

RESEARCH PROJECT DETAILS (F.Y. 2022-23)

Summary							
Sr. No	Department	Ongoing Projects		Completed Project		Total	
		No of Project	Sanction amount	No of Project	Sanction amount	No of Project	Sanction amount
1	Department of Mechanical Engineering	30	7,33,86,460	-	-	30	7,33,86,460
2	Department of Chemistry	10	4,70,52,829	-	-	10	4,70,52,829
3	Department of Mathematics & Humanities	5	1,15,50,518	-	-	5	1,15,50,518
4	Department of Physics	14	4,43,35,071	-	-	14	4,43,35,071
5	Department of Civil Engineering	22	9,35,67,665	-	-	22	9,35,67,665
6	Department of Chemical Engineering	16	5,72,82,966	-	-	16	5,72,82,966
7	Department of Computer Science Engineering	2	1,97,90,571	-	-	2	1,97,90,571
8	Department of Electronics Engineering	9	4,92,55,222	-	-	9	4,92,55,222
9	Department of Electrical Engineering	9	3,29,00,982	-	-	9	3,29,00,982
	Total	117	42,91,22,284	-	-	117	42,91,22,284

Department of Mechanical Engineering						
Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	Combustor Technology Development for small Gas Turbine / Turbofan Engine	Dr. S A Channiwal	1,74,32,000	2 Years	02.05.17	Ongoing
2	Investigations on a Novel Stacked Minichannel Heat Sink Using Efficient Coolants	Dr. H B Mehta	24,47,500	3 Years	05.10.17	ongoing
3	Performance optimization of air conditioning system for automotive sector using new LOW GWP R1234yf refrigerant	Dr. Ashok D Parekh	21,45,000	3 years	22.01.19	Ongoing
4	CSIR BHATNAGAR FELLOWSHIP 2018 "Development Of Hybrid Plasma Gasification Technology for MSW Management	Dr. S A Channiwala	78,00,000	3 years	01.01.19	Ongoing

5	Investigations on Wear Characteristics of NiCrBSi Overlay Surface on 304 SS with and without Tungsten Carbide Reinforcement	Dr. V D Kalyankar	1,20,000	18 Months	11.10.19	Ongoing
6	Linear Stability Analysis of Interface Dynamics in Two-Phase Jets	Dr. Jyotirmay Banerjee	6,60,000	3 Years	04.03.20	Ongoing
7	Development Of A Novel High Entropy Alloy Reinforced Magnesium Composites to Reduce Tension-Compression Yield Asymmetry Through Ultrasonic Assisted Liquid State Processing Route	Dr. Biranchi Narayan Sahoo	28,64,340	2 Years	27.11.20	Ongoing
8	Industrial suitability and commercialization of novel SPIF process for DC04 steel and Ti Gr.2 materials	Dr. Amrut Shrikant Mulay	16,74,240	2 years	08.02.21	Ongoing
9	Investigations on Flow deflection about saponins Hydrokinetic Turbines and design evolution with Core Technical Concepts	Dr. Vimal K. Patel Dr. Vikram P. Rathod	20,24,000	3 years	18.03.21	Ongoing
10	Gujarat Robofest 2.0 Competition (Making the robot at the power exoskeleton category)	Dr. Harshit K Dave	50,000	-	30.03.21	Ongoing
11	Gujarat Robofest 2.0 Competition (Making the robot in the underwater robot category)	Dr. Harshit K Dave	50,000	-	30.3.21	Ongoing
12	Gujarat Robofest 2.0 Competition (Making the robot at the pipe climbing robot category)	Dr. Harshit K Dave	50,000	-	30.3.21	Ongoing
13	Gujarat Robofest 2.0 Competition (Making the robot at the four-legged robot category)	Dr. Harshit K Dave	50,000	-	30.3.21	Ongoing
14	Solar Drying cum Moisture Extraction from Herbs	Dr. Rohan Pande	2,50,000	1 year	23.11.21	Ongoing
15	A loop Heat pipe based Novel BTMS for Hybrid Vehicles/ Electric Vehicles	Dr. Hement Mehta Dr. V. M. Patel Dr. Yaresh Yamsetty	36,44,696	2 Years	04.01.22	Ongoing
16	Mechanical and Microstructural Behaviour of Laser-Based Direct Energy Deposited Wire Arc-Additive Manufactured Ti-6Al-4V Components	Dr. Biranchi Narayan Sahoo Dr. Ajay Kumar (IIT, Tirupati) Dr. Raju Prasad Mahto Dr. D. V. Kiran (IIT Tirupati)	10,60,000	3 years	11.01.22	Ongoing
17	Design and Development of solar Driven Water Generation System based on a Desiccant wheel	Dr. Amit Kumar	20,54,840	2 years	19.1.22	Ongoing

