CSIR-NEIST, Jorhat
<b>154</b>	Ashok Kumar Morri (10CC16A18003) & 03.08.2021	Subhash Ghosh	"Development of metal-free syntheses of alkynes,thioamide and 1,3-diynes from 1,1-dibromoalkenes and their mechanistic investigations"	CSIR-IICT, Hyderabad
<b>155</b>	Kirti Nitin Gavaraskar (10MM15J44003) & 03.08.2021	Paromita Banerjee	"Disclosure criteria for patents: Evolution and implications"	CSIR-URDIP, Pune
<b>156</b>	Theresa Shalini R M (10BB13A08003) & 03.08.2021	Asha Martin	"Functional expression and characterization of wax synthase from sunflower (Helianthus annuus)"	CSIR-CFTRI, Mysuru
<b>157</b>	Sumit Sharma (10CC14A37019) & 03.08.2021	Parvinder Pal Singh	"Medicinal chemistry around nitroimidazole scaffold to discover new generation anti-TB leads"	CSIR-IIIM, Jammu
<b>158</b>	Neha Agarwal (10BB14J25001) & 03.08.2021	Samir V. Sawant	"Role of NPR1 in global nucleosomal remodeling in Arabidopsis thaliana"	CSIR-NBRI, Lucknow
<b>159</b>	Asha Kumari (10BB15J16012) & 03.08.2021	Asish Kumar Paridal	"Adaptation mechanisms of the halophyte Salvadora persica to salt and alkali stresses: Implications from ionomic, metabolomic, and proteomic responses"	CSIR-CSMCRI, Bhavnagar
<b>160</b>	Rajeshwari Rathore (10BB14A26040) & 03.08.2021	Mahesh J. Kulkarni	"Elucidation of the role of glycated albumin as a potential marker in prediabetes and development of insulin resistance"	CSIR-NCL, Pune
<b>161</b>	Ranjithkumar A (10BB15J11004) & 03.08.2021	C. Muralidharan	"Production and characterization of proteases and their applications"	CSIR-CLRI, Chennai

<b>162</b>	Samrat Ghosh (10BB16A17004) & 03.08.2021	Sucheta Tripathy	"Analyzing big data with novel combinatorial approach"	CSIR-IICB, Kolkata
<b>163</b>	Rajashree Laxmikant Hajare` (20EE16J27002) & 03.08.2021	Pranav Nagarnaik	"Quantification of pathogens and indicators for evaluation of human health impacts using quantitative microbial risk assessment (QMRA) approach for safe use of reclaimed water"	CSIR-NEERI, Nagpur
<b>164</b>	Ramya A. N. (10CC16A39008) & 03.08.2021	Kaustabh Kumar Maiti	"Development of molecular probes and nano-carrier delivery system for intracellular sensing and theranostic applications"	CSIR-NIIST, Thiruvananthapuram
<b>165</b>	Puppala Sathish (10CC15A18027) & 03.08.2021	Ch. Raji Reddy	"Development of transition metal-catalyzed annulation approaches towards the synthesis of 3,4-fused indoles"	CSIR-IICT, Hyderabad
<b>166</b>	Gorakala Uma Sankar (10CC15J18025) & 03.08.2021	Galla V. Karunakar	"Design, synthesis and characterization of multi chromophoric organic small molecules for organic light emitting diodes applications"	CSIR-IICT, Hyderabad
<b>167</b>	Inder Kumar (10CC15A33011) & 03.08.2021	Updendra Sharma	"Development of photo-catalytic methodologies for the C-C and C-heteroatom bond formation"	CSIR-IHBT, Palampur
<b>168</b>	Gourab Das (10CC14A39001) & 03.08.2021	A. Ajayghosh	"Self-assembly and optical properties of phenyleneethynylene and BODIPY based $\pi$ -systems"	CSIR-NIIST, Thiruvananthapuram
<b>169</b>	Sajena K.S (10CC15A39003) & 03.08.2021	Joshy Joseph	"DNA-interactions, self-assembly and photophysical properties of DNA three-way junction templated fluorescent silver nanoclusters and functional tetraphenylethylene derivatives"	CSIR-NIIST, Thiruvananthapuram
<b>170</b>	Jovitha Lincy V. J. (10PP13A29003) & 03.08.2021	Cathrine Sumathi Manohar	"A study on anammox microbes from oxygen depleted environments (ODEs) of the Indian ocean using molecular tools"	CSIR-NIO, Goa
<b>171</b>	Upasana Rai (10BB14A03001) & 03.08.2021	Mandar V. Deshmukh	"Structural-functional insights of DRB2 during RNA recognition in <i>A. thaliana</i> "	CSIR-CCMB, Hyderabad
<b>172</b>	Maritim Kipkdech Tony (10BB18A33009) & 03.08.2021	R.K. Sharma	"Genomic Studies for molecular dissection and genetic improvement of quality characteristics in tea"	CSIR-IHBT, Palampur

			(Camellia sinensis (L.) O. Kuntze)"	
<b>173</b>	Kannan B N (10BB14J02007) & 06.08.2021	Souvik Maiti	"Elucidation of mitochondrial sub-compartment specific stress response during proteotoxic stress of yeast, Saccharomyces cerevisiae"	CSIR-IGIB, New delhi
<b>174</b>	Vikas Narayan Thakur (10PP17J32006) & 06.08.2021	Ashok Kumar	"Design development and analysis of the pressure standards and sensors"	CSIR-NPL, New Delhi
<b>175</b>	Badola Poorwa Kamal (10BB17A25005) & 06.08.2021	P.K. Trivedi	"Molecular components involved in miR858-dependent plant growth and development"	CSIR-NBRI, Lucknow
<b>176</b>	Tamal Das (10CC16J26001) & 06.08.2021	Kumar Vanka	"Insights into messy chemistry related to cosmology and origin of life obtained by employing state-of-the-art computational methods"	CSIR-NCL, Pune
<b>177</b>	Manish Kumar Yadav (10BB13A02008) & 06.08.2021	Rakesh Sharma	"Functional characterization and application of metagenome-derived esterases for enantioselective biotransformations"	CSIR-IGIB, New delhi
<b>178</b>	Dileep S A (10BB13A08006) & 16.08.2021	Dandamudi Usharani	"A molecular understanding of human sucrase enzyme with sugarcane sucrase inhibitor"	CSIR-CFTRI, Mysuru
<b>179</b>	Radha Shivhare (10BB16A25011) & 16.08.2021	Charu Lata	"Transcript profiling of pearl millet (Pennisetum glaucum L.) under drought stress and functional characterization of a stress-responsive gene"	CSIR-NBRI, Lucknow
<b>180</b>	Piyali Ganguli (10BB16J26020) & 16.08.2021	Ram Rup Sarkar	"Identification of immuno-regulatory modules and optimal treatment strategies for eliciting effector functions against different diseases"	CSIR-NCL, Pune
<b>181</b>	Shahbaz Khan (32EE14J14005) & 16.08.2021	M.N. Nagabhushana	"Performance evaluation of inverted pavement for low volume roads"	CSIR-CRRI, New Delhi
<b>182</b>	Debranjana Mandal (10CC17A26016) & 16.08.2021	Arup K. Rath	"Role of surface passivation and doping on the development of quantum dot solar cells"	CSIR-NCL, Pune
<b>183</b>	Adarsh Kumar (10CC16A19003) & 16.08.2021	Thallada Bhaskar	"Reductive catalytic transformation of lignin and lignin derived bio-oil to functional chemicals"	CSIR-IIP, Dehradun

<b>184</b>	Gaurav Singhal (20EE15A15003) & 16.08.2021	Babankumar Bansod	"Spatio temporal mapping using drone to model chlorophyll concentration for crop health monitoring"	CSIR-CSIO, Chandigarh
<b>185</b>	Apoorva Verma (10PP15J32005) & 16.08.2021	Anurag Gupta	"Low-temperature magnetic and transport studies of magnetic and superconducting nanostructures"	CSIR-NPL, New Delhi
<b>186</b>	Kanika Gupta (10CC15J19004) & 16.08.2021	Om P. Khatri	"Nanostructured carbon- based materials for wastewater remediation and environmental applications"	CSIR-IIP, Dehradun
<b>187</b>	Ganji Praveena (10BB16A18059) & 16.08.2021	R.S. Prakasham	"Biosynthesis and biochemical properties of silver nanoparticles by isolated Streptomyces sp. - core protein characterization and green application"	CSIR-IICT, Hyderabad
<b>188</b>	Sandeep Kumar (20EE15A08010) & 16.08.2021	MVRK Sarma	"Functional expression of $\alpha$ - glucosidase towards production of isomaltooligosaccharides"	CSIR-CFTRI, Mysuru
<b>189</b>	Manish Kalra (20EE16J15011) & 16.08.2021	Bhargab Das	"Analysis of time-frequency techniques for moving ground vehicle detection and classification using seismic signal processing"	CSIR-CSIO, Chandigarh
<b>190</b>	Harish Singh Rawat (20EE16J32019) & 17.08.2021	Satya Kesh Dubey	"The study of electromagnetically induced transparency (EIT) for its potential applications in e- field sensing"	CSIR-NPL, New Delhi
<b>191</b>	Umesh Kumar (10BB15J25007) & 31.08.2021	Hemant Yadav	"Development and characterization of TILLING population of Gossypium herbaceum L."	CSIR-NBRI, Lucknow
<b>192</b>	Patil Gajanan Srikant (10BB13A03002) & 31.08.2021	Rajan Sankaranarayanan	"Structural and functional characterization of fatty acyl-AMP ligase from diverse organisms"	CSIR-CCMB, Hyderabad
<b>193</b>	Anupma Thakur (20EE17A15007) & 31.08.2021	R.K. Sinha	"Development of efficient photoelectrodes for solar driven hydrogen production by water splitting"	CSIR-CSIO, Chandigarh
<b>194</b>	Naresh Killi (10CC17J26026) & 31.08.2021	GVN Rathna	"Design and synthesis of new polymeric carriers as drug delivery systems"	CSIR-NCL, Pune
<b>195</b>	Shivanshu Goel (10PP17J15002) & 31.08.2021	Sachin Tyagi	"Rare earth doped barium hexaferrite and carbon	CSIR-CSIO, Chandigarh

			nanostructure composites for microwave absorption"	
<b>196</b>	Aiswarya Bhaskar Pawar (20EE15A26035) & 31.08.2021	Durba Sengupta	"Structural characterization of key players in the ErbB signaling pathways: Implications in cancer"	CSIR-NCL, Pune
<b>197</b>	Ajay Mandal (20EE15A35001) & 31.08.2021	N. Sathish	"Graphene reinforced stainless steel metal matrix composite through additive manufacturing"	CSIR-AMPRI, Bhopal
<b>198</b>	Nitin Sonkar (20EE15A08011) & 31.08.2021	K. Venkatesh Murthy	"Drying of Amla (Phyllanthus emblica) grating for value addition"	CSIR-CFTRI, Mysuru
<b>199</b>	Karishma Agrawal (10CC15A10009) & 31.08.2021	Karishma Agarwal	"Value addition of flavonoids and related compounds for Pharmacological activities"	CSIR-CIMAP, Lucknow
<b>200</b>	Sandeep Kumar (20EE14J24004) & 31.08.2021	Amit Kumar Onkar	"Stochastic response and reliability analysis of aeroelastic structures"	CSIR-NAL, Bangalore
<b>201</b>	Ruchi Bhardwaj (10PP16A32001) & 01.09.2021	Bhasker Gahtori	"Synthesis and characterization of cosb3 based materials for mid-temperature thermoelectric applications"	CSIR-NPL, New Delhi
<b>202</b>	Bansode Ajay Haridas (10CC15A26002) & 08.09.2021	Gurunath Suryavanshi	"Synthesis of biologically important molecules and development of synthetic methodologies involving oxidation reactions via visible-light and transition metal-free conditions"	CSIR-NCL, Pune
<b>203</b>	Vitalis Ikenna Chukwuikw (10CC18J05008) & 09.09.2021	Rakesh C. Barik	"Corrosion inhibition of copper using metal tungstate based nanocomposites in chloride environment"	CSIR-CECRI, Karaikudi
<b>204</b>	Rama shankar Gupta (20EE16J32015) & 10.09.2021	Ritu Srivastava	"Synthesis and characterization of organohalide perovskite single crystals for detector application"	CSIR-NPL, New Delhi
<b>205</b>	Shinde Sundar Sampatrao (10CC15J18023) & 10.09.2021	Pravin R Likhar	"Multi-component reactions: Highly efficient tool for development of new n-heterocycles via (3+2) cycloaddition"	CSIR-IICT, Hyderabad
<b>206</b>	Ram Jatan (10BB15J25003) & 10.09.2021	Charu Lata	"Identification and characterization of plant growth promoting rhizobacteria-responsive microRNA(s) from plants"	CSIR-NBRI, Lucknow

<b>207</b>	Snigdha Bhowmick (10BB14A02033) & 10.09.2021	Soumya Sinha Roy	"The role of voltage dependent anion channels (VDACs) in the development and progression of hepatocellular carcinoma"	CSIR-IGIB, New Delhi
<b>208</b>	Preetha Rani (10BB15A39023) & 10.09.2021	Raghu K. G.	"Exploration of ER stress and associated complications in the genesis of hyperglycemia induced cardiomyopathy and possible amelioration with chlorogenic acid"	CSIR-NIIST, Thiruvananthapuram
<b>209</b>	Priyanka Kumari (10BB15A10012) & 10.09.2021	Abha Meena	"Green synthesis and characterization of nanomaterials from plant sources and its pharmaceutical application"	CSIR-CIMAP, Lucknow
<b>210</b>	Santosh Shelar (10CC14A26004) & 10.09.2021	Narshinha P. Argade	"Cyclic anhydrides and imides to indole based novel natural and unnatural products"	CSIR-NCL, Pune
<b>211</b>	Trivedi Jaladhi Sanjaykumar (10CC16A16001) & 10.09.2021	Suresh Kumar Jewrajka	"Ion exchange and polyamide thin film composite membranes for the removal of salt and toxic metal ions"	CSIR-CSMCRI, Bhavnagar
<b>212</b>	Sachin Sharma (10CC15J19003) & 10.09.2021	Rajaram Bal	"Production of clean methanol from carbon dioxide by using nano structured catalyst"	CSIR-IIP, Dehradun
<b>213</b>	Gurpreet Singh (10BB15J37002) & 10.09.2021	Meenu Katoch	"Exploration of endophytic fungi from Brugmansia aurea for discovery of bioactive metabolites through conventional and epigenetic modulation approach"	CSIR-IIIM, Jammu
<b>214</b>	Prajeesh K. V. (10BB16J39009) & 10.09.2021	Rajeev K. Sukumaran	"Glucose tolerant beta-glucosidase of Aspergillus unguis: In-silico characterization, cloning, expression and genome/transcriptome profiling to understand its regulation"	CSIR-NIIST, Thiruvananthapuram
<b>215</b>	Swetha Pavani Rao (10BB16J18027) & 10.09.2021	Shasi Vardhan Kalivendi	"Investigating the mitochondrial effects of embelin and carnitine tagged idebenone in cellular and animal models of Parkinson's disease"	CSIR-IICT, Hyderabad
<b>216</b>	Mahendra V P (10BB16A08012) & 10.09.2021	Ravi Kumar	"Effect of dietary molecules in glucose-stimulated insulin secretion from pancreatic $\beta$ -cells and their effect on insulin aggregation"	CSIR-CFTRI, Mysuru

<b>217</b>	Maheer Deepak Mannusing (10CC13A26022) & 10.09.2021	Prakash P. Wadgaonkar	"Step growth polymers bearings pendant clickable groups via functional monomer approach: Synthesis, characterization and chemical modification"	CSIR-NCL, Pune
<b>218</b>	Meenu M. T. (10CC17J39004) & 10.09.2021	Radhakrishnan K.V.	"Identification and derivatization of bioactive secondary metabolites from traditionally highlighted floras and exploring applications thereof"	CSIR-NIIST, Thiruvananthapuram
<b>219</b>	Priyanka (10PC16J15001) & 10.09.2021	Suman Singh	"Studies on particle processing techniques, characterization and stability of high energetic materials"	CSIR-CSIO, Chandigarh
<b>220</b>	M. Karnan (10CC18J05003) & 10.09.2021	M. Sathish	"High energy supercapacitor device fabrication using various bio-derived activated carbon"	CSIR-CECRI, Karaikudi
<b>221</b>	Anil Kumar (10BB14A37008) & 20.09.2021	Zabeer Ahmed	"Anti-inflammatory and anti-arthritic potential of new alantolactone derivative"	CSIR-IIIM, Jammu
<b>222</b>	Suchitra Pradhan (10BB14A08025) & 20.09.2021	Ravi Kumar	"Understanding the mechanism of chromosome condensation by SMC proteins in Mycobacterium smegmatis"	CSIR-CFTRI, Mysuru
<b>223</b>	Supriya Pal (10CC15A18016) & 22.09.2021	Pratyay Basak	"Nanostructured lithium titanate as a potential anode material for Li-ion batteries: Impact of phase purity, morphology, exposed facets and binders"	CSIR-IICT, Hyderabad
<b>224</b>	Prajna Mishra (10CC15J26011) & 22.09.2021	Santosh Kumar Jha	"Thermodynamic and spectroscopic characterization of near native states in protein folding"	CSIR-NCL, Pune
<b>225</b>	Jaswant (20EE15J32020) & 22.09.2021	Radhakrishnan S.R.	"Study of aerosols over Western Himalayas and development of 3D scanning lidar"	CSIR-NPL, New Delhi
<b>226</b>	Soumendu Sinha (20EE16A06002) & 22.09.2021	Ravindra Mukhiya	"Design, modeling, materials development, and fabrication of FET-based chemical sensors"	CSIR-CEERI, Pilani
<b>227</b>	Deeksha Singh (10BB16A17002) & 24.09.2021	Sucheta Tripathy	"In-depth analysis of a newly discovered marine cyanobacteria with bioremediation and bio-metabolite production potential"	CSIR-IICB, Kolkata

<b>228</b>	Anagh Mukherjee (10CC15J26010) & 27.09.2021	Kumar Vanka	"Computational studies on the effect of charge and electric fields on systems of chemical and biological interest"	CSIR-NCL, Pune
<b>229</b>	Tapan Sahoo (10CC15A16001) & 27.09.2021	Subhash Chandra Ghosh	"Transition metal catalyzed directing-group-assisted C–H activation and functionalization"	CSIR-CSMCRI, Bhavnagar
<b>230</b>	Tapas Haldar (10CC16A26031) & 27.09.2021	Sayan Bagchi	"Spectroscopic determination of electrostatic and hydrogen bonding interactions in chemical and biological systems"	CSIR-NCL, Pune
<b>231</b>	Amol Ichake (10CC15J26025) & 27.09.2021	Prakash P. Wadgaonkar	"Bio-derived monomers for step-growth polymers based on lignin-derived aromatic chemicals and cashew nut shell liquid (CNSL)"	CSIR-NCL, Pune
<b>232</b>	Paresh Kumar Purohit (10BB15A02022) & 27.09.2021	Neeru Saini	"Modulation of mitochondrial function and cellular stress by miR-195"	CSIR-IGIB, New Delhi
<b>233</b>	Pankaj Chibber (10BB16J37007) & 27.09.2021	G. D. Singh	"Preclinical evaluation of OA-DHZ, a lead as an anti-inflammatory and analgesic derivative of dehydrozingerone."	CSIR-IIIM, Jammu
<b>234</b>	Soumya Sinha (10BB16A10005) & 27.09.2021	Abdul Samad	"Genomic characterization of cucumber mosaic virus (es) infecting selected medicinal and aromatic plants: Pathogenic effects and management strategies"	CSIR-CIMAP, Lucknow
<b>235</b>	Nitesh Kumar Sharma (10BB16A33005) & 28.09.2021	Ravi Shankar	"High throughput data driven decoding of genomic system: A computational approach"	CSIR-IHBT, Palampur
<b>236</b>	Abignangurukar M S (10BB14A08020) & 01.10.2021	Nandini C.D	"Modulation of PPAR $\gamma$ by mulberry leaf bioactives and its implications on chondroitin sulphate/dermatan sulphate in kidney of diabetic rats"	CSIR-CFTRI, Mysuru
<b>237</b>	SUTANU NANDI (10PP15J26030) & 01.10.2021	Ram Rup Sarkar	"Development of machine learning strategies and integrated web platform for the prediction of essential genes"	CSIR-NCL, Pune
<b>238</b>	Nikita Rathore (10BB16A33002) & 06.10.2021	Amit Chawla	"Studies on adaptive responses of Rhododendron anthopogon to high altitude alpine environment of Himalaya"	CSIR-IHBT, Palampur

<b>239</b>	Sneha Singh (10BB14A26043) & 06.10.2021	Kiran Kulkarni	"Structural studies on sesquisabinene synthase 1: Enzyme involved in terpene biosynthesis pathway"	CSIR-NCL, Pune
<b>240</b>	Umar Ahmad Sheikh (10BB17A37012) & 06.10.2021	Sheikh Tasduq Abdullah	"Understanding the interplay of autophagy and DNA damage response mechanism in the regulation of ultraviolet- (B) –induced skin photodamage"	CSIR-IIIM, Jammu
<b>241</b>	Lingaraj A. Hadimani (20EE14A15006) & 06.10.2021	Neerja Garg	"Non-destructive quality evaluation of kinnow mandarins using visible imaging"	CSIR-CSIO, Chandigarh
<b>242</b>	Rajeev Dwivedi (10PP17J32005) & 21.10.2021	Parag Sharma	"Study of refractive axicon generated patterns for their potential applications"	CSIR-NPL, New Delhi
<b>243</b>	Sonam Perween (20EE15J32023) & 21.10.2021	Bhasker Gahtori	"Mn-based heusler and intermetallic alloys as hard magnet and magnetic refrigerant"	CSIR-NPL, New Delhi
<b>244</b>	Devi Prasanna Dash (10BB14A02012) & 21.10.2021	Debasis Dash	"Investigating protein folding capacity in laboratory evolved thermotolerant <i>S. cerevisiae</i> strains"	CSIR-IGIB, New Delhi
<b>245</b>	Nazir Ahmed Lone (10BB15J37003) & 21.10.2021	Sheikh Tasduq Abdullah	"Exploring the role of endoplasmic reticulum- stress mediated autophagy signalling axis in melanoma: Natural product based analogues as therapeutic agents"	CSIR-IIIM, Jammu
<b>246</b>	Sunita Munda (10BB16A38016) & 21.10.2021	Mohan Lal	"Genetic improvement of <i>Cymbopogon winterianus</i> through selection and mutation breeding"	CSIR-NEIST, Jorhat
<b>247</b>	Manabi Paw (10BB18A38010) & 21.10.2021	Mohan Lal	"Morphological and molecular characterization of <i>Curcuma</i> <i>caesia</i> Roxb.(kali haldi).endangered high value medicinal plant germplasm collected from different regions of India"	CSIR-NEIST, Jorhat
<b>248</b>	Yeeravalli Ragini (10BB15A18050) & 21.10.2021	Amitava Das	"TWIST1-mediated transcriptional regulation of PDGFR $\beta$ : An implication for breast cancer metastasis"	CSIR-IICT, Hyderabad
<b>249</b>	Maramraju Venkata Manasa (20EE15J18053) & 21.10.2021	G. Sarala Devi	"Semiconducting p-NiO/n- MoO <sub>3</sub> nanocomposite based green-house gas sensor"	CSIR-IICT, Hyderabad

<b>250</b>	Akshay Kulshrestha (10CC18J16002) & 21.10.2021	Arvind Kumar	"Studies on self-assembly behavior of metal based surface active ionic liquid and their applications"	CSIR-CSMCRI, Bhavnagar
<b>251</b>	Bolatito Eunice Olanipekun (10CC18J18001) & 21.10.2021	Mangala Gowri	"Novel isomeric corniculatolides, isoprenoids, phenolics from <i>Xylocarpus</i> & <i>ceriops</i> genera and some semi-synthetic arjunolic acid analogues as $\alpha$ -glucosidase inhibitors"	CSIR-IICT, Hyderabad
<b>252</b>	Sandip Pal (10CC18J16005) & 21.10.2021	Uma Chatterjee	"Preparation of ion exchange membranes with high electrochemical properties for various electro-membrane applications"	CSIR-CSMCRI, Bhavnagar
<b>253</b>	Vipendra Kumar Singh (10BB15J22010) & 21.10.2021	Yogeshwer Shukla	"To investigate the role of bisphenol A in prostate cancer metastasis"	CSIR-IITR, Lucknow
<b>254</b>	Ajay Dev (10PP16A28001) & 21.10.2021	M Ram Mohan	"Petrogenesis of granitoids from the singhbhum craton: Insights into paleoarchean geodynamics"	CSIR-NGRI, Hyderabad
<b>255</b>	Dipendu Patra (10CC17J17006) & 21.10.2021	Sanjay Dutta	"Design and synthesis of fluorescent quinoxaline molecules targeting nucleic acid"	CSIR-IICB, Kolkata
<b>256</b>	Neipihoi (10CC15A38004) & 21.10.2021	M J Bordoloi	"Chemical profiling and biological properties of the traditional medicinal plants ( <i>Croton caudatus</i> Gieseler and <i>Eurya acuminata</i> DC) used by the Kuki community of Manipur and Nagaland"	CSIR-NEIST, Jorhat
<b>257</b>	Rupali G. Kalshetti (10CC17J26013) & 21.10.2021	C.V. Ramana	"Early and late stage C-H activation protocols for bioactive molecules and direct conversion of stilbenes to diaryl- $\alpha$ - hydroxyacetaldehydes"	CSIR-NCL, Pune
<b>258</b>	T. Nandhini (10CC16J11001) & 21.10.2021	V.G. Vaidyanathan	"Interaction of Ru(II) polypyridyl complexes with arylamine-DNA adducts"	CSIR-CLRI, Chennai
<b>259</b>	Mili Pal (20EE17A27002) & 21.10.2021	Asifa Qureshi	"Exploring the effective mitigation options for freshwater Harmful Algal Blooms (HABs) of <i>Microcystis</i> <i>aeruginosa</i> "	CSIR-NEERI, Nagpur
<b>260</b>	Monali Mukherjee (10BB14A08001) & 21.10.2021	Praveena B. Mudliar	"Studies on biosensing of mycotoxins using oligonucleotides aptamers"	CSIR-CFTRI, Mysuru

