

Manipal University Jaipur
Directorate of Research
Status of the Research Project Funded by Govt. Agencies (Total Amount 1542.41 Lakhs)
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S.No.	Name of the Project Title	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Sanctioned Amount (INR in lakhs)	Duration of the project	Remarks
1	DESIGN AND DEVELOPMENT OF ORTHO MODE TRANSDUCER AND DIELECTRIC HORN ANTENNA FOR X-BAND FREQUENCY	Dr V N Tiwari	DST, New Delhi	ECE Deptt	2013-14	26.61	3 Years	Completed
2	METAL/HETERO MENTAL OXIDES NANOSTRUCTURES FOR MARINE COATINGS: SYNTHESIS AND CHARACTERIZATION	Dr D C Agarwal	Office of Naval Research Global (ONRG), Singapore	MECHANICAL	2013-14	135.47	3 Years	Completed
3	ELECTRONIC PROPERTIES AND COMPTON SPECTROSCOPY OF SOME MAGNETIC ALLOYS & COMPOUNDS	Dr Jagrati Sahariya	Science Engg. Research Board, New Delhi (SERB)	Physics Deptt	2014-15	9.22	3 Years	Completed
4	HARNESSING CYANOBACTERIAL DIVERSITY OF EXTREME ENVIRONMENTS OF RAJASTHAN FOR SCREENING OF UV PROTECTANT MOLECULES.	Dr. Shikha Jain (PI), Dr. Lalita Ledwani (Co-PI)	BCIL, Department of Biotechnology, Govt. of India	Chemistry	2015-16	8.00	3 Years	Completed
5	TEXTILE INDUSTRIES AND GROUND WATER CONTAMINATION AROUND JAIPUR, INDIA	Prof Lalita Ledwani	Kurita Water Environment Fund, Japan	Chemistry Deptt	2015-16	1.63	3 Years	Completed
6	PRODUCTION OF CYCLOSPORINE LIKE AMINO (MAAS) FROM CYANOBACTERIA ISOLATED FROM THE HYPER SALINE ENVIRONMENTS	Dr Shikha Jain (PI) Women Scientist Under DST (WOSA) Prof. Lalita Ledwani Mentor	Department of Science and Technology, GOI	Chemistry	2016-17	32.03	3 Years	Completed
7	IN- SITU EXCHANGE BIAS STUDY OF MAGNETIC NAN CAPS DEPOSITED ONTO SELF-ASSEMBLED POLYSTYRENE NANO SPHERES	Dr Anupam Sharma	UGC-DAE Consortium for Scientific Research, Indore	Physics Deptt	2016-17	7.69	3 Years	Completed
8	TARGETED DELIVERY OF DEXAMETHASONE- ENCAPSULATING PLGA NANOPARTICLES TO TREAT NEURONAL INFLAMMATIONS: A HALLMARK OF NEURODEGENERATIVE DISORDERS.	Dr Abhijeet Singh	Department of Science and Technology, Rajasthan	Biosciences	2016-17	16.06	3 Years	Completed
9	SCREENING, ISOLATION AND IDENTIFICATION OF CAROTENOID PRODUCING BACTERIA ALONG WITH BIOMIMETIC SYNTHESIS OF SILVER NANOPARTICLES BY OPTIMIZING PHYSIC CULTURAL CONDITIONS AND THEIR BIOMEDICAL APPLICATIONS	Dr Abhijeet Singh, Mr. Ankit Chokriwal	ICMR for award of SRF	Biosciences	2016-17	12.69	3 Year	Completed
10	SCREENING, ISOLATION AND IDENTIFICATION OF CAROTENOID PRODUCING BACTERIA ALONG WITH BIOMIMETIC SYNTHESIS OF SILVER NANOPARTICLES BY OPTIMIZING PHYSIC CULTURAL CONDITIONS AND THEIR BIOMEDICAL APPLICATIONS	Dr. Abhijeet singh	ICMR, New Delhi	Biosciences	2016-17	10.58	3 Years	Completed