18	DST-FIST - To strengthen the research facilities in the department	Dr. J Benerjee Dr. P.V. Bhale Dr. H. B. Mehta Dr. R.D. Shah Dr. Nikhil A. Baraiya Dr. Y. Naresh Dr. Rohan Pande	1,02,00,000	5 years	08.03.22	Ongoing
19	Finishing of 3D-Printed parts using an axial abrasive flow machining process	Dr Bhargave Prajwal Pathri (woxen university Hyderabad, Telangana) Dr.Shailendra Kumar (Mentor)	18,30,000	3 years	17.03.22	Ongoing
20	Development, Characterization, and Performance Evaluation of Multi-Phase Composite Panels	Dr. Achchhe Lal	14,22,283	2 years	22.03.22	Ongoing
21	Investigation of thermal and Emissions and Characteristics with Multi Tube Inverse diffusion flame burner	Dr. Rupesh D Shah DR. Baraiya Nikhil Ashokbhai	7,95,000	2 years	05.05.22	Ongoing
22	Design and Development of PCM-based passive cooling system of E House	Dr. Manish K Rathod Dr. Jyotimay Banerjee	32,09,200	3 years	05.05.22	Ongoing
23	Development of a Multi-Material Welding approach for Ultrahigh-Strength Steel and 7xxx aluminum alloys to promote light- weighting and green mobility in the automobile sector	Dr. Vivek D Kalayankar Dr. Mukund H Bade	15,70,000	2 years	05.05.22	Ongoing
24	Design and Development of a novel battery thermal management system based on the direct flow boiling of a bi-phasic catalyst with nanoparticle suspension	Dr. Rajesh Choudhary	19,51,790	2 years	18.10.2022	Ongoing
25	Development of a 4-axis Extrusion-based 3-D printer to Fabricate Cylindrical Topology Structures	Dr. Sandip T. Patel, GEC Valsad Dr. Harshit K. Dave	1,97,000	3 years	01.02.23	Ongoing
26	Experimental Investigation on Functionally Graded Cellular Materials Fabricated Using Additive Manufacturing Process	Dr. Lalit S. Patel, GEC Valsad Dr.Harshit K. Dave	1,95,500	3 years	01.02.23	Ongoing
27	Design, Development, and fabrication of Electrocatalytic Reactor for energy efficient and cost-effective Production of Bio-diesel from higher generation feedstock	Dr. Kamlesh Arun Sorate	12,48,500	3 years	24.02.23	ongoing

28	Towards the performance of latent Heat Storage Unit: A Numerical Investigation	Dr. Digant S. Mehta Dr. Manish K. Rathod	2,00,000	2 years	07.03.23	Ongoing
29	Technology Upgradation of a traditional jaggery-making plant through porous media combustion for emission reduction & waste heat recovery	Dr. Rohan R.Pande Dr. P.V. Bhale Dr. Kamlesh Sorate Prof. R.A. Christian (CED)	22,19,800	3 years	16.03.23	Ongoing
30	Design and development of solar-driven desalination system based on Air-Humidification Technique using Nano-Fluids	Dr. Amit Kumar Dr. Rajesh Chaudhary	39,70,771	3 years	22.03.23	Ongoing