<b>261</b>	Fadamoro Oluwafemi Festus (20EE16A14003) & 21.10.2021	Devesh Tiwari	"Performance evaluation of foam bitumen stabilization using warm RAP material and aggregates"	CSIR-CRRI, New Delhi
<b>262</b>	Rupali Mohanty (10PP16A28009) & 21.10.2021	P Senthil Kumar	"A study of boulder fall occurrences in orientale multi-ring basin: Implications for recent seismic shaking on the moon"	CSIR-NGRI, Hyderabad
<b>263</b>	Om Prakash (10BB15A08008) & 22.10.2021	V.B. Kudachikar	"Characterization of Kainth (Pyrus pashia Buch.-ham ex. D. Don) fruit for biofunctional property and its value addition"	CSIR-CFTRI, Mysuru
<b>264</b>	Supriya Sharma (10BB15A33004) & 26.10.2021	Damanpreet Singh	"Identification and validation of molecular targets for the management of seizure-associated cardiac complications in chronic epilepsy models"	CSIR-IHBT, Palampur
<b>265</b>	Himani Agrawal (10BB16A33003) & 26.10.2021	Mahesh Gupta	"Characterization of millets protein hydrolysates and peptides for functional food formulation"	CSIR-IHBT, Palampur
<b>266</b>	Meena Ghosh (10CC16J26013) & 26.10.2021	Sreekumar Kurungot	"Configuring post-lithium aqueous rechargeable zinc batteries using optimized electrolytes and electrode materials"	CSIR-NCL, Pune
<b>267</b>	Abhijit Bera (10CC14A26022) & 26.10.2021	B.L.V. Prasad	"Scalable synthesis of dispersible semiconducting metal chalcogenides nanocrystals and their application"	CSIR-NCL, Pune
<b>268</b>	Yerra Naga Veera (10CC17J18020) & 26.10.2021	T. Jagadeshwar Reddy	"Development of new matrices for MALDI and mass spectral studies on medicinally important compounds"	CSIR-IICT, Hyderabad
<b>269</b>	Govindaraj E (10BB15J08013) & 26.10.2021	Kunal Sharan	"Effects of maternal high protein diet in the programming of adult bone mass of the offspring"	CSIR-CFTRI, Mysuru
<b>270</b>	Haraprasad Mandal (10CC16A18011) & 28.10.2021	Prakriti Ranjan Bangal	"Probing ultrafast carrier dynamics at the interface of semiconductor nanocrystals"	CSIR-IICT, Hyderabad
<b>271</b>	Promiocharles. F (20EE14J24003) & 09.11.2021	S. Raja	"Aeroservoelastic system modelling with active control applications using experimental and theoretical methods"	CSIR-NAL, Bangalore

<b>272</b>	V.Venkata Ramana Kumar (10CC16A18041) & 09.11.2021	B. David Raju	"Development of titanate nanotubes based solid catalysts for fine chemical synthesis"	CSIR-IICT, Hyderabad
<b>273</b>	Sunil B. Aute (10CC13A26004) & 09.11.2021	Amitava Das	"Synthesis, characterization and photophysical studies of dyes molecule for dye sensitized solar applications"	CSIR-NCL, Pune
<b>274</b>	Sajitha Surendren (10CC14J39007) & 09.11.2021	Biswapriya Deb	"Vanadium oxide-based coatings for electrochromic and energy storage applications"	CSIR-NIIST, Thiruvananthapuram
<b>275</b>	Ashish Sharma (10CC15A26017) & 09.11.2021	Arup Kumar Rath	"Designing the hole transport layer for the development of perovskite and quantum dot solar cells"	CSIR-NCL, Pune
<b>276</b>	Hazeena S. H. (10BB15A39019) & 09.11.2021	Binod P.	"Improved bioprocess for the production of 2,3-Butanediol from agricultural and industrial residues"	CSIR-NIIST, Thiruvananthapuram
<b>277</b>	Sudhira Ranjan Bhadra (10PP15A29010) & 09.11.2021	Rajeev Saraswat	"Foraminiferal distribution and paleoclimatic reconstruction from the northeastern Indian Ocean"	CSIR-NIO, Goa
<b>278</b>	Shreya Alok bhai Bhatt (10CC15J16010) & 09.11.2021	Parimal Paul	"Synthesis of functionalized nanomaterials for application in sensing of toxic analytes"	CSIR-CSMCRI, Bhavnagar
<b>279</b>	Survi Mahesh (10BB13A03003) & 09.11.2021	Imran Siddiqi	"Understanding meiosis and its regulation in Arabidopsis thaliana: A novel DNA binding domain of DYAD gene is essential for Arabidopsis meiosis"	CSIR-CCMB, Hyderabad
<b>280</b>	Puttapaka Srinivas (10BB16J18026) & 09.11.2021	Shasi Vardhan Kalivendi	"Role of nitazoxanide and spautin-1 in the regulation of mitochondrial bioenergetics and Nurr1 activation: Implications for Parkinson's disease"	CSIR-IICT, Hyderabad
<b>281</b>	Singu Padma Suryanarayan (10CC17A18022) & 09.11.2021	Ravindra M. Kumbhare	"Design and synthesis of 2-mercapto-benzimidazole and thiazole derivatives as potential bioactive molecules"	CSIR-IICT, Hyderabad
<b>282</b>	Purva Deepak Bhandari (10BB14J02004) & 09.11.2021	Sheetal Gandotra	"Functional characterization of conserved patatin domain containing proteins from Mycobacterium tuberculosis and M. smegmatis"	CSIR-IGIB, New Delhi

<b>283</b>	Antim Kumar Maurya (10CC18J33009) & 10.11.2021	Vijai Kant Agnihotri	"Phytochemical investigation of Juniperus communis, Hedychium spicatum and Valeriana jatamansi from North-western Himalaya"	CSIR-IHBT, Palampur
<b>284</b>	V. Nagarjun Reddy (10CC17J18004) & 10.11.2021	S. Chandrasekhar	"Synthetic efforts towards C1-C35 fragment of Eribulin and development of new methodology towards alkaloid skeletons"	CSIR-IICT, Hyderabad
<b>285</b>	Nitesh Dhiman (10CC14A22010) & 10.11.2021	Satyakam Patnaik	"Design and synthesis of advanced hybrid nanomaterials for water decontamination"	CSIR-IITR, Lucknow
<b>286</b>	Aditya Kumar Kar (10CC15A22017) & 10.11.2021	Satyakam Patnaik	"Development of effective hydrogel systems for wound healing in normal and diabetic conditions"	CSIR-IITR, Lucknow
<b>287</b>	Thorat Sagar Sudam (10CC15A26003) & 10.11.2021	Ravindar Kontham	"Stereoselective total synthesis of yaoshanenolides, pleurospiroketals, and construction of fuopyranones through [3+2]-annulation of alkynols and $\alpha$ -ketoesters"	CSIR-NCL, Pune
<b>288</b>	Krishanu Samanta (10CC14A17011) & 10.11.2021	Ramalingam Natarajan	"Molecular self-assembly: Fluorescent cage, cocrystals and peptide aggregation"	CSIR-IICB, Kolkata
<b>289</b>	Athawale Paresh Ramesh (10CC17J26033) & 12.11.2021	D. Srinivasa Reddy	"Total synthesis guided structural revision of peribysin family natural products and development of novel method for enone transposition"	CSIR-NCL, Pune
<b>290</b>	Chandan (30EE15A41006) & 12.11.2021	Bala Pesala	"Compound parabolic concentrator based low concentrating photovoltaic thermal co-generation system"	CSIR-SERC, Chennai
<b>291</b>	Mowkshi Khullar (10BB15J37018) & 12.11.2021	Zabeer Ahmed	"The bioactivity of Colebrookea oppositifolia extract and its bioactive constituent, particularly against alcoholic hepatitis."	CSIR-IIIM, Jammu
<b>292</b>	Himadri Das (10BB14A38011) & 15.11.2021	Dipul Kalita	"Study on sustainable eco-friendly extraction processes natural fibres for industrial application"	CSIR-NEIST, Jorhat
<b>293</b>	Rupa Bhowmick (10BB17J26062) & 15.11.2021	Ram Rup Sarkar	"Deciphering the complexities in oncogenesis: An integrative approach to understand its adaptive phenotypes"	CSIR-NCL, Pune

<b>294</b>	Shubhadeep Adak (10CC15J19002) & 15.11.2021	Rajaram Bal	"Development of nanocatalysts for preferential oxidation (PROX) of carbon monoxide for practical use in fuel cells"	CSIR-IIP, Dehradun
<b>295</b>	Prantick Patra (10PP14A29005) & 15.11.2021	C. Mohandass	"Antioxidant enzymes in edible oyster <i>Saccostrea Cucullata</i> with special reference to their use as biomarker of coastal pollution"	CSIR-NIO, Goa
<b>296</b>	Shrishail Guggari (20EE16J24005) & 17.11.2021	Shrishail Guggari	"Analytical and computational investigation of thermal performance metrics: Application to CPU cooling in HPC servers"	CSIR-NAL, Bangalore
<b>297</b>	Latha M (10BB14A08024) & 17.11.2021	P. Vijayaraj	"Functional characterization of plant acyl-hydrolases and its significance in oil accumulation"	CSIR-CFTRI, Mysuru
<b>298</b>	Vereena Rodrigues (10BB15A10003) & 18.11.2021	V. Sundaresan	"Biotechnological interventions for conservation and modulation of 2-Hydroxy-4-methoxybenzaldehyde biosynthesis in <i>Decalepis salicifolia</i> , a RET plant"	CSIR-CIMAP, Lucknow
<b>299</b>	Dikki Pedelna Bomzan (10BB15A10011) & 18.11.2021	Dinesh A Nagegowda	"Decoding the role of genes related to geranylgeranylation in the modulation of alkaloid biosynthesis in <i>Catharanthus roseus</i> "	CSIR-CIMAP, Lucknow
<b>300</b>	RAJA R (10BB14J10001) & 18.11.2021	Vikrant Gupta	"Molecular cloning and studies on the isoprenoids pathway genes and gene regulatory components from <i>Azadirachta</i> and <i>Artemisia annua</i> "	CSIR-CIMAP, Lucknow
<b>301</b>	Raghvendra Dubey (10BB14A25006) & 30.11.2021	PA Shirke	"Physiological behavior of stomata toward exogenous and endogenous stimuli in cotton"	CSIR-NBRI, Lucknow
<b>302</b>	Shipra Jain (10PP16A32002) & 30.11.2021	C. Sharma	"Exploration of iron oxide based hydroelectric cell for green energy generation"	CSIR-NPL, New Delhi
<b>303</b>	Ujjwal Kumar Nandi (10PP17J26052) & 30.11.2021	Sarika Maitra Bhattacharyya	"Connecting real glasses to mean-field models: A study of structure, dynamics and thermodynamics"	CSIR-NCL, Pune
<b>304</b>	Lekha Dhote (20EE17A27001) & 30.11.2021	Sunil Kumar	"Sustainable utilization of distillery sludge as a low-	CSIR-NEERI, Nagpur

			grade fuel for energy generation"	
<b>305</b>	Aakansha Rai (10BB13A02001) & 30.11.2021	Soumya Sinha Roy	"Role of cystathionine-beta synthase (CBS) deficiency induced hyperhomocysteinemia in hypopigmentation"	CSIR-IGIB, New delhi
<b>306</b>	Swati Gupta (10BB16J25001) & 30.11.2021	Puneet S. Chauhan	"Unravel the mechanism(s) of PGPR mediated drought stress amelioration in Cicer arietinum L. by proteomics approach"	CSIR-NBRI, Lucknow
<b>307</b>	Hemant Bherwani (20EE18J27003) & 30.11.2021	Rakesh Kumar	"Integrated assessment and modelling of urban microclimate parameters for sustainable urban design"	CSIR-NEERI, Nagpur
<b>308</b>	Gollapelli Krishna Kumar (10CC17A18004) & 30.11.2021	Ch. Rambabu	"Transition metal catalyzed enantio & diastereoselective desymmetrization of prochiral molecules"	CSIR-IICT, Hyderabad
<b>309</b>	Gogu Venkata Surendra Babu (10CC16A18009) & 30.11.2021	T. Venkateswhar Rao	"Copper-catalyzed oxidations in synthesis of $\epsilon$ -caprolactams, ortho-halo 2-arylpyridines and metal-free cross-dehydrogenative coupling for 2-arylpyridines derivatives"	CSIR-IICT, Hyderabad
<b>310</b>	Santosh Kumar Beja (10PP14A28005) & 30.11.2021	Shakeel Ahmed	"Monthly scale paleoclimatic reconstruction from scleractinian corals of Lakshadweep Archipelago using isotopic and trace elemental proxies"	CSIR-NGRI, Hyderabad
<b>311</b>	Arpitha H S (10BB15J08011) & 30.11.2021	Ganesan P.	"A molecular mechanistic approach on the protective role of lutein against hyperglycemia-mediated oxidative stress in retinal pigment epithelial (RPE) cells"	CSIR-CFTRI, Mysuru
<b>312</b>	Anindita Mahapatra (10BB17A17002) & 30.11.2021	Krishnananda	"Biophysical investigations of the aggregation pathway of alpha-synuclein and its modulations by novel and repurposed molecules"	CSIR-IICB, Kolkata
<b>313</b>	Maruthapandian V. (10CC16A05002) & 07.12.2021	V. Saraswathy	"Non-noble metal based electrocatalysts for oxygen evolution reaction in alkaline medium"	CSIR-CECRI, Karaikudi
<b>314</b>	Sk Javed Miadad (20EE13A31005) & 07.12.2021	B. Ravi Kumar	"Study of annealing behaviour of formable grades of steel using custom designed annealing simulator"	CSIR-NML, Jamshedpur

<b>315</b>	Shaunak Anilkumar Burse (10BB15A02031) & 07.12.2021	Vivek T Natarajan	"Understanding the role of Myg1 exonuclease in nucleo-mitochondrial crosstalk and melanocyte homeostasis"	CSIR-IGIB, New Delhi
<b>316</b>	Pratibha Gautam (20EE17A27004) & 07.12.2021	Sunil Kumar	"Characterization and treatability study for landfill leachate and optimization of suitable treatment options using response surface methodology"	CSIR-NEERI, Nagpur
<b>317</b>	Vishal Das (10BB16A38019) & 07.12.2021	C Chikkaputtaiah	"Role of epithelial-mesenchymal transition (EMT) promoting transcription factors in ovarian cancer stem cells differentiation"	CSIR-NEIST, Jorhat
<b>318</b>	Rajesh K Dash (10PP16A01001) & 10.12.2021	D.P. Kanungo	"Debris flow hazard assessment in Garhwal Himalaya, India"	CSIR-CBRI, Roorkee
<b>319</b>	Lakhi Sharma (10PP16A32021) & 10.12.2021	Subhasis Panja	"Ion production and optical set-up for single Ytterbium ion trap experiment"	CSIR-NPL, New Delhi
<b>320</b>	Upasana Panda (10CC18J36009) & 10.12.2021	Trupti Das	"Chemical characterization & source identification of ambient aerosol at Bhubaneswar"	CSIR-IMMT, Bhubaneswar
<b>321</b>	Sandip Chakraborty (10CC17A39001) & 10.12.2021	A. Ajayaghosh	"Pyrylium and pyridinium fluorescent probes for pH sensing and imaging in live cells"	CSIR-NIIST, Thiruvananthapuram
<b>322</b>	Nimisha Sarah Mathew (10BB14A08026) & 10.12.2021	P S Negi	"Evaluation of in-vitro and in-vivo anti-proliferative potential of Ensete superbum Roxb. Cheesman (Wild banana)"	CSIR-CFTRI, Mysuru
<b>323</b>	Indukuri Divakar Reddy (10CC16A18013) & 10.12.2021	A. Manjula	"Novel synthetic strategies to access spiro and fused N-Heterocycles: Synthesis of spiroindolines, fused imidazopyridines and dihydropyrroles"	CSIR-IICT, Hyderabad
<b>324</b>	Karnakanti Dhanalaxmi (10CC16J18004) & 10.12.2021	John Mondal	"Synthesis, characterization and evaluation of novel porous organic polymer based nanocatalysts"	CSIR-IICT, Hyderabad
<b>325</b>	Mounica Jakkula (10PP15J28002) & 10.12.2021	Kirti Srivastava	"Modelling of tsunami induced forces on the puducherry coast"	CSIR-NGRI, Hyderabad
<b>326</b>	Puspita Barik (10PP15J27003) & 10.12.2021	K. Krishnamurthi	"Respiratory Health Impact caused by Air pollutants (PM10 and PM2.5)"	CSIR-NEERI, Nagpur

<b>327</b>	Syed Anees Ahmed (10BB18A04027) & 07.12.2021	Jiaur R Gayen	"Pharmacodynamic and pharmacokinetic evaluation of <i>Cissus quadrangularis</i> against cardiometabolic disorders"	CSIR-CDRI, Lucknow
<b>328</b>	Rekha Agarwal (20EE15J32024) & 15.12.2021	R.K. Kotnala	"Development of magnetic nanocomposite for reducing power losses in the transformer applications"	CSIR-NPL, New Delhi
<b>329</b>	Sukanya Borthakur (10CC17A38005) & 15.12.2021	L Saikia	"Graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> )-metal/metal oxide nanocomposites for detection and degradation of micropollutants in water"	CSIR-NEIST, Jorhat
<b>330</b>	Ravinder Guduru (10CC16A18034) & 15.12.2021	Galla V. Karunakar	"Gold-catalyzed synthesis of benzo-fused seven-membered oxo-heterocycles and rearrangement of post aryne-amine reaction adducts"	CSIR-IICT, Hyderabad
<b>331</b>	Ganesh P. (20EE15J41001) & 15.12.2021	A. Ramachandra Murthy	"Strengthening of RC beams with GGBS based ultra high performance concrete"	CSIR-SERC, Chennai
<b>332</b>	Anupam Biswas (10CC18A26001) & 15.12.2021	Durba Sengupta	"Synthetic control in low dimensional 'Pb' and 'Pb-free' perovskites for rationalizing the origin of their luminescence properties"	CSIR-NCL, Pune
<b>333</b>	Sourav Pal (10CC18A17009) & 15.12.2021	Arindam Talukdar	"Design and exploration of toll-like receptor 7 antagonists and topoisomerase I inhibitors"	CSIR-IICB, Kolkata
<b>334</b>	Nikhita R (10BB14A08027) & 15.12.2021	N M Sachindra	"Biochemical and functional properties of chicken blood and plasma protein isolates"	CSIR-CFTRI, Mysuru
<b>335</b>	Rashmirekha Samal (10CC13A36020) & 15.12.2021	Barsha Dash	"Cobalt oxide: Synthesis by chemical and electrochemical routes, physico-chemical and electrochemical characterization"	CSIR-IMMT, Bhubaneswar
<b>336</b>	S. Arun (10CC16J05006) & 15.12.2021	Sundar Mayavan	"Study of nanostructured materials as a negative electrode additive for lead-acid battery"	CSIR-CECRI, Karaikudi
<b>337</b>	Dhwani Dholakia (10BB14A02013) & 22.12.2021	Mitali Mukerji	"Understanding the complexity of HLA locus using Natural Language Processing and Genomics approach: An application for development of predictive genetic testing panel"	CSIR-IGIB, New Delhi

<b>338</b>	Bikash Sharma (10CC15A18002) & 22.12.2021	Rohit Kumar Rana	"Heterogenization of au-based colloids for application as catalysts in fine chemical synthesis and photo-assisted H <sub>2</sub> generation"	CSIR-IICT, Hyderabad
<b>339</b>	Ambaji Pawar (10CC14A26006) & 22.12.2021	S.P. Chavan	"Synthetic studies towards biotin, oxybiotin, $\alpha$ -lipoic acid and scalable synthesis of 3-ethyl-4-methyl- 1,5-dihydro-2H-pyrrole-2-one and development of synthetic methodologies."	CSIR-NCL, Pune
<b>340</b>	Divya Velayudhan V. V. (10CC15A39004) & 22.12.2021	Suresh C. S.	"Density functional theory studies on D- $\pi$ -A systems used in dye-sensitized solar cells: Donor-acceptor effect, spacer effect, and molecular design strategies"	CSIR-NIIST, Thiruvananthapuram
<b>341</b>	Deviprasad. R (10CC15A18058) & 22.12.2021	M. Mohana Reddy	"HRMS based analytical and metabolomics approaches to evaluate toxicity of contaminants in food, environmental and biological samples"	CSIR-IICT, Hyderabad
<b>342</b>	Divya Karade (10BB15J26034) & 22.12.2021	M Karthikeyan	"Chemoinformatics based investigation of plant metabolites for their medicinal and crop protection values"	CSIR-NCL, Pune
<b>343</b>	Sangita Kumari (10CC17J19007) & 22.12.2021	Om P. Khatri	"Development of two-dimensional layered nanomaterials for tribological applications"	CSIR-IIP, Dehradun
<b>344</b>	Aabha Satish Deshpande (10PP14A29001) & 22.12.2021	Narsinh Thakur	"Study of regeneration and chemical defence in marine sponge <i>Cinachyrella</i> cf. <i>cavernosa</i> "	CSIR-NIO, Goa
<b>345</b>	Nipa Basak (10BB14J03001) & 27.12.2021	K Thangaraj	"High altitude adaptation(s) in Tibetan population: Biochemical, epigenetic and genetic perspectives"	CSIR-CCMB, Hyderabad
<b>346</b>	Ramanand Yadav (10PP16A29004) & 27.12.2021	Sushant Naik	"Reconstruction of monsoon variability, associated upper water-column structure, productivity and carbonate content from the equatorial Indian ocean during the late quaternary"	CSIR-NIO, Goa
<b>347</b>	Rohit Rana (10CC16A33015) & 27.12.2021	Sushil Kumar Maurya	"Divergent approach for the synthesis of macrocycles"	CSIR-IHBT, Palampur

<b>348</b>	Digambar Kambale (10CC15J26018) & 27.12.2021	Ravindar Kontham	" $\pi$ -Activation triggered cascade annulation reactions of alkynols: application in construction of ketal-lactones related to bioactive natural products"	CSIR-NCL, Pune
<b>349</b>	Johnpaul K. P. (10CC16A39003) & 27.12.2021	Vijayakumar C.	"Bismuth halide perovskites: Tuning the optoelectronic properties using functional organic cations"	CSIR-NIIST, Thiruvananthapuram
<b>350</b>	Sowmya Shree G (10BB16A08011) & 28.12.2021	Ganesan P	"Studies on the molecular mechanism underlying the inhibitory potential of lutein on adipocyte differentiation in vitro and in vivo"	CSIR-CFTRI, Mysuru
<b>351</b>	Surbhi Lambhate (10BB16J18032) & 29.12.2021	Nishant Jain	"Regulation of IDH1 and IDH2 proteins by APC/C complex"	CSIR-IICT, Hyderabad
<b>352</b>	Vibha Shukla (10BB14J22006) & 29.12.2021	Anurag Tripathi	"Studies on the toxicity of anthraquinone (Emodin) present in Cassia occidentalis seeds"	CSIR-IITR, Lucknow
<b>353</b>	Saba Qureshi (10BB15J22006) & 29.12.2021	Ratan Singh Ray	"Ultraviolet-radiation induced phototoxicity mechanisms of non-steroidal anti-inflammatory drugs"	CSIR-IITR, Lucknow
<b>354</b>	Renuka (10BB15J22005) & 29.12.2021	Alok K Pandey	"Studies on toxicity of pesticides (difenoconazole, chlorpyrifos, butachlor) & their major metabolites using model organism Tetrahymena Pyriformis"	CSIR-IITR, Lucknow
<b>355</b>	Madiha Haider (10BB14A02020) & 30.12.2021	Mitali Mukerji	"Probing disease gene connectivity using multicomponent ayurvedic formulation"	CSIR-IGIB, New Delhi
<b>356</b>	Moloya Gogoi (10BB18A38015) & 30.12.2021	Rinku Baishya	"Assessment of nutritional, anti-oxidant, anti-inflammatory and anti-proliferative activities of a few minor fruits of North-East India"	CSIR-NEIST, Jorhat
<b>357</b>	Vidisha Bist (10BB17J25004) & 30.12.2021	Suchi Srivastava	"Characterization of microbial formulation for rice straw management"	CSIR-NBRI, Lucknow
<b>358</b>	Tirpude Narendra Vijay (10BB18J33005) & 30.12.2021	Vishal Acharya	"Vitex negundo Linn. for nutraceutical intervention of allergic asthma: Molecular insights on inflammation"	CSIR-IHBT, Palampur

			associated lung damage and underlying mechanism(s)"	
<b>359</b>	Ramesha R N (10CC15J05004) & 30.12.2021	K Ramesha	"Lithium-rich layered oxides as high capacity cathode materials for lithium-ion batteries"	CSIR-CECRI, Karaikudi
<b>360</b>	Bommana Raghunath Reddy (10BB15A18039) & 07.01.2022	Sumana Chakravarty	"Chronic stress-induced mood disorders and associated changes in the specific brain regions of the adult zebrafish"	CSIR-IICT, Hyderabad
<b>361</b>	Dhanya M. (10BB16J39008) & 07.01.2022	Madhavan Nampoothiri K.	"Design and fabrication of drug delivery carriers and scaffolds based on PLA and PHB copolymers"	CSIR-NIIST, Thiruvananthapuram
<b>362</b>	Gajaria Tejal Kanaiyalal (10BB16J16004) & 07.01.2022	Vaibhav Mantri	"Study of bioactive peptides from selected tropical seaweeds"	CSIR-CSMCRI, Bhavnagar
<b>363</b>	Niteen Patil (10CC17J26004) & 07.01.2022	Subhash P. Chavan	"Synthetic studies towards quinagolide, 3-ethyl-4-methyl-1,5-dihydro-2H-pyrrol-2-one and continuous flow synthesis of Miltefosine"	CSIR-NCL, Pune
<b>364</b>	Shuhailath K. A. (10CC14J39009) & 07.01.2022	Ananthakumar S.	"Investigations on inorganic-organic hybrid nanomaterials from boehmite [AlOOH] gels for multifunctional applications"	CSIR-NIIST, Thiruvananthapuram
<b>365</b>	Shikha Dubey (10BB15A04007) & 07.01.2022	Ravishankar Ramachandran	"Structural and functional studies of selected regulatory and metabolic proteins of Mycobacterium tuberculosis"	CSIR-CDRI, Lucknow
<b>366</b>	Mahendra Pawar (10PP17A26044) & 07.01.2022	T. G. Ajithkumar	"Growth of two dimensional (2d) materials and its applications in nanoelectronic devices"	CSIR-NCL, Pune
<b>367</b>	Sumita Chakraborty (10BB13A02016) & 07.01.2022	Mitali Mukerji	"Elucidation of inter-individual variability in cell cycle: studies in extreme constitution types of Ayurveda"	CSIR-IGIB, New Delhi
<b>368</b>	Ankit Kumar Dhiman (10CC18A33022) & 07.01.2022	Upendra Sharma	"Development of methodologies for the synthesis of N-heterocyclic derivatives through C-H bond functionalization"	CSIR-IHBT, Palampur
<b>369</b>	Bankar Balasaheb Dnyandeo (10CC16A16006) & 07.01.2022	Ankush V. Biradar	"Studies on metal oxide based heterogeneous catalyst for fine chemicals synthesis"	CSIR-CSMCRI, Bhavnagar

