

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD



**Annual Report
Year 2022-23**

Research and Consultancy



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- Associate Editors** : **Mr. Vivekanand Yadav**, Assistant Registrar (R&C)

Message from Patron



As we embark on the profound journey of research, it is with great recognition that we acknowledge this pivotal first phase. Technical research, innovation, collaboration, and consultation are not mere components; they are indispensable elements paving the way for the advancement of human welfare, the promotion of social upliftment, and the contribution to national progress. In this pursuit, the role of high-technical education institutions becomes paramount, exerting a crucial influence on the trajectory of development.

Motilal Nehru National Institute of Technology Allahabad, situated in the sacred city of Prayagraj, stands as a vigilant guardian of these principles. We don't just observe; we actively engage in fulfilling our responsibility towards technical development and the creation of a healthy society. The office of Dean Research and Consultancy of the institute, representing the diverse array of research and consultancy projects across various departments, stands unwavering in its commitment to nurturing the research and innovation endeavors of our esteemed faculty, researchers, and students.

It fills me with immense enthusiasm and pride to witness the due recognition and prestige garnered by the institute's research works in recent years. This collection of achievements serves as an inspiration, igniting a passion for innovation among our community. Let us together continue to build a legacy of excellence in research, pushing the frontiers of knowledge, and making a positive impact on the society and world.

Prof. Rama Shanker Verma
Director

Message from Editor-in-Chief



I am thrilled to share a glimpse into the vibrant world of research and innovation at Motilal Nehru National Institute of Technology Allahabad. As the Dean of Research and Consultancy, I take pride in being the conduit between the creative minds of our faculty, researchers, and students and the realm of impactful research. It is indeed heartening to witness the dedicated efforts of our academic community bearing fruit, with the institute's research gaining well-deserved recognition and prestige in recent years.

I am excited to present the Annual Report for the year 2022-23 of the Research and consultancy work as a testament to the diverse and impactful contributions made across various departments/cell of the institute. This publication is a showcase of research, collaborative innovation, and impactful stories that highlight the essence of our institute.

I invite you to delve into the pages of this annual report and witness the vibrant research ecosystem of the institute. It is our belief that these advancements hold the potential to benefit society, industry, and policymakers, shaping a brighter future for all.

Prof. Ajai Kumar Singh
Dean Research and Consultancy

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MNNIT ALLAHABAD AT A GLANCE

Motilal Nehru National Institute of Technology (MNNIT) Allahabad (formerly Motilal Nehru Regional Engineering College MNREC, Allahabad) is an institute with total commitment to quality and excellence in academic pursuits, and is among one of the leading Institutes in India. It was established in the year 1961 as a joint enterprise of Central Govt. of India and State Govt. of Uttar Pradesh in accordance with the scheme of establishment of REC's. However, with effect from 26th June, 2002 the Institute became a deemed university and an Institute of national importance, now known as Motilal Nehru National Institute of Technology, Allahabad. The Institute offers B. Tech. programmes in nine areas of technology, M.Tech. programmes in more than twenty disciplines, MCA, MBA, MSc. (Mathematics) As well as PhD. Programmes in all branches of Engineering, Science and Management.

The infrastructure of the Institute is at par with the best Institutions in the country, the Computer Centre has state-of-the-art computing facilities, departments have modern laboratories and the library house sprint as well digital learning resources.

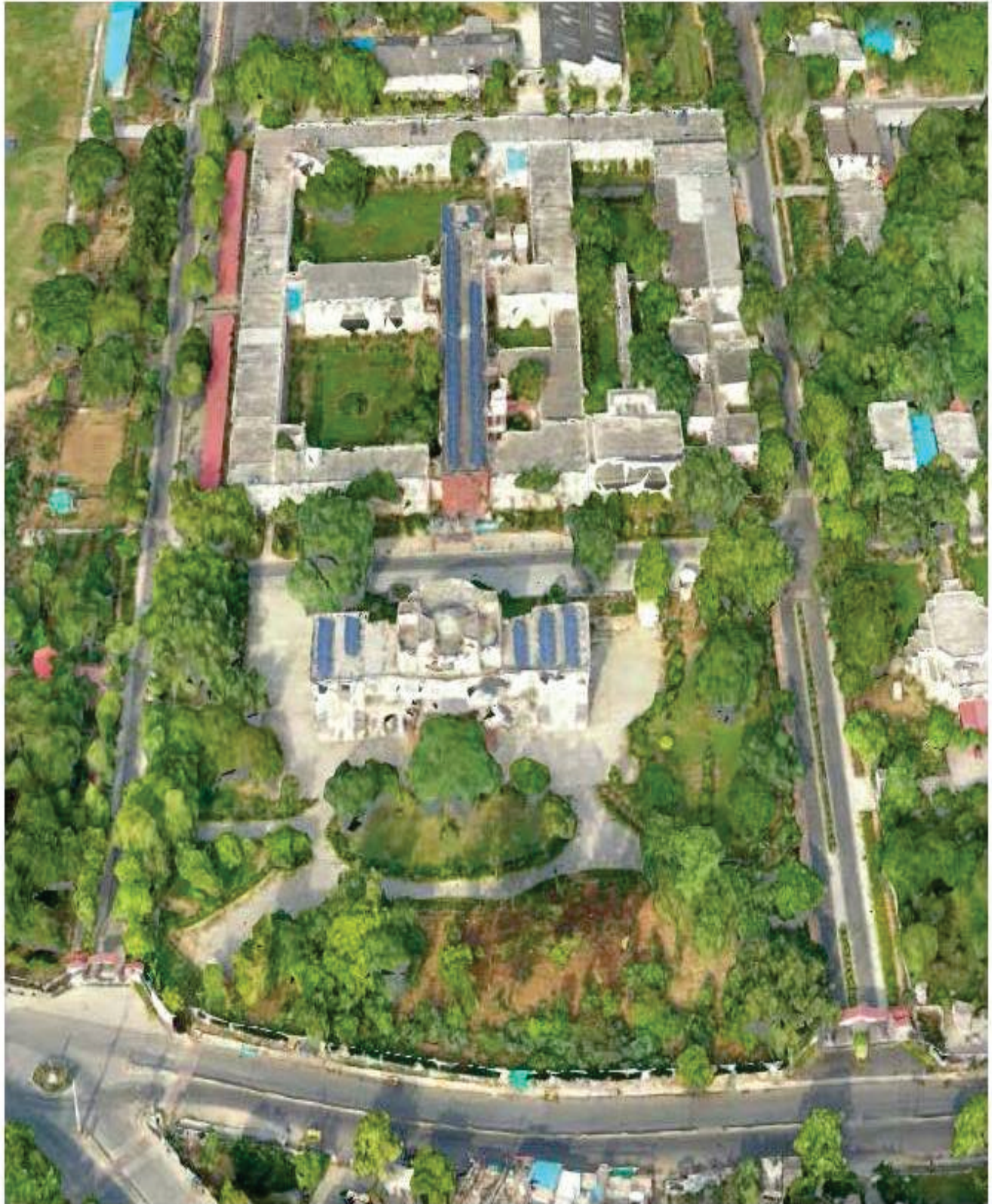
The entire campus, including hostels, executive development centre and residential area, is connected with 1.25 Gbps internet connectivity.

The Institute makes all efforts to strengthen collaborative research programmes in emerging areas of Science and Technology. The Institute promotes advanced research via (i) joint thesis and research projects with industry participation, (ii) institutional assistantships to promote PG and Doctoral programmes, (iii) administrative support to faculty members to conduct consultancy and research projects funded by external agencies.

As per National Institutional Ranking Framework (NIRF), Ministry of Education, Government of India, the Institute was ranked 49th ranking among the Engineering Institutes in the country in year 2023.



Aerial View of the Institute



MAJOR RESEACH AREAS OF THE DEPARTMENTS

Department	Research Area
Applied Mechanics	Computational Solid Mechanics, Composite Structures, Finite Element Analysis, Advanced Structural Systems, Kinematic and Dynamic analysis of musculoskeletal system, Damage mechanics, Sound, noise and vibration, Thermo-Fluids Engineering, Solid mechanics, Characterization of smart materials Bone Adaptation.
Biotechnology	Agricultural Biotechnology, Bioinformatics, Bioprocess Development, Bio-energy, Environmental Biotechnology, Genetics & Genetic Engineering, Immunology, Medical Biotechnology, Microbiology, Nanoparticle based diagnostic.
Chemical Engineering	Membrane and Reactive Separation, Convective heat transfer, Chemical reaction engineering, Process Modelling and Simulation, CFD, Environmental Science & Engineering, Industrial Hazard, Process Safety & Hazards Management, Advanced Distillation Technology, Food Technology and Bio-processing.
Chemistry	Inorganic Nano-Chemistry, Sensor analyte, Metal organic frameworks, Nano-biotechnology, Polymers
Civil Engineering	Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, GIS and Remote Sensing, Environmental Geo-technology, Water Resources Engineering, Construction Engineering and Management.
Computer Science & Engineering	Software Engineering, Mobile Computing, Knowledge Based System, Real Time System, Distributed Computing, Soft Computing and Machine Learning, Image Processing, Biometrics, Pattern Recognition, Datamining, Network Security
Electrical Engineering	Power electronics, Electrical drives, Power system operation, control and protection, Smart grid challenges, Renewable energy systems, Non-linear control theories and its applications.
Electronics and Communication Engineering	Data Communication and Networking, Optical Communication, Digital Signal Processing, Image Processing, Pattern Recognition, Biometrics, Mobile and ATM Network, Wireless Sensor Network, Analog and Digital Circuits, VLSI Design, Characterization of Semiconductor devices
GIS Cell	GIS applications; GNSS and INSAR technology (core and application), Natural Hazard monitoring, Machine Learning applications in Geoinformatics, Web GIS, LiDAR technology, Satellite Image Processing.
Humanities and Social Sciences	English Psychology, Human Resource Management, Accounting & Finance.
Mathematics	Commutative Algebra, Basic Hypergeometric functions, Numerical analysis, Operation Research, Softcomputing, Cryptography, Fluid dynamics, Heat & Mass transfer, Bio-fluid mechanics, General topology, Nearness-like structures & Nearerst theory.
Mechanical Engineering	CAD/CAM, Manufacturing Processes, Chain Management, Composite Materialist Characterization, Fracture and Fatigue, Multi-Scale Machining Processes, Mechanical system design, Nano composites characterization, Refrigeration, Cyrogenics, Heat Transfer, CFO, Air-Conditioning, Passive Cooling.
Physics	Experimental condensed matter physics, Theoretical physics, Nanostructured Thin Films, Functional Oxide Nano-Materials, Synthesis and Optical Magnetic and Electric Properties of 20 systems.
School of Management Studies	International finance, Marketing Management, Financial management, Human Resource management, Management information systems, Entrepreneurship, Strategic Management.