Department of Chemistry						
Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	SERB Project - Functional Variants of Mussel Inspired Biomaterial Surface; Effect to Surface Functional Groups on Antibiofilm Properties	Rajendra Kumar	28,91,000	3 years	08.03.16	Ongoing
2	Design of Green Synthetic Approaches for Automatically Precise Nanoclusters and their Specific Interaction: Development of Miniaturised Analytical Method	Dr Suresh Kumar Kailasa Prof. ZVP Murty	35,04,655	3 Years	20.07.17	Ongoing
3	Polydopamine-based Nanoparticles with Antimicrobial and antigenic properties for water disinfection and remediation	Dr.Rajendra Kumar	44,30,000	3 years	29.11.17	Transfer
4	Synthesis of Biologically active Heterocyclic Drug cores via multiple C-H bond Activation	Dr. Togati Naveen	33,95,830	3 years	29.09.21	Ongoing
5	Dye separation from Waste Water through Molecular Sieving Membranes of Covalent-Organic Frameworks	Dr. Ritambhara Jangir	28,53,784	2 Years	15.12.21	Ongoing
6	Development of autocatalytic enzyme-free nucleic acid amplification methods compatible with point-of-care diagnostics	Dr. Subrata Dutta	31,81,040	2 years	04.01.22	Ongoing
7	Waste Water Treatment: Polymoxometalates hybrids as Adsorbent of Organic Dyes	Dr. Ritambhara Jangir Dr. B.Z. Dholakiya	25,18,200	3 years	03.06.22	Ongoing

8	DST-FIST	Dr. Suresh Kumar Prof. Smita Jauhari Dr. B.Z. Dholakiya Dr. Suban Sahoo Dr. Naved Malek Dr. K.C. Maheria Dr. Premlata Kumari Dr. Ketan Krupekar	2,03,00,000	5 years	05.01.23	Ongoing
9	Designing and Synthesis of FluorescentMetal-Organic Frameworks for Sensing Applications	Ms. Foziya Yusuf Vadia Dr. Suresh Kumar Kailasa Dr. Naved I. Malek	16,66,000	3 years	09.02.23	Ongoing
10	Development of Eco-Friendly Optical Probes for Monitoring important growth hormones and pesticides in agricultural soil	Dr. Suresh Kumar Kailasha Dr. Sanjay Jha (Navsari Agriculture)	23,12,320	2 years	27.03.23	Ongoing

Department of Applied Mechanical Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	Some Studies on the performance of previous Concrete for improving oft Ground	Prof. J.B.Patel	6,92,000	2 years	20.06.16	Ongoing
2	DST - NIMAT (MOU - EDI) - To create techno-entrepreneurs and resource persons through the Entrepreneur Development Programme strategy	DR C D Modhera (Rakesh Kumar)	2,00,000	3 years	22.08.16	Ongoing

Department of Mathematics & Humanities

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	computational study on multi-dimensional Stefan problems in biological tissues based on a non-Fourier heat transfer model using the mesh-free method	Dr. Sushil Kumar	16,20,518	3 years	05.06.18	Ongoing
2	Simulation and Land data assimilation to community land model for improving rice crop dynamics	Dr. R K Jana	22,20,000	3 Years	11.03.20	Ongoing

3	A Need-based Approach to Understanding the Employ ability skills of Engineers	Dr. Urvashi Kaushal	50,000	2 years	17.06.21	Ongoing
4	DST-FIST	Prof. A. K. Shukla Prof. V. H. Pradhan Dr. Sushil Kumar Dr. Jayesh M Dhodiya Dr. Ramakanta Meher	70,00,000	5 years	8.3.22	Ongoing
5	Numerical Simulation of cancer treatment therapies hyperthermia and chemotherapy in multi-dimensional irregular domain	Dr. Sushil Kumar	6,60,000	3 years	15.3.22	Ongoing