11	HYDROGEOMORPHOMETRY OF THE MARTIAN SURFACE : CONNECTING DOTS TO UNDERSTAND THE HYDROLOGIC AND CLIMATIC EVOLUTION AND GROUNDWATER POTENTIALITY OF MA'ADAM VALLIS REGION IN AEOLIS QUADRANGLE (MC-23)"	Prof. A.K. Sinha	ISRO	Biosciences	2016-17	16.25	3 Years	Completed
12	FORECASTING THE POWER OUTPUT OF SENSITIZED SOLAR CELLS (SSC) WITH VARYING STRUCTURAL AND WEATHER PARAMETERS USING SOFT COMPUTING TECHNIQUES	Dr. Praveen Kumar Surolia/ Prof. (Dr.) Vijaypal Singh Dhaka	Science and Engineering Research Board (SERB)	Chemistry	2016-17	62.00	3 Years	Completed

13	EX- SITU CONSERVATION USING IN VITRO METHODS OF AN ENDANGERED PLANT STERCULIA URENS ROXB.: A HIGH VOLUME TRADE PLANT FOR GUM KARAYA	Dr. M.M. Sharma / Dr. Abhijeet Singh	National Medicinal Plants Board (NMPB), New Delhi	Biosciences	2016-17	27.22	3 Years	Completed
14	FLUORESCENT MOLECULAR PROBE FOR DETECTION OF REACTIVE OXYGEN SPECIES (ROS) AND METAL IONS	Dr Rahul Srivastava / Dr Arunava Agarwala	Science and Engineering Research Board (SERB) New Delhi	Chemistry	2017-18	25.00	3 Year	Completed
15	EFFICIENT AND ECO-FRIENDLY HYDROPHOBIC ANTICORROSION COATING OF NAN-COMPOSITES FORMED BY POLYMERIC MATRIX AND NITROGEN RICH HETEROCYCLIC MOLECULES-GRAFTED GRAPHENE OXIDE AS NANOFILLER	Dr Debasis Behera / Dr Rahul Srivastava	UGC-DAE Consortium for Scientific Research, Indore	Chemistry	2017-18	12.58	1 Year	Completed
16	NANOPARTICLES BASED MOLECULAR PROBES: EFFECTIVE AND SENSITIVE MOLECULAR TOOLS FOR SENSING OF FLUORIDE AND OTHER TOXIC IONS FROM DRINKING WATER	Dr Rahul Srivastava / Dr Arunava Agarwala	DST, Govt of Rajasthan	Chemistry	2017-18	4.00	3 Year	Completed
17	DEVELOPMENT OF INNOVATION TECHNOLOGY FOR WASTE WATER TREATMENT FROM TEXTILE INDUSTRIAL SITES OF PALI REGIONAL, RAJ.	Dr Lalita Ledwani (PI)Dr Akhil Agarwal	DST, Govt of Rajasthan	Chemistry	2017-18	4.00	3 Year	Completed
18	DEVELOPMENT OF SOFT PRINTING SYSTEM FOR DNA MICROARRAY CHIP FABRICATION USING EWOD	Dr Niti Nipun Sharma / Dr Muthusamy Ananthasubramanian	Dept of Biotechnology (DBT) , New Delhi	MECHANICAL	2017-18	52.21	3 Years	Completed
19	CUSTOMIZED BIOACTIVE COMPOSITE BONE SCAFFOLD WITH CONTROLLED MICROSTRUCTURE	Dr. Sanchita B. Ghosh	Science Engg. Research Board, New Delhi (SERB)	Mechanical Engineering	2017-18	32.85	3 years	Completed
20	"M-ROID: FRAMEWORK FOR CAPTURING REAL-TIME DATA THROUGH OPTIMAL DEPLOYMENT OF MULTIPLE MOBILE ROBOTS IN HAZARDOUS INDOOR ENVIRONMENTS FOR DISASTER MANAGEMENT"	Dr Tarun Kumar Dubey / Mr. Rohit Mathur	DST, New Delhi & MSTR, Sri Lanka	ECE	2017-18	9.75	3 Year	Completed
21	AIR QUALITY ASSESSMENT, TREND ANALYSIS, EMISSION INVENTORY AND SOURCE APPORTIONMENT STUDY IN JAIPUR CITY	Dr Nitin Goyal	RSPCB	Civil Engineering	2017-18	8.91	2 Years	Completed
22	"JOINT IMAGE COMPRESSION AND ENCRYPTION FOR ACCURACY, RELIABILITY, AND IMAGE QUALITY IN TELEMEDICINE".	Dr. Pratishtha Mahur	DST, Govt of Rajasthan	IT	2018-19	5.73	3 Years	Completed