<b>370</b>	Bhalani Dixit Vinubhai (10CC17A16004) & 07.01.2022	Suresh Kumar Jewrajka	"Hydrophilic and amphiphilic poly(vinylidene fluoride) blend ultrafiltration membranes with enhanced antifouling property"	CSIR-CSMCRI, Bhavnagar
<b>371</b>	Peddasthanaiah Ette (10CC15A05006) & 07.01.2022	K. Ramesha	"Development of high capacity nanoarchitecture anode materials for Li-Ion batteries"	CSIR-CECRI, Karaikudi
<b>372</b>	Shubham Singhal (20EE18A01001) & 07.01.2022	Ajay Chourasia	"Performance evaluation of precast reinforced concrete structural systems subjected to cyclic loading"	CSIR-CBRI, Roorkee
<b>373</b>	Janhavi P (10BB16J08008) & 12.01.2022	S P Muthukumar	"Studies on the sour mangosteen (Garcinia xanthochymus) bioactives and their modulatory effects in diet induced hyperglycaemic mice model"	CSIR-CFTRI, Mysuru
<b>374</b>	Sangaraju Rajendra (10BB16A18068) & 12.01.2022	S. Ramakrishna	"Evaluation of galangin against inflammatory diseases by targeting oxidative stress and inflammation in murine models"	CSIR-IICT, Hyderabad
<b>375</b>	Neakanshika Chadha (10CC16J32011) & 17.01.2022	Parveen Saini	"Graphene based porous materials for energy and electronic applications"	CSIR-NPL, New Delhi
<b>376</b>	Sakpal Sushil Suresh (10CC16A26019) & 17.01.2022	Sayan Bagchi	"Spectroscopic investigation of molecular probes"	CSIR-NCL, Pune
<b>377</b>	Aamir Rashid Chowdhary (20EE18A14006) & 17.01.2022	Nasim Akhtar	"Estimation and control of structural vibration in tunnel for low speed metro line"	CSIR-CRRI, New Delhi
<b>378</b>	Jadhav Uma Arjun (10BB15J26037) & 17.01.2022	Narendra Kadoo	"Analysis of the molecular response of thompson seedless grapes to GA3 treatment"	CSIR-NCL, Pune
<b>379</b>	Pisal Mahesh Madanrao (10CC17A26006) & 17.01.2022	Subhash P. Chavan	"Synthesis and biological evaluation of thienopyrimidinone- containing compounds as antitubercular and anticancer agents, novel dicyanoanilines as cell imaging agents and studies towards the total synthesis of quinagolide"	CSIR-NCL, Pune
<b>380</b>	Deshmukh Gunvant Rajkumar (10CC15A26028) & 17.01.2022	K. Krishnamoorthy	"Hydrogen bond comprising small molecules and polymers for the self-assembly and electronic device"	CSIR-NCL, Pune

<b>381</b>	Nandan Kumar (10BB15A18051) & 17.01.2022	G. Narahari Sastry	"Ion interaction with small molecules, water and biomolecules: A computational and informatics study"	CSIR-IICT, Hyderabad
<b>382</b>	Yennamaneni Divya Rohini (10CC18A18041) & 17.01.2022	N. Narender	"Sustainable solvent-free strategies for the construction of C-C and C-N bond reactions"	CSIR-IICT, Hyderabad
<b>383</b>	Asish Kumar Singh (2 0EE15A06004) & 20.01.2022	Ranjan Barik	"Study & development of high current density electron emitters for high power and high frequency vacuum electron devices (VEDs)"	CSIR-CEERI, Pilani
<b>384</b>	Santhi S. (10CC15J39003) & 20.01.2022	Radhakrishnan K.V.	"Chemoprofiling and biological screening of selected medicinal plants"	CSIR-NIIST, Thiruvananthapuram
<b>385</b>	Neethu S. (10CC16J39004) & 20.01.2022	Radhakrishnan K.V.	"Exploration of bioactives from rare and endemic species of western ghats for the development of potential drug lead against infectious and lifestyle diseases"	CSIR-NIIST, Thiruvananthapuram
<b>386</b>	Chakali Madhu (10CC15A18056) & 20.01.2022	Prakriti Ranjan Bangal	"Charge transfer dynamics of organic functional materials towards OLED and OPV applications"	CSIR-IICT, Hyderabad
<b>387</b>	Poornima R. Rangnathan (10BB15J10007) & 20.01.2022	Venkata Rao, D.K.	"Role of altered lipid metabolism in the regulation of ergosterol biosynthesis and its application for enhanced production of medicinally important triterpenoids in yeast"	CSIR-CIMAP, Lucknow
<b>388</b>	V Devi Prasad (10BB13A03001) & 31.01.2022	Tushar Vaidya	"Analysis of immune memory in B lymphocytes"	CSIR-CCMB, Hyderabad
<b>389</b>	Devendra sethi (10PP15J32010) & 31.01.2022	Chhemendra Sharma	"Physical properties of aerosols in different environments"	CSIR-NPL, New Delhi
<b>390</b>	Kaushal Kishore (32EE14A06002) & 31.01.2022	S.A. Akbar	"Tunable auto-balancing instrumentation for sensor interface"	CSIR-CEERI, Pilani
<b>391</b>	Chhavi Dawar (10BB15A03001) & 31.01.2022	Puran Singh Sijwali	"De novo transcriptome analysis of embryonic GAM and Brain tissues of Indian Mugger: search for candidate gene(s) having putative role in temperature-dependent sex determination"	CSIR-CCMB, Hyderabad

<b>392</b>	Sameer Ahmad Mir (10BB15J37017) & 31.01.2022	Fayaz Ahmad Malik	"Identification of novel stem cell modulator for its potential implication in drug resistant triple-negative breast cancer"	CSIR-IIIM, Jammu
<b>393</b>	Swapna Sasi. U.S (10BB16A39016) & 31.01.2022	Raghu K.G.	"In vitro based mechanistic study on the role of fructose and palmitate in the genesis of steatosis in HepG2 cell line"	CSIR-NIIST, Thiruvananthapuram
<b>394</b>	Chegu Krishnamurthi Madhubalaji (20EE17A08018) & 31.01.2022	Sandeep N Mudliar	"Studies on microalgae-bacterial association for biomass production, metabolites and its bioavailability"	CSIR-CFTRI, Mysuru
<b>395</b>	Jayati Trivedi (20EE14A19003) & 31.01.2022	Deepti Agrawal	"Photobioreactor studies of Scenedesmus obliquus for growth and lipid production"	CSIR-IIP, Dehradun
<b>396</b>	Richa Pahuja (10BC14A02024) & 31.01.2022	Pradeep Kumar	"Design and development of polymeric nano-therapeutics for parkinsonian brain"	CSIR-IGIB, New Delhi
<b>397</b>	Peddakasu Gangabhavani (10CC16J18018) & 31.01.2022	A. Venugopal	"Conversion of biomass derived levulinic acid over TiO <sub>2</sub> supported metal catalysts: Investigation by adsorption and spectroscopic techniques"	CSIR-IICT, Hyderabad
<b>398</b>	Abdul Motlab (10CC16J26007) & 31.01.2022	Pradip Maity	"Organocatalyzed synthesis of regio- and stereoselective heterocycles via functionalization of (unsubstituted) N-heteroaromatics and carbocyclization of propargyl ethers"	CSIR-NCL, Pune
<b>399</b>	Vinayashree S (10BB15A08006) & 07.02.2022	Prasanna Vasu	"Biochemical and functional characterization of proteins from pumpkin Seeds (Cucurbita sps.) and its implications to cancer and diabetes"	CSIR-CFTRI, Mysuru
<b>400</b>	Deepak Sharma (20EE17J32023) & 07.02.2022	V.P.S. Awana	"Growth and characterization of pure and doped mixed topological insulator crystals"	CSIR-NPL, New Delhi
<b>401</b>	Archana Katoch (10BB15A37002) & 07.02.2022	Anindya Goswami	"Explicating the role of small molecule inducer of tumor suppressor, Par-4, in controlling EMT/metastasis and, thereof, validation by relevant in vitro and in vivo models"	CSIR-IIIM, Jammu

<b>402</b>	Mohammad Shafiq (10BB15A04005) & 07.02.2022	Kashif Hanif	"Role of mitogen activated protein kinase (MAPK)-activated protein kinase 2 (MK2) in pulmonary hypertension"	CSIR-CDRI, Lucknow
<b>403</b>	Yogalakshmi (32EE16A41001) & 07.02.2022	K. Balaji Rao	"Stochastic service life prediction of RC girders subjected to chloride induced corrosion – Shear limit state"	CSIR-SERC, Chennai
<b>404</b>	ARYA V. B (10PP14A45001) & 07.02.2022	Sajani Surendran	"The impact of regional aerosols on Indian summer monsoon rainfall and variability"	CSIR-4PI, Bangalore
<b>405</b>	Sakthi Prasad S (30EE15A09002) & 07.02.2022	Kaushik Biswas	"Formulation and development of thermally stable boron and fluorine incorporated antibacterial bioactive glasses"	CSIR-CGCRI, Kolkata
<b>406</b>	Shaifali (10CC16A33017) & 07.02.2022	Pralay Das	"Methodology development for carbonylative cross-coupling reactions using oxalic acid as C1 source"	CSIR-IHBT, Palampur
<b>407</b>	Pankaj K. Prajapati (10CC16A19004) & 07.02.2022	Suman L. Jain	"Transformation of CO <sub>2</sub> into high-value chemicals using hybrid semiconducting materials"	CSIR-IIP, Dehradun
<b>408</b>	Dhote Pawan Surendra (10CC17A26015) & 09.02.2022	C.V. Ramana	"Internal nitro-/azidoalkyne redox processes in heterocyclic synthesis and metal free mcmurry type coupling"	CSIR-NCL, Pune
<b>409</b>	Indrani Nandi (10BB16A17003) & 09.02.2022	Krishnananda Chattopadhyay	"Biophysical investigation of protein-metal nanocluster interactions"	CSIR-IICB, Kolkata
<b>410</b>	Aswathy K. (10PP15A39015) & 09.02.2022	Manoj Raama Varma	"Investigation on magnetic, transport and magnetotransport properties of RE <sub>2</sub> BmO <sub>6</sub> perovskites (RE=Pr, Nd and Sm; B= Cr, Fe, and Cu)"	CSIR-NIIST, Thiruvananthapuram
<b>411</b>	Digvijay Singh (10BB16A18057) & 09.02.2022	Amitava Das	"SNAI1-mediated transcriptional regulation of unique epithelial-to-mesenchymal transition genes potentiates aggressive phenotypes in breast cancer stem cells"	CSIR-IICT, Hyderabad
<b>412</b>	Abhishek Shrikrishna Khapre (20EE17A27006) & 09.02.2022	Sunil Kumar	"Design of phytocap system for sustainable management of landfills"	CSIR-NEERI, Nagpur

<b>413</b>	Ramit Kumar Mondal (20EE16A06003) & 09.02.2022	Suchandan Pal	"Design and fabrication of AlGaIn based deep ultraviolet light emitting diodes"	CSIR-CEERI, Pilani
<b>414</b>	Kapil Mandrah (10CC15A22019) & 09.02.2022	Somendu Roy	"Development of DLLME-SFO-IPS based method for simultaneous analysis of bisphenols in beverages and in vivo evaluation of the metabolomic perturbation promoted by selected bisphenols using gas chromatography-mass spectrometry"	CSIR-IITR, Lucknow
<b>415</b>	Kanchan Sambhwani (10BB16A16010) & 09.02.2022	Vaibhav Mantri	"Biochemical and molecular characterization of sulphated polysaccharide yielding red seaweed"	CSIR-CSMCRI, Bhavnagar
<b>416</b>	Manoj semwal (10BB16A10008) & 11.02.2022	Rajesh Kumar Verma	"Application of remote sensing technologies for precision agriculture in menthol mint ( <i>Mentha arvensis</i> L.)"	CSIR-CIMAP, Lucknow
<b>417</b>	Washim Reza Ali (20EE18A06013) & 11.02.2022	Mahanth Prasad	"Piezoelectric based MEMS acoustic sensor for high SPL and wide frequency applications"	CSIR-CEERI, Pilani
<b>418</b>	Viney (20EE16A15003) & 14.02.2022	Prasant K. Mahapatra	"Diagnosis and assessment of musculoskeletal injuries using thermography"	CSIR-CSIO, Chandigarh
<b>419</b>	Jaya lakshmi nagam (20EE15J24001) & 14.02.2022	G.K. Singh	"Reliable fault identification for real time flight controller reconfiguration"	CSIR-NAL, Bangalore
<b>420</b>	Charul Rajput (10BB15A22004) & 14.02.2022	M P Singh	"Role of peroxiredoxin-3 in cypermethrin-induced Parkinsonism"	CSIR-IITR, Lucknow
<b>421</b>	Anil Kumar Singh (10BB15A22001) & 14.02.2022	Abhay Raj	"In silico approach to identify bacterial Lignin peroxidase (LiP) for sustainable mitigation of lignin derivatives from paper mills wastewater"	CSIR-IITR, Lucknow
<b>422</b>	Sahiba Bano (10PP17J32007) & 16.02.2022	S.P. Singh	"Study on structural, thermal and electronic transport properties of synthesized Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectric materials"	CSIR-NPL, New Delhi
<b>423</b>	Krishnakumari Pamula (10CC17J18022) & 16.02.2022	N. Lingaiah	"Catalytic valorization of biomass to fine chemicals and fuel additives"	CSIR-IICT, Hyderabad

<b>424</b>	Anupam Tripathi (10CC15A26009) & 16.02.2022	Subhash P. Chavan	"An approach toward the total synthesis of biologically active molecules (D2 receptor agonist quinagolide and antidiuretic drug sitagliptin) & synthesis of heterocyclic building block and novel triazole methodology"	CSIR-NCL, Pune
<b>425</b>	Kumud Sharma (10CC16A38007) & 16.02.2022	Pranjal Gogoi	"Development of new C-C bond forming reactions and synthesis of pyrrolo-fused-quinoline and coumarin derivatives"	CSIR-NEIST, Jorhat
<b>426</b>	Harmeet Kaur (20EE16A15008) & 18.02.2022	Amit L. Sharma	"Luminescent metal-organic frameworks and their composites for light emitting device applications"	CSIR-CSIO, Chandigarh
<b>427</b>	G. Ellamparuthy (20EE13A36002) & 18.02.2022	Shivakumar Angadi	"Studies on mechanical separation and hydrometallurgical extraction of metal values from end-of-life printed circuit boards"	CSIR-IMMT, Bhubaneswar
<b>428</b>	Vallamkondu Manasa (10BB17A08010) & 18.02.2022	Ajay Wamanrao Tumaney	"Isolation and characterization of fixed oil from selected spices and its role in addressing lipid metabolism-related disorder"	CSIR-CFTRI, Mysuru
<b>429</b>	Kunde Pushkar Dnyaneshwar (10CC11J26031) & 24.02.2022	S.P. Kamble	"Studies in QSAR modelling for selection of potential inhibitors for drug discovery"	CSIR-NCL, Pune
<b>430</b>	Punamshree Das (10CC18A38004) & 24.02.2022	M R Das	"Plasmonic nanoparticles decorated on 2D nanosheets as efficient nanozyme and their applications"	CSIR-NEIST, Jorhat
<b>431</b>	Sayantana Paul (10CC14A26012) & 24.02.2022	Asish Kumar Bhattacharya	"Approaches towards the synthesis of C-13 arylated artemisinin from artemisinic acid via C(sp <sup>2</sup> )-H and C(sp <sup>3</sup> )-H functionalization; Hydroxyl assisted transition metal free C(sp <sup>2</sup> )-H functionalization and biodynamics from Artocarpus heterophyllus and Aspergillus niger"	CSIR-NCL, Pune
<b>432</b>	Mohammad Fareed Khan (10BB16J22002) & 24.02.2022	Poonam Kakkar	"Studies on endoplasmic reticulum stress induced unfolded protein responses during hyperglycemic nephrotoxicity"	CSIR-IITR, Lucknow

<b>433</b>	Patil Shivprasad Suresh (10BB18A33005) & 24.02.2022	Upendra Sharma	"Phytochemical and pharmacological investigation of Trillium govanianum wall. ex D.don for steroidal saponins"	CSIR-IHBT, Palampur
<b>434</b>	Vishal Shrivastav (10PP17A15002) & 24.02.2022	Umesh Kumar Tiwari	"Metal organic frameworks derived nanostructures and their composites for hybrid energy storage devices"	CSIR-CSIO, Chandigarh
<b>435</b>	Sarita Singh (10CC18J10013) & 25.02.2022	Atul Gupta	"Structural modifications of flavonoids for evaluation of their pharmacological activity"	CSIR-CIMAP, Lucknow
<b>436</b>	Parnapalle Ravi (10CC18A05003) & 25.02.2022	M. Sathish	"Design and development of nanocomposite materials for photocatalytic hydrogen production"	CSIR-CECRI, Karaikudi
<b>437</b>	Abhishek Kumar Gupta (10PP18A28024) & 02.03.2022	Prantik Mandal	"Source process modeling and crust-mantle structure in Uttarakhand Himalaya, and a few regions of NW, northern and eastern parts of India"	CSIR-NGRI, Hyderabad
<b>438</b>	Bhatt Kavya Sridhar (10BB14A08006) & 02.03.2022	Sachin M. Eligar	"Characterization of quercetin glycoside from leaves of Trigonella foenum-graecum L. for its anti-inflammatory property in vitro and in vivo"	CSIR-CFTRI, Mysuru
<b>439</b>	Ranjana Sharma (10CC17J33013) & 02.03.2022	Dinesh Kumar	"Phytochemical and value addition studies of unexplored commercially important parts of Camellia sinensis (L.) O. Kuntze"	CSIR-IHBT, Palampur
<b>440</b>	Sandeep Singhai (20EE14A15009) & 02.03.2022	H K Sardana	"A study of technology transfer from public-funded laboratories to manufacturing industries and their impact"	CSIR-CSIO, Chandigarh
<b>441</b>	Mane Maya Balasaheb (20EE17J26065) & 02.03.2022	V.M. Bhandari	"Studies in newer methodologies and materials/ material modifications for environmental, pollution control applications specifically for water treatment and desulfurization"	CSIR-NCL, Pune
<b>442</b>	Rahul Kumar (10CC17A16006) & 02.03.2022	S Adimurthy	"Selective functionalization of imidazo[1,2-a] pyridines and their analogues"	CSIR-CSMCRI, Bhavnagar
<b>443</b>	Chandan Kumar Mishra (10PP14A29007) & 02.03.2022	Pawan Dewangan	"Formation and distribution of gas hydrate deposits in the Krishna-Godavari and Cauvery-Mannar basins"	CSIR-NIO, Goa

<b>444</b>	Ambika Bawa (10PP16A32004) & 02.03.2022	Rajesh	"Dynamical studies of helical structure in ferroelectric liquid crystals"	CSIR-NPL, New Delhi
<b>445</b>	Akanksha (10PP14A27001) & 03.03.2022	Krishna Khairnar	"Isolation and characterization of bacteriophages against methicillin-resistant Staphylococcus aureus isolates from wastewater"	CSIR-NEERI, Nagpur
<b>446</b>	Debanjan Bhattacharjee (10BB17J18044) & 03.03.2022	Nishant Jain	"Understanding the mechanism of mutant IDH1 inhibitors induced oncogene activation"	CSIR-IICT, Hyderabad
<b>447</b>	Sravanthi Vemireddy (10BB16A18071) & 03.03.2022	H.M. Sampath Kumar	"Mucosal nanoformulations with TLR agonists as adjuvants for dengue prophylaxis"	CSIR-IICT, Hyderabad
<b>448</b>	Suresh Babu G N (20EE15A05007) & 03.03.2022	N. Kalaiselvi	"Futuristic anode materials for energy storage applications"	CSIR-CECRI, Karaikudi
<b>449</b>	Davuluri Syam Babu (20EE18A27006) & 03.03.2022	P.V. Nidheesh	"Treatment of arsenite contaminated water by various electrochemical techniques"	CSIR-NEERI, Nagpur
<b>450</b>	Ritesh Kumar Gupta (20EE15A35006) & 03.03.2022	S.A.R. Hashmi	"Development of carbon nanotube and graphene reinforced shape memory polymer composites"	CSIR-AMPRI, Bhopal
<b>451</b>	Sibadatta Senapati (10CC17J26040) & 03.03.2022	C.V. Ramana	"A chiral pool approach for the total synthesis of bis-THF C15 acetogenins - notoryne, laurefurenynes A/B, laurendecumenyne B and a chloroenyne from Laurencia majuscula, and Synthesis of C14 to C29 fragment of eribulin"	CSIR-NCL, Pune
<b>452</b>	Nitai Sarkar (10CC15A26008) & 03.03.2022	S. Shashidhar	"Preparation of chiral myo-inositol derivative and their conversion to natural product/analogs"	CSIR-NCL, Pune
<b>453</b>	Rupanawar Bapurao (10CC16A26002) & 03.03.2022	Gurunath Suryavanshi	"Enantioselective synthesis of glucosylceramide inhibitor by aminolytic kinetic resolution and development of synthetic methodologies for C-C, C-O bond formation reactions involving acid and hypervalent iodine reagents"	CSIR-NCL, Pune
<b>454</b>	Venkadesh A (10CC18J05004) & 04.03.2022	S. Radhakrishnan	"Studies on the synthesis of transition metal based nanostructures and their application towards electrochemical food"	CSIR-CECRI, Karaikudi

			adulteration and additives detection"	
<b>455</b>	Shruti Sharma (10CC16A33018) & 04.03.2022	Dinesh Kumar	"Exploration of Polygonatum verticillatum for its chemistry and therapeutic potential"	CSIR-IHBT, Palampur
<b>456</b>	Rajeev V. R. (10PP14A39011) & 11.03.2022	Narayanan Unni K.N.	"Optimization of gate dielectrics and process parameters for organic field-effect transistors with enhanced performance"	CSIR-NIIST, Thiruvananthapuram
<b>457</b>	Virender Singh (20EE16J15003) & 11.03.2022	Sunita Mishra	"Analysis and development of MEMS based high-g acceleration threshold switch"	CSIR-CSIO, Chandigarh
<b>458</b>	Nalini Pareek (32EE14A06013) & 11.03.2022	Anirban Bera	"Study of surface plasmonic for THz generation"	CSIR-CEERI, Pilani
<b>459</b>	Neethu Emmanuel (20EE18J39008) & 11.03.2022	Yoosaf Karuvath	"Design and development of pectrophotometric systems for fast detection and quantification of analytes"	CSIR-NIIST, Thiruvananthapuram
<b>460</b>	Ashish Kumar Sonker (10BB15A22003) & 11.03.2022	Sheelendra Pratap Singh	"Toxicokinetic and metabolism of bisphenol-S and its conjugate metabolites in neonatal and adult rats using hyphenated mass spectrometry"	CSIR-IITR, Lucknow
<b>461</b>	Ashish Kumar (10PP16A32014) & 11.03.2022	Ritu Srivastava	"Synthesis and characterization of organic-inorganic lead halide and lead-free double perovskite-based materials for energy conversion devices"	CSIR-NPL, New Delhi
<b>462</b>	Girija Shankar Papnai (10PP17J32009) & 11.03.2022	Bipin Kumar Gupta	"Investigations on the synthesis, characterization and spectroscopic studies of 2D materials: (a) Graphene (b) MoS <sub>2</sub> (c) WSe <sub>2</sub> (d) MoSe <sub>2</sub> "	CSIR-NPL, New Delhi
<b>463</b>	Swati Chaturvedi (10BB18A04026) & 11.03.2022	Wahajuddin	"Exploring the mechanistic role of inflammasomes and ABC transporters in the pharmacokinetics and pharmacodynamics of Isoformononetin across the blood brain barrier"	CSIR-CDRI, Lucknow
<b>464</b>	Sandeep Kumar Singh (10BB17A04032) & 11.03.2022	Wahajuddin	"Preclinical pharmacokinetics characterization of a potential neuroprotective phytochemical Withanone using LC-MS/MS system: Its human pharmacokinetics"	CSIR-CDRI, Lucknow

			prediction based on allometry concept"	
<b>465</b>	Monalisa Mohanty (10BB14J36009) & 11.03.2022	B.S. Jena	"Characterization and biological activities of biogenic silver nanoparticles synthesized by using bark extract of Terminalia arjuna, Terminalia bellerica and Peltophorum pterocarpum"	CSIR-IMMT, Bhubaneswar
<b>466</b>	Monika Malik (10CC14A26020) & 14.03.2022	Pankaj Poddar	"Study of the effect of phase and morphology on the optical properties of lanthanide ion-doped phosphors and their applications"	CSIR-NCL, Pune
<b>467</b>	Thonda V S S Swaroop (10BB16A18074) & 14.03.2022	Shasi V. Kalivendi	"Elucidating the roles of $\alpha$ -synuclein and ADAM10 in the pathophysiology of Alzheimer's disease"	CSIR-IICT, Hyderabad
<b>468</b>	Hingamire Tejashri Bhimashankar (10BB16J26023) & 14.03.2022	Dhanasekaran Shanmugam	"Studies on novel inhibitors, target validation and resistance mechanism in apicomplexan parasites"	CSIR-NCL, Pune
<b>469</b>	Paliwal Avinash Subhash (10PP17J06001) & 16.03.2022	Manish Mathew	"Design and development of InGaN based laser diodes"	CSIR-CEERI, Pilani
<b>470</b>	Pulak Sarkar (10CC18A16004) & 23.03.2022	Santanu Karan	"Ultrathin polymer nanofilms for ionic and molecular separations"	CSIR-CSMCRI, Bhavnagar
<b>471</b>	Ahmed Mobeen (10BB14A02003) & 24.03.2022	Srinivasan Ramachandran	"Integrated pathway modeling of insulin resistance and associated metabolic inflammation"	CSIR-IGIB, New Delhi
<b>472</b>	Vemula Madhu (10CC17J18036) & 24.03.2022	UVR Vijaya Sarathi	"Studies on variations in chemical changes in sapota fruits due to artificial ripening and identification of residues of artificial ripeners"	CSIR-IICT, Hyderabad
<b>473</b>	Kandula Manasa (10CC17J18027) & 24.03.2022	Venugopal Akula	"Evaluation of rice husk derived siliceous supports for Ni catalysts in the non-oxidative cracking of CH <sub>4</sub> for pure H <sub>2</sub> production"	CSIR-IICT, Hyderabad
<b>474</b>	Makani Venkata Krishna Kanth (10BB18A18067) & 24.03.2022	Manikapal Bhadra	"Role of BORIS/CTCF in TGF $\beta$ signalling and ROS regulation in neuroblastoma"	CSIR-IICT, Hyderabad