Department of Physics

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	BRNS Project –Ground – State properties of low dimensional quantum systems.	Dr. L K Saini	14,49,250	3 years Extended up to 31.12.16	27.09.13	Ongoing
2	SERB Project – Strongly – correlated electronics materials, Topological quantum nanoo – materials	Dr. L K Saini	14,04,000	3 years	24.02.14	Ongoing
3	SERB Project - Novel perovskite-based solar cells: Investigation of potential properties using ab-initio approaches	Dr Y A Sonavne .	30,09,000	3 years	02.03.17	Ongoing
4	Development of Novel Cluster Assembled Material from Potential Cluster Motifs: A new insight under density Functional Investigation	Dr Debesh Ranjan Roy	27,69,594	3 Years	03.07.17	Ongoing
5	conducting polymer nanocomposite (CPC) for selective and sensitive sensor detection of explosive array	Dr. Swati Saxena	19,20,000	2 years	25.09.18	Ongoing
6	FIST - 2017	Dr. Vipul Kheraj	1,18,00,000	5 years	18.06.19	Ongoing
7	"TEC Data ingestion to ionospheric models from Indian EIA region to improve models predictions"	Dr. Sheetal P Karia	25,50,000	3 Years	05.07.19	Ongoing
8	Study of breakup reactions involving weakly bound projectile nuclei at Coulomb barrier energies	Dr. Dipika B Patel	21,31,200	2 Years	19.02.20	Ongoing

9	Group III-V Inorganic Semiconductor Clusters for Future Nanoelectronics Applications	Dr. Debesh Roy	33,67,513	3 Years	16.01.21	Ongoing
10	Physics and application of Plasma-surface interaction: tuning effect of Pulsed microwave electric field and magnetic field	Dr. Shail Pandey	35,00,000	6 years	16.07.21	Ongoing
11	Investigation of Novel Heusler Alloy Thin Films for Energy and Spintronics Applications	Dr. Himanshu Pandey	47,30,000	3 years	6.12.21	Ongoing
12	Nanostructured metal oxide-drug assemblies and their interaction mechanism with biomolecules: A joint experimental and first principal investigation for possible therapeutic applications	Dr. Sutapa Mondal Roy, Uka-Tarasadia univ. Dr. Debesh Ranjan Roy	18,30,000	3 Years	20.1.22	Ongoing
13	Systematic study of exotic nuclear systems using macro-microscopic and phenomenologicaapproachch	Dr. Rajni Sunil Kumar Dr. A.K.Rai (Mentor)	18,72,000	3 years	03.02.22	Ongoing
14	Interface engineering of 3D/2D Lead-Free Halide Perovskites Materials for Solar Cell	Dr. Yogesh Sonavane	20,02,514	3 years	01.03.23	Ongoing

Department of Civil Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	Strengthens the research facilities in the area of low Structures and Turbines	Dr. V L Manekar	1,75,00,000	5 Years	21.11.14	Ongoing
2	Performance and design evaluation of test tracks of flexible pavement with waste materials in sub-base and base Layers.	Dr. Satyajit Patel Dr. C H Solanki	1,61,15,200	3 Years	31.03.16	Ongoing
3	Unnat Bharat Abhiyan Cell	Dr. K D Yadav	1,75,000	1 years+up expandable	06.03.17	Ongoing
4	Preparation of Stale of Art Report (SOAR) on Preparation of Constriction Safety Manual	Dr. Dilip Patel	8,36,900	6 Months+ up to Expandable	21.07.17	Ongoing
5	IT Indian Heritage Platform Enhancing Cultural Resilience in India by Applying Digital Technologies to the Indian Tangible and Intangible Heritage	Dr. D A Patel	10,00,000	2 years	15.02.18	Ongoing