MoU WITH ORGANIZATIONS

Sr. No.	Organization	Date	Salient Features
1	National Skill Development Corporation	w.e.f. 06.03.2023 for a period of one year	The Parties agree to collaborate on a non- exclusive basis, with the roles and responsibilities mentioned in Annexure II of the MoU. The Parties may modify their roles and responsibilities, as may be mutually agreed between them in writing.
2	Indian Institute of Technology Delhi	w.e.f. 02.01.2023 for a period of one year	(a) To exchange information on teaching, learning materials and other literature relevant to their research and education programme related to the area of nanoelectronics / nanotechnology (b) To jointly organize seminars, conferences, workshops and / or short-term training programmes on sponsored by the funding agencies (both Government and private) and to invite each other's faculty to participate therein.
3	Rajkiya Engineering College, Ambedkar Nagar	w.e.f. 17-10-2022 for the period of 05 years	To enhance and promote academic interests between both Institute. Implementation of quality education and promote continuing education and research activities between both Institute.
4	Central Institute of Higher Tibetan Studies, Sarnath , Varanasi, India	w.e.f. 08-10-2022 for the period of 03 years	Collaborate and co-operate with each other in order to enhance the quality of teaching, training and research activities.
5	Indian Institute of Technology Kanpur	w.e.f. 19.08.2022 for a period of three years	Capacity building through the organization of conducting state-of-the-art research and development activities, regular training programmes, fellowships and resources courses in Geodesy.
6	Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow	w.e.f. 25-07-2022 for the period of 05 years	Academic and Research collaboration, exchanges of Startups, Students and Faculty
7	Micro, Small and Medium Enterprises (MSME)	w.e.f. 23.06.2022 to 31.03.2026	(a) Provide advice and assistance to MSMEs in process design and development. (b) Provide advice and assistance to MSMEs in product design and development. (c) Provide advice and assistance to MSMEs in value engineering including improvement in design and costs of a developed product such as alternate materials usage improvement in designing etc.
8	Centre for Development of Advanced Computing Thiruvananthapuram	w.e.f. 10.06.2022 for a period of 18 Months	Covers the technical and financial scope of work for "Solar PV Supported Reconfigurable EV Charger with Reduced Switching Devices"
9	National Remote Sensing Centre (NRSC), ISRO Hyderabad	w.e.f. 27.04.2022 for a period of Five years	To expand LDS network with the active support from MNNIT Allahabad, in terms of installations of LDS system at MNNIT Allahabad, collection of data, maintenance of the LDS system, dissemination of the data to NRSC and utilization of the lighting data for scientific use.
10	Nasscom Foundation New Delhi	w.e.f. 01.04.2022 for a period of 11 Months	For Skill and Entrepreneurship development of young people in India.

11	IIIT Allahabad	w.e.f. 28.06.2021 for a period of 5 years.	Exchange of scientific and technical information, formation of research group, supervision of PG and Ph.D students, organizing seminars, workshops, conference and training.
12	Rajiv Gandhi Institute of Petroleum Technology	w.e.f. 17.03.2021 for a period of 5 years.	Scientific and technical information sharing, Collaborative research activities through participation in Nationally and Internationally funded projects.
13	Florida Atlantic University Board of Trustees	15.11.2022, 5 years from the effective date	Development of joint degree programs at the graduate level in mutually agreed upon disciplines, coursework and degree requirements. Exchange of faculty and students. Joint/collaborative research projects and publications. Joint organization of technical meetings, International workshops, conferences, seminars, faculty development programs, symposia, etc.

MoU WITH INDUSTRIES

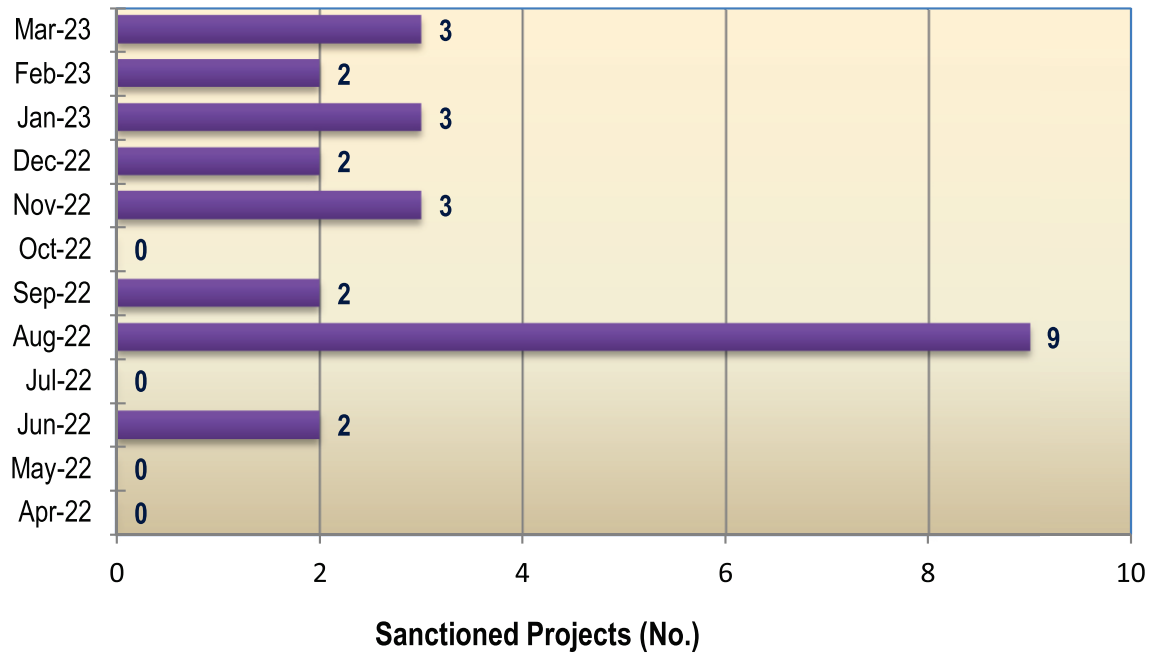
1	Meja Urja Nigam (Pvt.) Limited (MUNPL)	w.e.f 01.10.2021 for a period of 3 years.	Joint thesis/ research projects and special projects on power plant problems, up gradation of IT system in MUNPL, Introduction of new technologies like data analytics, AI, machine learning and robotics, explore opportunities for development of courses and curriculum for the power plant Industry.
2	Prayagraj Power Generation Company Ltd. [PPGCL]	w.e.f 03.12.2021 for a period of 3 years.	Joint thesis/ research projects and special projects on power plant problems, up gradation of IT system in PPGCL, introduction of new technologies like data analytics, AI, machine learning and robotics, Technical support, plant visit, vocational training, explore opportunities for development of courses and curriculum of the Industries requirements in the field of power plant technology etc.
3	Indian Telephone Industries Limited [ITI Ltd.] Bangalore	w.e.f. 12.11.2021 for a period of 5 years.	Joint collaborative research projects, technical meetings, International workshops, conference, seminar, faculty development programs, symposia, sharing of the expertise and resources, training programmes etc.
4	Nivetti Systems Private Limited, Bangalore	w.e.f. 30.05.2022 for a period of Three years	(a) The technical support and expertise of MNNIT experts may be taken on emerging Networking technologies like SDN, Data Plane disaggregation and Cyber security. (b) The parties shall also collaborate in research areas, including introduction of new technologies like Secure Networking, SDN and Artificial Intelligence (AI), Machine Learning Applications in Cyber Security. The parties agreed and entered into modalities for the same, as per and if need may so arise at any time hereinafter.
5	Emami Limited Kolkata	w.e.f. 06.07.2022 for a period of three years	The major areas of research along with others areas, would involve strength and stamina, inflammation, pain management, immunity, microbiology, molecular biology, genetics etc.

SPONSORED RESEARCH PROJECTS

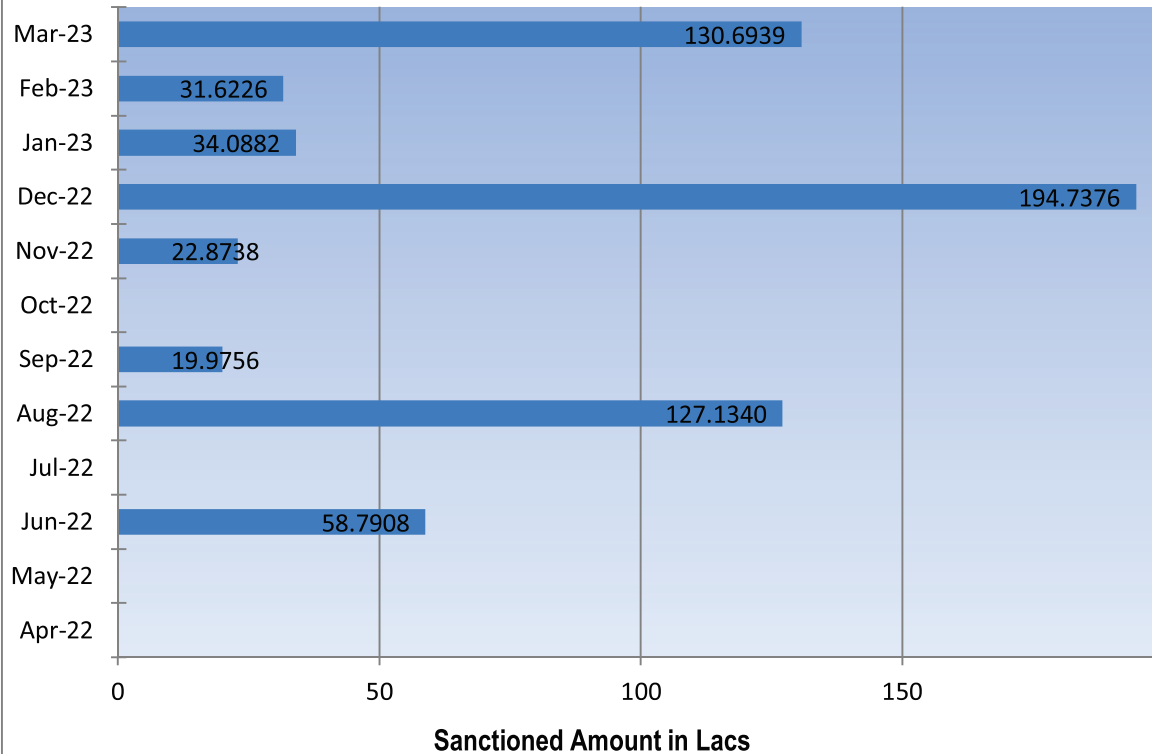
The Institute gives significant importance to sponsored and collaborative research funded by National and State funding agencies. The institution features state-of-the-art labs and necessary equipments to back up its research. Sponsored research has become a significant contributor to the development of infrastructure and enhancement of facilities in various emerging technology domains. The details of sponsored research projects (proposal submission, project sanctioned, ongoing research project as on date etc.) for the financial year 2022-23 is given below:

Project Proposals Submitted and Sanctioned Research Projects during 2022-23

Month	No. of Projects Submitted	Proposed Amount	No. of Projects Sanctioned	Sanctioned Amount
Apr-22	48	16,91,91,906	0	0.00
May-22	19	45,62,22,856	0	0.00
Jun-22	19	4,34,37,702	2	58,79,076
Jul-22	17	11,80,35,352	0	0
Aug-22	15	10,73,17,243	9	1,27,13,400
Sep-22	7	2,29,47,970	2	19,97,560
Oct-22	17	1,71,22,250	0	0.00
Nov-22	3	4,41,22,256	3	22,87,379
Dec-22	11	3,98,36,500	2	1,94,73,764
Jan-23	18	4,56,34,849	3	34,08,815
Feb-23	21	5,77,58,670	2	31,62,261
Mar-23	78	22,30,60,506	3	1,30,69,393
Total	273	13,44,68,8060	26	6,19,91,648