23	POLYEXTREMOPHILES FROM EXTREME REGIONS OF RAJASTHAN: ISOLATION, MOLECULAR CHARACTERIZATION AND THEIR FOTTENTIAL BIOTECHNOLOGICAL APPLICATIONS	Dr. Ashima Bagharia	DST, Govt of Rajasthan	Physics	2018-19	11.53	3 Years	Completed
24	PERFORMANCE OF LOW COST COMMUNITY BASED ONSITE SANITATION SYSTEM IN AMBIENT ENVIRONMENT	Dr. Meena Kumari	DST, Govt of Rajasthan	CIVIL	2018-19	21.21	3 Years	Completed
25	CASE STUDY FOR JAIPUR ABOUT NON SEWERED SANITATION & FECAL SLUDGE MANAGEMENT	Dr Monika Sogani	ADBI Tokyo, Japan	Civil Engg.	2018-19	3.48	0.5 Years	Completed
26	ELECTRONIC STRUCTURE STRATEGIES AND ELECTRON MOMENTUM DENSITIES OF SOME IMPORTANT FUNCTIONAL MATERIALS	Dr. Amit Soni	SCIENCE& ENGINEERINGRESEARCHBOARD(SERB)	Electrical Engineering	2018-19	18.96	3 years	Completed
27	DEVELOPMENT OF READY-TO-USE ASSORTED SAND FOR CONSTRUCTION ACTIVITIES FROM ZINC REFINING WASTES AND MARBLE POWDER.	Dr. Bhavna Tripathi	Ministry of Mines Govt. of India	CIVIL	2018-19	49.55	3 Years	Completed
28	THE EFFECT OF N-ACETYL L-CYSTEINE (NAC) ENCAPSULATED PLGA NANOPARTICLES ON NEUROINFLAMMATION FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS	Dr. Abhijeet singh	ICMR, New Delhi	Biosciences	2018-19	2.12	3 Years	Completed
29	ALLCERAMIC MAGNETO-ELECTRIC MULTIFERROIC BASED ENERGY HARVESTERS	Dr. Satyapal Singh Rathore	SCIENCE& ENGINEERINGRESEARCHBOARD(SERB)	Physics Deptt	2018-19	4.52	3 years	Completed

30	HIGH INTERNAL PHASE EMULSION AS TEMPLATE FOR MAKING DISPERSABLE HOLLOW MICROSPHERE WITH HYDROPHOBIC PORE INTERNALS FOR PROLONGED RELEASED OF FRANCE MOLECULES	Dr. Anees.A.Yunes Khan	DST SERB	Chemical engineering	2019-20	31.00	3 years	Completed
31	ENHANCED BIODEGRADATION OF ORGANIC POLLUTANTS AS WELL AS MICROPOLLUTANTS LIKE ENDOCRINE DISRUPTING COMPOUNDS (EDCS)FROM DAIRY FARM WASTEWATER IN A SINGLE CHAMBERED MICROBIAL FUEL CELL	Dr Monika Sogani	SERB, GOVT. OF INDIA	Civil Engg.	2019-20	11.37	3 Years	Completed
32	PRESENT STATUS AND FUTURE PROSPECTUS OF CHECKING PSYCHOSOCIAL FACTORS PROMOTING DOPING IN ADOLESCENCE, CRIMINALIZE DOPING AND IN HOUSE FAULTS; AN INVESTIGATION FOR COLLABORATIVE DIVERSIFIED PREVENTION STRATEGIES BY SPORT AND NON SPORT ORGANIZATIONS	Dr. Reena Poonia	Ministry of Youth Affairs & Sports Department of Sports	Sports	2019-20	5.00	2 Years	Completed
33	ASSESSMENT OF IMMUNOMODULATORY PROPERTIES OF STEROIDAL LACTONES ISOLATED FROM WITHANIA COAGULANS	Dr. Rohit Jain	Indian Council of Medical Research (ICMR)	Biosciences	2019-20	15.21	3 Years	Completed
34	IDENTIFYING THE ROLE OF BETAL QUID EXTRACT IN SUSTAINING CANCER STEM CELLS: A POTENTIAL FOR THERAPEUTIC RESISTANCE IN ORAL CANCER	Dr. Rajeev Mishra	SERB, GOVT. OF INDIA	Bioscience	2019-20	32.98	3 Years	Completed