6	Impact of Climate Change on Water Resources of Sabarmati Basin	Dr.Vimal Mishra, IIT Gandhinagar Dr.P L Patel	84,91,560	3 Years	19.03.18	Ongoing
7	Impact of Climate Change on Water Resources of Tapi Basin	Dr.P L Patel Dr.P V Timbadiya Dr.Rohit Goyal, MNIT Jaipur Dr.Vishnu Prasad, MNIIt, Bhopal	1,35,84,560	3 Years	13.03.18 (07.11.2016 Saction Date)	Ongoing
8	Securing Water for Agricultural and Food Sustainability: Developing Transdisciplinary Approach to Groundwater Management	Dr. J N Patel	58,51,495	2 years	30.04.19	Ongoing
9	Development of Framework to Measure Sustainability Index Of Transportation Systems In Indian Metropolitan Cities	Dr. Shriniwas Arkatkar Dr. G J Joshi	82,32,000	3 years	22.02.19	Ongoing
10	Warrant for Automation of Toll Plazas under Mixed Traffic Conditions	Dr. Ashish Dhamania	7,67,000	2 Years	13.4.21	Ongoing
11	Graphane-Based Nanomaterials in Property Enhancement of Cement Composites & Concrete under GIJCOST STI Policy	Dr. Gaurang R. Vesmawala Dr. Yogesh D. patil	27,77,500	3 Years	08.06.21	Ongoing
12	Conflict Assessment at Diverging and merging area of Toll plaza by surrogate safety measures under mixed traffic conditions	Dr. Ashish Dhamania Dr. A Mohan Rao Sr. Pr. CSIR, New Delhi	21,30,000	2 Years	10.08.21	Ongoing
13	Development of Trip Generation Manual for Indian cities	Dr. Shriniwas Arkatkar Dr. G J Joshi	8,69,000	3 Years	31.12.21	Ongoing
14	Augmenting Ridership in Operating Metro Rail in Indian Cities	Dr. Gaurang J. Joshi Dr. S.S. Arkatkar	10,50,000	1 year	25.1.22	Ongoing
15	Local scouring around tandem and staggered bridge piers on a nonuniform mobile bed	Dr. P. V. Timbadiya Prof P.L. Patel	58,75,890	3 years	03.02.22	Ongoing
16	CCPDM-Circular Competitions Products Embedding Digital Manufacturing	Dr. D.A.Patel Dr. Kashyap Patel Dr. B.Kondrivendam	4,04,160	1 year	11.02.22	Ongoing
17	Performance Evaluation of Cement Concrete Pavements in Rural Roads	Dr. Shriniwas Arkatkar Dr. G J Joshi	22,04,000	1 year	30.3.22	Ongoing
18	Enhancing the Service Life of Concrete Structures through Cement less Concrete or Geopolymer Concrete	Dr. B. Kandraivendhan Dr. C D Modhera	17,23,200	2 years	5.5.22	Ongoing
19	Examining Congestion Mitigation Strategies for India Cities Towards Accomplishment of Sustainable Habitat	Dr. Shriniwas Arkatkar Dr. G J Joshi Dr. Bhavesh Gohil	27,88,200	3 years	31.5.22	Ongoing