Projects Sanctioned during the year 2022-23



Sanctioned Amount for Research Projects during 2022-23

Research Projects Sanctioned during 2022-23

Sr. No.	Title of the Projects	Name of Principal Investigator	Name of the Funding Agency	Sanctioned Amount (Rs.)	Sanctioned Date
1	Development of Aerobic Granular Sludge based biological treatment system for treating	Dr. Joyabrata Mal, Biotechnology	BRNS, DAE, Mumbai	28,08,100	03/06/2022
2	Solar PV Supported Reconfigurable EV charger with Reduced Switching Devices	Dr. Rajesh Gupta, EED	Meity, New Delhi Under NaMPET-III	30,70,976	10/06/2022
3	Influence of microbial diversity on heavy metal removal and bio-electricity generation in a constructed wetlands integrated microbial fuel cell system: A sustainable approach for treatment of heavy metal contaminated industrial waste water	Dr. Radharani, Biotechnology	SERB, New Delhi	54,49,400	25/08/2022
4	Novel Processes of Synthesis of Physically Modified Starches for Application in Food Products and Agrowaste Composite Packaging Films	Dr. Harinder Singh, Chemical Eng.	UPCST Lucknow	10,44,000	29/08/2022
5	Thermal Performance evaluation of Earth-Air tunnel assisted Greenhouse in tropical conditions like Uttar Pradesh	Dr. Ashwini Kumar Yadav, MED	UPCST Lucknow	8,00,000	29/08/2022
6	Design of Wideband Wearable Antennas for Medical Internet of Things (MIoT) and 5G Used in Remote Healthcare Applications	Dr. Vijay Shankar Tripathi, ECED	UPCST Lucknow	11,92,000	29/08/2022
7	Development of Electric Vehicle Charging Infrastructure for Building Micro-Grids Containing Renewables for Smart City Applications	Dr. Prashant Kumar Tiwari, EED	UPCST Lucknow	10,92,000	29/08/2022
8	Structural Health Monitoring of Buildings Using Electro-Mechanical Impedance Techniques	Dr. Rama Shanker,	UPCST Lucknow	9,12,000	29/08/2022
9	Internet of Things (IoT) and Machine Learning (ML) based Smart UAV-Assisted Emergency System for Disaster Management	Dr. J. Sathish Kumar, CSED	UPCST Lucknow	5,80,000	30/08/2022
10	Artificial Intelligence Based Identification and Segregation of Plastic Waste from Garbage for Enhanced Recycling	Dr. Divya Kumar, CSED	UPCST Lucknow	10,44,000	30/08/2022
11	Development of a multiplex QPCR assay based on miRNAs expression in liquid biopsy for early diagnosis of epithelial ovarian carcinoma	Dr. Manisha Sachan, Biotechnology	UPCST Lucknow	6,00,000	30/08/2022
12	Investigation of two-fluid flows (micropolar-Newtonian) through a complex porous medium and their applications in engineering sciences	Dr. Pramod Kumar Yadav, Mathematics	UPCST Lucknow	10,04,000	01/09/2022
13	Modeling of Shocks Induced Sympathetic Detonation in Explosive Warheads/Bombs/Munitions	Dr. A. K. Upadhyay, AMD	DRDO, CARS	9,93,560	20/09/2022
14	Polymeric Nanocomposite (PNC) for bonding dissimilar material surfaces	Dr. Sunil Kumar Gupta, MED	DRDO, Kanpur	9,90,000	02/11/2022
15	Study on therapeutic and preventive efficacies of linoleic acid in hamster model of visceral leishmaniasis	Dr. Ambak Kumar Rai, Biotechnology	ICMR, New Delhi	11,97,379	22/11/2022
16	Monitoring & Investigation on lightning phenomena and its associated processes using lightning detection systems (LDS) at Collaborating Institutes	Dr. Ramji Dwivedi, GIS Cell	NRSC	1,00,000	24/11/2022
17	Computational screening to identify plant derived DPP IV inhibitors as therapeutics of diabetes type 2	Dr. Ashutosh Mani, Biotechnology	SERB, New Delhi	53,73,764	19/12/2022

18	Fund for Science and Engineering Research	Head, EED	DST New Delhi	1,41,00,000	29/12/2022
19	Investigating healthcare data management using blockchain technology and Internet of Things	Dr. Sathish Kumar, CSED	SERB, New Delhi	23,49,855	18/01/2023
20	Inspire Fellowship Scheme	Ms. Harshita, Mathematics	DST, New Delhi	4,58,960	27/01/2023
21	Development of a multiplex QPCR assay based on miRNAs expression in liquid biopsy for early diagnosis of epithelial ovarian carcinoma	Dr. Manisha Sachan, Biotechnology	UPCST Lucknow	6,00,000	31/01/2023
22	Effect of polyherbal formulations on energy and stamina	Dr. Vishnu Agarwal, Biotechnology	Emami Limited	4,56,000	06/02/2023
23	Design and Development of a proof-of-Concept Model of a Self-Deployable Ultra-light Weight Adaptive Inflatable Structures	Dr. Satish Kumar, AMD	SERB, New Delhi	27,06,261	14/02/2023
24	Design and development of a non-invasive, smart, and portable device for real-time assessment of bone fracture healing progression	Dr. Abhishek Kumar Tiwari, AMD	SERB, New Delhi	47,85,264	02/03/2023
25	Investigating Aetiology of Early Age Onset Colorectal Cancers (EOCRC) using MultiOmics technology: A case Control Study	Dr. Sameer Srivastava, Biotechnology	ICMR, New Delhi	29,24,129	13/03/2023
26	Assessment of patient derived Exosomal Contents and Computational Analysis: Implication in Early Diagnosis, Risk Assessment for Pancreaticobiliary Cancer in India	Dr. Girjesh Kumar Patel, Biotechnology	BIOTECHNOLOG Y, New Delhi	53,60,000	22/03/2023

Ongoing Research Projects

Sr. No.	Title of the Projects	Name of Principal Investigator	Funding Agency	Sanctioned Amount (Rs.)	Status/ Date of Completion
1	Air Quality Monitoring Project	Prof. R.C. Vaishya, CED	UPPCB, Lucknow	7,40,400 Per Year	Ongoing/ Yearly
2	Ambient Air Quality Monitoring and Noise Monitoring at three locations in Allahabad City	Dr. N. R. Rawal, CED	UPPCB, Lucknow	10,56,000 Per Year	Ongoing/ Yearly
3	Visvesvaraya PhD Scheme for Electronics & IT	Dr. D. K. Yadav, Nodal Officer, CSED	DeitY, New Delhi	8,44,83,600	Ongoing
4	Design and Innovation Centre	Dr. Shivesh Sharma, Biotechnology	MHRD, New Delhi	1,00,00,000	Ongoing/ 31.03.24
5	Visible-light mediated synthetically important radical reactions of vinyl epoxides	Dr. Ruchi Chawla, Chemistry	DST	26,34,000	Ongoing/ 31.03.23
6	Designing and development of a novel quorum quenching and lytic bacteriophage cocktail based therapeutic strategy by using QS regulated CRISPR-cas system to prevent Pseudomonas aeruginosa and its biofilm associated infections.	Dr. Vishnu Agarwal, Biotechnology	ICMR, New Delhi	23,66,560	Ongoing/ 15.06.23
7	GIS-based Mapping of Microbial Diversity across the Ganges for Ecosystem Services	Dr. Shivesh Sharma, Biotechnology	Ministry of Jal Shakti, New Delhi	57,75,000	Ongoing/ 31.03.23
8	Syntheses, Characterisations and Applications of Luminescent metal organic Frameworks	Dr. Arti Chouhan, Chemistry	DST, New Delhi	27,95,000	Ongoing/ 31.03.23
9	Indo-Norway Joint Project entitled: Integrated Renewable Resources and Storage: Operation and management [IReSOpM]	Dr. Richa Negi, Electric Eng.	DST, New Delhi	46,52,760	Ongoing/ 31.03.23

10	Role of poly aromatic hydrocarbon (PAH) in exonal switch of cd5 gene of human T cells	Ms. Smita Kumari, Biotechnology	DST, New Delhi	22,86,368	Ongoing/ 20.11.24
11	Information Security Education & Awareness (ISEA) Project - Phase - II	Prof. R. S. Yadav, CSED	Meity, New Delhi	48,18,000	Ongoing/ 31.12.23
12	AN IoT enabled portable device for OND/ONSD based automated detection of Intracranial Pressure (ICP) through ocular USG Imaging	Dr. Basant Kumar, ECED	DST, New Delhi	24,73,540	Ongoing/ 31.03.24
13	Point-of-Care AI Technology based X-ray imaging device for automated early diagnosis of viral respiratory diseases	Dr. Mukul Shukla, ECED	DST, New Delhi	51,59,918	Ongoing/ 31.03.24
14	Development of a Novel Electrochemical membrane bioreactor (EMBR) for the treatment of low strength municipal wastewater and Generation of sustainable bioelectricity simultaneously	Dr. Suantak Kamsonlian, Chemical Engineering	SERB, New Delhi	39,30,195	Completed/ 26.12.22
15	Augmentation of fermentative biohydrogen production by using nanoparticles and immobilization techniques for mitigating biowastes	Ms. Priya Rai, Biotechnology	DST, New Delhi	28,89,400	Ongoing/ 31.03.24
16	Mapping groundwater quality Depleted area, Potential Groundwater Recharge Zones and Evolving the Farmer's Need based Groundwater Recharge structures in District Mahoba of Bundelkhand region of UP.	Dr. Hemant Kumar Pandey, CED	NRDMS/DST, New Delhi	14,99,040	Ongoing/ 31.03.24
17	Study on Cyber-physical Approach for Electric Power Grid	Prof. Nand Kishor, EED	SERB, New Delhi	54,29,263	Ongoing/ 18.09.23
18	Design and Development of Dielectric Resonator Antenna for Smart City Applications	Dr. Anand Sharma, ECED	UPCST	7,28,000	Ongoing/ 08.09.23
19	Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities (SUSTENANCE)	Prof. Nand Kishor, EED/ Dr. Manohar Yadav, GIS Cell	DST, New Delhi	64,35,220	Ongoing/ 31.12.24
20	Generation fo comprehensive methyome towards developing a qPCR based epigenetic biomarker panel for early detection of buccogingival and tongue carcinoma	Dr. Manisha Sachan, Biotechnology	ICMR, New Delhi	16,80,466	Ongoing/ 23.12.24
21	DHR-GIA Proposal: USHA: Urine Sense towards Health Analysis of kidney	Co-PI- Dr. Pranab Kumar Kundu, MED	ICMR, New Delhi	7,05,400	Ongoing/ 30.09.23
22	Development of an Integrated intelligent surveillance system for suspicious behaviour analysis	Dr. Dushyant Kumar Singh, CSED	SERB, New Delhi	25,56,400	Ongoing/ 30.11.24
23	Phenotypic Characterization and gene mapping of novel early rice flowering mutants during the floral transition and seed formation	Dr. Nand Kumar Singh, Biotechnology	SERB, New Delhi	30,36,264	Ongoing/ 29.12.24
24	Design of two-dimensional digital filters using finite-frequency reduced-order modelling	Dr. Deepak Kumar, EED	SERB, New Delhi	6,60,000	Ongoing/ 20.02.25
25	Development of a co-culture strategy for enhanced production of streptomycin using a hollow fiber membrane bioreactor	Dr. Rupika Sinha, Biotechnology	SERB, New Delhi	30,93,608	Ongoing/ 20.01.24