<b>475</b>	Mayuri Mukherjee (10BB15A17001) & 24.03.2022	Sucheta Tripathy	"A multiomics approach to explore novel therapeutic & energy compound production from indigenous cyanobacteria"	CSIR-IICB, Kolkata
<b>476</b>	Zahid Yaqoob Bhat (10BB16A37010) & 24.03.2022	Nasheeman Ashraf	"Cloning and characterization of MYB transcription factors involved in regulation of secondary metabolism in <i>Crocus sativus</i> L"	CSIR-IIIM, Jammu
<b>477</b>	Sabeena Ali (10BB16J37001) & 24.03.2022	Qazi Parvaiz Hassan	"Assessment of genetic diversity and chemoprofiling in selected species of <i>Aconitum</i> from North-Western Himalaya"	CSIR-IIIM, Jammu
<b>478</b>	Nasreen Bano (10BB17J25007) & 24.03.2022	Sumit Kumar Bag	"Transcriptome meta-analysis and genome-wide identification of Tubby-like protein (TLP) gene family in <i>Gossypium</i> species"	CSIR-NBRI, Lucknow
<b>479</b>	Naveen Prakash Bokoliya (10BB15J37013) & 24.03.2022	Saurabh Saran	"Regulation of gene expression by noncoding RNA element in <i>Mycobacterium tuberculosis</i> H37Rv"	CSIR-IIIM, Jammu
<b>480</b>	Rakhi Paul (10CC15A38002) & 24.03.2022	L. Saikia	"Biological activity of metal, metal oxide nanoparticles stabilized on <i>Ocimum sanctum</i> leaf extract and certain (P,S) donor ligands"	CSIR-NEIST, Jorhat
<b>481</b>	Nishtha Mishra (10BB15J25002) & 24.03.2022	Aradhana Mishra	"Deciphering the interaction strategies of rice and <i>Trichoderma</i> under elevated CO <sub>2</sub> condition"	CSIR-NBRI, Lucknow
<b>482</b>	Emmanuel Joseph (20EE16A26034) & 24.03.2022	Anuya Nisal	"Design and development of biocompatible silk fibroin coatings for breast implant applications"	CSIR-NCL, Pune
<b>483</b>	Deependra Rajoriya (20EE15A08013) & 24.03.2022	H. Umesh Hebbar	"Infrared assisted refractance window drying of fruits-apple and banana"	CSIR-CFTRI, Mysuru
<b>484</b>	Debiparna De (20EE18A18049) & 24.03.2022	Satyavathi Bankupalli	"Applications of eutectic based ionic liquids as novel catalytic and solvent media for green and sustainable technologies"	CSIR-IICT, Hyderabad
<b>485</b>	Angira Dasgupta (10BB17J02001) & 24.03.2022	Anurag Agrawal	"Sputum proteins as a biomarker in chronic airway diseases in the Indian population"	CSIR-IGIB, New Delhi

<b>486</b>	Bidisha Rani Bora (10CC16A38006) & 29.03.2022	S Gogoi	"Development of new metal-catalyzed reactions for the synthesis of spirobi[indene]-diones, aryl esters, $\beta$ -keto esters and pyrrolidinones"	CSIR-NEIST, Jorhat
<b>487</b>	Garima Kotnala (10PP19J32013) & 29.03.2022	T.K. Mandal	"Study on the interaction of trace gases and aerosols over Delhi"	CSIR-NPL, New Delhi
<b>488</b>	Pardeep Kumar Kashyap (10PP16J32002) & 29.03.2022	Bipim Kumar Gupta	"Synthesis and characterizations of two-dimensional materials: Graphene and its analogue structures"	CSIR-NPL, New Delhi
<b>489</b>	Mohd Danish Husain (10BB15A25007) & 29.03.2022	Priyanka Agnihotri	"Systematic studies in the genus Aconitum L. (Ranunculaceae) from India"	CSIR-NBRI, Lucknow

## Annexure 3: Societal Program Titles

Sl.No	Name of the Student (Enrollment Number)	Name of the Supervisor	Title of Societal program	AcSIR Academic Centre Institute
1	Jijnasa Bordoloi (10BB15A38017)	J. Kalita	Strengthening livelihood and creating business opportunities among rural population of Assam through Mushroom cultivation	CSIR-NEIST, Jorhat
2	Tanvi Sharma (10BB14J33005)	Sanjay Kumar	Disease incidence survey and awareness about associated risk factors: imparting a better life to rural population Kandbari region	CSIR-IHBT, Palampur
3	Aswathi A. (10BB15J39008)	Rajeev K. Sukumaran	Potential bacterial inoculant for reclamation of pesticide contaminated soil and promotion of plant growth	CSIR-NIIST, Thiruvananthapuram
4	Sheerin Naqvi (10CC17J32017)	Asit Patra	Edible Oils in Indian Households: Quality Assurance and Health Effect	CSIR-NPL, New Delhi
5	Rahul Michael (10BB14J25003)	Prabodh K. Trivedi	"SOLAR energy driven garbage composting of kitchen and garden wastes"	CSIR-NBRI, Lucknow
6	Nalawade Sagar Arjun (20EE14J08021)	H. Umesh Hebbar	Pilot Project Regarding Food Safety in Schools under MDM	CSIR-CFTRI, Mysuru
7	Falae Philips Omowumi (10PP16A01002)	D.P. Kanungo	Drainage Measures Design for Gadora Village Subsidence Zone in Garhwal Himalayas (Uttarakhand)	CSIR-CBRI, Roorkee
8	Said Madhukar Shyam (10CC17J26050)	Jayant M.Gajbhiye	Agricultural waste is a way to the organic fertilizer.	CSIR-NCL, Pune
9	Chidirala Swetha (10CC15A18004)	V. Jayathirtha Rao	Bio composting -Municipal Solid Waste	CSIR-IICT, Hyderabad
10	Mohit Aggarwal (10BB15A02019)	Anurag Agarwal	Awareness of Allergy and related Biology	CSIR-IGIB, New delhi
11	Sushma Rani Tirkey (10BB14A16025)	Sandhya Mishra	An approach to co-cultivate microalgal mat in paddy field for metal sequenstartion	CSIR-CSMCRI, Bhavnagar
12	Sadiya Khwaja (10CC16A10010)	Arvind Singh Negi	Role of Women in Agriculture with special reference to MAPs	CSIR-CIMAP, Lucknow

<b>13</b>	Athira K. J. (10CC14J39019)	K.R. Gopidas	Detection of Asbestos/Talc Fibers in Various Talcum Powders Available in the Market	CSIR-NIIST, Thiruvananthapuram
<b>14</b>	Vivek Wakchaure (10CC15A26004)	S.B. Sukumaran	Metal Contamination in Laboratory Wastewater: Hazardous Effect on Health and Possible Solutions	CSIR-NCL, Pune
<b>15</b>	Rangarajan B (10CC17J26003)	Sayan Bagchi	Strategies for efficient waste management	CSIR-NCL, Pune
<b>16</b>	Milan Kumar Bisai (10CC15A26020)	Sakya S. Sen	Best out of waste: Survey, awareness and possible solution to reduce plastic pollution using sugarcane bagasse	CSIR-NCL, Pune
<b>17</b>	Ntemafack Augustin (10BB17J37017)	Qazi Parvaiz Hassan	Role of traditional knowledge of medicinal plants in health care: Past, present and future scenario	CSIR-IIIM, Jammu
<b>18</b>	Sanghamitra Mohapatra (10BB13J36001)	Manish Kumar	TECHNO-ECONOMIC SURVEY FOR ESTABLISHING COMMERCIAL SETUP USING AVAILABLE POST HARVESTING PROCESS ON GINGER AT KORAPUT.	CSIR-IMMT, Bhubaneswar
<b>19</b>	Souneek Chakraborty (10BB15J37006)	Anindya Goswami	Development of strategies to improve cancer therapeutic accessibility in Rural India	CSIR-IIIM, Jammu
<b>20</b>	Jyoti Kumari (10BB14A16021)	Mangal Singh Rathore	Scope and Uses of Weeds as Bio-fertilizer and creating awareness of Kappaphycus Alvarezzi and its Bio Stimulant (K-SAP) to the common people in the village (Samod) of Rajasthan	CSIR-CSMCRI, Bhavnagar
<b>21</b>	Sandopu Sravan Kumar (10BB17A08014)	Parvatam Giridhar	CREATION OF VALUE CHAIN AND NETWORK FOR FOOD MICRO-ENTREPRENEURS IN MYSURU CITY	CSIR-CFTRI, Mysuru
<b>22</b>	Ashootosh Mandpe (20EE16A27001)	Sunil Kumar	Visit and Need Assessment Report of Village - Khapri Ubagi, Nagpur	CSIR-NEERI, Nagpur
<b>23</b>	Gopala Rao Nalliboina (10CC15A18031)	B. Venkateswara Rao	Agricultural Integrated Pest Management on Paddy-Cultivation in Undivided Andhra Pradesh	CSIR-IICT, Hyderabad
<b>24</b>	S. Sasikala (10CC14A05004)	Santoshkumar D. Bhat	Impact of Pesticides in Agriculture	CSIR-CECRI, Karaikudi
<b>25</b>	Mohd Aatif (10CC14A32012)	Jai Prakash Tiwari	Material Development for Flexible Organic Solar Cells: Its Societal Impact	CSIR-NPL, New Delhi

<b>26</b>	Barbi Gogoi (10BB15A38008)	S P Saikia	Strengthening livelihood and creating business opportunities among rural population of Assam through Mushroom cultivation	CSIR-NEIST, Jorhat
<b>27</b>	Ravikant (10PP15A32004)	Ashok Kumar	Design and Development of a low- cost humidity sensor along with the digital display unit to protect the cereal grains from moisture	CSIR-NPL, New Delhi
<b>28</b>	Khursade Parag Sakharam (10BB16J18033)	R.S. Prakasham	Report On Evaluation of Health Problem Of People Of Jaulka (Rly).	CSIR-IICT, Hyderabad
<b>29</b>	Potuganti Gal Reddy (10CC16A18031)	A. Manjula	Awareness about waste to wealth to School Children's	CSIR-IICT, Hyderabad
<b>30</b>	Aravind Reddy Dorigundla (10CC15J18009)	B. Venkateswara Rao	Sustainable Biocomposting - Types of composters	CSIR-IICT, Hyderabad
<b>31</b>	Suresh Udutha (10CC16J18012)	S. Prabhakar	Analysis of Drinking Water Contaminations by Mass Spectrometry	CSIR-IICT, Hyderabad
<b>32</b>	Matam Parameshwar (10CC16J18006)	M. Sridhar Reddy	Pheromone Application Technology (PAT)	CSIR-IICT, Hyderabad
<b>33</b>	Kashmiri Neog (10CC16A38005)	P Gogoi	ASSESSMENT OF INORGANIC AND BIOLOGICAL WATER QUALITY OF SOME GROUND WATER SAMPLES FROM SOME VILLAGES OF MAJULI DISTRICT	CSIR-NEIST, Jorhat
<b>34</b>	Rajathsing K (10CC15J16006)	Kannan Srinivasan	Recovery of iron oxide from bentonite mine acidic effluent	CSIR-CSMCRI, Bhavnagar
<b>35</b>	Wagalgave Sopan Mahadev (10CC16J18017)	Sidhanath V. Bhosale	Application of Membrane Technology of Promote Rural Welfare	CSIR-IICT, Hyderabad
<b>36</b>	Bharati Lalhal Barsain (10BB13J33002)	Vipin Hallan	Socio-economic Survey of Gram Panchayat Chachian in Kangra District of Himachal Pradesh	CSIR-IHBT, Palampur
<b>37</b>	A. A. Boopathi (10CC16A11001)	T. Narasimhaswamy	Study on Foot Dimensional Characteristics of 13 Years Old Children From region Chennai-Based on Height	CSIR-CLRI, Chennai
<b>38</b>	Shailja Jain (10CC15A26024)	Kumar Vanka	The Consumption of Junk Food and its Impact on Health (Obesity Risk): Awareness and Precautions	CSIR-NCL, Pune

<b>39</b>	Ravindra Mule (10CC15J26007)	Senthilkumar Beeran	Rain Water Harvesting: Battle Against Drought	CSIR-NCL, Pune
<b>40</b>	Gongutri Borah (10CC17J38002)	P Patel	Assessment of inorganic and biological water quality of ground water samples from some villages of Majuli district	CSIR-NEIST, Jorhat
<b>41</b>	Sameer Huprikar (20EE12A26080)	Ashish V. Orpe	Towards Greener Himalayas- UV Degradable Composites as a Solution	CSIR-NCL, Pune
<b>42</b>	Karan Singh Verma (20EE15J35002)	S.K. Panthi	"Study about the potable water sources in Nador Village by using Participatory Rural Appraisal (PRA) Method"	CSIR-AMPRI, Bhopal
<b>43</b>	M. Mathankumar (10PP14A05006)	B. Subramanian	A Study on occurrence of Dental Caries in Vaduganthangal village area of Vellore district: causes, prevention and restoration	CSIR-CECRI, Karaikudi
<b>44</b>	Soumi Biswas (10BB14A17008)	Sharmila Chattopadhyay	Biofertilizer: a sustainable, eco-friendly approach for agriculture	CSIR-IICB, Kolkata
<b>45</b>	Dongala Venkataramanamma (10BB15J08009)	R.P. Singh	Organizational, Nutritional and Microbial Analysis of Mid Day Meal Programme run by Government of India in and around Mysore	CSIR-CFTRI, Mysuru
<b>46</b>	Aditya Prakash Rathore (10BB14J16014)	D.R. Chaudhary	Indian Salt Production and Bacterial Diversity Associated with Male Workers in Solar Salt Works	CSIR-CSMCRI, Bhavnagar
<b>47</b>	Swati Walia (10BB16A33008)	Rakesh Kumar	Economic empowerment of women's through nursery raising of high demanded industrial crops and its buyback: An effort to support women farmers	CSIR-IHBT, Palampur
<b>48</b>	Mitali Mahajan (10BB15A33002)	Probir Kumar Pal	Analysis and documentation of naturally grown <i>Sapium sebiferum</i> (L.) Roxb: a potential source of Biofuel	CSIR-IHBT, Palampur
<b>49</b>	Javed Ahmad (20EE16A15007)	H K Sardana	A Bird Repellent Device to Minimize the Agricultural Loss	CSIR-CSIO, Chandigarh
<b>50</b>	Kishora Shetty (20EE14A24003)	Shylaja Srihari	Composite pipes for water transportation for irrigation and drinking	CSIR-NAL, Bangalore

<b>51</b>	Hemant Jain (20EE17A35003)	D.P. Mondal	DEVELOPMENT OF RURAL AGRICULTURE ACTIVITIES OF ACHARPURA VILLAGE, BHOPAL, M.P USING PARTICIPATORY RURAL APPRAISAL (PRA) METHOD	CSIR-AMPRI, Bhopal
<b>52</b>	Reshma R. (10BB15J39007)	Muthu Arumugam	A case study on health risks by acid leak in KKML, Chavara, Kollam and health awareness program for the affected people	CSIR-NIIST, Thiruvananthapuram
<b>53</b>	Nishant Kumar (10BB14A02023)	Anurag Agrawal	Harnessing large data and AI towards facilitating healthcare in aspirational district of Sirohi.	CSIR-IGIB, New delhi
<b>54</b>	Vinay Kumar (10BB14A25003)	Hemant K. Yadav	"Generating Revenue and Employment through the Use of Waste land Under GOI"	CSIR-NBRI, Lucknow
<b>55</b>	Stella Jes Varghese (10PP14A45002)	Sajani Surendran	Evaluation of Rice Crop Yield Under Climate Change Scenario and Adaptive Measures to the Farmers	CSIR-4PI, Bangalore
<b>56</b>	Patil Gouri Vijay (10BB14J26020)	Mahesh J. Kulkarni	Towards Greener Himalayas-UV Degradable Composites as a Solution	CSIR-NCL, Pune
<b>57</b>	Sukanya Mozumder (10BB17A17003)	Jayati Sengupta	Solar Energy for a better tomorrow: Use of Net Metering Systems and its benefits	CSIR-IICB, Kolkata
<b>58</b>	Shewale Sandhya Rustumrao (20BE15J08010)	Umesh Hebbar H	Critical evaluation of food safety, nutritional adequacy and organizational efficiency of mid-day meal scheme in schools of Mysore district: a pilot study	CSIR-CFTRI, Mysuru
<b>59</b>	Ratan Das (20EE14A15005)	Neelesh Kumar	Prevention of Toxic Gas Accidents in Brine wells of Kutch Region	CSIR-CSIO, Chandigarh
<b>60</b>	Vanammoole Lakshmi Reddy (10CC15J18032)	B. China Raju	Desirable tools for solving current social problems through polymeric materials & Optical electronic devices	CSIR-IICT, Hyderabad
<b>61</b>	Kalbhor Dinesh Bapusaheb (10CC13A26031)	S.P. Chavan	Challenges of Sugarcane crop production in Maharashtra: Bio-control method will be a unique approach to prevent the sugarcane pest and diseases	CSIR-NCL, Pune

<b>62</b>	Srinivasa Rao Atchuta (10CC15J24004)	Harish C. Barshilia	Conversion of waste plastics into a resource	CSIR-NAL, Bangalore
<b>63</b>	Bhingaradiya Nutanben Himmatlal (10CC16A16003)	Suresh Kumar Jewrajaka	Status of Micronutrients in Soil for Fertilizer Recommendation for Citrus Trees of District Bhavnagar (Gujarat)	CSIR-CSMCRI, Bhavnagar
<b>64</b>	Pronay Das (10CC15A26015)	Srinivasa Reddy	Advantages of Pheromone over conventional pesticides	CSIR-NCL, Pune
<b>65</b>	Poonam Yadav (10CC17J26049)	Manjusha Shelke	Transforming Pharmaceutical Waste to BatteryGrade Carbon for Energy Application: A Solution from Waste to Energy	CSIR-NCL, Pune
<b>66</b>	Sudhakar V (10CC17A26030)	K. Krishnamoorthy	Problematic Overuse of the Mobile Phone: Awareness and a Pathway Model	CSIR-NCL, Pune
<b>67</b>	Ria Khare (10BB14J25002)	Prabodh K. Trivedi	"Approaches to raise awareness and development of disaster management strategies in flood affected areas"	CSIR-NBRI, Lucknow
<b>68</b>	Anupama Nair (10BB15A39021)	Raghu K.G.	Evaluation of heavy metal and microbial contamination from different areas of Trivandrum district	CSIR-NIIST, Thiruvananthapuram
<b>69</b>	SILPA K (10PP14J45002)	Anil Earnest	Recent Landslides In Northern Kerala: Causes, Impacts, Mitigations, Preparedness And Resilience Through Environmental Protective Measures	CSIR-4PI, Bangalore
<b>70</b>	Anurag Kumar (10CC15A19003)	Suman L. Jain	Project theme: Bio-waste utilization and management	CSIR-IIP, Dehradun
<b>71</b>	Kommeraj Rajkumar (10CC15A18008)	B. China Raju	Rural Entrepreneurship Opportunities of Dairy Industries: Sustainable Waste Management.	CSIR-IICT, Hyderabad
<b>72</b>	Shaumik Ray (20EE14A41001)	Saptarshi Sasmal	NPK Analysis of Soil using Mid Infrared Spectroscopy	CSIR-SERC, Chennai
<b>73</b>	Jit Sarkar (10BB18J17001)	Partha Chakrabarti	DEVELOPING HOME-BASED KITCHEN GARDENS AND AWARENESS ON LOW COST NUTRITIOUS FOOD AMONG RURAL WOMEN TO ENSURE NUTRITION SECURITY	CSIR-IICB, Kolkata
<b>74</b>	Amrita Singh (10BB14A02005)	Souvik Maiti	Genetics and genetic testing of Hereditary Paraganglioma-	CSIR-IGIB, New delhi

			Pheochromocytoma Syndrome	
<b>75</b>	Amit Chandra (10BB14A02004)	Neeru Saini	OMGD: Sequencing base diagnostic assay for Hereditary Cancer–Predisposing Syndrome; MYH-Associated Polyposis	CSIR-IGIB, New delhi
<b>76</b>	S J Yogaspoorthi (10BB14A02026)	Vivek T Natarajan	Effect of Air Quality and lifestyle factors on normal lung functioning of healthy adults in Delhi based research Institutes: A spirometry based pilot study	CSIR-IGIB, New delhi
<b>77</b>	Kishore Kumar Sahu (10CC13A36021)	Mamata Mohapatra	TECHNO ECONOMIC SURVEY ON NIGER SEED IN KORAPUT DISTRICT-A SURVEY.	CSIR-IMMT, Bhubaneswar
<b>78</b>	Nagarjunachary Ragi (10CC16J18007)	S. Prabhakar	Awareness about Affordable health care with Water pollution to School Children's	CSIR-NAL, Bangalore
<b>79</b>	Minju N. (20EE16J39005)	Savithri S.	CNSL-Gelatin Bioplastic Film for Commercial Applications	CSIR-NIIST, Thiruvananthapuram
<b>80</b>	Ch. Venkata Suryakumar (10CC16A11002)	V. Subramanian	JIGYASA: Promoting Scientific Temper through Scientist-Student Connect Programme	CSIR-CLRI, Chennai
<b>81</b>	M.B. Mrinalini (10CC17A18001)	L. Giribabu	Environmental Impacts of Solid Waste Management In India: From Waste Disposal to Recovery of Resources	CSIR-IICT, Hyderabad
<b>82</b>	Ipsita Putatunda (10PP12J45002)	K. Rajendran	Water: The Most Severe Issue in Murlu, Bankura	CSIR-4PI, Bangalore
<b>83</b>	Bithika Chaliha (10BB15J38009)	S P Saikia	Enrichment Of Rural Livelihood/Enterpreneurship Through MSME Technologies And Industrial Trade Training	CSIR-NEIST, Jorhat
<b>84</b>	Gorantla Vijay Nalini (10BB14J26019)	Subashchandrabose Chinnathambi	Malnutrition in Childrens and its management byTherapeutic food	CSIR-NCL, Pune
<b>85</b>	Kukde Sanchita Vijay (10PP14J27002)	B.K. Sarangi	Identifying problems that affect health and outlining possible solutions to these problems at Village: Mohgaon , Nagpur	CSIR-NEERI, Nagpur
<b>86</b>	Bablesh Ranawat (10BB16J16003)	Aneesha Singh	Microbiological and physicochemical quality of drinking water available at	CSIR-CSMCRI, Bhavnagar

			different schools of Bhavnagar City	
<b>87</b>	Abhishek Balmik (10BB15J26039)	Subashchandraboise Chinnathambi	Measures for effective plastic waste management	CSIR-NCL, Pune
<b>88</b>	Sinare Sudam Nana (10CC17J18003)	Ch. Raji Reddy	Farmer Producer Organisations - Integrated Value Chain & Cipla Foundation	CSIR-IICT, Hyderabad
<b>89</b>	Guddeti Dileep Kumar (10CC16A18010)	K. Suresh Babu	Pheromone Application Technology (PAT)	CSIR-IICT, Hyderabad
<b>90</b>	Praveen Kumar (10CC14A26017)	Meitram Niraj Luwang	Soil Testing Its awareness, implecation and impact Case Study Rural area of Muzaffarnagar District UP	CSIR-NCL, Pune
<b>91</b>	Yogeshwar Vikram Dhar (10BB16J25007)	Mehar H. asif	"Mobile application based awareness and assessment for solution of micro-plastic pollution"	CSIR-NBRI, Lucknow
<b>92</b>	MUBashir Javed Mintoo (10BB14A37011)	D.M. Mondhe	Past, present and future of CSIR R&D programs on aromatic plants: potential impacts on society	CSIR-IIIM, Jammu
<b>93</b>	Suraya Jan (10BB15J37012)	Sayed Sajad Hussain	Natural sources against Histone Methyltransferases and their role in cancer	CSIR-IIIM, Jammu
<b>94</b>	Shubhendra Kumar Jain (20EE16A32031)	Govind	A Survey on Air Pollution: Sources, Impact and Solutions	CSIR-NPL, New Delhi
<b>95</b>	Rade Priyanka Prakash (10CC17J26009)	Baijayantimala Garnaik	Plastic waste to energy: An alternative to fossil fuel	CSIR-NCL, Pune
<b>96</b>	Ambarish Kumar Singh (10CC15A26029)	J Nithyanandhan	Survey for Awareness about Chemicals Omitting in Air and Sewage-water by Chemical Industries in Ambarnath, Maharashtra: Precautions and Solutions	CSIR-NCL, Pune
<b>97</b>	Motiwala Zenia Yazdi (10BB15A26037)	Kiran Kulkarni	Effect of Air Pollution on Human Health A survey in Mumbai & Udvada	CSIR-NCL, Pune
<b>98</b>	Shweta Sonawane (10BB14J26024)	Subashchandraboise Chinnathambi	Prion-like Propagation of Post-Translationally Modified Tau in Alzheimer's Disease	CSIR-NCL, Pune
<b>99</b>	Paras Sehgal (10BB15J02003)	Sridhar Sivasubbu	Protocol for amplification of cerebral cavernous malformations 2 (CCM2)	CSIR-IGIB, New delhi

			genomic loci for sequencing and genetic diagnosis	
<b>100</b>	Joshi Priyanka Satishchandra (10BB15A16009)	Pradeep Kumar Agarwal	Bacteriological and physicochemical analysis of water samples collected from Bhumbli village near Bhavnagar district	CSIR-CSMCRI, Bhavnagar
<b>101</b>	Jampala Annie Modestra (10BB16J18025)	S. Venkata Mohan	Management of Chemical waste in Laboratories	CSIR-IICT, Hyderabad
<b>102</b>	K. Amulya (10BB17J18046)	S. Venkata Mohan	Urban Wastewater as a Resource for a Circular Economy: Recovery of Nitrogen, Phosphorous and Potassium	CSIR-IICT, Hyderabad
<b>103</b>	Shakuntala Bai (10BB13A26037)	Mahesh Kulkarni	Maternal health: Survey and awareness in Sabalgarh tehsil	CSIR-NCL, Pune
<b>104</b>	S. Kathyayani (10BB15J18044)	Rajkumar Banerjee	Development of Magic Nanoshotgun Approach to Eradicate Metastatic Tumors - A potential Tumor Targeted Drug Delivery Mechanism	CSIR-IICT, Hyderabad
<b>105</b>	Songhita Meher (10CC14J18057)	Rohit Kumar Rana	Waste Plastic Treatment	CSIR-IICT, Hyderabad
<b>106</b>	Venkatesh Telugu (10CC15J18037)	S. Chandrasekhar	Water Harvesting	CSIR-IICT, Hyderabad
<b>107</b>	Viveki Amol Basagonda (10CC15J26016)	Santosh B. Mhaske	Maternal health: Survey and awareness in Sabalgarh tehsil	CSIR-NCL, Pune
<b>108</b>	Chandan Kumar A (20EE14J24001)	L Venkatakrishnan	Home Composting Method	CSIR-NAL, Bangalore
<b>109</b>	Subhash Chandra Shit (10CC16A18038)	John Mondal	Development of Porous Organic Polymer Materials Catalyst towards Resolving Current Energy Crisis in Society	CSIR-IICT, Hyderabad
<b>110</b>	Kaneez Fatima (10BB15A10006)	Suaib Luqman	Health related problems in villages(Balikhera,Sarora and Ahamadpur) of Raebareli: A survey cum study report	CSIR-CIMAP, Lucknow
<b>111</b>	Sonam Nain (10BB15J02007)	Rakesh Sharma	Protocol for amplification of AGXT genomic loci for sequencing	CSIR-IGIB, New delhi
<b>112</b>	Mousumi Khanra (20EE17J12001)	Arup Kumar Nandi	Design and Development of Mechanized Makhana Processing Machineries	CSIR-CMERI, Durgapur