20	Construction Demolition Waste & Safety Management	Dr. D.A.Patel Dr. Kashyap Patel	3,00,000	1 year	10.11.22	Ongoing
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Department of Chemical Engineering						
Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	SERB Project - " A Study on ultrasound-assisted crystallization of clopidogrel hydrogen sulfate"	Dr. S R Patel	15,76,000	2 Years	08.07.15	Ongoing
2	Study of Microbial Consortia in Microbial fuel cell	Dr. A K Mungray	17,05,000	3 Years	28.07.15	Ongoing
3	The near future air cathode Osmotic microbial fuel cell (OMFC) for wastewater treatment, electricity generation, and pure water extraction	Dr. Alka A Mungray	28,46,000	3 years	20.03.18	Ongoing
4	Mango Waste Valorization Through Biorefining Concept: A Sustainable and Greener Approach	Dr. Meghal A Desai Dr. Girirajsinh C. Jadeja	50,60,880	3 years	10.10.18	Ongoing
5	Ultrasonic Microreactor for Production of Nano-Micro Particles of Poorly water Soluble Active Pharmaceutical Ingredients (API)	Dr. Sanjaykumar Rameshbhai Patel	51,41,750	3 years	01.06.19	Ongoing
6	Development of composite thin films with simultaneous different and magnetic properties	Dr. V N Lad	25,30,884	2 Years	25.02.20	Ongoing
7	Synthesis of Artificial Sweeteners and High-Value Chemicals from Biorenewable Resources using Noble Metal Aerogel Catalysts	Prof K K Pant, IIT Delhi Prof. Jigisha Prarikh	21,45,264	3 Years	19.3.20	Ongoing
8	Development of Drug Delivery System Based on Phase Change Materials	Dr. Jigisha Parikh Dr. S K Sundar	43,67,264	3 years	2.3.22	Ongoing
9	Production of Crude Oil and Phosphate Fertilizer from the Faecal Sludge: A Complete Solution for the Zero Liquid Discharge	Dr. Arvind Mugrey	36,13,764	3 years	5.3.22	Ongoing
10	DST-FIST-CHED	Dr. Jigisha Parikh Dr. Meghal Desai Dr. Sanjay R. Patel Dr. G C Jadeja Dr. Chetan Patel	1,68,00,000	5 years	31.3.22	Ongoing
11	Catalytic Decomposition of Waste Biopolymers to value-added compounds	Dr. Parimal A Parikh	8,27,160	1 year	22.4.22	Ongoing

12	Synthesis and Rheological characterization of liposome stabilized Emulsion- Hydrogel Matrix for Controlled Release of Essential Oil	Dr. Sundar S K Dr. Jigisha Parikh	33,45,000	3 years	31.5.22	Ongoing
13	Selective air oxidation of 2 colors toluene to 2 chlorobenzaldehyde using Mn-Cu: and CeO ₂	Dr. Milap G. Nayak (Vishwakarma Government Engg. Colledge Chandkheda) Dr. V.N.Lad	2,00,000	3 years	4.7.22	Ongoing
14	A Compact Novel Hybrid system for human urine recycling and potable water recovery for long-term human space mission	Dr. Alka A. Mungray Dr. Arvind Kumar Mungray Dr. Shriram Sonawane, VNNIT Nagpur	17,50,000	2 years	26.7.22	Ongoing
15	A Study Evaluating the efficiency of smart carbonated water injections in maximizing both, the amount of Co ₂ sequestered and oil recovered, during an enhanced oil recovery process in a mature oil field in India	Dr. Shilpa Kulbhushan Nandwani Dr. Mousumi chakeraborty (mentor)	35,74,000	3 years	06.09.22	Ongoing
16	A Stimuli-responsive PNIPAM-based block copolymer aggregates as building blocks of smart aggregates for biomedical applications	Dr. Vijaykumar Ishverlal Patel (Navyug Sci. College, VNSGU) Prof.Jigisha Parikh	18,00,000	3 years	17.10.22	Ongoing

Department of Computer Science Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	ISEA Project - " Phase - II released Grant in Aid"	Prof. D.C. Jinwala	1,85,70,000	5 years	12.02.16	Ongoing
2	Design and implementation of Secure Service and Attribute-based Authorization Model in Dynamic and constrained-specific IoT Environment	Dr. Udai Pratap Rao	12,20,571	2 years	12.12.21	Transfer