26	Understanding the human endogenous retrovirus-mediated regulation of CD5 isoform expression and its functional characterization	Dr. Ambak Kumar Rai, Biotechnology Dr. Sameer Srivastava, Biotechnology	SERB, New Delhi	50,98,324	Ongoing/ 24.01.25
27	Development of Non-Invasive Saliva based Glucometer for Diabetes Management	Dr. Shweta Tripathi, ECED	SERB, New Delhi	23,48,764	Ongoing/ 27.01.25
28	Engineering adhesive CeO ₂ -Pd nanozyme as effective antibiotics towards bacteria killing	Dr. Seema Nara, Biotechnology	SERB, New Delhi	44,22,240	Ongoing/ 09.02.25
29	Development of Unintentional Islanding Protection Scheme with Low Voltage & Frequency Ride Through Capability	Dr. Suman M, EED	SERB, New Delhi	33,23,144	Transferred/ 29.09.23
30	Mentoring and Monitoring of Government School of Uttar Pradesh under Rastriya Aaviskar Abhiyan	Dr. Shivesh Sharma, Biotechnology	Basic Education Dept. Govt UP	11,25,000	Ongoing/ 31.03.23
31	Development of Aerobic Granular Sludge based biological treatment system for treating	Dr. Joyabrata Mal, Biotechnology	BRNS, DAE, Mumbai	28,05,100	Ongoing/ 09.06.25
32	Regional Centre for Geodesy (for four Institute)	Dr. Ramji Dwivedi, GIS Cell	DST/ NRDMS	1,40,90,720	Ongoing/ 07.09.25
33	Influence of microbial diversity on heavy metal removal and bio-electricity generation in a constructed wetlands integrated microbial fuel cell system: A sustainable approach for treatment of heavy metal contaminated industrial waste water	Dr. Radharani, Biotechnology	SERB, New Delhi	54,49,400	Ongoing/ 30.08.25
34	Novel Processes of Synthesis of Physically Modified Starches for Application in Food Products and Agrowaste Composite Packaging Films	Dr. Harinder Singh, Chemical Eng.	UPCST Lucknow	10,44,000	Ongoing/ 16.11.25
35	Thermal Performance evaluation of Earth-Air tunnel assisted Greenhouse in tropical conditions like Uttar Pradesh	Dr. Ashwini Kumar Yadav, MED	UPCST Lucknow	8,00,000	Ongoing/ 14.09.24
36	Design of Wideband Wearable Antennas for Medical Internet of Things (MIoT) and 5G Used in Remote Healthcare Applications	Dr. Vijay Shankar Tripathi, ECED	UPCST Lucknow	11,92,000	Ongoing/ 07.12.25
37	Development of Electric Vehicle Charging Infrastructure for Building Micro-Grids Containing Renewables for Smart City Applications	Dr. Prashant Kumar Tiwari, EED	UPCST Lucknow	10,92,000	Ongoing/ 25.12.25
38	Structural Health Monitoring of Buildings Using Electro-Mechanical Impedance Techniques	Dr. Rama Shanker, CED	UPCST Lucknow	9,12,000	Ongoing/ 31.10.25
39	Internet of Things (IoT) and Machine Learning (ML) based Smart UAV-Assisted Emergency System for Disaster Management	Dr. J. Sathish Kumar, CSED	UPCST Lucknow	5,80,000	Ongoing/ 01.12.24
40	Artificial Intelligence Based Identification and Segregation of Plastic Waste from Garbage for Enhanced Recycling	Dr. Divya Kumar, CSED	UPCST Lucknow	10,44,000	Ongoing/ 27.11.25
41	Investigation of two-fluid flows (micropolar-Newtonian) through a complex porous medium and their applications in engineering sciences	Dr. Pramod Kumar Yadav, Mathematics	UPCST Lucknow	10,04,000	Ongoing/ 22.11.25

42	Development of a multiplex QPCR assay based on miRNAs expression in liquid biopsy for early diagnosis of epithelial ovarian carcinoma	Dr. Manisha Sachan, Biotechnology	UPCST Lucknow	6,00,000	Ongoing/ 30.01.26
43	Polymeric Nanocomposite (PNC) for bonding dissimilar material surfaces	Dr. Sunil Kumar Gupta, MED	DRDO, Kanpur	9,90,000	Ongoing/ 30.01.26
44	Study on therapeutic and preventive efficacies of linoleic acid in hamster model of visceral leishmaniasis	Dr. Ambak Kumar Rai, Biotechnology	ICMR, New Delhi	11,97,379	Ongoing/ 01.12.25
45	Monitoring & Investigation on lightning phenomena and its associated processes using lightning detection systems (LDS) at Collaborating Institutes	Dr. Ramji Dwivedi, GIS Cell	NRSC	1,00,000	Workshop
46	Computational screening to identify plant derived DPP IV inhibitors as therapeutics of diabetes type 2	Dr. Ashutosh Mani, Biotechnology	SERB, New Delhi	53,73,764	Ongoing/ 25.12.25
47	Solar PV Supported Reconfigurable EV charger with Reduced Switching Devices	Dr. Rajesh Gupta, EED	Meity, New Delhi Under NaMPET-III	30,70,976	Ongoing/ 31.03.24
48	Development and hardware implementation of deep learning based pre-processing techniques for thermal image application	Dr. Basant Kumar, ECED	DRDO, Kanpur	15,00,000	Ongoing/ 19.07.24
49	Design and development of a non-invasive, smart, and portable device for real-time assessment of bone fracture healing progression	Dr. Abhishek Kumar Tiwari, AMD	SERB, New Delhi	47,85,364	Ongoing/ 09.03.25
50	Modeling of Shocks Induced Sympathetic Detonation in Explosive Warheads/Bombs/Munitions	Dr. A. K. Upadhyay, MED	DRDO, CARS	9,93,560	Ongoing/ 31.03.24
51	Design and Development of a proof-of-Concept Model of a Self-Deployable Ultra-light Weight Adaptive Inflatable Structures	Dr. Satish Kumar, AMD	SERB, New Delhi	27,06,261	Ongoing/ 21.02.26
52	Investigating Aetiology of Early Age Onset Colorectal Cancers (EOCRC) using MultiOmics technology: A case Control Study	Dr. Sameer Srivastava, Biotechnology	ICMR, New Delhi	29,24,129	Ongoing/ 19.03.26
53	Effect of polyherbal formulations on energy and stamina	Dr. Vishnu Agarwal, Biotechnology	Emami Limited	4,56,000	Ongoing/ 31.03.24
54	Assessment of patient derived Exosomal Contents and Computational Analysis: Implication in Early Diagnosis, Risk Assessment for Pancreaticobiliary Cancer in India	Dr. Girjesh Kumar Patel, Biotechnology	DBT, New Delhi	53,60,000	Ongoing/ 08.11.27

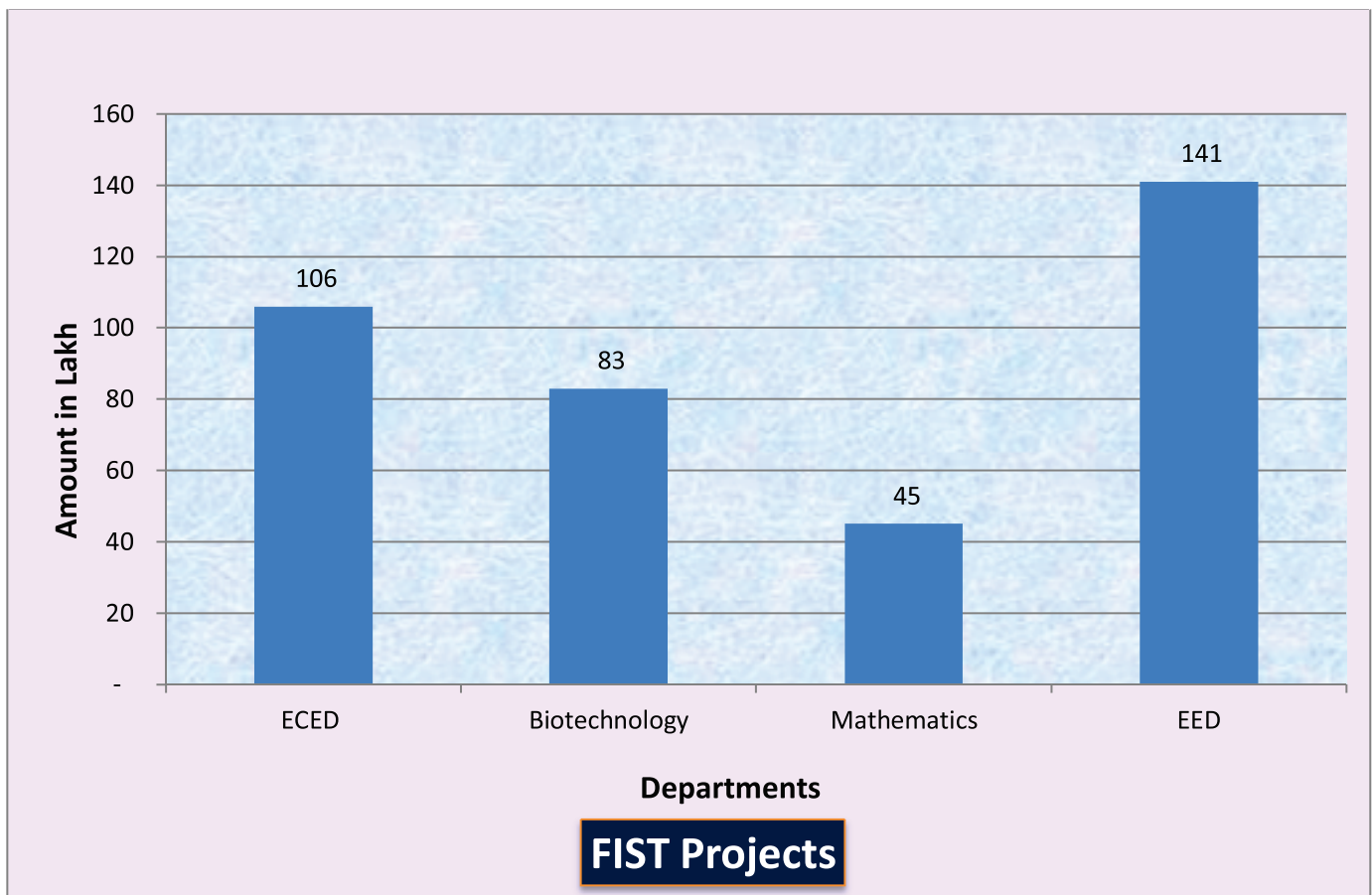
Sponsored Workshops/Conferences

Sr. No.	Title of the Workshop/Conference	Name of Organizer	Funding Agency	Sanctioned Amount (Rs.)	Status
1	International Conference on "1st International Conference on Advances in Biopolymers and Composites: Health, Environment and Energy (ABC-HEE, 2022)	Dr. Sangeeta Negi, Biotechnology	SERB, New Delhi	2,00,000	International Conference
2	International Conference on "IEEE-International Conference on Microwave, Antenna and Communication (MAC 2023)"	Prof. V. S. Tripathis, ECED	SERB, New Delhi	1,50,000	International Conference

FUND FOR IMPROVEMENT OF SCIENCE & TECH. INFRASTRUCTURE (FIST)

The scheme “Fund for Improvement of Science and Technology Infrastructure (FIST)” is intended to provide basic infrastructure and enabling facilities for promoting R&D activities in new and emerging areas and attracting fresh talents in universities & other educational institutions. It is considered as complementary support for enabling Departments / Centres/ Schools/ Colleges to pursue research activities more effectively and efficiently.

The scheme provides optimal infrastructure facilities for post-graduate and higher research, such as, renovation of existing laboratory space (no fresh constructions) and cold room, modernization of laboratories involved in PG and higher research, acquisition of essential equipment, up-gradation of existing facilities, networking & computational facilities including software & databases, scientific & technical books, maintenance & refurbishing of existing and new facilities etc. The facilities provided under the program are intended to support the efforts of the department as a whole or a group of faculty members in the Department to develop testing and research facilities. Proposal towards individual R&D support are not accepted under this Scheme. The synergy and focus of research may preferably be aligned to National Missions/priorities.



ONGOING FIST PROJECT SUMMARY

1. Department of Electronics and Communication Engineering

Sanctioned Amount : Rs.106 Lac
Received Grant : Rs.76.50 Lac
Project Sanction Date : 25.10.2017

Sanctioned Equipments: Programmable Pattern Generators - Rs. 50 Lac, (ii) Optical Spectrum Analyzer- Rs. 25 Lac, (iii) Tunable Laser-Rs. 20 Lac, (iv) DSP Processor-Rs. 1.5 Lac. & General Components-Rs.9.5.