<b>113</b>	Galande Sneha Harishchandra (10BB15J18054)	R.S. Prakasham	In Silico Analysis of Therapeutic Efficacy of Prebiotics for Diabetes and Means for their Delivery.	CSIR-IICT, Hyderabad
<b>114</b>	Anamika Singh Gaur (10BB17A18047)	G. Narahari Sastry	Wastewater Management in Residential Quarters and ZM School In CSIR-IICT Campus	CSIR-IICT, Hyderabad
<b>115</b>	Jattuboyina Siva Krishna (10CC17A18016)	B. Venkateswara Rao	Application of Membrane Technology to Promote Rural Welfare	CSIR-IICT, Hyderabad
<b>116</b>	Sivahari Prasad Kurma (10CC17J18032)	B. China Raju	Pheromone Application Technology	CSIR-IICT, Hyderabad
<b>117</b>	Deshpande Ashwini Anil (10CC15J26003)	P.P. Wadgaonkar	Persistent organic pollutants (POPs): Concerns and Challenges	CSIR-NCL, Pune
<b>118</b>	Rajiv Dubey (10PP15J15001)	Raj Kumar	A cost effective solution for testing of optical components at optical industry, Ambala	CSIR-CSIO, Chandigarh
<b>119</b>	Saumya Mishra (10BB14A22003)	M.P. Singh	Awareness among rural population about heavy metal toxicity through drinking water in Bani Village, Sarojini Nagar area of Lucknow, Uttar Pradesh	CSIR-IITR, Lucknow
<b>120</b>	Dhiviya V (10BB14A03005)	Krishnan H Harshan	Workshop on "Superheroes against Superbugs (SaS)"	CSIR-CCMB, Hyderabad
<b>121</b>	Sangeeta Bagha (20EE14J36014)	Debi Prasad Das	TO DEVELOP A LOW COST SOLAR POWERED SMART ULTRASONIC MOSQUITOES REPELLENT FOR THE PEOPLE OF KORAPUT.	CSIR-IMMT, Bhubaneswar
<b>122</b>	Dinesh Kumar (10BB15A18041)	T. Anjana Devi	Value addition to turmeric plant: Wealth of Waste	CSIR-IICT, Hyderabad
<b>123</b>	Preeti Yadav (10CC16A32025)	Asit Patra	Extensive Use of Disinfectants During COVID- 19: A Potentially Overlooked Risk on Human Health And Environment	CSIR-NPL, New Delhi
<b>124</b>	Bir Bahadur Sherpa (20EE16J15008)	Sachin Tyagi	Design of Low Cost Paddy Threshing Machine	CSIR-CSIO, Chandigarh
<b>125</b>	Nisha Dhiman (10BB14J33003)	Amit Bhattacharya	Disease incidence survey and awareness about associated risk factors: imparting a better life to rural population Kandbari region	CSIR-IHBT, Palampur
<b>126</b>	Anitha R E (50BB15A08001)	V. Baskaran	Pilot project on Food Safety in Mysore District Schools under Mid-Day Meal Scheme	CSIR-CFTRI, Mysuru

<b>127</b>	Mayank Garg (20EE17J15004)	Suman Singh	Anti-foul method for tertiary treated waste water of Chandigarh	CSIR-CSIO, Chandigarh
<b>128</b>	Navya Mishra (50BB13A61001)	Tanica Lyngdoh	Air Pollution Exposure Awareness Campaign for Elderly Participants from Rural Maharashtra (under OSCAR Study by Chest Research Foundation)	PHFI-IIPH, New Delhi
<b>129</b>	Amit Abhash (20EE15A35007)	D P Mondal	"POSSIBILITIES OF RENEWABLE ENERGY SOURCES IN VILLAGE DUMDUM DIST. HOSHANGABAD (MP)	CSIR-AMPRI, Bhopal
<b>130</b>	Sharma Mrityunjay Keshav Prasad (20EE14A26058)	Amol A. Kulkarni	Juvenile delinquency in India: Impact and A way forward	CSIR-NCL, Pune
<b>131</b>	Tripti Sharma (10BB17A19013)	Debashish Ghosh	ASSESSMENT OF WATER QUALITY IN RESIDENTIAL COLONY OF CSIR-INDIAN INSTITUTE OF PETROLEUM	CSIR-IIP, Dehradun
<b>132</b>	Ankesh Pandey (10BB15A25001)	Indraneel Sanyal	"Awareness about prophylactic measures for COVID-19 pandemic"	CSIR-NBRI, Lucknow
<b>133</b>	Sridharashanmukha Rao. B (10CC16A18037)	G. Sudhakar	PHEROMONE APPLICATION TECHNOLOGY (PAT)	CSIR-IICT, Hyderabad
<b>134</b>	Nevare Yogesh Ramesh (10CC14J26017)	P.P. Wadgaonkar	Micro-plastics: what are they and why do they pose a hazard?	CSIR-NCL, Pune
<b>135</b>	Anirban Ghoshal (10BC16A18055)	Ajay Kumar Srivastava	Cancer Chemotherapy, Treatment and Drug Targets: A Current Status	CSIR-IICT, Hyderabad
<b>136</b>	Pathak Gauri Mukund (10BB13A26034)	Narendra Kadoo	Survey and awareness in Borda village regarding malaria and vaccination of pregnant women and young children	CSIR-NCL, Pune
<b>137</b>	Braham Dutt Arya (10CC16J32012)	Surinder P. Singh	Agnihotra- A Holistic Approach for Environmental Remediation and Human Health	CSIR-NPL, New Delhi
<b>138</b>	Ranjana Maurya (10CC17J10003)	C S Chanotiya	Quality assessment of vetiver cultivars grown at different regions of Uttar Pradesh	CSIR-CIMAP, Lucknow
<b>139</b>	Amzad Khan (10CC16J19001)	Om. P. Khatri	Bio-Waste Utilization and Management	CSIR-IIP, Dehradun

<b>140</b>	Vikrant Yadav (10CC16A16002)	Vaibhav Kulshrestha	Quantification of arsenic leaching from arsenic solid waste: A by-product of arsenic removal plants	CSIR-CSMCRI, Bhavnagar
<b>141</b>	Maheshwari Tallapally (10CC16J18005)	UVR Vijaya Sarathi	Affordable health care awareness programme to School Children about water pollution	CSIR-IICT, Hyderabad
<b>142</b>	C Shireesha (10CC15J18002)	UVR Vijaya Sarathi	Application of Membrane Technology to Develop Rural Welfare	CSIR-IICT, Hyderabad
<b>143</b>	Yadagiri. T (10CC16J18013)	Galla V. Karunakar	PHEROMONE TECHNOLOGY AND APPLICATIONS (PAT)	CSIR-IICT, Hyderabad
<b>144</b>	Thorat Meghana Namdeo (10BB14A26049)	Syed G Dastager	Mushroom Cultivation: The Simple and Cost Effective Way for Agro-waste Utilization	CSIR-NCL, Pune
<b>145</b>	Surbhi Sharma (10BB15A02035)	Souvik Maiti	Genetics and genetic testing of Spinal Muscular Atrophy	CSIR-IGIB, New Delhi
<b>146</b>	Masroor Ahmad Paddar (10BB15J37020)	Dr. Fayaz Malik	Cultivation of medicinal plants and aromatic crops in the Kashmir region; opportunities and role in health and wealth.	CSIR-IIIM, Jammu
<b>147</b>	Kanakangi S. Nair (10CC14J39020)	Surendran K.P.	Detection of Heavy Metals in Selected Ayurvedic Products	CSIR-NIIST, Thiruvananthapuram
<b>148</b>	Manoj Kumar Singh (10BB14A02021)	Chetana Sachidanandan	Genetics and genetic testing of Hypogonadotropic hypogonadism	CSIR-IGIB, New delhi
<b>149</b>	Varkekar Namrata Jagdeo (10BB14J08018)	Ng. I. Singh	PILOT PROJECT REGARDING FOOD SAFETY IN SCHOOLS UNDER MID DAY MEAL SCHEME	CSIR-CFTRI, Mysuru
<b>150</b>	Anwar Sadat (10BB16A02006)	Kausik Chakraborty	Genetics and genetic testing of Joubert/Meckel Syndrome	CSIR-IGIB, New Delhi
<b>151</b>	Anjum Dihingia (10BB16A38023)	J. Kalita	A SOCIO-ECONOMIC SURVEY OF JALUKGAON-A VILLAGE IN SIVASAGAR DISTRICT, AND THE ROLE OF CSIR-NEIST IN UPLIFTMENT OF ITS RURAL EMPLOYMENT THROUGH MSME INTERVENTIONS	CSIR-NEIST, Jorhat
<b>152</b>	Joyashree Baruah (10BB16A38021)	M Lal	SOCIO-ECONOMIC SURVEY OF JALUKGAON IN SIVSAGAR DISTRICT AND TRAINING PROGRAMME ON CSIR-NEIST RURAL TECHNOLOGIES FOR WOMEN EMPOWERMENT	CSIR-NEIST, Jorhat

<b>153</b>	Abhilash Sharma (10CC16A38008)	P Gogoi	ASSESSMENT OF INORGANIC AND BIOLOGICAL WATER QUALITY OF SOME GROUND WATER SAMPLES FROM SOME VILLAGES OF MAJULI DISTRICT	CSIR-NEIST, Jorhat
<b>154</b>	Ashok Kumar Morri (10CC16A18003)	Subhash Ghosh	Application of Membrane Technology to Develop Rural Welfare	CSIR-IICT, Hyderabad
<b>155</b>	Kirti Nitin Gavaraskar (10MM15J44003)	Paromita Banerjee	Database on Patents on Aromatic Medicinal and Economic Plants in Public Domain	CSIR-URDIP, Pune
<b>156</b>	Theresa Shalini R M (10BB13A08003)	Asha Martin	Jaggery Analysis and Diversification of its products for Rural Empowerment	CSIR-CFTRI, Mysuru
<b>157</b>	Sumit Sharma (10CC14A37019)	Parvinder Pal Singh	Tuberculosis Research In India	CSIR-IIIM, Jammu
<b>158</b>	Neha Agarwal (10BB14J25001)	Samir V. Sawant	"Rain water Harvesting : A small step for better tomorrow"	CSIR-NBRI, Lucknow
<b>159</b>	Asha Kumari (10BB15J16012)	Asish Kumar Paridal	Desalination and defluoridation of groundwater using membrane system	CSIR-CSMCRI, Bhavnagar
<b>160</b>	Rajeshwari Rathore (10BB14A26040)	Mahesh J. Kulkarni	Azolla : A sustainable and cost effective fodder for Livestock, Survey and Awareness in Roopnagar, Poogal (block), Bikaner (dist.), Rajasthan	CSIR-NCL, Pune
<b>161</b>	Ranjithkumar A (10BB15J11004)	C. Muralidharan	STUDY ON FOOT DIMENSIONAL CHARACTERISTICS OF SCHOOL CHILDREN (10 & 11 YEARS) - BASED ON WEIGHT	CSIR-CLRI, Chennai
<b>162</b>	Samrat Ghosh (10BB16A17004)	Sucheta Tripathy	DiabeticPred: A Logistic regression based approach to predict the onset of Diabetes	CSIR-IICB, Kolkata
<b>163</b>	Rajashree Laxmikant Hajare` (20EE16J27002)	Pranav Nagarnaik	Visit and Need Assessment Report of Village - Khapri Ubagi, Nagpur	CSIR-NEERI, Nagpur
<b>164</b>	Ramya A. N. (10CC16A39008)	Kaustabh Kumar Maiti	Extraction and determination of Caffeine contents in common beverages	CSIR-NIIST, Thiruvananthapuram
<b>165</b>	Puppala Sathish (10CC15A18027)	Ch. Raji Reddy	Water Purification in Rural Areas through Membrane	CSIR-IICT, Hyderabad

			Technology: Contribution to Rural Society Welfare	
<b>166</b>	Gorakala Uma Sankar (10CC15J18025)	Galla V. Karunakar	Desirable tools for solving current social problems through polymeric material and optical electronic devices	CSIR-IICT, Hyderabad
<b>167</b>	Inder Kumar (10CC15A33011)	Upendra Sharma	Under the Vision of Swachh Bharat Abhiyan: The Development of an Economical Method for the Conversion of Organic Garbage into Valuable Products	CSIR-IHBT, Palampur
<b>168</b>	Gourab Das (10CC14A39001)	A. Ajayghosh	Hybrid Clay Material with Tunable Crystallinity	CSIR-NIIST, Thiruvananthapuram
<b>169</b>	Sajena K.S (10CC15A39003)	Joshy Joseph	Detection and Quantification of p-Phenylenediamine in Common Hair Colors Available in the Market	CSIR-NIIST, Thiruvananthapuram
<b>170</b>	Jovitha Lincy V. J. (10PP13A29003)	Cathrine Sumathi Manohar	Microbes in Nitrogenous waste management	CSIR-NIO, Goa
<b>171</b>	Upasana Rai (10BB14A03001)	Mandar V. Deshmukh	Women health and hygiene	CSIR-CCMB, Hyderabad
<b>172</b>	Maritim Kipkdech Tony (10BB18A33009)	R.K. Sharma	Collection and characterization of purple-leaf tea germplasm for product diversification and crop improvement: A baseline study in selected tea farmer's field in Kangra District	CSIR-IHBT, Palampur
<b>173</b>	Kannan B N (10BB14J02007)	Souvik Maiti	Designing diagnostic primers and prepare patient information brochure for Clouston syndrome under the Rare disease India project	CSIR-IGIB, New delhi
<b>174</b>	Vikas Narayan Thakur (10PP17J32006)	Ashok Kumar	Flexible low- cost blood pressure measurement sensors for weaker sections of the society	CSIR-NPL, New Delhi
<b>175</b>	Badola Poorwa Kamal (10BB17A25005)	P.K. Trivedi	"Awareness about dangers of illegitimate use of antibiotics- A major health concern"	CSIR-NBRI, Lucknow
<b>176</b>	Tamal Das (10CC16J26001)	Kumar Vanka	Epidemic diseases: From social media to the	CSIR-NCL, Pune

			economical balance of society.	
<b>177</b>	Manish Kumar Yadav (10BB13A02008)	Rakesh Sharma	NEPHROTIC SYNDROME: Patient information guide	CSIR-IGIB, New delhi
<b>178</b>	Dileep S A (10BB13A08006)	Dandamudi Usharani	Empowerment and sustainable rural development of Puttegowdanahundi village	CSIR-CFTRI, Mysuru
<b>179</b>	Radha Shivhare (10BB16A25011)	Charu Lata	"Reorientation of farmers towards millet farming as major nutriceal crops"	CSIR-NBRI, Lucknow
<b>180</b>	Piyali Ganguli (10BB16J26020)	Ram Rup Sarkar	Awareness of pathophysiology of mental health and Major Depressive Disorders (MDD) among the Indian Population	CSIR-NCL, Pune
<b>181</b>	Shahbaz Khan (32EE14J14005)	M.N. Nagabhushana	Use of Fly-Ash in Low Volume Roads for PMGYS	CSIR-CRRI, New Delhi
<b>182</b>	Debranj Mandal (10CC17A26016)	Arup K. Rath	Survey and awareness of heavy metals poison and lifestyle effects on coronary artery disease	CSIR-NCL, Pune
<b>183</b>	Adarsh Kumar (10CC16A19003)	Thallada Bhaskar	Waste Management Research Proposal for IIP	CSIR-IIP, Dehradun
<b>184</b>	Gaurav Singhal (20EE15A15003)	Babankumar Bansod	Stubble burning management for Sustainable Rice-Wheat Production System in Punjab region	CSIR-CSIO, Chandigarh
<b>185</b>	Apoorva Verma (10PP15J32005)	Anurag Gupta	Food Adulteration: occurrence, implication, detection, laws and safety measures	CSIR-NPL, New Delhi
<b>186</b>	Kanika Gupta (10CC15J19004)	Om P. Khatri	ACTIVATED CARBON FROM DRY BIOMASS OF CSIR-IIP CAMPUS FOR WATER PURIFICATION & WASTE SEGREGATION IN CSIR-IIP COLONY: APPROACH AND APPEAL TOWARDS WASTE-FREE & ECO-FRIENDLY CAMPUS	CSIR-IIP, Dehradun
<b>187</b>	Ganji Praveena (10BB16A18059)	R.S. Prakasham	Report On Evaluation Of Health Problem Of People Of Jaulka (Rly).	CSIR-IICT, Hyderabad
<b>188</b>	Sandeep Kumar (20EE15A08010)	MVRK Sarma	Assessment of food fatigue and Menu diversification	CSIR-CFTRI, Mysuru

<b>189</b>	Manish Kalra (20EE16J15011)	Bhargab Das	Enhancing the Communication between Platelet Donor and Blood bank using mobile Application	CSIR-CSIO, Chandigarh
<b>190</b>	Harish Singh Rawat (20EE16J32019)	Satya Kesh Dubey	Evaluation of Specific Absorption Rate (SAR) Limits for Wireless Communication Devices used in close proximity to human body	CSIR-NPL, New Delhi
<b>191</b>	Umesh Kumar (10BB15J25007)	Hemant Yadav	" Health evaluation of the people working in dust producing industries and remedies"	CSIR-NBRI, Lucknow
<b>192</b>	Patil Gajanan Srikant (10BB13A03002)	Rajan Sankaranarayanan	Awareness regarding safe use of medicine	CSIR-CCMB, Hyderabad
<b>193</b>	Anupma Thakur (20EE17A15007)	R.K. Sinha	Pharmaceutical and Plastic Waste: Feedstock to an Eco-Friendly Sustainable Future	CSIR-CSIO, Chandigarh
<b>194</b>	Naresh Killi (10CC17J26026)	GVN Rathna	Effects of Aquaculture on Agricultural Land in Srikakulam District, Andhra Pradesh, India- A Case Study	CSIR-NCL, Pune
<b>195</b>	Shivanshu Goel (10PP17J15002)	Sachin Tyagi	Effective Use of Industrial Waste flyash	CSIR-CSIO, Chandigarh
<b>196</b>	Aiswarya Bhaskar Pawar (20EE15A26035)	Durba Sengupta	E-waste management	CSIR-NCL, Pune
<b>197</b>	Ajay Mandal (20EE15A35001)	N. Sathish	SMOKE LESS CHULHA FOR BETTER WOMEN HEALTH AT RURAL AREAS	CSIR-AMPRI, Bhopal
<b>198</b>	Nitin Sonkar (20EE15A08011)	K. Venkatesh Murthy	Assessment of the existing 'Akshaya Patra' kitchen infrastructure and logistics for improvisation of food quality and safety	CSIR-CFTRI, Mysuru
<b>199</b>	Karishma Agrawal (10CC15A10009)	Karishma Agarwal	Nutrition and Health status of selected area of Barabanki in Uttar Pradesh	CSIR-CIMAP, Lucknow
<b>200</b>	Sandeep Kumar (20EE14J24004)	Amit Kumar Onkar	Effective Domestic Waste Management and Its Disposal	CSIR-NAL, Bangalore
<b>201</b>	Ruchi Bhardwaj (10PP16A32001)	Bhasker Gahtori	Designing and Testing of Water Filter Based on Activated Carbon Synthesised by Waste Sugarcane Bagasse	CSIR-NPL, New Delhi

<b>202</b>	Bansode Ajay Haridas (10CC15A26002)	Gurunath Suryavanshi	Milk and Milk Products Adulteration: Human Health and General Awareness	CSIR-NCL, Pune
<b>203</b>	Vitalis Ikenna Chukwuike (10CC18J05008)	Rakesh C. Barik	Report on ground water quality in Karaikudi, Tamil Nadu	CSIR-CECRI, Karaikudi
<b>204</b>	Rama shankar Gupta (20EE16J32015)	Ritu Srivastava	Generation of Electricity in the Rural and Remote Area Based on Renewable Energy	CSIR-NPL, New Delhi
<b>205</b>	Shinde Sundar Sampatrao (10CC15J18023)	Pravin R Likhari	Education system in India it's contribution and Challenges	CSIR-IICT, Hyderabad
<b>206</b>	Ram Jatan (10BB15J25003)	Charu Lata	Awareness programme for decolorization and degradation of azo dye from fabric/textile effluent	CSIR-NBRI, Lucknow
<b>207</b>	Snigdha Bhowmick (10BB14A02033)	Soumya Sinha Roy	Effect of Air Quality and lifestyle factors on normal lung functioning of healthy adults in Delhi based research Institutes: A spirometry based pilot study	CSIR-IGIB, New Delhi
<b>208</b>	Preetha Rani (10BB15A39023)	Raghu K. G.	Analysis of Heavy Metal Concentration in Some Ayurvedic Medicines	CSIR-NIIST, Thiruvananthapuram
<b>209</b>	Priyanka Kumari (10BB15A10012)	Abha Meena	Comparative economics of Tulsi ( <i>Ocimum Basilicum</i> ) and Paddy ( <i>Oryza sativa</i> )cultivation in Barabanki district of Uttar Pradesh	CSIR-CIMAP, Lucknow
<b>210</b>	Santosh Shelar (10CC14A26004)	Narshinha P. Argade	Pomegranate A Economical Source to Farmer	CSIR-NCL, Pune
<b>211</b>	Trivedi Jaladhi Sanjaykumar (10CC16A16001)	Suresh Kumar Jewrajka	Soil analysis of different farm in Bhavnagar district and recommendations for crop improvement	CSIR-CSMCRI, Bhavnagar
<b>212</b>	Sachin Sharma (10CC15J19003)	Rajaram Bal	Proposal and execution of Ways to utilize woody biomass for sustainable development and utility- Resource Considerations in plant setup	CSIR-IIP, Dehradun
<b>213</b>	Gurpreet Singh (10BB15J37002)	Meenu Katoh	CSIR Technology and Rural Development in India with special reference to J&K state	CSIR-IIIM, Jammu

<b>214</b>	Prajeesh K. V. (10BB16J39009)	Rajeev K. Sukumaran	Development of a biomass-based bio-degradable barrier coating for consumer applications	CSIR-NIIST, Thiruvananthapuram
<b>215</b>	Swetha Pavani Rao (10BB16J18027)	Shasi Vardhan Kalivendi	Awareness on Tuberculosis and Preventive Strategies	CSIR-IICT, Hyderabad
<b>216</b>	Mahendra V P (10BB16A08012)	Ravi Kumar	Shelf life extension of fresh Neera for 2-3 days benefitting the farmers	CSIR-CFTRI, Mysuru
<b>217</b>	Maher Deepak Mannusing (10CC13A26022)	Prakash P. Wadgaonkar	Use of plastic waste in road construction future directions	CSIR-NCL, Pune
<b>218</b>	Meenu M. T. (10CC17J39004)	Radhakrishnan K.V.	Quantitative Effect of Regional Variation in Medicinal Plants	CSIR-NIIST, Thiruvananthapuram
<b>219</b>	Priyanka (10PC16J15001)	Suman Singh	Human hair: Waste and its utilization	CSIR-CSIO, Chandigarh
<b>220</b>	M. Karnan (10CC18J05003)	M. Sathish	Analyses of soil nutrients in Agriculture fields of Sakkottai Block and efficient method of horticulture practises for urban home needs	CSIR-CECRI, Karaikudi
<b>221</b>	Anil Kumar (10BB14A37008)	Zabeer Ahmed	Role of Traditional Knowledge in Development of Phytomedicines.	CSIR-IIIM, Jammu
<b>222</b>	Suchitra Pradhan (10BB14A08025)	Ravi Kumar	CRITICAL EVALUATION OF MID-DAY MEAL PROGRAMME IN GOVERNMENT SCHOOLS UNDER DIFFERENT TALUKS OF MYSURU DISTRICT, KARNATAKA	CSIR-CFTRI, Mysuru
<b>223</b>	Supriya Pal (10CC15A18016)	Pratyay Basak	Application of Membrane Technology to Promote Rural Welfare	CSIR-IICT, Hyderabad
<b>224</b>	Prajna Mishra (10CC15J26011)	Santosh Kumar Jha	Sustainable E-waste Management: Challenges and potential paths for improvement	CSIR-NCL, Pune
<b>225</b>	Jaswant (20EE15J32020)	Radhakrishnan S.R.	An evaluation of the occupational exposure to air pollution in Commercial cooking and Photocopy establishments in megacity Delhi: Public Perception.	CSIR-NPL, New Delhi
<b>226</b>	Soumendu Sinha (20EE16A06002)	Ravindra Mukhiya	Anaerobic Digester Process based Kitchen Biowaste Treatment System	CSIR-CEERI, Pilani
<b>227</b>	Deeksha Singh (10BB16A17002)	Sucheta Tripathy	Bioremediation potential of cyanobacteria for wastewater treatment	CSIR-IICB, Kolkata

<b>228</b>	Anagh Mukherjee (10CC15J26010)	Kumar Vanka	An On-Ground Survey on Intensive Agriculture: A Step Towards Zero Budget Natural Farming (ZBNF).	CSIR-NCL, Pune
<b>229</b>	Tapan Sahoo (10CC15A16001)	Subhash Chandra Ghosh	Collection of bore well water samples from different rural areas of Bhavnagar and making it safe for drinking by using Nanofiltration technique	CSIR-CSMCRI, Bhavnagar
<b>230</b>	Tapas Haldar (10CC16A26031)	Sayan Bagchi	Organic Waste and its Recycling	CSIR-NCL, Pune
<b>231</b>	Amol Ichake (10CC15J26025)	Prakash P. Wadgaonkar	Plastic Waste Management: Awareness and Probable Solution	CSIR-NCL, Pune
<b>232</b>	Pareesh Kumar Purohit (10BB15A02022)	Neeru Saini	Differential diagnosis of TB and Silicosis using Airway Oscillometry	CSIR-IGIB, New Delhi
<b>233</b>	Pankaj Chibber (10BB16J37007)	G. D. Singh	Role of traditional knowledge in the development of Phytomedicines	CSIR-IIIM, Jammu
<b>234</b>	Soumya Sinha (10BB16A10005)	Abdul Samad	Incidence of diseases on Medicinal and Aromatic Plants (MAPs) in central part of U.P.(Raebareli):A Case study	CSIR-CIMAP, Lucknow
<b>235</b>	Nitesh Kumar Sharma (10BB16A33005)	Ravi Shankar	Forecasting of Kangra Tea productivity based on weather variable under time series framework : A Machine Learning approach	CSIR-IHBT, Palampur
<b>236</b>	Abignangurukar M S (10BB14A08020)	Nandini C.D	Create awareness among the banana cultivators regarding the effective utilization of banana stem waste for value addition	CSIR-CFTRI, Mysuru
<b>237</b>	SUTANU NANDI (10PP15J26030)	Ram Rup Sarkar	Controlling Covid-19 pandemic by monitoring social distancing and assessing the containment strategy	CSIR-NCL, Pune
<b>238</b>	Nikita Rathore (10BB16A33002)	Amit Chawla	Assessment of people's knowledge and perception about climate change and its impacts: A baseline survey in upper regions of district Kangra and Mandi of Himachal Pradesh	CSIR-IHBT, Palampur