35	DEVELOPEMENT AND DEMONSTRATION OF PILOT SCALE HYBRID WASTE WATER TREATMENT SYSTEM WITH HYDRODYNAMIC CAVITATION AND BIOSURFACTANT FOR RECYLING OF TEXTILE EFFULENTS	Dr. Mousumi Debnath	SERB- IMPRINT	Biosciences	2019-20	41.42	3 years	Completed
36	FPGA BASED SYSTEM FOR REGISTRATION OF DIFFRACTION PATTERNS	Dr. Amita Nandal	Indo-Bulgria Joint Project, DST	CCE	2019-20	11.82	2 Years	Completed
38	CONVERSION OF URBAN SOLID WASTE AT DISTRIBUTED LEVEL INTO VALUE ADDED PRODUCTS	Dr Abhishek Sharma	DST, New Delhi	Chemical Engineering	2020-21	82.94	3 Years	Ongoing
39	DEVELOPEMENT AND SCALE UP OF DESERT SOILIFICATION TECHNOLOGY FOR LAND RECLAMATION IN WESTERN RAJASTHAN	Dr Lalita Ledwani (PI)Dr Akhil Agarwal	DST, New Delhi	Chemistry Deptt.	2020-21	32.74	3 Years	Ongoing
40	DESIGN OF PERFORMANCE BASED CONCRETE USING SAND RECLAIMED FROM CONSTRUCTION AND DEMOLITION WASTE	Dr. Bhavna Tripathi	DST New Delhi	Civil Engg.	2020-21	36.49	3 Years	Ongoing
41	PROVIDING MENTAL HEALTH SUPPORT IN OB-GYN SETTING	Dr. BHAWNA CHAHAR	DST - SCIENCE FOR EQUITY EMPOWERMENT AND DEVELOPMENT DIVISION	Business Administration	2020-21	11.85	3 Years	Ongoing
42	EFFECT OF LITHIUM AND EUROPIUM CO-DOPING ON THE OPTO-ELECTRONIC AND MAGNETIC PROPERTIES OF TRANSITION METAL ION DOPED ZNO NANOSTRUCTURES	Dr Saikat Chattopadhyay	UGC-DAE CONSORTIUM FOR SCIENTIFIC RESEARCH, MUMBAI CENTRE	Physics Deptt	2020-21	0.45	1 Years	Ongoing
43	STRUCTURAL AND FUNCTIONAL STUDIES ON SIGNALLING SYSTEM ASSOCIATED WITH BACITRACIN SENSING AND RESISTANCE IN MULTI-DRUG RESISTANT STAPHYLOCOCCUS AUREUS	Dr. Sandeep Kumar Srivastava	SERB, GOVT. OF INDIA	Biosciences	2020-21	54.73	3 Years	Ongoing
44	DEVELOPMENT OF READY-TO-USE ASSORTED SAND FOR CONSTRUCTION ACTIVITIES FROM ZINC REFINING WASTES AND MARBLE POWDER - PART I	Dr. Bhavna Tripathi	Ministry of Mines, New Delhi	Civil Engg.	2020-21	30.00	2 years	Ongoing
45	CHEMICAL TAILORING OF EPOXY/ STEEL INTERFACE TO ENHANCE THEIR SYNERGISTIC EFFECT FOR CORROSION PROTECTION: MODELLING AND EXPERIMENTAL INVESTIGATIONS INVESTIGATIONS	Dr. Veena Dhayal *	Dept of Science & Technology (DST)	Chemistry	2020-21	2.75	3 Years	Ongoing

46	DEVELOPMENT OF READY-TO-USE ASSORTED SAND FOR CONSTRUCTION ACTIVITIES FROM ZINC REFINING WASTES AND MARBLE POWDER - PART II	Dr. Bhavna Tripathi	Ministry of Mines, New Delhi	Civil Engg.	2021-22	30.00	2 Years	Ongoing
47	DEVELOPMENT OF AIR AND MOISTURE STABLE NOVEL PEROVSKITE CHARGE MEDIATORS FOR SENSITIZED SOLAR CELLS	Dr. Praveen Kumar Surolia	Science and Engineering Research Board (SERB)	Chemistry	2021-22	46.97	3 Years	Ongoing
48	QUANTUM SATELLITE AND FIBRE COMMUNICATION	Dr. Manish Tiwari *	Dept of Science & Technology (DST)	ECE	2021-22	6.71	3 Years	Ongoing
49	SEQUENTIAL ADSORPTION OF MIXTURE OF DYES IN A MULTIBED ADSORPTION SYSTEM USING A LOW-COST ADSORBENT	Dr Manisha Sharma */Dr Anees Ahmed Yunus Khan	SERB Power Grant	Chemical engineering	2022-23	27.50	3 Years	Ongoing