2. Department of Biotechnology

Sanctioned Amount : Rs.83 Lac
Received Grant : Rs. 60 Lac
Project Sanction Date : 15.12.2017

Sanctioned Equipments: Multi plate Reader – Rs. 18.0 Lac, (ii) Chem Doc- Rs. 14.0 Lac, (iii) RT-PCR – Rs. 12.0 Lac, (iv) -80o C Deep Freezer – Rs. 5.0 Lac, (v) Centrifuge – Rs. 7.0Lac (vi) Cooling Incubator – Rs. 4.0 Lac, (vii) Networking- Rs. 10.00 Lac for setting up a computer lab (viii) Infrastructure (books) for Rs. 5.0 Lac & (ix) Maintenance Rs. 8.0 Lac (total of Rs. 83 Lacs)

3. Department of Mathematics

Sanctioned Amount : Rs.45 Lac
Received Grant : Rs.32 Lac
Project Sanction Date : 18.11.2019

Sanctioned Equipments: Hardware – Rs. 20.0 Lacs (25 Pcs, 1 Server, 10 KVA UPS, 1 Printer, 1 LCD Projector & Software – 10.0 Lacs (COMSOL) and Infrastructure (books) for Rs.10 Lac & Maintenance - Rs.5 Lac (total of Rs. 45 Lac)

4. Department of Electrical Engineering

Sanctioned Amount : Rs.141 Lac
Received Grant : Rs.120 Lac
Project Sanction Date : 29.12.2022

Sanctioned Equipment: Modified 33 Bus Distributions System – 1 & Real Time HIL GST Slab Simulator -1, along with Maintenance, Industrial R&D support, SSR Activities (around Rs. 1.41 Cr of total cost)

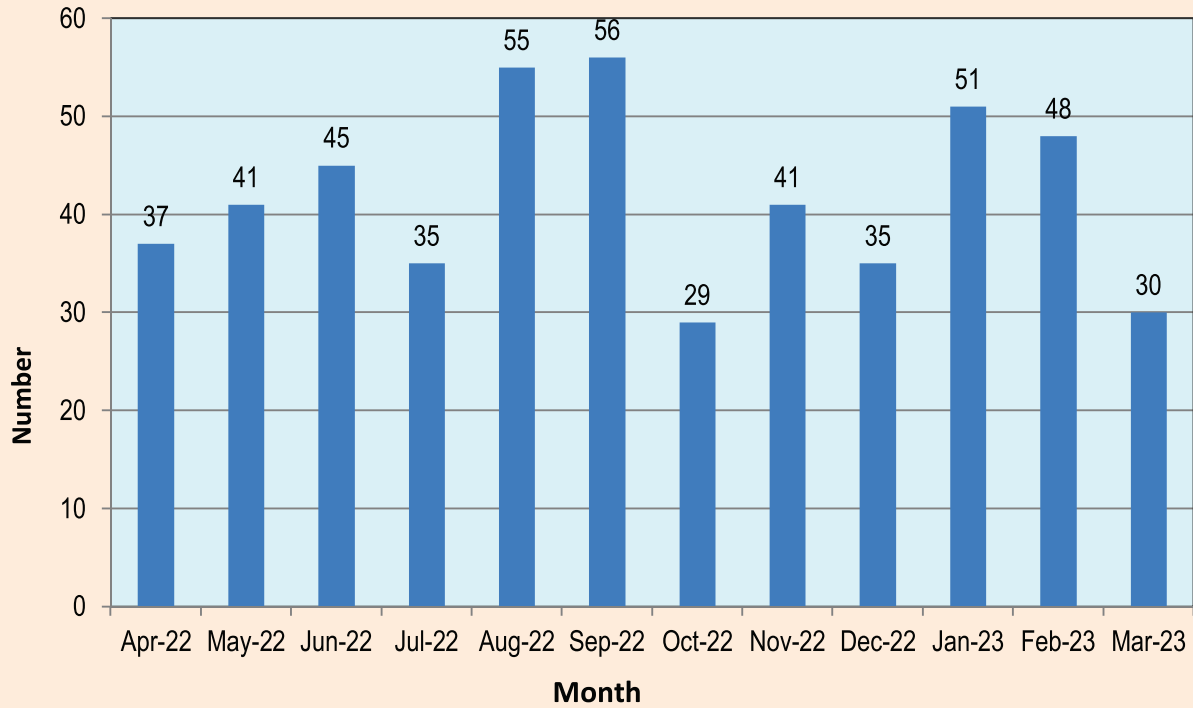
TESTING AND CONSULTANCY PROJECTS

Consultancy projects are the assignment/job given by the outside agency to the Institute for work within a mutually agreed scope. The Institute has expertise in various research areas to provide knowledge and intellectual inputs which are of interest to the industry and other organizations. A consultancy project/task/work is the one where faculty and research staffs provide knowledge and intellectual inputs to industry or other organizations (within India and abroad), in accordance to the scope of work

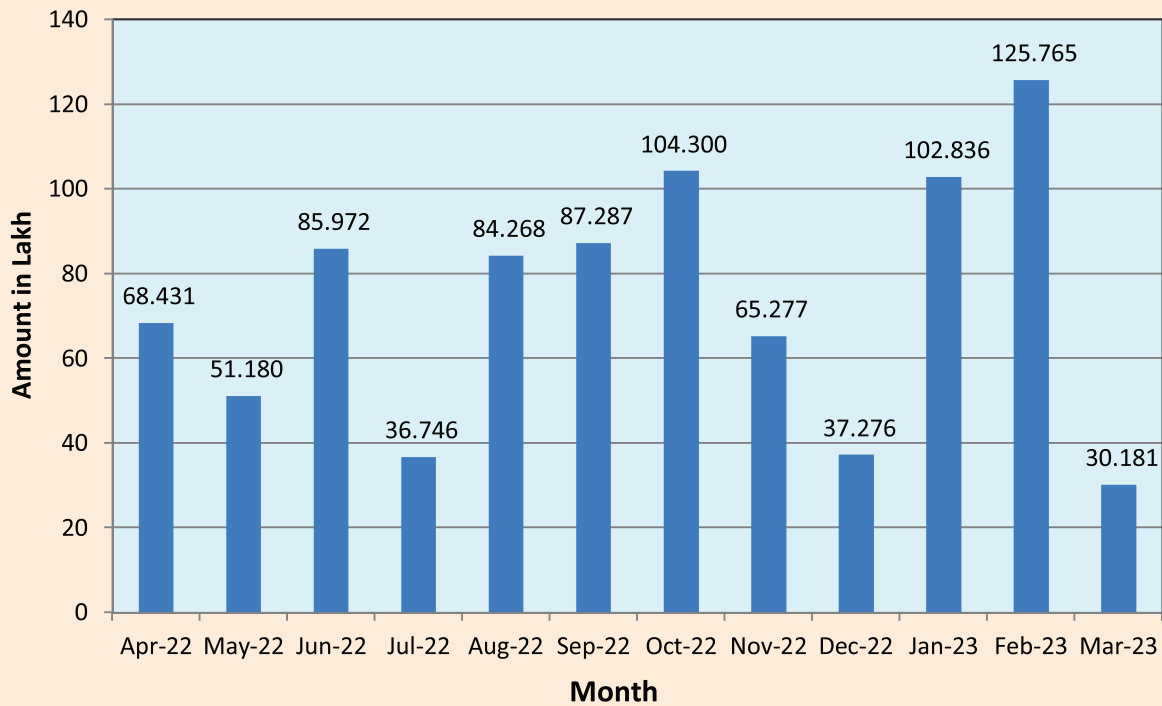
The summary of these projects are represented below:

Testing and Consultancy Projects are received (monthly summary)

Received during 2022-23		
Month	Received Number of Projects	Total Amount (in Lakhs)
Apr-22	37	68.431
May-22	41	51.180
Jun-22	45	85.972
Jul-22	35	36.746
Aug-22	55	84.268
Sep-22	56	87.287
Oct-22	29	104.300
Nov-22	41	65.277
Dec-22	35	37.276
Jan-23	51	102.836
Feb-23	48	125.770
Mar-23	30	30.181
Total	503	879.518



Number of Consultancy Projects Recived During 2022-23



Amount Received for Testing and Consultancy Projects during 2022-23

Testing and Consultancy Projects Received during the year

The Institute allows consultancy projects from various Government, Private, Multinational Companies and Non Government Organizations through faculty members. Honorarium for Testing and Consultancy to Principal Investigator/Co-Investigator is paid according to R&C Rule. The Institute received testing & consultancy projects from various clients such as Irrigation Dept, U.P. Jal Nigam, Nagar Nigam, Rites, Allahabad Development Authority, Power Grid Corporation Ltd., Ganga Pollution Control Unit, UP Project Corporation Ltd. and many others. Total 503 number of consultancy projects have been received during the financial year 2022-23 total fee of **Rs 8,79.518 lakh**.

The details of the Testing and Consultancy projects costing more three lac are given below in the table:-

Testing and Consultancy Projects Received during 2022-23 (> Rs. 3 lakh)

Sr. No.	Consultancy Project No./ Date	Name of the Funding Agency/Client with Address	Name of Principal Investigator/ Co-Investigator	Total Received Amount (Rs.)	Type of Testing/ category
1.	CP/06/Apr/2022-23 dt. 07.04.2021	EE BELAN CANAL DIVISION PRAYAGRAJ 0/0 EXECUTIVE ENGINEER, GOVINDPUR CANAL COLONY, GOVINDPUR, Prayagraj - 211009, U.P.	Dr. Priyaranjan Pal, Dr. Gautom Ghosh, CED Prof. R. P. Tiwari,	24,19,000	Design Consultancy
2.	CP/07/Apr/2022-23 dt. 08.04.2021	EE BELAN CANAL DIVISION PRAYAGRAJ 0/0 EXECUTIVE ENGINEER, GOVINDPUR CANAL COLONY, GOVINDPUR, Prayagraj, Uttar Pradesh, 211009	Dr. Priyaranjan Pal, Dr. Gautom Ghosh, CED Prof. R. P. Tiwari,	8,26,000	Design Consultancy
3.	CP/25/Apr/2022-23 dt. 26.04.2021	अधिवासी अभियंता ओवरा बांध खण्ड सोनभद्र, UP	Dr.V. P. Singh, CED Smt. Urmila Devi etc.	16,87,400	Testing & Design Consultancy
4.	CP/26/Apr/2022-23 dt. 26.04.2021	Shri P. Mohanasundaran Joint Director (P-11) NRIDA, New Delhi	Dr. Shalinee Shuklar, Prof. R. P. Tiwari, Prof. A. K. Sachan, CED Prof. A. K. Singh,	8,62,409	Design Consultancy
5.	CP/41/May/2022-23 dt. 05.05.2021	The Executive Engineer Prayagraj Development Authority, 7th, 8th Floor, Indira Bhawan, Civil Lines Prayagraj	Prof. R. P. Tiwari, Dr. Vijay Kumar, Dr. Varun Singh,	5,66,400	III Party Inspection
6.	CP/43/May/2022-23 dt. 05.05.2022	BRIDGE AND ROOF COMPANY INDIA LTD Office No. 401-408, B-Wing, 4th Floor, Kukreja Centre, Plot no. 13, Sector-11, CBD Belapur, Thane, Maharashtra, 400614	Prof. R. P. Tiwari, Dr. Vijay Kumar,	3,77,600	Testing
7.	CP/54/May/2022-23 dt. 10.05.2022	C K ENTERPRISES CHANDRA KESH PAL BEERAPUR, KAMLANAGAR, JHUNSI, Prayagraj, Uttar Pradesh, 212109	Dr. Rama Shanker, Prof. A. K. Singh, Mr. Hemant Kumar Pandey	3,54,000	Design Consultancy
8.	CP/62/May/2022-23 dt. 19.05.2022	Bridge Construction UP STATE BRIDGE CORPORATION LTD. 16 MADAN MOHAN MALVIYA MARG, LUCKNOW-226001, Uttar Pradesh	Dr. Rama Shanker, Mr. Shiv Kumar Singh Mr. Hemant Singh	3,59,900	Design Consultancy