Department of Electronics Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	SMDP Project - " SMDP C2SD Project"(Special Manpower Development Programme Chips to System Design	Dr A D Darji(Pi) Prof. Pinal J Engineer(Co. Pi)	99,72,000	5 years	04.02.15	Ongoing
2	“ Young Faculty Research Fellowship	Dr. Piyush N Patel	14,80,000	2-Year Ext up to 5 Years	15.01.18	Ongoing
3	study&implimentation of generative Aelversariaol network (GANS) for image super-resolution: Application to image capture using CCTV Camera	Dr. Kishor p Upla	23,03,180	3 years	21.08.18	Ongoing
4	Fractal metamaterial and its application to wearable antennas	Dr. Kirti Inamdar Dr. Upena D Dalal	30,14,420	3 years	10.10.18	Ongoing
5	Design and Development of Co-Planar Waveguide based Wearable Bio-Sensor for Medical Application	Dr. Piyush Patel	17,69,000	3 Years	08.07.20	Ongoing
6	Deep learning-based signal classification for position accuracy of NavIc/GPS.	Dr. Darshna Dipen jaggiwala Dr. Sweta shah (Mentor)	24,80,220	2 years	12.10.21	Ongoing
7	Caps Network-International Network for Capsule Imaging in Endoscopy	Norway University of Science and Technology (NTNU) DR. Kishor P. Upla (Co-pi)	61,00,000	5 years	3.02.22	Ongoing
8	Design and development of MEMS-based portable platform with nonselective Self-Assemble Monolayer SAMs for the detection of toxic metal ions HMIs in groundwater	Dr.Anand Darji Dr. Dinesh Rotake	34,27,402	3 years	30.3.22	Ongoing
9	Capacity building for human resource development in unmanned aircraft systems (drone and related technology)	Dr. Anand Darji (chief investigator) Dr. Dipti Rana (chief investigator) Dr. Suresh Dahiya (Co-hief investigator)	1,87,09,000	5 years	31.10.22	Ongoing

Department of Electrical Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
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1	SERB Project - Development of Control Algorithms for shunt and series connected Custom Power Devices.	Dr. Sabha Raj Arya	44,10,560	3 years	17.08.16	Ongoing
2	Development of enhanced Predictive Current Control and Predictive Torque Control strategies for Open-end Winding Permanent Magnet Synchronous Motor Drive with less torque ripple for Electric Vehicales	Dr. Kunisetti V. Praveen kumar	28,96,910	2 Years	19.01.21	Ongoing
3	Design and control of renewable energy based AC Microgrid Systems	Dr.Rajasekharareddy Chilipi	32,94,500	2 years	29.12.21	Ongoing
4	Hardware Implementation of 3SS Inverter Configuration in solar Grid-Tied Systems for Effective energy Utilization Using Wide Bandgap Switches	Dr. Jammala Venkatramanaiah	46,31,264	3 years	16.3.22	Ongoing
5	Wide Band Gap Device Based Next-Generation Intelligent Electric Tranction Drive System for Electric Vehicle Application	Dr. Sukanta Halder	30,91,061	3 Years	31.3.22	Ongoing
6	Intelligent Control for Active Shunt Compensator in Wind based Renewable Energy System for Remote Power Application	Dr. Sabha Raj Arya Dr. Rajasekharareddy Chilipi DR. Ashutosh K Giri (G.E.C. Bharuch)	48,78,200	3 years	4.5.22	Ongoing
7	USBL Tracking and Passive Localization of Targets using Correntropy and Moving Horizon Estimates	Dr. Rahul Radhakrishnan Dr. S.N.Sharma	12,76,505	18 Months	13.12.22	Ongoing
8	Development of Advanced Non-Liner Non- Gaussian state estimators with application to Real-Life Problems	Dr. Rahul Radhakrishnan Dr. S.N.Sharma	21,29,718	3 years	28.12.22	Ongoing
9	Design and Development of smart BMS with Cell Surface Tempreature Estimation	Dr. Mahmadasraf A Mulla Dr. Sanjay Tolani	62,92,264	3 years	27.01.23	Ongoing