50	SHAPE SELECTIVE CATALYSTS FOR CATALYTIC ALKYLATION OF AROMATICS TO PRODUCE PXYLENES	Dr Praveen Kumar Surolia *	DST-INSPIRE Fellowship	Chemistry	2022-23	24.64	5 Years	Ongoing
51	ISOLATION AND CHARACTERIZATION OF NEUROACTIVE METABOLITES: PSYCHOACTIVE POTENTIAL OF PROBIOTIC LACTIC ACID BACTERIA	Dr Rakesh Kumar Sharma */Dr Sandeep Kumar Srivastava	Indian Council of Medical Research (ICMR)	Biosciences	2022-23	12.95	3 Years	Ongoing
52	HARNESSING THE POTENTIAL OF POLYHYDROXYALKANOATES (PHA) FROM RHODOPSEUDOMONAS PALUSTRIS AS SUSTAINABLE RESOURCE FOR PRODUCTION OF BIOPLASTICS	Dr Monika Sogani *	Royal Institution McGill University	Biosciences	2022-23	4.00	1 Year	Ongoing
53	IN SILICO IDENTIFICATION, DESIGN AND EVALUATION OF SMALL MOLECULE INHIBITORS AGAINST NICOTINAMIDASE (PNCA) AND NICOTINATE PHOSPHORIBOSYLTRANSFERASE (PNCB) FROM METHICILLIN RESISTANT STAPHYLOCOCCUS AUR	Dr Sandeep Kumar Srivastava *	INDIAN COUNCIL OF MEDICAL RESEARCH ,NEW DELHI	Biosciences	2022-23	15.47	3 Years	Ongoing
54	PROVIDING LOW-COST SOLUTION AND APPROPRIATE MANAGEMENT FRAMEWORK FOR THE REJECT DISPOSAL OF COMMUNITY-BASED RO PLANTS IN MANY	Dr Monika Sogani * Prof. P. J. John Dr Kumar Sonu	Dept of Science & Technology (DST)	Biosciences	2022-23	37.43	3 Years	Ongoing
55	COMPUTATIONAL STUDY OF NANOALLOY CLUSTERS FOR POTENTIAL APPLICATIONS IN ENERGY SECTOR	Dr Prabhat Ranjan *	Science and Engineering Research Board (SERB)	Mechatronics Engineering	2022-23	32.87	3 Years	Ongoing
56	IN SILICO IDENTIFICATION, DESIGN AND EVALUATION OF SMALL MOLECULE INHIBITORS AGAINST NICOTINAMIDASE (PNCA) AND NICOTINATE PHOSPHORIBOSYLTRANSFERASE (PNCB) FROM METHICILLIN RESISTANT STAPHYLOCOCCUS AUR	Dr Sandeep Kumar Srivastava *	INDIAN COUNCIL OF MEDICAL RESEARCH ,NEW DELHI	Biosciences	2022-23	15.47	3 Years	Ongoing
57	DST-FIST PROGRAM FOR UNIVERSITY	Dr Rohit Jain * Dr Sandeep Kumar Srivastava * Dr Abhijeet Singh * Dr Madan Mohan Sharma * Dr Rakesh Kumar Sharma * Dr Monika Sogani * Dr Mousumi Debnath * Dr Nitesh Kumar Poddar *	Dept of Science & Technology (DST)	Biosciences	2022-23	150.00	5 Years	Ongoing
58	CINEMA MAIN BHARTIYATA	Dr Amit Sharma *	Indian Council of Social Science Research (ICSSR)	Journalism & Mass Communication	2022-23	4.80	1 Years	Ongoing
59	DEVELOPMENT AND UTILIZATION OF HIGH VALUE PRODUCTS FROM WASTE RESOURCES: CIRCULAR SOLUTION FOR AGRICULTURAL AND NON AGRICULTURAL APPLICATIONS	Dr Rohit Jain * Dr Lalita Ledwani * Dr Rakesh Kumar Sharma * Dr Abhishek Sharma *	Dept of Science & Technology (DST)	Chemical Engineering	2022-23	100.00	4 Years	Ongoing
60	HYBRID IRRIGATION SYSTEM FOR SMART AGRICULTURE USING IOT	Dr Devershi Pallavi Bhatt *	Unnat Bharat Abhiyan Centre for Rural Development and Technology IIT Delhi	Computer Applications	2022-23	1.00	3 Years	Ongoing