9.	CP/91/June/2022-23 dt. 07.06.2022	Executive Engineer Provisional Division U.P.P.W.D. Prayagraj	Prof. R. P. Tiwari, Dr. Vijay Kumar,	4,72,000	III Party Inspection
10.	CP/97/June/2022-23 dt. 09.06.2022	M/S U.P.PROJECT CORPORATION LTD. Up Project Corporation LTD, Left Bank Gomti barrage, Gomti Nagar, Lucknow, Uttar Pradesh, 226001	Prof. Rakesh Kumar, CED Prof. A. K. Sachan, CED Prof. P. K. Mehta, CED	9,44,000	Design Consultancy
11.	CP/101/June/2022-23 dt. 10.06.2022	CENTRAL PUBLIC WORK DEPARTMENT 34A, 1ST FLOOR, KENDRIYA SADAN, M. G. MARG, CIVIL LINES, Prayagraj, Uttar Pradesh, 211001	Dr. Rama Shanker, CED Prof. P. K. Mehta, CED Prof. A. K. Sachan, CED Mr. K. K. Singh	7,08,000	Testing
12.	CP/102/June/2022-23 dt. 13.06.2022	CENTRAL PUBLIC WORK DEPARTMENT 34A, 1ST FLOOR, KENDRIYA SADAN, M. G. MARG, CIVIL LINES, Prayagraj, Uttar Pradesh, 211001	Dr. Rama Shanker, CED Prof. A. K. Sachan, CED	3,54,000	Design Consultancy
13.	CP/109/June/2022-23 dt. 16.06.2022	BARRAGE MECHANICAL MAINTENANCE DIVISION VARANASI EXECUTIVE ENGINEER BAIRAJ YANTRIK ANURAKSHAN KHAND, BALUA ROAD BEHIND OLD RTO OFFICE SARNATH, VARANASI, Varanasi, Uttar Pradesh, 221007	Prof. Raj Mohan Singh, CED Dr. Pramod Soni, CED	5,01,500	Design Consultancy
14.	CP/110/June/2022-23 dt. 16.06.2022.	BARRAGE MECHANICAL MAINTENANCE DIVISION VARANASI EXECUTIVE ENGINEER BAIRAJ YANTRIK ANURAKSHAN KHAND, BALUA ROAD BEHIND OLD RTO OFFICE SARNATH, VARANASI, Varanasi, Uttar Pradesh, 221007	Prof. Raj Mohan Singh, CED Dr. Pramod Soni, CED	5,01,500	Design Consultancy
15.	CP/113/June/2022-23 dt. 21.06.2022	Lucknow Nagar Nigam T. N. Marg Lalbag Lucknow-226001	Prof. Rakesh Kumar, CED Prof. P. K. Mehta, CED	11,80,000	III Party Inspection
16.	CP/119/June/2022-23 dt. 24.06.2022	Mr. Ravi Ranjan Municipal Corporation Nagar Nigam Prayagraj	Dr. N. R. Rawal, CED Dr. Pramod Soni, CED Mr. Alok Sahu Mr. Abhijeet Chakraborty Mr. Ranjan	10,99,760	Design Consultancy
17.	CP/127/July/2022-23 dt. 04.07.2022	Er. Kamlesh Chandra Executive Engineer & Sr. Manager (Civil)-2 BHU Project Division C.P.W.D. Office, BHU Varanasi	Prof. R. C. Vaishya, CED Prof.L. K. Mishra	3,24,512	III Party Inspection
18.	CP/133/July/2022-23 dt. 05.07.2022	M/S VIJAI CONSTRUCTION INDIA PRIVATE LIMITED, 11/11,, PAYAGIPUR CROSSING, VARANASI ROAD NH-56, Sultanpur, Uttar Pradesh, 228001	Prof. R. P. Tiwari, CED Dr. Vijay Kumar, CED Prof. P. K. Mehta, CED	3,54,000	Design Consultancy
19.	CP/136/July/2022-23 dt. 07.07.2022	Unit In Charge UP RAJKIYA NIRMAN NIGAM LTD LIST. Prayagraj Unit-2 Benthany Convent School Nani, Prayagraj	Prof. Rakesh Kumar, CED Prof. P. K. Mehta, CED	4,72,000	Testing
20.	CP/167/Aug/2022-23 dt. 04.08.2022	Project Manager U. P. Project Corporation Limited 14, Chandshaker Nagar Colony, Tulasherpur, Sanjay Nagar Bypass, Bereilly-243122	Prof. Rakesh Kumar, CED Prof. P. K. Mehta, CED	3,54,000	III Party Inspection
21.	CP/169/Aug/2022-23 dt. 09.08.2022	Superintendent Engineer Irrigation workshop circle-I, Kanpur	Prof. Raj Mohan Singh, CED Dr. Pramod Soni, CED	5,01,500	Design Consultancy

22.	CP/170/Aug/2022-23 dt. 04.08.2022	Superintendent Engineer Irrigation workshop circle-I, Kanpur	Prof. Raj Mohan Singh, CED Dr. Pramod Soni, CED	5,01,500	Design Consultancy
23.	CP/189/Aug/2022-23 dt. 17.08.2022	JMC PROJECTS (INDIA) LIMITED PLOT NO.139,208,209,210, AT-MAHULI, PO-PALIGUDA, PS-BAIPARIGUDA, Koraput, Odisha, 764083	Prof. R. P. Tiwari, CED Prof. A. K. Sachan, CED Prof. M. K. Khurana, MED Dr. Vijay Kumar, CED	15,93,000	Design Consultancy
24.	CP/194/Aug/2022-23 dt. 22.08.2022	Executive Engineer CD-A, PWD, Prayagraj UP	Dr. V. P. Singh, CED Prof. Rakesh Kumar, CED	4,89,700	Design Consultancy
25.	CP/196/Aug/2022-23 dt. 22.08.2022	INTERACTIVE INFO-COM (INDIA) PVT LTD 101, 1ST FLOOR, KANARA BUSINESS CENTRE, LAXMI NAGAR, GHATKOPAR EAST-400075, Maharashtra, 400075	Dr. V. P. Singh, CED Dr. Pramod Soni, CED	3,30,400	Design Consultancy
26.	CP/229/Sept/2022-23 dt. 09.09.2022	Mr. A. K. Singh Superintending Engineer, Office of SE, Circle Office, U.P. Jal Nigam (Rural) Prayagraj	Dr. N. R. Rawal, CED Prof. A. K. Sachan, CED Dr. V. P. Singh, CED	6,01,800	Design Consultancy
27.	CP/236/Sept/2022-23 dt. 22.09.2022	अधिकासी अभियंता निर्माण खंड 1, लो. नि. वि., प्रयागराज	Prof. Rakesh Kumar, CED Prof. P. K. Mehta, CED Mr. Chandan Kumar Gupta Mr. Sachin Kumar Mr. Krishna Kumar Maurya	4,72,000	Third Party Inspection & Design Consultancy
28.	CP/241/Sept/2022-23 dt. 22.09.2022.	Mr. A. K. Singh Superintending Engineer, Office of SE, Circle Office, U.P. Jal Nigam (Rural) Prayagraj	Dr. N. R. Rawal, CED Prof. A. K. Sachan, CED Dr. V. P. Singh, CED	3,06,800	Design Consultancy
29.	CP/268/Sept/2022-23 dt. 30.09.2022	JMC PROJECTS (INDIA) LIMITED PLOT NO.139,208,209,210, AT-MAHULI, PO-PALIGUDA, PS-BAIPARIGUDA, Koraput, Odisha, 764083	Prof. R. P. Tiwari, CED Prof. A. K. Sachan, CED Prof. M. K. Khurana, MED Dr. Vijay Kumar, CED	15,34,000	Design Consultancy
30.	CP/269/Sept/2022-23 dt. 30.09.2022	JMC PROJECTS (INDIA) LIMITED PLOT NO.139,208,209,210, AT-MAHULI, PO-PALIGUDA, PS-BAIPARIGUDA, Koraput, Odisha, 764083	Prof. R. P. Tiwari, CED Prof. A. K. Sachan, CED Prof. M. K. Khurana, MED Dr. Vijay Kumar, CED	16,52,000	Design Consultancy
31.	CP/283/OCT/2022-23 dt. 20.10.2022	Superintending Engineer Irrigation Workshop Circle-1, Kanpur	Prof. Raj Mohan Singh, CED Mr. Anurag Yadav Mr. Megavath Narahari	5,01,500	Design Consultancy
32.	CP/284/OCT/2022-23 dt. 20.10.2022	Superintending Engineer Irrigation Workshop Circle-1, Kanpur	Prof. Raj Mohan Singh, CED Mr. Anurag Yadav Mr. Megavath Narahari	5,01,500	Design Consultancy
33.	CP/289/OCT/2022-23 dt. 21.10.2022	Er. K. K. Prajapati Executive Engineer, Divisional Office U. P. Jal Nigam (Rural) Tulapur Water Tank Jhansi Prayagraj-(U.P)	Prof. R. C. Vaishya, CED Dr. Debolina Basu, CED Dr. Sunil Kumar Gupta, MED Mr. K. K. Singh Ms. Shakshi Gupta Mr. Mannu Yadav Mr. Sangam Lal	9,44,000	Design Consultancy
34.	CP/290/OCT/2022-23 dt. 21.10.2022	Executive Engineer Divisional Office U. P. Jal Nigam (Rural) Gadan Kheda Bypass Post-Singrosi, Unnao-209801 (U.P.)	Prof. R. C. Vaishya, CED Dr. Kumar Venkatesh, CED Dr. Sunil Kumar Gupta, MED Mr. K. K. Singh Ms. Shakshi Gupta Mr. Abhishek Pandey Mr. Diwaker Shukla Mr. Sangam Lal	9,44,000	Design Consultancy