<b>239</b>	Sneha Singh (10BB14A26043)	Kiran Kulkarni	A case survey to assess Human Health Risks associated with Air pollution	CSIR-NCL, Pune
<b>240</b>	Umar Ahmad Sheikh (10BB17A37012)	Sheikh Tasduq Abdullah	Ozone Layer Depletion and Emerging Public Health Concerns - An Update on Epidemiological Perspective of the Dual Effects of Ultraviolet Radiation Exposure	CSIR-IIIM, Jammu
<b>241</b>	Lingaraj A. Hadimani (20EE14A15006)	Neerja Garg	An insight into groundwater degradation and mitigation responses in Yaragatti village	CSIR-CSIO, Chandigarh
<b>242</b>	Rajeev Dwivedi (10PP17J32005)	Parag Sharma	Experimental Study of Germicidal Irradiance Measurement Errors Due to a Non- Ideal Cosine Response	CSIR-NPL, New Delhi
<b>243</b>	Sonam Perween (20EE15J32023)	Bhasker Gahtori	A Study on Passport Forgery and Forensic Investigations for Luminescent Features of Indian Passport	CSIR-NPL, New Delhi
<b>244</b>	Devi Prasanna Dash (10BB14A02012)	Debasis Dash	Protocol for amplification of CTSC genomic loci for sequencing in Hereditary Pancreatitis	CSIR-IGIB, New Delhi
<b>245</b>	Nazir Ahmed Lone (10BB15J37003)	Sheikh Tasduq Abdullah	Ultraviolet Radiation Exposure as skin Carcinogen for Melanoma: from Bench to Society	CSIR-IIIM, Jammu
<b>246</b>	Sunita Munda (10BB16A38016)	Mohan Lal	Socio-economic survey and awareness programme for enhancement of livelihood security	CSIR-NEIST, Jorhat
<b>247</b>	Manabi Paw (10BB18A38010)	Mohan Lal	Essential oil extraction of different aromatic herbs, shrubs and spices available in North East region	CSIR-NEIST, Jorhat
<b>248</b>	Yeeravalli Ragini (10BB15A18050)	Amitava Das	A Report on Epidemiology of Prostate Cancer in India	CSIR-IICT, Hyderabad
<b>249</b>	Maramraju Venkata Manasa (20EE15J18053)	G. Sarala Devi	Augmentation of Revenue to Sericulture Farmers through the Generation of Biogas and Biomanure from Sericulture Waste with Subsequent Nano Based Sensing Mechanism	CSIR-IICT, Hyderabad
<b>250</b>	Akshay Kulshrestha (10CC18J16002)	Arvind Kumar	Monitoring of the organic pollutants in different environmental matrices from the nearby vicinity of industrial zones in Gujarat	CSIR-CSMCRI, Bhavnagar

<b>251</b>	Bolatito Eunice Olanipekun (10CC18J18001)	Mangala Gowri	ISOLATION OF SECONDARY METABOLITES FROM MANGROVE PLANTS	CSIR-IICT, Hyderabad
<b>252</b>	Sandip Pal (10CC18J16005)	Uma Chatterjee	Analysis of collected water samples from different villages of Gujarat and West Bengal and do treatment to provide potable water	CSIR-CSMCRI, Bhavnagar
<b>253</b>	Vipendra Kumar Singh (10BB15J22010)	Yogeshwer Shukla	Awareness programme about oral cancer in rural areas of Lucknow	CSIR-IITR, Lucknow
<b>254</b>	Ajay Dev (10PP16A28001)	M Ram Mohan	ASSESSMENT OF SOIL CONTAMINATION IN NACHARAM INDUSTRIAL DEVELOPMENT AREA, HYDERABAD	CSIR-NGRI, Hyderabad
<b>255</b>	Dipendu Patra (10CC17J17006)	Sanjay Dutta	Health Hazardous Concerns for Over Use of Glyphosate Based Herbicides (GBHs) : A Case Study on Farmers at Haripal, West	CSIR-IICB, Kolkata
<b>256</b>	Neipihoi (10CC15A38004)	M J Bordoloi	An investigation on remediation of fluoride present in ground water: A survey of highly affected Tapatjuri region of Hojai District, Assam.	CSIR-NEIST, Jorhat
<b>257</b>	Rupali G. Kalshetti (10CC17J26013)	C.V. Ramana	Wealth From Waste Plastics - Roads, Fuel, Fabrics & Fibers	CSIR-NCL, Pune
<b>258</b>	T. Nandhini (10CC16J11001)	V.G. Vaidyanathan	Study on the multidimensional characteristics of foot measurements for children 14 to 15 years	CSIR-CLRI, Chennai
<b>259</b>	Mili Pal (20EE17A27002)	Asifa Qureshi	Visit and Need Assessment Report of Village - Ubali, Kalmeshwar, Nagpur	CSIR-NEERI, Nagpur
<b>260</b>	Monali Mukherjee (10BB14A08001)	Praveena B. Mudliar	Pilot Project Regarding Food Safety In Schools Under MDM	CSIR-CFTRI, Mysuru
<b>261</b>	Fadamoro Oluwafemi Festus (20EE16A14003)	Devesh Tiwari	Strength Characteristics of Stabilized Soil Using Ash (Cow Dung and Husk Waste)	CSIR-CRRI, New Delhi
<b>262</b>	Rupali Mohanty (10PP16A28009)	P Senthil Kumar	Artificial recharge and its implications in NGRI Experimental site (Choutuppal area), Nalgonda district.	CSIR-NGRI, Hyderabad

<b>263</b>	Om Prakash (10BB15A08008)	V.B. Kudachikar	ASSESSMENT OF FOOD FATIGUE AND MENU DIVERSIFICATION	CSIR-CFTRI, Mysuru
<b>264</b>	Supriya Sharma (10BB15A33004)	Damanpreet Singh	Handling peri and postmenopausal stress across Palampur area	CSIR-IHBT, Palampur
<b>265</b>	Himani Agrawal (10BB16A33003)	Mahesh Gupta	Encouragement of healthy eating habits through a nutritional survey among school going children of district Kangra (H.P.)	CSIR-IHBT, Palampur
<b>266</b>	Meena Ghosh (10CC16J26013)	Sreekumar Kurungot	Water scarcity, management and purification by capacitive deionization method	CSIR-NCL, Pune
<b>267</b>	Abhijit Bera (10CC14A26022)	B.L.V. Prasad	One Side Transparent Glass for Energy Harvesting	CSIR-NCL, Pune
<b>268</b>	Yerra Naga Veera (10CC17J18020)	T. Jagadeshwar Reddy	Identification of pesticide residues in food products by using TLC strip method	CSIR-IICT, Hyderabad
<b>269</b>	Govindaraj E (10BB15J08013)	Kunal Sharan	CRITICAL EVALUATION OF MID-DAY MEAL PROGRAMME IN GOVERNMENT SCHOOLS UNDER DIFFERENT TALUKS OF MYSURU DISTRICT, KARNATAKA	CSIR-CFTRI, Mysuru
<b>270</b>	Haraprasad Mandal (10CC16A18011)	Prakriti Ranjan Bangal	Application of Membrane Technology to Promote Rural Welfare	CSIR-IICT, Hyderabad
<b>271</b>	Promiocharles. F (20EE14J24003)	S. Raja	Population Accumulation is the source for major issues in Bangalore	CSIR-NAL, Bangalore
<b>272</b>	V.Venkata Ramana Kumar (10CC16A18041)	B. David Raju	PHEROMONE APPLICATION TECHNOLOGY (PAT)	CSIR-IICT, Hyderabad
<b>273</b>	Sunil B. Aute (10CC13A26004)	Amitava Das	Water Crises or Drought & Its Solution by Water Harvesting with Help of GOV.Org and NGO.	CSIR-NCL, Pune
<b>274</b>	Sajitha Surendren (10CC14J39007)	Biswapriya Deb	Utilization of waste Polyethylene terephthalate as partial replacement of sand in concrete for sustainable buildings	CSIR-NIIST, Thiruvananthapuram
<b>275</b>	Ashish Sharma (10CC15A26017)	Arup Kumar Rath	Dark realities behind the usage of commercially available skin lightening products (SLPs)	CSIR-NCL, Pune
<b>276</b>	Hazeena S. H. (10BB15A39019)	Binod P.	Biopolymer Based Breath Analyser for Lung Cancer Early Screening	CSIR-NIIST, Thiruvananthapuram

<b>277</b>	Sudhira Ranjan Bhadra (10PP15A29010)	Rajeev Saraswat	Benthic foraminiferal response to changes in mining pattern: A case study from the Zuari estuary, Goa, India	CSIR-NIO, Goa
<b>278</b>	Shreya Alokbbhai Bhatt (10CC15J16010)	Parimal Paul	Monitoring the quality of water in various areas of Bhavnagar and its impact on human health	CSIR-CSMCRI, Bhavnagar
<b>279</b>	Survi Mahesh (10BB13A03003)	Imran Siddiqi	workshop "Superheroes against Superbugs"	CSIR-CCMB, Hyderabad
<b>280</b>	Puttapaka Srinivas (10BB16J18026)	Shasi Vardhan Kalivendi	AFFORDABLE HEALTHCARE SCENARIO OF TELANGANA	CSIR-IICT, Hyderabad
<b>281</b>	Singu Padma Suryanarayan (10CC17A18022)	Ravindra M. Kumbhare	Application of Pheromone Application Technology	CSIR-IICT, Hyderabad
<b>282</b>	Purva Deepak Bhandari (10BB14J02004)	Sheetal Gandotra	Protocol for amplification of ARSA genomic loci for sequencing in MLD	CSIR-IGIB, New Delhi
<b>283</b>	Antim Kumar Maurya (10CC18J33009)	Vijai Kant Agnihotri	Identification of major issues related to Kangra tea industry and development of strategies for its socio economic upliftment	CSIR-IHBT, Palampur
<b>284</b>	V. Nagarjun Reddy (10CC17J18004)	S. Chandrasekhar	Awareness about Affordable health care and Environmental Pollution to School Children's	CSIR-IICT, Hyderabad
<b>285</b>	Nitesh Dhiman (10CC14A22010)	Satyakam Patnaik	"Raising mass awareness of plastic hazards in Pipersand village of Lucknow Tehsil, Uttar Pradesh (India)"	CSIR-IITR, Lucknow
<b>286</b>	Aditya Kumar Kar (10CC15A22017)	Satyakam Patnaik	"Diabetes: Symptoms, Causes and Treatment" Mass awareness about diabetes in rural areas of Uttar Pradesh	CSIR-IITR, Lucknow
<b>287</b>	Thorat Sagar Sudam (10CC15A26003)	Ravindar Kontham	Advantages of Pheromones over conventional pesticides	CSIR-NCL, Pune
<b>288</b>	Krishanu Samanta (10CC14A17011)	Ramalingam Natarajan	"Plastic pollution in West Bengal: Sources, Hazards and Solutions"	CSIR-IICB, Kolkata
<b>289</b>	Athawale Paresh Ramesh (10CC17J26033)	D. Srinivasa Reddy	Advantages of Pheromone over conventional pesticides	CSIR-NCL, Pune
<b>290</b>	Chandan (30EE15A41006)	Bala Pesala	Solar Photovoltaic Thermal System for Crop Drying Application	CSIR-SERC, Chennai

<b>291</b>	Mowkshi Khullar (10BB15J37018)	Zabeer Ahmed	Potential impact of cultivation of aromatic plants on empowerment of women in J & K region	CSIR-IIIM, Jammu
<b>292</b>	Himadri Das (10BB14A38011)	Dipul Kalita	MUSHROOM CULTIVATION TRAINING PROGRAMME AT DHEKIAJULI KONHAR GAON IN JORHAT DISTRICT, ASSAM	CSIR-NEIST, Jorhat
<b>293</b>	Rupa Bhowmick (10BB17J26062)	Ram Rup Sarkar	Social Awareness about the Socio-Economic Determinants of Post-Partum Infant Mortality and Maternal Mortality	CSIR-NCL, Pune
<b>294</b>	Shubhadeep Adak (10CC15J19002)	Rajaram Bal	Proposal and execution to reduce laboratory waste (Awareness among the students and staffs of CSIR-IIP Dehradun about laboratory waste management)	CSIR-IIP, Dehradun
<b>295</b>	Prantick Patra (10PP14A29005)	C. Mohandass	Rural public health awareness campaign to improve the perception of local community about drinking water, sanitation and hygiene	CSIR-NIO, Goa
<b>296</b>	Shrishail Guggari (20EE16J24005)	Shrishail Guggari	"Energy and Resource Management for Sustainable Living in an Apartment Community"	CSIR-NAL, Bangalore
<b>297</b>	Latha M (10BB14A08024)	P. Vijayaraj	Critical evaluation of food safety, nutritional adequacy and organizational efficiency of mid day meal scheme in schools of Mysore district: a pilot study	CSIR-CFTRI, Mysuru
<b>298</b>	Vereena Rodrigues (10BB15A10003)	V. Sundaresan	Elevating the lives of farmers through CSIR-CIMAP's intervention in cultivation of Palmarosa in Tiruvannamalai District, Tamil Nadu	CSIR-CIMAP, Lucknow
<b>299</b>	Dikki Pedelna Bomzan (10BB15A10011)	Dinesh A Nagegowda	INTER-CROPPING OF PALMAROSA AND MULBERRY TO IMPROVE THE LIVELIHOOD OF FARMERS OF MYSURE DISTRICT, KARNATAKA	CSIR-CIMAP, Lucknow

<b>300</b>	RAJA R (10BB14J10001)	Vikrant Gupta	Studies on traditional and commercial uses of different parts of neem tree grown in Bachankeda,Lucknow district,Uttar Pradesh and Porur, Chennai district,Tamilnadu	CSIR-CIMAP, Lucknow
<b>301</b>	Raghvendra Dubey (10BB14A25006)	PA Shirke	"Organic farming to increase crop production and income security for farmers of drought prone area"	CSIR-NBRI, Lucknow
<b>302</b>	Shipra Jain (10PP16A32002)	C. Sharma	End of life waste disposal and recycling issues of batteries: An emerging solution 'Hydroelectric cell'	CSIR-NPL, New Delhi
<b>303</b>	Ujjwal Kumar Nandi (10PP17J26052)	Sarika Maitra Bhattacharyya	Controlling Covid-19 pandemic by monitoring social distancing and assessing the containment strategy	CSIR-NCL, Pune
<b>304</b>	Lekha Dhote (20EE17A27001)	Sunil Kumar	Communities Need Assessment Survey at Village- Khapri Ubagi, Nagpur	CSIR-NEERI, Nagpur
<b>305</b>	Aakansha Rai (10BB13A02001)	Soumya Sinha Roy	Designing diagnostic primers and to prepare patient information brochure for Glutaric aciduria type 1 under the Rare disease India project	CSIR-IGIB, New delhi
<b>306</b>	Swati Gupta (10BB16J25001)	Puneet S. Chauhan	"Awareness program on increasing flood risk due to deforestation"	CSIR-NBRI, Lucknow
<b>307</b>	Hemant Bherwani (20EE18J27003)	Rakesh Kumar	Survey to Understand Dependency on Mangrove Habitats (To Improve Quality of Life by Understanding Socio-Economic Factors)	CSIR-NEERI, Nagpur
<b>308</b>	Gollapelli Krishna Kumar (10CC17A18004)	Ch. Rambabu	Environmental Impacts of Wastewater Management in India: From Waste Disposal to recovery of Resources	CSIR-IICT, Hyderabad
<b>309</b>	Gogu Venkata Surendra Babu (10CC16A18009)	T. Venkateswhar Rao	Application of Membrane Technology to Promote Rural Welfare	CSIR-IICT, Hyderabad
<b>310</b>	Santosh Kumar Beja (10PP14A28005)	Shakeel Ahmed	Groundwater quality of Choutuppal, Hyderabad, Telangana, India	CSIR-NGRI, Hyderabad

<b>311</b>	Arpitha H S (10BB15J08011)	Ganesan P.	Pilot project regarding food safety in schools under mid-day meal scheme	CSIR-CFTRI, Mysuru
<b>312</b>	Anindita Mahapatra (10BB17A17002)	Krishnananda	Brief Survey and Awareness Campaign on the Evils of Plastic Use and Its Reduction	CSIR-IICB, Kolkata
<b>313</b>	Maruthapandian V. (10CC16A05002)	V. Saraswathy	Analyses of soil nutrients in Agriculture fields of Sakkottai Block and efficient method of horticulture practises for urban home needs	CSIR-CECRI, Karaikudi
<b>314</b>	Sk Javed Miadad (20EE13A31005)	B. Ravi Kumar	Study of Bankura coal for Brass Melting in Brass Melting Furnace for Rural Bankura Artisans	CSIR-NML, Jamshedpur
<b>315</b>	Shaunak Anilkumar Burse (10BB15A02031)	Vivek T Natarajan	Skincare awareness and debunking the common myths about the skin	CSIR-IGIB, New Delhi
<b>316</b>	Pratibha Gautam (20EE17A27004)	Sunil Kumar	Solid Waste Management Program at Jitali Village	CSIR-NEERI, Nagpur
<b>317</b>	Vishal Das (10BB16A38019)	C Chikkaputtaiah	A SOCIO-ECONOMIC SURVEY OF JALUKGAON – A VILLAGE IN SIVASAGAR DISTRICT, AND THE ROLE OF CSIR- NEIST IN IMPROVEMENT OF ITS RURAL EMPLOYMENT AND LIFESTYLE THROUGH MSME (MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES) INTERVENTION	CSIR-NEIST, Jorhat
<b>318</b>	Rajesh K Dash (10PP16A01001)	D.P. Kanungo	Drainage Measures Design for Gadora Village Subsidence Zone in Garhwal Himalayas (Uttarakhand)	CSIR-CBRI, Roorkee
<b>319</b>	Lakhi Sharma (10PP16A32021)	Subhasis Panja	Necessity of Two Time Zones in India for improving Socio-economic Infrastructural quality of Northeasterners	CSIR-NPL, New Delhi
<b>320</b>	Upasana Panda (10CC18J36009)	Trupti Das	INVESTIGATION OF NECESSITY OF ENVIRONMENTAL STUDIES FOR THE YOUNG MASS OF CLASS 9TH AND 10TH STUDENTS AT DHENKANAL DISTRICT, ODISHA.	CSIR-IMMT, Bhubaneswar
<b>321</b>	Sandip Chakraborty (10CC17A39001)	A. Ajayaghosh	Colorimetric and Fluorometric Detection of Alkaline Phosphatase	CSIR-NIIST, Thiruvananthapuram

<b>322</b>	Nimisha Sarah Mathew (10BB14A08026)	P S Negi	Pilot Project Regarding Food Safety in Schools Under MDM	CSIR-CFTRI, Mysuru
<b>323</b>	Indukuri Divakar Reddy (10CC16A18013)	A. Manjula	Awareness about the usage of crop protection chemicals and role of IICT in developing crop protection chemicals to school children's	CSIR-IICT, Hyderabad
<b>324</b>	Karnekanti Dhanalaxmi (10CC16J18004)	John Mondal	Pheromone Application Technology-Fruit Fly Management	CSIR-IICT, Hyderabad
<b>325</b>	Mounica Jakkula (10PP15J28002)	Kirti Srivastava	Tsunami Induced Forces along Thiruvananthapuram Coast due to 1945 Makran Earthquake	CSIR-NGRI, Hyderabad
<b>326</b>	Puspita Barik (10PP15J27003)	K. Krishnamurthi	Remediation of Fly Ash Dumpsites through Plantation- A case study at Koradi, Nagpur-Maharashtra, India.	CSIR-NEERI, Nagpur
<b>327</b>	Syed Anees Ahmed (10BB18A04027)	Jiaur R Gayen	Survey on knowledge, attitude, & clinical aspects of liver disease patients	CSIR-CDRI, Lucknow
<b>328</b>	Rekha Agarwal (20EE15J32024)	R.K. Kotnala	Harmful Effects of mobile radiations on human health and how to prevent it	CSIR-NPL, New Delhi
<b>329</b>	Sukanya Borthakur (10CC17A38005)	L Saikia	SOCIO-ECONOMIC, HEALTH & AGRICULTURE SURVEY	CSIR-NEIST, Jorhat
<b>330</b>	Ravinder Guduru (10CC16A18034)	Galla V. Karunakar	Overview of Cotton, Contribution of CSIR-IICT to Agrochemicals and a Detailed Study of Acephate and Phorate	CSIR-IICT, Hyderabad
<b>331</b>	Ganesh P. (20EE15J41001)	A. Ramachandra Murthy	Sustainable Concrete made of Recycled Coarse Aggregate for low cost housing	CSIR-SERC, Chennai
<b>332</b>	Anupam Biswas (10CC18A26001)	Durba Sengupta	Organic food: A step towards a healthier society	CSIR-NCL, Pune
<b>333</b>	Sourav Pal (10CC18A17009)	Arindam Talukdar	Swachh India: an initiative towards the waste management in India for human well being	CSIR-IICB, Kolkata
<b>334</b>	Nikhita R (10BB14A08027)	N M Sachindra	Pilot Project Regarding Food Safety in Schools under MDM	CSIR-CFTRI, Mysuru

<b>335</b>	Rashmirekha Samal (10CC13A36020)	Barsha Dash	INVESTIGATION OF NECESSITY FOR CLASS IXTH AND XTH STUDENTS OF KORAPUT DISTRICT (ODISHA) TOWARDS POPULARIZING BIOLOGICAL SCIENCE AMONG THE YOUNG MASS.	CSIR-IMMT, Bhubaneswar
<b>336</b>	S. Arun (10CC16J05006)	Sundar Mayavan	Synthesis of high purity lead monoxide from spent lead acid batteries via low temperature hydrometallurgy process	CSIR-CECRI, Karaikudi
<b>337</b>	Dhwani Dholakia (10BB14A02013)	Mitali Mukerji	Effect of air quality and work environment on normal lung function of healthy adults working in waste disposal plant in Delhi: A spirometry based study	CSIR-IGIB, New Delhi
<b>338</b>	Bikash Sharma (10CC15A18002)	Rohit Kumar Rana	Renewing Commitment for a Leprosy Free World	CSIR-IICT, Hyderabad
<b>339</b>	Ambaji Pawar (10CC14A26006)	S.P. Chavan	Awareness about corona virus (Covid-19) infection and its preventive measures.	CSIR-NCL, Pune
<b>340</b>	Divya Velayudhan V. V. (10CC15A39004)	Suresh C H	Childhood Obesity: A Reason to Rethink on Food Habits	CSIR-NIIST, Thiruvananthapuram
<b>341</b>	Deviprasad. R (10CC15A18058)	M. Mohana Reddy	Effect of Pesticides on Symbiosis (Metabolism) and Environment: An Overview	CSIR-IICT, Hyderabad
<b>342</b>	Divya Karade (10BB15J26034)	M Karthikeyan	Analysis of consumers awareness about the selected food products marketed as healthy	CSIR-NCL, Pune
<b>343</b>	Sangita Kumari (10CC17J19007)	Om P. Khatri	Proposal Theme: Lab Waste Management	CSIR-IIP, Dehradun
<b>344</b>	Aabha Satish Deshpande (10PP14A29001)	Narsinh Thakur	Sustainable practices in Aquaculture and Livelihood diversification for Artisanal fisherfolk of Goa	CSIR-NIO, Goa
<b>345</b>	Nipa Basak (10BB14J03001)	K Thangaraj	Interaction with High school students for motivating them to take up a career in science	CSIR-CCMB, Hyderabad
<b>346</b>	Ramanand Yadav (10PP16A29004)	Sushant Naik	GIS based groundwater potential mapping along the south Ratnagiri coast, India using artificial neural network model	CSIR-NIO, Goa
<b>347</b>	Rohit Rana (10CC16A33015)	Sushil Kumar Maurya	Impact of Moringa oleifera seeds on wastewater treatment	CSIR-IHBT, Palampur

<b>348</b>	Digambar Kambale (10CC15J26018)	Ravindar Kontham	Biodiesel From Feedstock: A Profitable Rural Economy and Sustainable Energy Requirement	CSIR-NCL, Pune
<b>349</b>	Johnpaul K. P. (10CC16A39003)	Vijayakumar C.	Monitoring the Violation of PFA Act Regulations Imposed on Iodized Table Salts	CSIR-NIIST, Thiruvananthapuram
<b>350</b>	Sowmya Shree G (10BB16A08011)	Ganesan P	Shelf life extension of fresh Neera for 2-3 days benefitting the farmers	CSIR-CFTRI, Mysuru
<b>351</b>	Surbhi Lambhate (10BB16J18032)	Nishant Jain	HEAVY METAL CONTAMINATION IN HYDERABAD	CSIR-IICT, Hyderabad
<b>352</b>	Vibha Shukla (10BB14J22006)	Anurag Tripathi	Awareness creation programme regarding to adulteration of Khesari daal in Arhar (Tuhar	CSIR-IITR, Lucknow
<b>353</b>	Saba Qureshi (10BB15J22006)	Ratan Singh Ray	Awareness programme on mosquito borne diseases- Malaria, Dengue and Chikungunya in rural area of Kanpur	CSIR-IITR, Lucknow
<b>354</b>	Renuka (10BB15J22005)	Alok K Pandey	To Create Awareness about Harmful Effect of Pesticides and Its Alternative in the Rural Area of Lucknow	CSIR-IITR, Lucknow
<b>355</b>	Madiha Haider (10BB14A02020)	Mitali Mukerji	Effect of air quality and work environment on normal lung function of healthy adults working in waste disposal plant in Delhi: A spirometry based study	CSIR-IGIB, New Delhi
<b>356</b>	Moloya Gogoi (10BB18A38015)	Rinku Baishya	Preparation and characterization of herbal bathing bars	CSIR-NEIST, Jorhat
<b>357</b>	Vidisha Bist (10BB17J25004)	Suchi Srivastava	"Disseminating awareness about quality of potable water among the villagers of Unnao in Uttar Pradesh"	CSIR-NBRI, Lucknow
<b>358</b>	Tirpude Narendra Vijay (10BB18J33005)	Vishal Acharya	Saponin based product for the stored grains protection from the pest: Preparative demonstration at the rural level	CSIR-IHBT, Palampur
<b>359</b>	Ramesha R N (10CC15J05004)	K Ramesha	Low-cost housing: An approach of affordable shelter	CSIR-CECRI, Karaikudi