46.	CP/326/NOV/2022-23 dt. 22.11.2022	WELSPUN ENTERPRISES LIMITED SAYAD MAZARA TOLL PLAZA,, NH-73, DEHRADUN ROAD,, VILL-UGRAHU MUSTKAM, POST-KAILASHPUR,, Saharanpur, Uttar Pradesh, 247001	Prof. R. P. Tiwari, CED Dr. Vijay Kumar, CED Prof. A. K. Sachan, CED Prof. M. K. Khurana, MED	8,26,000	Design Consultancy
47.	CP/332/NOV/2022-23 dt. 29.11.2022	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM, TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow, Uttar Pradesh, 226010	Prof. Rakesh Kumar, CED Prof. P. K. Mehta, CED	3,54,000	III Party Inspection
48.	CP/354/DEC/2022-23 dt. 12.12.2022	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM, TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow, Uttar Pradesh, 226010	Dr. Anupam Rawat, CED Dr. Vijay Kumar, CED	3,20,960	III Party Inspection
49.	CP/356/DEC/2022-23 dt. 14.12.2022	RURAL ENGINEERING SERVICES RURAL ENGINEERING DEPARTMENT, KATRA ROAD, VIKAS BHAWAN, Pratapgarh, Uttar Pradesh, 230001	Prof. Rakesh Kumar, CED Sri Amrendra Singh Sri Chandra Kumar Gupta Shri Krishna Kumar Maurya Shri Om, Shri Pramod	5,90,000	Design Consultancy
50.	CP/357/DEC/2022-23 dt. 14.12.2022	RURAL ENGINEERING SERVICES RURAL ENGINEERING DEPARTMENT, KATRA ROAD, VIKAS BHAWAN, Pratapgarh, Uttar Pradesh, 230001	Dr. Rama Shanker, CED Prof. Rakesh Kumar, CED	3,54,000	Design Consultancy
51.	CP/376/JAN/2022-23 dt. 02.01.2023	OFFICER OF THE ACCOUNT GENERAL (AUDIT-II), TC-35/V-I, 1st Floor, Audit Bhawan, Vibhuti Khand-4, Gomti Nagar, Lucknow, Uttar Pradesh, 226010	Dr. Ramji Dwidi, GIS Dr. Manohar Yadav, GIS Dr. Sonam Agarwal, GIS	19,94,200	Design Consultancy
52.	CP/380/JAN/2022-23 dt. 05.01.2023	High Energy Materials Research Laboratory, Defence Research and Development Organization, Govt. Of India, Ministry of Defence, Pune-411021	Dr. Ashutosh Upadhya	3,97,424	Research Project
53.	CP/405/JAN/2022-23 dt. 17.01.2023	M/S SHIVANSH CONSTRUCTION CHANDRASHEKHER SINGH 24, JEEVAN PLAZA, VIRAM KHAND 5, GOMTI NAGAR, Lucknow-226010, U. P.	Dr. Vijay Kumar, CED Prof. R. P. Tiwari, CED Smt. Urmila Devi Mr. Dharmendra Singh	3,06,800	Testing
54.	CP/410/JAN/2022-23 dt. 19.01.2023	Dr. A. K. Vidyarthi Additional Director & DH-WQM-II Central Pollution Board (CPCB) Parivesh Bhavan, East Arjun Nagar, Delhi-110032	Prof. R. C. Vaishya, Dr. Siraj Alam, Chemical Eng. Dr. Suantak Kamsolion, Chem. Eng. Dr. Pramod Soni, CED Dr. Debolina Basu, CED Mr. Mannu Yadav, Student Ms. Namrata Kulshrestha Mr. K. K. Singh, Student Mr. Roshan K. Singh, Student Mr. Sangam Lal	16,20,288	III Party Inspection
55.	CP/426/JAN/2022-23 dt. 31.01.2023	INTERACTIVE INFO-COM (INDIA) PVT LTD 101, 1ST FLOOR, KANARA BUSINESS CENTRE, LAXMI NAGAR, GHATKOPAR EAST-400075, Mumbai Suburban, Maharashtra,	Dr. V.P. Singh, CED Dr. N. R. Rawal, CED	18,97,440	Design Consultancy
56.	CP/447/Feb/2022-23 dt. 10.02.2023	CONSTRUCTION AND DESIGN SERVICES UP JAL NIGAM UTTAR PRADESH JAL NIGAM 7, Haridwar Road, Dehradun, Dehradun, Uttarakhand, 248001	Dr. Anupam Rawat, CED Dr. Vijay Kumar, CED	7,08,000	Design Consultancy

35.	CP/291/OCT/2022-23 dt. 21.10.2022	Executive Engineer Divisional Office,U. P. Jal Nigam (Rural) Office of Executive Engineer Div Office, Balia (U.P.)	Prof. R. C. Vaishya, CED Dr. Kumar Venkatesh, CED Dr. Sunil Kumar Gupta, MED Mr. K. K. Singh Ms. Shakshi Gupta Mr. Mannu Yadav Mr. Abhishek Pandey Mr. Sangam Lal	14,16,000	Design Consultancy
36.	CP/292/OCT/2022-23 dt. 21.10.2022	Executive Engineer Divisional Office, U. P. Jal Nigam (Rural) Mathura (U.P.)	Prof. R. C. Vaishya, CED Dr. Kumar Venkatesh, CED Dr. Sunil Kumar Gupta, MED Mr. K. K. Singh Ms. Shakshi Gupta Mr. Abhishek Pandey Mr. Diwaker Shukla	9,44,000	Design Consultancy
37.	CP/293/OCT/2022-23 dt. 21.10.2022	Executive Engineer Divisional Office, U. P. Jal Nigam (Rural), Agra (U.P.)	Prof. R. C. Vaishya, CED Dr. Kumar Venkatesh, CED Dr. Sunil Kumar Gupta, MED Mr. K. K. Singh Ms. Shakshi Gupta Mr. Abhishek Pandey Mr. Diwaker Shukla	9,44,000	Design Consultancy
38.	CP/294/OCT/2022-23 dt. 21.10.2022	Executive Engineer Divisional Office, U. P. Jal Nigam (Rural),Agra (U.P.)	Prof. R. C. Vaishya, CED Dr. Kumar Venkatesh, CED Dr. Sunil Kumar Gupta, MED Mr. K. K. Singh Ms. Shakshi Gupta Mr. Abhishek Pandey Mr. Diwaker Shukla	9,44,000	Design Consultancy
39.	CP/295/OCT/2022-23 dt. 27.10.2022	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow, Uttar Pradesh, 226010	Dr. Anupam Rawat, CED Dr. Vijay Kumar, CED	4,20,080	Ill Party Inspection
40.	CP/296/OCT/2022-23 dt. 27.10.2022	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow, Uttar Pradesh, 226010	Dr. Anupam Rawat, CED Dr. Vijay Kumar, CED	4,05,920	Ill Party Inspection
41.	CP/298/OCT/2022-23 dt. 27.10.2022	Superintending Engineer Irrigation Workshop Circle-1, Kanpur	Prof. Raj Mohan Singh, CED Mr. Anurag Yadav Mr. Megavath Narahari	5,01,500	Design Consultancy
42.	CP/299/OCT/2022-23 dt. 27.10.2022	Superintending Engineer Irrigation Workshop Circle-1,Kanpur	Prof. Raj Mohan Singh, CED Mr. Anurag Yadav Mr. Megavath Narahari	5,01,500	Design Consultancy
43.	CP/318/NOV/2022-23 dt. 16.11.2022	WELSPUN ENTERPRISES LIMITEDSAYAD MAZARA TOLL PLAZA,, NH-73, DEHRADUN ROAD,, VILL-UGRAHU MUSTKAM, POST- KAILASHPUR,, Saharanpur-247001, U. P.	Prof. R. P. Tiwari, CED Prof. A. K. Sachan, CED Dr. Vijay Kumar, CED Prof. M. K. Khurana, MED	4,37,780	Design Consultancy
44.	CP/320/NOV/2022-23 dt. 16.11.2022	OFFICER OF THE ACCOUNT GENERAL (AUDIT-II), TC-35/V-I, 1st Floor, Audit Bhawan, Vibhuti Khand-4, Gomti Nagar, Lucknow, Uttar Pradesh, 226010	Dr. Ramji Dwivedi, GIS Cell	11,35,455	Design Consultancy
45.	CP/325/NOV/2022-23 dt. 22.11.2022	CONSTRUCTION AND DESIGN SERVICES. UTTAR PRADESH JAL NIGAM TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow-226010, U. P.	Dr. Anupam Rawat, CED	11,80,000	Ill Party Inspection

57.	CP/461/Feb/2022-23 dt. 21.02.2023	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow-226010, U. P.	Dr. Anupam Rawat, CED	4,83,918	Testing
58.	CP/467/Feb/2022-23 dt. 23.02.2023	Executive Engineer, Construction Division 1, PWD, Allahabad Construction Division 1, PWD, Kasturba Gandhi Marg, Allahabad, Prayagraj, Uttar Pradesh, 211002	Prof. L. K. Mishra, CED Prof. P. K. Mehta, CED Dr. Rama Shanker, CED Dr. Gautam Ghosh, CED Dr. Priyaranjan Pal, CED	70,80,000	Testing
59.	CP/471/Feb/2022-23 dt. 28.02.2023	Executive Engineer, Construction Division 1, PWD, Allahabad Construction Division 1, PWD, Kasturba Gandhi Marg, Allahabad, Prayagraj, Uttar Pradesh, 211002	Prof. Rakesh Kumar, CED Dr. Rama Shanker, CED	4,13,000	Testing
60.	CP/481/Mar/2022-23 dt. 07.03.2023	EXECUTIVE ENGINEER RISHIKESH CENTRAL DIVISION 20, NIRMAN BHAWAN, SUBHASH ROAD, DEHRADUN-248001, Uttarakhand	Dr. Priyaranjan Pal, CED Prof. Rakesh Kumar, CED Dr. Gautam Ghosh, CED	5,42,500	III Party Inspection

Ongoing Testing and Consultancy Projects (> Rs. 3 lakh)

Sr. No.	Consultancy Project No./ Date	Name of the Funding Agency/Client with Address	Name of Principal Investigator	Total Received Amount (Rs.)	Type of Testing/ category
1.	CP/41/May/2022-23 dt. 05.05.2021	The Executive Engineer Prayagraj Development Authority, 7th, 8th Floor, Indira Bhawan, Civil Lines Prayagraj U. P.	Prof. R. P. Tiwari, CED	5,66,400	III Party Inspection
2.	CP/43/May/2022-23 dt. 05.05.2022	BRIDGE AND ROOF COMPANY INDIA LTD Office No. 401-408, B-Wing, 4th Floor, Kukreja Centre, Plot no. 13, Sector-11, CBD Belapur, Thane, Maharashtra, 400614	Prof. R. P. Tiwari, CED	3,77,600	Testing
3.	CP/91/June/2022-23 dt. 07.06.2022	Executive Engiuneer Provisional Division U.P.P.W.D. Prayagraj	Prof. R. P. Tiwari, CED	4,72,000	III Party Inspection
4.	CP/113/June/2022-23 dt. 21.06.2022	Lucknow Nagar Nigam T. N. Marg Lalbag Lucknow-226001	Prof. Rakesh Kumar, CED	11,80,000	III Party Inspection
5.	CP/133/July/2022-23 dt. 05.07.2022	M/S VIJAI CONSTRUCTION INDIA PVT LTD 11/11,, PAYAGIPUR CROSSING, VARANASI ROAD NH-56, Sultanpur, Uttar Pradesh, 228001	Prof. R. P. Tiwari, CED	3,54,000	Design Consultancy
6.	CP/189/Aug/2022-23 dt. 17.08.2022	JMC PROJECTS (INDIA) LIMITED PLOT NO.139,208,209,210, AT-MAHULI, PO-PALIGUDA, PS-BAIPARIGUDA, Koraput, Odisha, 764083	Prof. R. P. Tiwari, CED	15,93,000	Design Consultancy
7.	CP/194/Aug/2022-23 dt. 22.08.2022	Executive Engineer CD-A, PWD, Prayagraj UP	Dr. V. P. Singh, CED	4,89,700	Design Consultancy
8.	CP/268/Sept/2022-23 dt. 30.09.2022	JMC PROJECTS (INDIA) LIMITED PLOT NO.139,208,209,210, AT-MAHULI, PO-PALIGUDA, PS-BAIPARIGUDA, Koraput, Odisha, 764083	Prof. R. P. Tiwari, CED	15,34,000	Design Consultancy