<b>360</b>	Bommana Raghunath Reddy (10BB15A18039)	Sumana Chakravarty	Culture of Zebrafish in lagoons of paddy fields – A cost effective income source to the farmers	CSIR-IICT, Hyderabad
<b>361</b>	Dhanya M. (10BB16J39008)	Madhavan Nampoothiri K.	Comprehensive Study On Arsenic Removal in Ground Waters of West Bengal by Eichhornia Crassipes in Rural Areas	CSIR-NIIST, Thiruvananthapuram
<b>362</b>	Gajaria Tejal Kanaiyalal (10BB16J16004)	Vaibhav Mantri	Microbial diversity and physico-chemical parameters of potable water associated with the pre-summer season in the Bhavnagar district, Gujarat	CSIR-CSMCRI, Bhavnagar
<b>363</b>	Niteen Patil (10CC17J26004)	Subhash P. Chavan	Awareness about corona virus (COVID-19) infection and its preventive measures	CSIR-NCL, Pune
<b>364</b>	Shuhailath K. A. (10CC14J39009)	Ananthakumar S.	Eco-Friendly Mosquito Repellent Cake from Floral Waste: - Processing, Performance Comparison and Heavy Metal Analysis	CSIR-NIIST, Thiruvananthapuram
<b>365</b>	Shikha Dubey (10BB15A04007)	Ravishankar Ramachandran	Creating awareness of vaccination amongst pregnant women in village Nawa Khera of Lucknow district	CSIR-CDRI, Lucknow
<b>366</b>	Mahendra Pawar (10PP17A26044)	T. G. Ajithkumar	Paani Foundation: Initiative Towards Drought Free Maharashtra	CSIR-NCL, Pune
<b>367</b>	Sumita Chakraborty (10BB13A02016)	Mitali Mukerji	To improve quality of life-affordable healthcare: Genetic testing of Myopathy due to Myoadenylate Deaminase Deficiency	CSIR-IGIB, New Delhi
<b>368</b>	Ankit Kumar Dhiman (10CC18A33022)	Upendra Sharma	Development of Mosquito Repellent Incense Sticks from the Local Aromatic Plants Promotes Self-Reliant India	CSIR-IHBT, Palampur
<b>369</b>	Bankar Balasaheb Dnyandeo (10CC16A16006)	Ankush V. Biradar	Soil and water analysis from different farms from the coastal and non-costal area of Gujarat and Maharashtra states for the suggestion of improving crop yields	CSIR-CSMCRI, Bhavnagar
<b>370</b>	Bhalani Dixit Vinubhai (10CC17A16004)	Suresh Kumar Jewrajka	Monitoring of the inorganic pollutants in different environmental matrices from the nearby vicinity of Dahej, Bharuch and Panoli GIDC's in Gujarat	CSIR-CSMCRI, Bhavnagar

<b>371</b>	Peddamasthanaiah Ette (10CC15A05006)	K. Ramesha	Report on Ground Water Quality in Karaikudi, Tamil Nadu	CSIR-CECRI, Karaikudi
<b>372</b>	Shubham Singhal (20EE18A01001)	Ajay Chourasia	RAIN WATER HARVESTING SYSTEM WITH THE BOREWELL RECHARGE PIT FOR RURAL AREAS	CSIR-CBRI, Roorkee
<b>373</b>	Janhavi P (10BB16J08008)	S P Muthukumar	BREAKFAST FOOD HABITS IN SCHOOL CHILDREN	CSIR-CFTRI, Mysuru
<b>374</b>	Sangaraju Rajendra (10BB16A18068)	S. Ramakrishna	Phytochemicals in rheumatoid arthritis prevention and therapy: a Complementary approach with promoting perspectives	CSIR-IICT, Hyderabad
<b>375</b>	Neakanshika Chadha (10CC16J32011)	Parveen Saini	Lithiumion Batteries: Status, Recycling and Future	CSIR-NPL, New Delhi
<b>376</b>	Sakpal Sushil Suresh (10CC16A26019)	Sayan Bagchi	Epidemic diseases: From social media to the economical balance of society	CSIR-NCL, Pune
<b>377</b>	Aamir Rashid Chowdhary (20EE18A14006)	Nasim Akhtar	Planning &Construction of Barsala Khul to Increase the Irrigation Potential of the Area	CSIR-CRRI, New Delhi
<b>378</b>	Jadhav Uma Arjun (10BB15J26037)	Narendra Kadoo	Understanding and strengthening the dietary intake pattern of women of reproductive age in Pune	CSIR-NCL, Pune
<b>379</b>	Pisal Mahesh Madanrao (10CC17A26006)	Subhash P. Chavan	Awareness about coronavirus (COVID-19) infection and its preventive measures	CSIR-NCL, Pune
<b>380</b>	Deshmukh Gunvant Rajkumar (10CC15A26028)	K. Krishnamoorthy	Different kind of wastes its disposal and reuse our perspective towards utilisation of liquid waste	CSIR-NCL, Pune
<b>381</b>	Nandan Kumar (10BB15A18051)	G. Narahari Sastry	Socio-Economic assessment of microfilaria prevalence in three villages of Karimnagar District	CSIR-IICT, Hyderabad
<b>382</b>	Yennamaneni Divya Rohini (10CC18A18041)	N. Narender	Applications of zeolites for removal of heavy metals from water.	CSIR-IICT, Hyderabad
<b>383</b>	Asish Kumar Singh (20EE15A06004)	Ranjan Barik	Study and Development of Reduced Graphene Oxide (rGO) Membranes for Water Purification Applications	CSIR-CEERI, Pilani

<b>384</b>	Santhi S. (10CC15J39003)	Radhakrishnan K.V.	Adulteration of Medicinal Plants in Sahacharadi Kashayam-An Ayurvedic Polyherbal Formulation	CSIR-NIIST, Thiruvananthapuram
<b>385</b>	Neethu S. (10CC16J39004)	Radhakrishnan K.V.	Floor Cleaning Liquids from Natural Origin: Natural Remedies for A Greener and Cleaner Environment	CSIR-NIIST, Thiruvananthapuram
<b>386</b>	Chakali Madhu (10CC15A18056)	Prakriti Ranjan Bangal	Desirable Tools for Solving Current Social Problems Through Polymeric Materials & Optical Electronic Devices	CSIR-IICT, Hyderabad
<b>387</b>	Poornima R. Rangnathan (10BB15J10007)	Venkata Rao, D.K.	CSIR-CIMAP's intervention to improve the livelihood of farmers of Mysuru District, Karnataka by co-cultivation of Palmarosa and Coconut	CSIR-CIMAP, Lucknow
<b>388</b>	V Devi Prasad (10BB13A03001)	Tushar Vaidya	Workshop on "Superheroes against Superbugs"	CSIR-CCMB, Hyderabad
<b>389</b>	Devendra sethi (10PP15J32010)	Chhemendra Sharma	Assessment of the Heat Stress Vulnerability in Delhi on Human Health	CSIR-NPL, New Delhi
<b>390</b>	Kaushal Kishore (32EE14A06002)	S.A. Akbar	Ensuring Un-Interrupted Power Supply in Indian Farms And Villages Using Solar Tree	CSIR-CEERI, Pilani
<b>391</b>	Chhavi Dawar (10BB15A03001)	Puran Singh Sijwali	Empowering children against "Child Sexual Abuse"	CSIR-CCMB, Hyderabad
<b>392</b>	Sameer Ahmad Mir (10BB15J37017)	Fayaz Ahmad Malik	High Mortality rate and Breast Cancer awareness: The Kashmir perspective	CSIR-IIIM, Jammu
<b>393</b>	Swapna Sasi. U.S (10BB16A39016)	Raghu K.G.	Development of Herbal Sanitizers & Determining their Anti-Microbial Activities against some Habitual Pathogens	CSIR-NIIST, Thiruvananthapuram
<b>394</b>	Chegu Krishnamurthi Madhubalaji (20EE17A08018)	Sandeep N Mudliar	CREATION OF VALUE CHAIN AND NETWORK FOR FOOD MICRO-ENTREPRENEURS IN MYSURU CITY	CSIR-CFTRI, Mysuru
<b>395</b>	Jayati Trivedi (20EE14A19003)	Deepti Agrawal	Potential of Microalgae Scenedesmus obliquus for phycoremediation of waste water along with Biofuel production	CSIR-IIP, Dehradun

<b>396</b>	Richa Pahuja (10BC14A02024)	Pradeep Kumar	Awareness programme about the role of pesticide exposure as one of the major causes of Parkinson's disease; harmful effects of chemical pesticides, and precautionary and dietary measures to be followed	CSIR-IGIB, New Delhi
<b>397</b>	Peddakasu Gangabhavani (10CC16J18018)	A. Venugopal	Awareness programme to School Children about Affordable health care with Water pollution	CSIR-IICT, Hyderabad
<b>398</b>	Abdul Motlab (10CC16J26007)	Pradip Maity	Organic Farming: Benefits on Health and Environment Over Conventional Farming	CSIR-NCL, Pune
<b>399</b>	Vinayashree S (10BB15A08006)	Prasanna Vasu	Assessment of food fatigue and Menu diversification	CSIR-CFTRI, Mysuru
<b>400</b>	Deepak Sharma (20EE17J32023)	V.P.S. Awana	Self- Sustainable Environment- Friendly Economic House in Rural Rajasthan	CSIR-NPL, New Delhi
<b>401</b>	Archana Katoch (10BB15A37002)	Anindya Goswami	Health benefits of Boswellia Serrata (Indian frankincense) and its pharmacological applications	CSIR-IIIM, Jammu
<b>402</b>	Mohammad Shafiq (10BB15A04005)	Kashif Hanif	Cardiovascular Complications in Respiratory Diseases	CSIR-CDRI, Lucknow
<b>403</b>	Yogalakshmi (32EE16A41001)	K. Balaji Rao	Precast pretensioned ferrocement roofing elements for low cost housing	CSIR-SERC, Chennai
<b>404</b>	ARYA V. B (10PP14A45001)	Sajani Surendran	"Investigation of impact of particulate matter pollution on human health and preventive measures to reduce the health risks: Case study over the industrial area of Kochi, Kerala"	CSIR-4PI, Bangalore
<b>405</b>	Sakthi Prasad S (30EE15A09002)	Kaushik Biswas	Utilization of Waste Glass Powders in the Firing of Natural Clay for the Production of Fired Clay Bricks	CSIR-CGCRI, Kolkata
<b>406</b>	Shaifali (10CC16A33017)	Pralay Das	Impact of Moringa oleifera seeds on wastewater treatment	CSIR-IHBT, Palampur
<b>407</b>	Pankaj K. Prajapati (10CC16A19004)	Suman L. Jain	Development of the strategy for the lab waste management at CSIR-Indian	CSIR-IIP, Dehradun

			Institute of Petroleum (IIP), Dehradun	
<b>408</b>	Dhote Pawan Surendra (10CC17A26015)	C.V. Ramana	Wealth From Waste Plastics - Roads, Fuel, Fabrics & Fibers	CSIR-NCL, Pune
<b>409</b>	Indrani Nandi (10BB16A17003)	Krishnananda Chattopadhyay	Estimation of Toxic Lead Ions [Pb2+] in Water in Kolkata and the Suburban Areas around Kolkata	CSIR-IICB, Kolkata
<b>410</b>	Aswathy K. (10PP15A39015)	Manoj Raama Varma	Shampoos are cleaning our hair! Without any side effects?	CSIR-NIIST, Thiruvananthapuram
<b>411</b>	Digvijay Singh (10BB16A18057)	Amitava Das	Pheromone Application Technology: Preparation of supply of Pink Boll Worm Pheromone lures for farmers	CSIR-IICT, Hyderabad
<b>412</b>	Abhishek Shrikrishna Khapre (20EE17A27006)	Sunil Kumar	Visit and Need Assessment Report of Village - Khapri Ubagi, Nagpur	CSIR-NEERI, Nagpur
<b>413</b>	Ramit Kumar Mondal (20EE16A06003)	Suchandan Pal	LED and Ultra-sound Based Insects Killer	CSIR-CEERI, Pilani
<b>414</b>	Kapil Mandrah (10CC15A22019)	Somendu Roy	"Social awareness for COVID-19 in rural population" Defense, Deliverance and Immune Boosting	CSIR-IITR, Lucknow
<b>415</b>	Kanchan Sambhwani (10BB16A16010)	Vaibhav Mantri	Composting of available waste material using biological process to promote organic farming	CSIR-CSMCRI, Bhavnagar
<b>416</b>	Manoj semwal (10BB16A10008)	Rajesh Kumar Verma	Studies on precise nutrient management on the essential oil yield of Menthol mint ( <i>Mentha arvensis</i> ) in Barabanki District	CSIR-CIMAP, Lucknow
<b>417</b>	Washim Reza Ali (20EE18A06013)	Mahanth Prasad	Development of a low cost portable bio-gas plant to generate cooking gas & lighting from household organic kitchen-waste	CSIR-CEERI, Pilani
<b>418</b>	Viney (20EE16A15003)	Prasant K. Mahapatra	A Smart Appointment system for the hospitals	CSIR-CSIO, Chandigarh
<b>419</b>	Jaya lakshmi nagam (20EE15J24001)	G.K. Singh	Emergency Deployment of Medical Supplies Using Drones	CSIR-NAL, Bangalore
<b>420</b>	Charul Rajput (10BB15A22004)	M P Singh	A survey to assess and create awareness about COVID-19	CSIR-IITR, Lucknow

			in a few local pockets of Lucknow region	
<b>421</b>	Anil Kumar Singh (10BB15A22001)	Abhay Raj	Public Awareness program about waterborne disease in rural area of Lucknow	CSIR-IITR, Lucknow
<b>422</b>	Sahiba Bano (10PP17J32007)	S.P. Singh	Synthesis and Characterization of High Surface Area Activated Carbon via Jute Stick Powder for Waste Water Treatment	CSIR-NPL, New Delhi
<b>423</b>	Krishnakumari Pamula (10CC17J18022)	N. Lingaiah	Preparation of silica and activated carbon from naturally available biomass by-products and their applications in catalysis	CSIR-IICT, Hyderabad
<b>424</b>	Anupam Tripathi (10CC15A26009)	Subhash P. Chavan	Awareness about corona virus (COVID-19) infection and its preventive measures.	CSIR-NCL, Pune
<b>425</b>	Kumud Sharma (10CC16A38007)	Pranjal Gogoi	ASSESSMENT OF INORGANIC AND BIOLOGICAL WATER QUALITY OF SOME GROUND WATER SAMPLES FROM SOME VILLAGES OF MAJULI DISTRICT	CSIR-NEIST, Jorhat
<b>426</b>	Harmeet Kaur (20EE16A15008)	Amit L. Sharma	Coal fly ash- an Environmental Hazard or a Valuable by Product: A Demonstration in District Bathinda, Punjab	CSIR-CSIO, Chandigarh
<b>427</b>	G. Ellamparuthy (20EE13A36002)	Shivakumar Angadi	POST HARVESTING TECHNOLOGIES FOR MUSHROOM – A TECHNO-ECONOMIC SURVEY AT KORAPUT.	CSIR-IMMT, Bhubaneswar
<b>428</b>	Vallamkondu Manasa (10BB17A08010)	Ajay Wamanrao Tumaney	CREATION OF VALUE CHAIN AND NETWORK FOR FOOD MICRO-ENTREPRENEURS IN MYSURU CITY	CSIR-CFTRI, Mysuru
<b>429</b>	Kunde Pushkar Dnyaneshwar (10CC11J26031)	S.P. Kamble	A survey for assessment of public awareness regarding edible oils & fats and related health risks	CSIR-NCL, Pune
<b>430</b>	Punamshree Das (10CC18A38004)	M R Das	Demonstration and documentation of STINER and other rural technologies	CSIR-NEIST, Jorhat

<b>431</b>	Sayantan Paul (10CC14A26012)	Asish Kumar Bhattacharya	A Study Towards Opportunities For Urban Women To Improve Quality of Life In Budge Budge I Block, West Bengal: Ornamental Fish Breeding, Culture And Export	CSIR-NCL, Pune
<b>432</b>	Mohammad Fareed Khan (10BB16J22002)	Poonam Kakkar	Awareness Programme on Diabetes in village Jariyari with special focus on Diabetic Nephropathy	CSIR-IITR, Lucknow
<b>433</b>	Patil Shivprasad Suresh (10BB18A33005)	Upendra Sharma	Saponin based product for the stored grains protection from the pest: Preparative demonstration at the rural level	CSIR-IHBT, Palampur
<b>434</b>	Vishal Shrivastav (10PP17A15002)	Umesh Kumar Tiwari	Paper and Plastic Waste- An Environmental Hazard or a Valuable By-Product?	CSIR-CSIO, Chandigarh
<b>435</b>	Sarita Singh (10CC18J10013)	Atul Gupta	"A comparative study of traditional and various synthetic medicines on rural people health"	CSIR-CIMAP, Lucknow
<b>436</b>	Parnapalle Ravi (10CC18A05003)	M. Sathish	Design and prototyping of energy efficient, portable, low-cost egg incubator	CSIR-CECRI, Karaikudi
<b>437</b>	Abhishek Kumar Gupta (10PP18A28024)	Prantik Mandal	Earthquake Awareness in Hyderabad City	CSIR-NGRI, Hyderabad
<b>438</b>	Bhatt Kavya Sridhar (10BB14A08006)	Sachin M. Eligar	Pilot Project Regarding Food Safety in Schools under Mid- Day Meal Scheme	CSIR-CFTRI, Mysuru
<b>439</b>	Ranjana Sharma (10CC17J33013)	Dinesh Kumar	Identification of major issues related to Kangra tea industry and development of strategies for its socio economic upliftment	CSIR-IHBT, Palampur
<b>440</b>	Sandeep Singhai (20EE14A15009)	H K Sardana	Waste Water Management in Village (Assessment & Solution: Village Gharuan)	CSIR-CSIO, Chandigarh
<b>441</b>	Mane Maya Balasaheb (20EE17J26065)	V.M. Bhandari	Technical Audit and Consultancy to Sewage Treatment Plant (STP) of Housing Society	CSIR-NCL, Pune
<b>442</b>	Rahul Kumar (10CC17A16006)	S Adimurthy	Soil and water analysis from Bhavnagar District (Sihor) for the benefit of food and agriculture and suggestion to farmers for improvement of crop yields	CSIR-CSMCRI, Bhavnagar

<b>443</b>	Chandan Kumar Mishra (10PP14A29007)	Pawan Dewangan	Cold seeps ecosystem: a sensitive environment and a natural hazard	CSIR-NIO, Goa
<b>444</b>	Ambika Bawa (10PP16A32004)	Rajesh	Recent Trends in Display Applications: A Survey	CSIR-NPL, New Delhi
<b>445</b>	Akanksha (10PP14A27001)	Krishna Khairnar	Visit and Need Assessment Report of Village - Khapri Ubagi, Nagpur	CSIR-NEERI, Nagpur
<b>446</b>	Debanjan Bhattacharjee (10BB17J18044)	Nishant Jain	A Brief Timeline of Human Corona Viruses Evolution to its alternative Treatments	CSIR-IICT, Hyderabad
<b>447</b>	Sravanthi Vemireddy (10BB16A18071)	H.M. Sampath Kumar	Effective Control of Dengue through Nano-materials	CSIR-IICT, Hyderabad
<b>448</b>	Suresh Babu G N (20EE15A05007)	N. Kalaiselvi	Reduction of salinity in agricultural soil by Electrokinetics (EK)	CSIR-CECRI, Karaikudi
<b>449</b>	Davuluri Syam Babu (20EE18A27006)	P.V. Nidheesh	Remediation of Fly Ash Dumpsites through Plantations - A Case Study at Koradi, Nagpur - Maharashtra, India	CSIR-NEERI, Nagpur
<b>450</b>	Ritesh Kumar Gupta (20EE15A35006)	S.A.R. Hashmi	AGRICULTURAL WASTE MANAGEMENT BY USING PARTICIPATORY RURAL APPRAISAL (PRA) METHOD	CSIR-AMPRI, Bhopal
<b>451</b>	Sibadatta Senapati (10CC17J26040)	C.V. Ramana	Effect of Laboratory Gases/Organic Compounds on Health and Environment	CSIR-NCL, Pune
<b>452</b>	Nitai Sarkar (10CC15A26008)	S. Shashidhar	Report on Green firecrackers can reduce environmental pollution	CSIR-NCL, Pune
<b>453</b>	Rupanawar Bapurao (10CC16A26002)	Gurunath Suryavanshi	Milk and Milk Products Adulteration: Human Health and General Awareness	CSIR-NCL, Pune
<b>454</b>	Venkadesh A (10CC18J05004)	S. Radhakrishnan	Design and validation of indigenous electrochemical immunosensor platform for Dengue diagnosis: affordable healthcare study	CSIR-CECRI, Karaikudi
<b>455</b>	Shruti Sharma (10CC16A33018)	Dinesh Kumar	Impact of Moringa oleifera seeds on wastewater treatment	CSIR-IHBT, Palampur
<b>456</b>	Rajeev V. R. (10PP14A39011)	Narayanan Unni K.N.	Mitigation of UV hazards faced by outdoor workers: Role of quality umbrellas	CSIR-NIIST, Thiruvananthapuram
<b>457</b>	Virender Singh (20EE16J15003)	Sunita Mishra	Optimization of Artificial Groundwater Recharge	CSIR-CSIO, Chandigarh

<b>458</b>	Nalini Pareek (32EE14A06013)	Anirban Bera	Bhumi Care: An Advance Wiper for the New Normal	CSIR-CEERI, Pilani
<b>459</b>	Neethu Emmanuel (20EE18J39008)	Yoosaf Karuvath	Pharmaceutical waste removal from water resources by UV photolysis	CSIR-NIIST, Thiruvananthapuram
<b>460</b>	Ashish Kumar Sonker (10BB15A22003)	Sheelendra Pratap Singh	Awareness program for the safe use of pesticide in field to overcome their toxic exposure in rural areas of Lucknow	CSIR-IITR, Lucknow
<b>461</b>	Ashish Kumar (10PP16A32014)	Ritu Srivastava	Awareness of drinking water for village peoples: A Survey.	CSIR-NPL, New Delhi
<b>462</b>	Girija Shankar Papnai (10PP17J32009)	Bipin Kumar Gupta	A Global Survey on Prospects of Graphene Assisted SARS-CoV-2 Detection Devices	CSIR-NPL, New Delhi
<b>463</b>	Swati Chaturvedi (10BB18A04026)	Wahajuddin	Survey on clinical aspects of Tuberculosis disease	CSIR-CDRI, Lucknow
<b>464</b>	Sandeep Kumar Singh (10BB17A04032)	Wahajuddin	Survey on factors associated with behavioural changes and Anxiety during Covid-19 pandemic among people	CSIR-CDRI, Lucknow
<b>465</b>	Monalisa Mohanty (10BB14J36009)	B.S. Jena	BIO-INOCULANTS FOR SUSTAINABLE AGRICULTURE TECHNOLOGY FOR GVK-KORAPUT.	CSIR-IMMT, Bhubaneswar
<b>466</b>	Monika Malik (10CC14A26020)	Pankaj Poddar	Is artificial food color harmless fun or health peril?	CSIR-NCL, Pune
<b>467</b>	Thonda V S S Swaroop (10BB16A18074)	Shasi V. Kalivendi	REDUCING THE SCALE AND INFLUENCE OF CLIMATE CHANGE	CSIR-IICT, Hyderabad
<b>468</b>	Hingamire Tejashri Bhimashankar (10BB16J26023)	Dhanasekaran Shanmugam	The impact of COVID19 Pandemic on Indian Education System	CSIR-NCL, Pune
<b>469</b>	Paliwal Avinash Subhash (10PP17J06001)	Manish Mathew	Smart Vegetable Container	CSIR-CEERI, Pilani
<b>470</b>	Pulak Sarkar (10CC18A16004)	Santanu Karan	Soil and water quality analysis for the presence of organic solvents in different industrial zones near Gujarat Industrial Development Corporation (GIDC) of Vadodara, Gujarat	CSIR-CSMCRI, Bhavnagar
<b>471</b>	Ahmed Mobeen (10BB14A02003)	Srinivasan Ramachandran	OMGDx: Sequencing Based Diagnostic Assay for Congenital Leptin Deficiency	CSIR-IGIB, New Delhi
<b>472</b>	Vemula Madhu (10CC17J18036)	UVR Vijaya Sarathi	Identification of pesticide residues in food products by using simple methods	CSIR-IICT, Hyderabad

<b>473</b>	Kandula Manasa (10CC17J18027)	Venugopal Akula	Preparation of silica and activated carbon from naturally available biomass by-products and their applications in catalysis	CSIR-IICT, Hyderabad
<b>474</b>	Makani Venkata Krishna Kanth (10BB18A18067)	Manikapal Bhadra	Role of small molecular modulators of microRNA expression in disease mechanisms	CSIR-IICT, Hyderabad
<b>475</b>	Mayuri Mukherjee (10BB15A17001)	Sucheta Tripathy	A Pilot Study for Assessing the Status of Hygiene and Sanitation of 21 Schools of West Bengal	CSIR-IICB, Kolkata
<b>476</b>	Zahid Yaqoob Bhat (10BB16A37010)	Nasheeman Ashraf	Extension of Saffron cultivation into non traditional region of J& K	CSIR-IIIM, Jammu
<b>477</b>	Sabeena Ali (10BB16J37001)	Qazi Parvaiz Hassan	Role of Medicinal plants towards societal economy and employment generation	CSIR-IIIM, Jammu
<b>478</b>	Nasreen Bano (10BB17J25007)	Sumit Kumar Bag	"Impact of Covid-19 on Employment, Agriculture, Health, Education and Environment of Uttar Pradesh"	CSIR-NBRI, Lucknow
<b>479</b>	Naveen Prakash Bokoliya (10BB15J37013)	Saurabh Saran	Current R & D programs of CSIR on agriculture and farming : Potential impact on farmer's income and life	CSIR-IIIM, Jammu
<b>480</b>	Rakhi Paul (10CC15A38002)	L. Saikia	PROBLEM OF DRINKING WATER IN RURAL INDIA; A CASE STUDY OF AKASHIGANGA AREA, HOJAI DISTRICT, ASSAM AND ITS POSSIBLE REMEDIES	CSIR-NEIST, Jorhat
<b>481</b>	Nishtha Mishra (10BB15J25002)	Aradhana Mishra	"Biotransformation of bio-wastes from urban area restaurants"	CSIR-NBRI, Lucknow
<b>482</b>	Emmanuel Joseph (20EE16A26034)	Anuya Nisal	COVID-19 pandemic: Mental health of medical workers	CSIR-NCL, Pune
<b>483</b>	Deependra Rajoriya (20EE15A08013)	H. Umesh Hebbar	Assessment of the existing 'Akshaya Patra' kitchen infrastructure and logistics for improvisation of food quality and safety	CSIR-CFTRI, Mysuru
<b>484</b>	Debiparna De (20EE18A18049)	Satyavathi Bankupalli	Recent Advances in Commercial Applications of Biodegradable Plastics	CSIR-IICT, Hyderabad
<b>485</b>	Angira Dasgupta (10BB17J02001)	Anurag Agrawal	Spreading awareness of the use of sputum inflammometry in obstructive airway diseases	CSIR-IGIB, New Delhi

<b>486</b>	Bidisha Rani Bora (10CC16A38006)	S Gogoi	ASSESSMENT OF INORGANIC AND BIOLOGICAL WATER QUALITY OF SOME GROUND WATER SAMPLES FROM SOME VILLAGES OF MAJULI DISTRICT	CSIR-NEIST, Jorhat
<b>487</b>	Garima Kotnala (10PP19J32013)	T.K. Mandal	Stubble Burning in Uttarakhand during COVID- 19 (Winters 2020) : A Case Study	CSIR-NPL, New Delhi
<b>488</b>	Pardeep Kumar Kashyap (10PP16J32002)	Bipim Kumar Gupta	A Study on TDS Meter to Test Household Drinkable Water for Public Awareness	CSIR-NPL, New Delhi
<b>489</b>	Mohd Danish Husain (10BB15A25007)	Priyanka Agnihotri	"Development of medicinal plant sector in Jaunsar Bawar, Uttarakhand for empowering women"	CSIR-NBRI, Lucknow

## Annexure 4: Audit Report

### ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

#### BALANCE SHEET AS AT 31ST MARCH 2022

(Amounts in Rs)

Corpus/Capital Fund And Liabilities	Note	2021-22	2020-21
Corpus/ Capital Fund	1	10,94,53,453	10,94,53,453
Reserves and Surplus	2	16,02,45,346	11,59,09,799
Earmarked/ Endowment funds		-	-
Secured Loans and Borrowings		-	-
Unsecured Loans and Borrowings		-	-
Deferred Credit Liabilities		-	-
Current Liabilities and provisions	3	17,637	12,11,047
<b>TOTAL</b>		<b>26,97,16,436</b>	<b>22,65,74,299</b>
<b>Assets</b>	<b>Note</b>	<b>2021-22</b>	<b>2020-21</b>
Fixed Assets	4	32,08,047	29,10,480
Investments-from Earmarked/ Endowment funds	5	1,32,90,838	-
Investments- Others		-	-
Current Assets, Loans & Advances etc.	6	25,32,17,551	22,36,63,819
<b>TOTAL</b>		<b>26,97,16,436</b>	<b>22,65,74,299</b>
Significant Accounting Policies	11		
Contingent liabilities and notes on accounts	12		

As per the Books of Accounts produced before us

For Goyal and Goyal  
Chartered Accountants  
Firm Regn. No.000066N

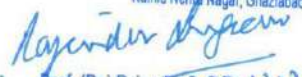


CA Shobhit Gupta  
Partner  
M.No. 502897

Place: Ghaziabad  
Date: 22nd July, 2022  
UDIN:- 22502897ANKMVJ3174

  
DDO (Finance) Drawing & Disbursing Officer  
AcSIR Academy of Scientific & Innovative Research (AcSIR)  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-19  
Kamla Nehru Nagar, Ghaziabad-201002, U.P., India

  
Associate Director  
Finance and Administration & Finance  
AcSIR Academy of Scientific and Innovative Research (AcSIR)  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-19,  
Kamla Nehru Nagar, Ghaziabad-201002, U.P., India

  
Prof. (Dr.) Rajender S. Sanghvi  
Director, AcSIR  
Academy of Scientific & Innovative Research (AcSIR)  
CSIR-HRDC Campus, Sector-19, Kamla Nehru Nagar,  
Ghaziabad-201002, U.P., India

**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)  
INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31st MARCH 2022**

Amount in Rupees			
INCOME	Note	2021-22	2020-21
Grants in aid / Subsidies		-	-
Fees/Subscriptions	7	9,12,01,300	7,81,95,230
Income from Investments (Income on Investment from earmarked/ endowment funds transferred to funds)		-	-
Income from Royalty, Publication etc.		-	-
Interest Earned	8	1,07,96,810	1,04,10,356
Other Income		-	-
<b>TOTAL(A)</b>		<b>10,19,98,110</b>	<b>8,86,05,586</b>
EXPENDITURE	Note	2021-22	2020-21
Employees Benefit Expenses	9	3,65,49,912	2,95,08,233
Other Administrative Expenses	10	2,05,21,369	1,88,49,782
Research & Development Expenditure (Incl. Grants, Subsidies etc)		-	-
Expenditure on grants, Subsidies etc.		-	-
Interest		-	-
Depreciation	4	10,67,285	10,68,892
Prior Period Adjustments		-7,02,063	1,11,64,757
Income Tax Expenses		2,26,060	-
<b>TOTAL(B)</b>		<b>5,76,62,563</b>	<b>6,05,91,664</b>
<b>Balance being Surplus/ (deficit) Carried to Capital Fund (A-B)</b>		<b>4,43,35,547</b>	<b>2,80,13,922</b>

For Goyal and Goyal  
Chartered Accountants  
Firm Regn. No.000066N

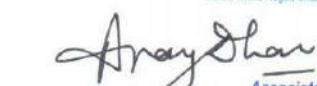



CA Shobhit Gupta  
Partner

M.No. 502897

Place: Ghaziabad  
Date: 22nd July, 2022  
UDIN:- 22502897ANKMVJ3174

  
Drawing & Disbursing Officer  
AcSIR  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-19  
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Associate Director, Finance  
AcSIR  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-19,  
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Director, AcSIR

\* Prof. (Dr.) Rajender S. Sangwan  
Director  
Academy of Scientific & Innovative Research (AcSIR)  
CSIR-HRDC Campus, Sector-19, Kamla Nehru Nagar,  
Ghaziabad-201002, U.P., India

# ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

CSIR - HRDC CAMPUS, SECTOR - 19, KAMLA NEHRU NAGAR, GHAZIABAD, UTTAR PRADESH

## RECEIPTS AND PAYMENTS FOR THE PERIOD / YEAR ENDED ON 31.03.2022

RECEIPT	Current Year	Previous Year	PAYMENT	Current Year	Previous Year
<b>I. Opening Balance</b>			<b>I. Expenditure</b>		
a) Cash in hand			(a) Employee Benefit Expenses		
b) Bank Balances			1. Salaries, Wages, Incentives and Allowances	2,58,44,462	2,48,06,139
i) In Current Accounts	-	-	2. NPS Employer Contribution	49,46,869	48,33,129
ii) In deposit Accounts	-	-	3. Gratuity	339	16,14,556
iii) In savings Accounts	25,960	11,498	4. Leave Salary	59,07,769	76,680
			5. Medical Expenses Reimbursement	1,92,985	2,00,484
<b>II. Interest Received</b>					
a) On Bank Deposits	1,07,80,065	1,04,10,356			
<b>III. Other Incomes</b>			<b>(b) Administrative Expenses</b>		
(a) Tuition Fees and Other fee	9,12,01,300	7,81,95,230	1. Travelling Expenses Other than Meeting	65,784	-
			2. Telephone Expenses	1,05,863	64,604
<b>IV. Others Receipts</b>			3. Other Academic & Administrative Expenses	5,04,402	2,63,966
			4. Advt. & Publicity	17,01,971	20,31,133
(a) TDS Payable	-	-	5. Bank Charges	50,518	67,314
			6. Building Repair and Maintenance	47,685	-
<b>V. Other Advances</b>			7. Upkeep Maintenance	2,19,079	66,162
(a) Imprest Advance-HQ	-	-	8. Hospitality Expenses	-	-
			9. Printing & Stationery	4,33,905	5,61,499
<b>VI. Other Payable items</b>			10. Subscription Fee	4,46,603	2,37,467
NPS payable	-	-	11. Manpower-Outsourcing	27,81,164	22,78,777
			12. Fellowship / Stipend / Awards	-	72,000



*[Signature]*  
Drawing & Disbursing Officer  
Academy of Scientific & Innovative Research (AcSIR)  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-19  
Kamla Nehru Nagar, Ghaziabad-201002, U.P., India

*[Signature]*  
Prof. (Dr.) Rajendra Singh  
Director  
Academy of Scientific & Innovative Research (AcSIR)  
CSIR-HRDC Campus, Sector-19, Kamla Nehru Nagar,  
Ghaziabad-201002, U.P., India

Leave Encashment and Medical Expenses						
13. Revenue Shares With CSIR Labs					83,92,059	76,67,940
14. Professional Charges					1,01,500	92,318
15. Staff Welfare					62,773	81,997
16. Miss. Expenses					1,02,256	36,243
17. Income Tax					-	10,930
18. Consultant Fees					12,09,000	15,61,032
19. Transportation Charges and Vehicle Running					5,39,293	3,89,168
20. Postage & Stamps					2,03,051	2,56,925
21. Summer Training Program					-	8,115
22. Senate Meeting Expenses					40,000	50,714
23. FC Meeting Expenses					16,000	8,000
24. Board of Governors					88,091	-
25. Convocation Expenses					-	-
26. AcSIR events and related matters					2,47,790	-
27. Professional Fee to Dean, Associate Dean and					31,62,582	30,43,478
<b>II. Investments and deposits made</b>						
Fixed Deposits					4,28,66,513	3,73,04,051
<b>III. Expenditure on Fixed Assets &amp; Capital Work-in-Progress</b>						
<b>(a) Purchase of Fixed Assets</b>						
(i) Furniture & Fixture					67,432	1,28,154
(ii) Apparatus & Equipments					7,69,420	7,78,150
(ii) Web Portal					5,28,000	-



*Rajender S. Sangwan*  
Drawing & Disbursing Officer

Academy of Scientific & Innovative Research (AcSIR)  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-9  
Kirti Vihar Nagar, Ghaziabad-201002, U.P., India

*Rajender Sangwan*  
22/7/22

Prof. (Dr.) Rajender S. Sangwan  
Director

Academy of Scientific & Innovative Research (AcSIR)  
CSIR-HRDC Campus, Sector-9, Kirti Vihar Nagar,  
Ghaziabad-201002, U.P., India



# ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

## NOTES FORMING PART OF BALANCE SHEET AS AT 31.03.2022

### NOTE-1

#### Corpus/ Capital Fund

(Amount in Rs.)

Particulars	2021-22	2020-21
Balance as the beginning of the year	10,94,53,453	10,94,53,453
Add: Contributions towards Corpus/ Capital Fund		
Less/(Deduct): balance of net expenses transferred from the income & expenditure a/c		
Balance at the end the year	10,94,53,453	10,94,53,453

### NOTE-2

#### Reserves And Surplus

(Amount in Rs.)

Particulars	2021-22	2020-21
Excess of income over expenditure		
Opening balance	11,59,09,799	8,78,95,877
Add: During the year income	4,43,35,547	2,80,13,922
<b>Total</b>	<b>16,02,45,346</b>	<b>11,59,09,799</b>

### NOTE-3

#### Current Liabilities & Provisions


##### Current Liabilities & Provisions

(Amount in Rs.)

Particulars	2021-22	2020-21
<b>A) Current Liabilities</b>		
1. Statutory Liabilities		
a) TDS Payable	-	3,10,367
c) NPS Payable	17,637	38,165
<b>Total(A)</b>	<b>17,637</b>	<b>3,48,532</b>
<b>B) Provisions</b>		
1. Leave Encashment and Medical reimbursement	-	8,62,515
<b>Total(B)</b>	<b>-</b>	<b>8,62,515</b>
<b>Total(A+B)</b>	<b>17,637</b>	<b>12,11,047</b>

  
 Drawing & Disbursing Officer  
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 Prof. (Dr.) Rajender S. Sangwan  
 Director  
 Academy of Scientific & Innovative Research (AcSIR)  
 CSIR-HRDC Campus, Sector-19, Kaila Nehru Nagar,  
 Ghaziabad-201002, U.P., India

NOTE - 4

FIXED ASSETS AND DEPRECIATION

SI No	Description	GROSS BLOCK						Depreciation			NET BLOCK
		WDV Opening as on	Additions During the Year	Additions During the Year	Deletions during the year	Cost/Valuation at the Year End	Rate	Depreciation during the Year	Deletion	Total at the Year End	WDV as on
		01.04.21	UPTO 30.9.21	AFTER 30.9.21		31.3.22				31.3.22	31.3.22
I	FIXED ASSETS										
	PLANT, MACHINERY & EQUIPMENT										
	FURNITURE & FIXTURE	6,16,345	29,293	38,139	-	6,83,777	10%	66,471		66,471	6,17,306
	VEHICLE	8,51,155			-	8,51,155	15%	1,27,673		1,27,673	7,23,482
	COMPUTERS & EQUIPMENTS	14,42,980	3,80,323	3,89,097	-	22,12,400	40%	8,07,141		8,07,141	14,05,259
	Web Portal	-	-	5,28,000		5,28,000	25%	66,000		66,000	4,62,000
	Total	29,10,480	4,09,616	9,55,236	-	42,75,332		10,67,285		10,67,285	32,08,047

For Goyal and Goyal  
Chartered Accountants  
Firm Regn. No. 000066N

*Sudhakar Gupta*  
CA Shobhit Gupta  
Partner  
Place: Ghaziabad  
Date: 22nd July, 2022  
UDIN - 22502897ANKMVJ3174

*Dr. Rajender S. Sangwan*  
Director, AcSIR

DDO (Finance), AcSIR  
Drawing & Disbursing Officer  
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AcSIR Headquarters, CSIR-HRDC Campus, Sector-19,  
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*Aray Khan*  
Associate Director  
Finance and Administration  
AcSIR

Associate Director  
Administration & Finance  
Academy of Scientific & Innovative Research (AcSIR)  
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# ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

## NOTES FORMING PART OF BALANCE SHEET AS AT 31.03.2022

### NOTE-5

#### Investments from Earmarked/ Endowment funds

(Amount in Rs.)

Particulars	2021-22	2020-21
A) Investment in		
Fixed Deposit accounts	1,32,90,838	-
<b>Total</b>	<b>1,32,90,838</b>	<b>-</b>

### NOTE-6

#### Current Assets, Loans & Advances

(Amount in Rs.)

Particulars	2021-22	2020-21
A) Current Asset		
1.Cash Balances in hand	-	-
2.Bank balances:		
a) With Noted Banks:		
On Current accounts	-	-
On Fixed Deposit accounts	24,42,54,680	21,75,07,338
On Savings accounts	3,62,167	25,960
<b>Total(A)</b>	<b>24,46,16,847</b>	<b>21,75,33,298</b>
B) LOANS, ADVANCES AND OTHER ASSETS		
1.Loans	-	-
2.Advances and other amounts recoverable in cash or in kind or for value to be received:		
a) On Capital Account	-	-
b) Salary Advances	-	1,48,836
c) Recoupable Form Govt. Agencies	-	-
d) Advance to Employees For Official Purpose	-	-
e) Others (specify)		
(i) TDS on Interest	-	2,09,314
(ii) Refund Due ( AY 2020-21)	4,07,473	4,07,473
(ii) Refund Due ( AY 2021-22)	6,23,320	-
3.Income accrued:		
a) on Fixed Deposits with bank	75,69,911	53,64,898
<b>Total(B)</b>	<b>86,00,704</b>	<b>61,30,521</b>
<b>Total(A+B)</b>	<b>25,32,17,551</b>	<b>22,36,63,819</b>

  
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# ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

## NOTES FORMING PART OF BALANCE SHEET AS AT 31.03.2022

### NOTE- 7 Fees/Subscriptions

(Amount in Rs.)

Particulars	2021-22	2020-21
1.Entrance Fees	-	-
2.Tuition Fees	8,97,56,700	7,67,31,297
3.Seminar /Program Fees	-	-
4.Penalty Fees	13,07,000	13,55,000
5.Others	1,37,600	1,08,933
<b>Total</b>	<b>9,12,01,300</b>	<b>7,81,95,230</b>

### NOTE- 8 Interest Earned

(Amount in Rs.)


Particulars	2021-22	2020-21
1.On Term Deposits		
a) with Schedule Banks:	1,07,63,415	1,03,93,481
b) With Non-Schedule Banks:	-	-
2.On Savings Accounts:		
a) with Schedule Banks:	16,649	16,875
b) With Non-Schedule Banks:	-	-
2.On Income Tax refund:	16,746	-
<b>Total</b>	<b>1,07,96,810</b>	<b>1,04,10,356</b>

### NOTE- 9 Employees Benefit Expenses

Particular	2021-22	2020-21
1.ManPower Salaries,Wages, Incentives and Allowances	2,56,82,930	2,49,67,240
2.NPS Employer Contribution	49,26,341	24,25,893
3. Gratuity	339	16,14,556
4. Leave Salary	57,47,317	76,680
5. Medical Expenses Reimbursement	1,92,985	4,23,864
<b>Total</b>	<b>3,65,49,912</b>	<b>2,95,08,233</b>

  
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# ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

## NOTES FORMING PART OF BALANCE SHEET AS AT 31.03.2022

### NOTE-10

#### Other Administrative Expenses Etc

Particular	2021-22	2020-21
1.Travelling Expenses Other than Meeting	65,784	-
2.Telephone Expenses	1,05,863	64,604
3.Other Academic & Administrative Expenses	5,04,402	2,63,966
4.Advt. & Publicity	17,01,971	20,31,133
5.Bank Charges	50,518	67,314
6.Building Repair and Maintenance	47,685	-
7.Upkeep Maintenance	2,19,079	66,162
8.Hospitality Expenses	-	-
9.Printing & Stationery	4,33,905	5,61,499
10.Subscription Fee	4,46,603	2,37,467
11.Manpower-Outsourcing	27,81,164	22,78,777
12.Fellowship / Stipend /Awards	-	72,000
13.Revenue Shares With CSIR Labs	83,92,059	76,67,940
14.Professional Charges	1,01,500	92,318
15.Staff Welfare	62,773	81,997
16.Miss. Expenses	1,02,256	36,243
17.Income Tax	-	10,930
18.Consultant Fees	12,09,000	15,61,032
19.Transportation Charges and Vehicle Running and Maintain	5,39,293	3,89,168
20.Postage & Stamps	2,03,051	2,56,925
21.Summer Training Program	-	8,115
22.Senate Meeting Expenses	40,000	50,714
23.FC Meeting Expenses	16,000	8,000
24. Board of Governors	88,091	-
25.Convocation Expenses	-	-
26.AcSIR events and related matters	2,47,790	-
27.Professional Fee to Dean, Associate Dean and Co-ordinator	31,62,582	30,43,478
<b>Total</b>	<b>2,05,21,369</b>	<b>1,88,49,782</b>

  
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22/7/2022  
Prof. (Dr.) Rajender S. Sangwan  
Director  
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**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)**  
**Financial Year 2021-2022**

**Note-11**

**Significant Accounting Policies**

**A. Accounting Convention**

The Financial Statement has been prepared on the basis of historical cost convention, unless otherwise stated and generally on the cash method of accounting as per the Common Format of Accounting for all Autonomous Bodies.

**B. Inventory Valuation**

There is no inventory.

**C. Investments**

Investments are accounted at cost or market value whichever is lower.

**D. Excise Duty**

Being an educational institution existing solely for educational purposes, excise duty is not applicable to Academy of Scientific and Innovative Research and there is no item of production which attracts excise duty.

**E. Fixed Assets**

Fixed Assets are valued at cost of acquisition inclusive of inward freight, duties and taxes and taxes and incidental and direct expenses related to acquisition.

**F. Depreciation**

Depreciation of fixed assets has been charged to appropriate account as per the rate prescribed in the Income Tax act, on written down value method.

**G. Miscellaneous Expenditure**

There is no deferred revenue expenditure during 2021-22.

**H. Income Recognition**

- a) The income of the Academy of Scientific and Innovative Research is from the Tuition Fees collected from the students enrolled for education at Academy of Scientific and Innovative Research at its various Academic Centers and remitted to Academy of Scientific and Innovative Research Bank account by them and "recognised on cash basis".
- b) The interest income received out of Term Deposits is recognised on accrual basis.

**I. Employee Benefits**

The Academy of Scientific and Innovative Research has framed the Policy towards terminal benefits to officers and staff in the form of Gratuity and Leave encashment. In respect of Gratuity, the Academy of Scientific and Innovative Research has taken Group Gratuity policy and for leave encashment taken the Group Leave Encashment Scheme (GLS) with LIC. The Academy of Scientific and Innovative Research has also contributed to NPS accounts of the Employees. NPS contribution is made through State Bank of India.

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**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)**  
**Financial Year 2021-2022**

**Note 12**

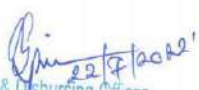
**Notes on Accounts**

- 1) In compliance with Clause 5(2) of the Academy of Scientific and Innovative Research Act, 2011 of the Parliament, the MoU Dated 27<sup>th</sup> June 2013 entered with the Council of Scientific & Industrial Research (CSIR) by the Academy of Scientific and Innovative Research (AcSIR). Accordingly, Academy of Scientific and Innovative Research is utilizing the infrastructure by CSIR for pursuing its objectives of imparting education, as per Clause 5(1) of the Act.
- 2) The Fees collected on behalf of the Academy of Scientific and Innovative Research at the CSIR laboratories during the initial years, were being remitted to AcSIR account by them as "Tuition Fees". This method of tuition fees collection has been discontinued during December 2018 and since January 2019, the Tuition Fees are collected directly by the Academy of Scientific and Innovative Research at its Bank account. As the Academy of Scientific and Innovative Research is accounting on Cash basis, the income under the head does not include the amount not remitted by CSIR during those initial years, when the fees were paid by the students to the CSIR Labs, and the quantum of the unspent balance is also not ascertained.
- 3) The Academy of Scientific and Innovative Research has been established under the act of Parliament, the Academy of Scientific and Innovative Research Act, 2011 and received the assent of the President of India on 06<sup>th</sup> February 2012.
- 4) The Academy of Scientific and Innovative Research has received Income Tax exemption U/s. 10(21) on 17.02.2018 applicable from AY 2014-15, which is to be read with Section 35(1)(ii), approval being received on 01.02.2015 vide notification NO.17/2015 from the Central Board of Direct Taxes.
- 4) The Academy of Scientific and Innovative Research has also received exemption U/s. 10(23C)(vi) on 16.11.2016 and applicable from AY 2016-17 and Academy of Scientific and Innovative Research has filed income tax returns, as an educational institute, claiming exemptions under this section.
- 5) The Academy of Scientific and Innovative Research URN AAALA135PC20213 granted U/s. 10(23C)(vi) approved on 06.10.2021 and applicable from the AY 2022-23 to AY 2026-27.
- 6) The Academy of Scientific and Innovative Research has also obtained registration U/s. 12A(AA) from the commission of Income Tax effective from the Assessment Year 2017-18.

**7) Financial Statements**

The financial statements of accounts is prepared in three parts

- I. Receipts and Payments Accounts,
- II. Income and Expenditure Account and
- III. Balance Sheet

  
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#### 8) Receipts and Payment Accounts

The Receipts and Payments Accounts carries the figure of actual receipts & actual payments of the Institute during the financial year 2021-22. It is virtually a copy of cash Book/ Institute accounts.

#### 9) The Income and Expenditure Account

The Income and Expenditure account is prepared on cash basis except interest on FDR and depreciation. The Total Income is Rs. 10,19,98,110/- out of which Rs. 9,12,01,300/- is from Tuition and other fee and Rs. 1,07,96,810/- from Interest on Fixed Deposits, saving account and income tax. Total expenditure (before depreciation) comes to Rs. 5,70,71,281/- and depreciation of Rs. 10,67,285/- has been charged in the current FY 2021-22. Apart from this previous year income tax of Rs. 2,26,060/- has also been charged and an excess liability of Rs. 7,02,063/- related to previous year has been reversed. A sum of Rs. 4,43,35,547/- being excess of income over expenditure.

#### 10) The Balance Sheet

In the Balance Sheet, the assets acquired are taken as assets, while the recurring expenditures and non-recurring expenditures (less the income) have been taken as liabilities and have been shown on the Liability side (under the head Reserves and surplus) in the Balance Sheet.

#### 11) Fixed Asset

Fixed assets are stated at cost of acquisition less accumulated depreciation thereon.

#### 12) Depreciation

Depreciation for the year 2021-22 has been provided and debited to the Income & Expenditure Account.

#### 13) Current Assets, Loans and Advances

In the opinion of the management the current asset, loans & advances of the institute have a realized value in the ordinary course at least to the extent shown in the accounts and the provisions of liabilities are adequate.

#### 14) Contingent Liabilities: Income Tax Matters.

i. With regard to the demand of Rs. 72,91,287/- made by Income Tax Department through its order for the AY 2013-14, the Academy has represented through its appeal made to the commissioner of Income Tax and raised objection to the demand since the Academy of Scientific and Innovative Research's income earned is not subject to tax due to registration Under Section 35(1) (ii). The Appeal has been heard by Commissioner of Income Tax Appeals, Chennai and the order is awaited. An Amount of Rs. 78,12,040/- has been paid/ adjusted through TDS/TCS. The Academy has filed Form 1 under Vivad se Vishwas on 31<sup>st</sup> March, 2020 and claimed a refund of Rs. 21,02,340/-. The same order has been passed in form 5 on 10<sup>th</sup> February 2021. A Refund of Rs. 21,02,340/- has been adjusted with the demand of Assessment Year 2018-19.

  
Drawing & Disbursing Officer  
Academy of Scientific & Innovative Research (AcSIR)  
AcSIR Headquarters, CSIR-HRDC Campus, Sector-19  
Kamla Nehru Nagar, Ghaziabad-201002, U.P., India

  
Prof. (Dr.) Rajender S. Sangwan  
Director  
Academy of Scientific & Innovative Research (AcSIR)  
CSIR-HRDC Campus, Sector-19, Kamla Nehru Nagar  
Ghaziabad-201002, U.P., India



ii. With regard to the demand of Rs. 12,06,648/- made by Income Tax Department through its order for the AY 2015-16, the Academy of Scientific and Innovative Research has represented through its appeal made to the Commissioner of Income Tax and raised objection to the demand since the Academy of Scientific and Innovative Research's income earned is not subject to tax due to registration Under Section 35(1) (ii). The Appeal has been heard by Commissioner of Income Tax Appeals, Chennai and the order is awaited.

iii. With regard to the demand of Rs. 1,60,24,312/- made by Income Tax Department through its order for the AY 2017-18, the Academy of Scientific and Innovative Research has represented through its appeal made to the Commissioner of Income Tax and raised objection to the demand since the Academy of Scientific and Innovative Research's income earned is not subject to tax due to registration Under Section 35 (1) (ii). The Appeal has been heard by Commissioner of Income Tax Appeals, Chennai and the order is awaited.

iv. With regard to the demand of Rs. 1,21,77,350/- made by Income Tax Department through its order for the AY 2018-19, the Academy of Scientific and Innovative Research has represented through its appeal made to the Commissioner of Income Tax and raised objection to the demand since the Academy of Scientific and Innovative Research's income earned is not subject to tax due to registration Under Section 35 (1) (ii). The Appeal has been heard by Commissioner of Income Tax Appeals, Ghaziabad and the order is awaited. An Amount of Rs. 21,02,340/- has been paid/ adjusted through TDS/TCS.

15) Previous year figure have been re-grouped and rearranged where ever considered necessary to make them comparable with those of current year.

For Goyal and Goyal  
Chartered Accountants  
FRN:- 000066N



CA Shobhit Gupta  
M.No:- 502897

Dated:-22<sup>nd</sup> July, 2022  
Place:- Ghaziabad

UDIN:- 22502897ANKMVJ3174

  
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## **ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH**

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