9.	CP/269/Sept/2022-23 dt. 30.09.2022	JMC PROJECTS (INDIA) LIMITED PLOT NO.139,208,209,210, AT-MAHULI, PO-PALIGUDA, PS-BAIPARIGUDA, Koraput, Odisha, 764083	Prof. R. P. Tiwari, CED	16,52,000	Design Consultancy
10.	CP/289/OCT/2022-23 dt. 21.10.2022	Er. K. K. Prajapati, Executive Engineer Divisional Office, U. P. Jal Nigam (Rural) Tulapur Water Tank, Jhansi Prayagraj-(U.P)	Prof. R. C. Vaishya, CED	9,44,000	Design Consultancy
11.	CP/292/OCT/2022-23 dt. 21.10.2022	Executive Engineer, Divisional Office U. P. Jal Nigam (Rural), Mathura (U.P.)	Prof. R. C. Vaishya, CED	9,44,000	Design Consultancy
12.	CP/318/NOV/2022-23 dt. 16.11.2022	WELSPUN ENTERPRISES LIMITED SAYAD MAZARA TOLL PLAZA,, NH-73, DEHRADUN ROAD,, VILL-UGRAHU MUSTKAM, POST-KAILASHPUR,, Saharanpur, Uttar Pradesh, 247001	Prof. R. P. Tiwari, CED	4,37,780	Design Consultancy
13.	CP/325/NOV/2022-23 dt. 22.11.2022	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow-226010, U. P.	Dr. Anupam Rawat, CED	11,80,000	III Party Inspection
14.	CP/326/NOV/2022-23 dt. 22.11.2022	WELSPUN ENTERPRISES LIMITED SAYAD MAZARA TOLL PLAZA,, NH-73, DEHRADUN ROAD,, VILL-UGRAHU MUSTKAM, POST-KAILASHPUR,, Saharanpur, Uttar Pradesh, 247001	Prof. R. P. Tiwari, CED	8,26,000	Design Consultancy
15.	CP/332/NOV/2022-23 dt. 29.11.2022	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM, TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow, Uttar Pradesh, 226010	Prof. Rakesh Kumar, CED	3,54,000	III Party Inspection
16.	CP/357/DEC/2022-23 dt. 14.12.2022	RURAL ENGINEERING SERVICES RURAL ENGINEERING DEPARTMENT, KATRA ROAD, VIKAS BHAWAN, Pratapgarh, Uttar Pradesh, 230001	Dr. Rama Shanker, CED Prof. Rakesh Kumar, , CED	3,54,000	Design Consultancy
17.	CP/380/JAN/2022-23 dt. 05.01.2023	High Energy Material	Dr. Ashutosh Upadhyay, MED	3,97,424	Research Project
18.	CP/405/JAN/2022-23 dt. 17.01.2023	M/S SHIVANSH CONSTRUCTION CHANDRASHEKHER SINGH 24, JEEVAN PLAZA, VIRAM KHAND 5, GOMTI NAGAR, Lucknow-226010, U. P.	Dr. Vijay Kumar, CED	3,06,800	Testing
19.	CP/435/Feb/2022-23 dt. 08.02.2023	JMC PROJECTS (INDIA) LIMITED TOWER 3, 3RD-FLOOR, OKAYA CENTRE, B-5, B BLOCK, SECTOR 62, NOIDA, Gautam Buddha Nagar 201309, U. P.	Prof. R. P. Tiwari, CED Dr. Vijay Kumar, CED Prof. M. K. Khurana, MED Er. A. K. Singh, CED	35,40,000	Design Consultancy
20.	CP/447/Feb/2022-23 dt. 10.02.2023	CONSTRUCTION AND DESIGN SERVICES UP JAL NIGAM, UTTAR PRADESH JAL NIGAM, 7, Haridwar Road, Dehradun, Dehradun, Uttarakhand, 248001	Dr. Anupam Rawat, CED Dr. Vijay Kumar, CED	7,08,000	Design Consultancy
21.	CP/461/Feb/2022-23 dt. 21.02.2023	CONSTRUCTION AND DESIGN SERVICES UTTAR PRADESH JAL NIGAM TC-38, V VIBHOOTI KHAND, GOMTINAGAR, Lucknow-226010, U P	Dr. Anupam Rawat, CED	4,83,918	Testing

22.	CP/467/Feb/2022-23 dt. 23.02.2023	Executive Engineer, Construction Division 1, PWD, Allahabad, Construction Division 1, PWD, Kasturba Gandhi Marg, Allahabad, Prayagraj, Uttar Pradesh, 211002	Prof. L. K. Mishra, CED Prof. P. K. Mehta, CED Dr. Rama Shanker, CED Dr. Gautam Ghosh, CED Dr. P. R. Pal, CED	70,80,000	Testing
23.	CP/471/Feb/2022-23 dt. 28.02.2023	Executive Engineer, Construction Division 1, PWD, Allahabad, Construction Division 1, PWD, Kasturba Gandhi Marg, Allahabad, Prayagraj, Uttar Pradesh, 211002	Prof. Rakesh Kumar, CED Dr. Rama Shanker, CED	4,13,000	Testing
24.	CP/488/Mar/2022-23 dt. 15.03.2023	M/S UP RAJYA NIRMAN SAHKARI SANGH LIMITED, U P PROCESSING & CONSTRUCTION CO-OPERATIVE FEDERATION LIMITED, G-4/5-B, SECTOR- 4, GOMTI NAGAR EXTENSION, Lucknow, Uttar Pradesh, 226010	Dr. Rakesh Kumar, CED Prof. P. K. Mehta, CED Sri Amrendra Singh Mr. Sachin Verma Sri Prabhu Tripathi Sri Abhishek Singh Sri P. K. Pandey	5,90,000	Testing & Design Consultancy

LIST OF MAJOR CLIENTS

- Central Pollution Control Board (CPCB)
- M/s Hindalco Industries
- M/S IMPC, Company, Unapara, Sonbhadra UP
- M/s National Thermal Power Corporation Ltd.
- NCC Limited, UP
- Northern Center Railway
- U.P.P.W.D.
- R. Cube Infrastructure Pvt.-Ltd.
- Uttar Pradesh Rajkiya Nirman Nigam
- Uttar Pradesh Power Corporation Limited
- UP Jal Nigam
- UP State Construction and Infrastructure Development Corporation
- UP Bridge Construction Ltd.
- U.P.P.C.B
- Irrigation Construction Division
- M/S B. V. Construction Company
- Executive Engineer Sharda Sahayak Khand 51 Pratapgarh
- The Executive Engineer, Nagar Nigam, Prayagraj
- Adycon Concrete LLP
- Welspun enterprises Limited
- M/s U.P. Project Corporation Ltd.
- M/s Raj Kumar Engineering
- M/s JPR Balaji Infra Pvt. Ltd.
- M/s Emami Limited
- M/s Kalpataru Power Transmission Limited
- M/s U. P. Rajya Nirman Sahkari Sangh Ltd.
- M/s JWIL Infra Ltd.
- M/s U.P. Rajkiya Nirman Nigam Ltd.
- Projexon Engineering & Construction Services India Pvt. Ltd.
- Prayag Raj Smart City Ltd.

PATENTS

A patent is an exclusive right granted for an invention, which is a product or a process that provides, in general, a new way of doing something, or offers a new technical solution to a problem. To get a patent, technical information about the invention must be disclosed to the public in a patent application.

Patent filed

Sl. No.	Title of Patent	Name of Faculty
1	A Dynamic Emergency Vehicle Clearance System	Mr. Biru Rajak Dr. Dushyant Kumar Singh, Prof.Dharmender Singh Kushwaha
2	A Composition for inhibiting the Growth of Fungi	Dr. Ashutosh Mani Prof. Shivesh Sharma Ms. Shweta Srivastava Ms. Padmaja Rai
3	An Electrochemical Biosensor for Rapid Detection of Breast Cancer and a method of preparation thereof	Ms. Saumya Srivastava Prof. Anjana Pandey
4	A Site Inspection Autonomous Unmanned Aerial Vehicle System	Dr. J.C Mohanta Md. Faiyaz ahmed (SRF)
5	Zinc Ferrite Modified Zinc Oxide Nanostructures based Electrochemical Biosensor for Detection of Hydrogen Peroxide	Dr. Amit Srivastava Dr. Naresh Kumar
6	A Process of Microbial Decolorization of Reactive Textile Dyes	Dr. Sushil Kumar Dr. Radha Rani Ms. Ankita Srivastava
7	A Reversible Motion-Wire Electrochemical Spark Machining Device for Profile Cutting of Nanocomposite Work Piece	Mr. Harishanker Maurya Dr. Audhesh Narayan
8	An AC-DC-DC/AC Boost Derived Hybrid Converter With Input Power Factor Correction	Prof. Rajesh Gupta Mr. Sandeep Ojha
9	A system for Prediction of Raised Intracranial Pressure	Maninder Singh Vishal Gupta Shashwat Pathak Rajeev Gupta Basant Kumar Deepak Agarwal

10	A method for processing of a Polysaccharide	Mr. Abdul Rehman Dr. Parul Katiyar Dr. Harinder Singh
11	An Ionic Liquid-Based Nano-Photocatalyst and a Method of Preparation thereof	Dr. Dipesh S. Patle Dr. Sushil Kumar Ms. Aparna Gautam
12	A Perovskite material based Reram device and a method of Fabrication thereof	Dr. Animesh Kumar Ojha Mr. Saurabh K. Ojha
13	A System for Detection of Valvular Heart Disease in Real Time	Dr. Manish Tewari Prof. Amit Dhawan Dr. Arun Prakash Mr. Raghuvendra Pratap Tripathi Mr. Virat Krishna
14	A Triple Slope Multi-Wick Solar Still	Dr. Rahul Dev Mr. Rahul Patel
15	A Triple Slope Solar Still	Dr. Rahul Dev Mr. Rahul Patel
16	A Phase Change Material and Radiant Heating Based Solar Cooker	Dr. Ajaya Bharti Dr. Rahul Dev Mr. Lukalapu Ramu Mr. Aman Kumar Agrahari
17	A Microwave Absorber and a Method of Preparation thereof	Dr. Smriti Agarwal Mr. Sunil Jorwal Dr. Ashish Dubey Dr. Rajeev Gupta
18	A Photovoltaic Integrated Triple Slope Solar Stil	Dr. Ajaya Bharti Dr. Rahul Dev Mr. Rahul Patel
19	A Photovoltaic Integrated Triple Slope Multi-Wick Solar Stil	Dr. Ajaya Bharti Dr. Rahul Dev Mr. Rahul Patel
20	A Protective Garment	Dr. Manoj Kumar Gupta Mrs. Archana
21	An Electromagnetic Field Assisted Reversible Motion-Wire Electrochemical Spark Machining Device	Mr. Harishanker Maurya Dr. Audesh Narayan Ms. Nisha Singh

Patent granted

Sl. No.	Title of Patent	Name of Faculty
1	Micro fabrication annealing furnace with integrated magnetic field and electric field application, and affixable hall measurement set up therein	Dr. Shweta Tripathi Mr. Brijesh Kumar Singh Prof. P. Chakrabarti
2	Method to determine beam width of a dip in surface plasmon resonance sensor and its application thereof	Dr. Yogendra Kumar Prajapati Mr. J.B. Maurya
3	A novel α -Silicon / Polycarbazole organic schottky diode (osd) and the method of fabrication thereof	Prof. P. Chakrabarti Ms. Aditi Srivastava
4	Detox Candle for on-site Detoxification of Lignocellulose Hydrolysate and Method of Fabrication Thereof	Dr. Sangeeta Negi Mr. Ajay Kumar Pandey
5	A method for detection of heavy metals utilizing gold nano particles	Prof. Anjana Pandey Ms. Neha Yadav
6	Low power, uniform frequency resolution and high sampling speed arbitrary waveform generator	Mr. Subha Sarkar Dr. Y.K. Prajapati Dr. Rajeev Tripathi
7	A Multi-Modular Microbial Fuel Cell	Ms. Roma Agrahari Dr. Radha Rani
8	A process optimization using bacillus licheniformis lab isolate for conversion of corn starch to near theoretical yield biohydrogen production	Dr. Anjana Pandey Dr. Ashutosh Pandey Ms. Neha Singh
9	Integrated health-monitoring device and a method of real time transfer of health condition data collected thereof	Dr. Yogendra Kumar Prajapati Mr. Piyush Sil Mr. Piyush
10	A Reversible Motion-Wire Electrochemical Spark Machining Device for Profile Cutting of Nanocomposite Work Piece	Mr. Harishanker Maurya Dr. Audhesh Narayan
11	A system for Prediction of Raised Intracranial Pressure	Maninder Singh Vishal Gupta Shashwat Pathak Rajeev Gupta Basant Kumar Deepak Agarwal
12	A method for attaining p-type zinc oxide (ZnO) thin film	Dr. Shweta Tripathi Mr. Brijesh Kumar Singh Mr. Lucky Agarwal

Academic Campus Aerial view





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