

7.1 SPONSORED RESEARCH PROJECTS SUMMARY (A.Y. 2025-26)

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	34	11,64,40,290	7	77,20,870	41	12,41,61,160
2	Department of Chemistry	15	6,95,81,268	0	0	15	6,95,81,268
3	Department of Mathematics & Humanities	3	89,72,234	0	0	3	89,72,234
4	Department of Physics	12	3,47,08,197	0	0	12	3,47,08,197
5	Department of Civil Engineering	30	12,62,45,962	1	27,77,500	31	12,90,23,462
6	Department of Chemical Engineering	12	5,14,79,523	1	15,76,000	13	5,30,55,523
7	Department of Computer Science Engineering	5	1,40,68,606	1	1,85,70,000	6	3,26,38,606
8	Department of Electronics Engineering	27	8,59,50,805	3	1,27,02,220	30	9,86,53,025
9	Department of Electrical Engineering	8	4,38,24,967	0	0	8	4,38,24,967
	Total	146	55,12,71,852	13	4,33,46,590	159	59,46,18,442

Department of Mechanical Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	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
2	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	Completed (2025-26)
3	Linear Stability Analysis of Interface Dynamics in Two Phase Jets	Dr. Jyotirmay Banerjee	6,60,000	3 Years	04.03.20	Completed (2025-26)
4	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	Completed (2025-26)
5	Investigations on Flow deflection about savours 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
6	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	Completed (2025-26)
7	Design and Development of solar Driven Water Generation System based on Desiccant wheel	Dr. Amit Kumar	20,54,840	2 years	19.01.22	Completed (2025-26)
8	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
9	Finishing of 3D-Printed parts using an axail 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

10	Development, Characterization and Performance Evaluation of Multi-Phase Composite Panels	Dr. Achchhe Lal	14,22,283	2 years	22.03.22	Ongoing
11	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
12	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
13	Development of Multi-Material Welding approach for Ultrahigh-Strength Steel and 7xxx aluminium 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
14	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	18.10.22	Completed (2025-26)
15	Development of 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
16	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
17	Design, Development and fabrication of Electrocatalytic Reactor for energy efficient and cost effective Production of Bio-diesel from higher generation feed stock	Dr. Kamlesh Arun Sorate	12,48,500	3 years	24.02.23	ongoing
18	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	Completed (2025-26)
19	Technology Upgradation of a traditional jaggery making plant through porous DoMEia combustion for emission reduction & waste heat recovery	Dr. Rohan R. Pande Dr. P.V. Bhale Dr. Kamlesh Sorate Prof. R.A. Chistian (CED)	22,19,800	3 years	16.03.23	Ongoing
20	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

21	Combustion Dynamics of Rocket Engine and its active Control using high energy plasma Discharge for phase desynchronization	Dr. Nikhil Baraiya	19,50,000	2 years	01.05.23	Ongoing
22	Development of Fuel flexible combustor operating at high-Pressure for optimum emissions and combustion dynamics	Dr. Rupesh D. Shah Dr. Baraiya Nikhil Ashokbhai	35,89,696	2 years	02.05.23	Ongoing
23	Development of a Novel Trpered Variable Channel Width Microchannel Heat Sink for Futuristic High-End Microelectronics Cooling	Dr. Jyotirmay Banerjee Dr. Hemantkumar B Mehta	14,20,000	2 years	09.05.23	Ongoing
24	Low cost selective power deposition process for 3D printing of Metal/ Cereamic composite for Industrial Applications	Dr. Harshit K. Dave Dr. K. P.Desai	33,77,200	3 years	09.05.23	Ongoing
25	Design and Development of Active Green House Solar Dryer for Potential Food Products	Dr. Vikram P. Ratod Dr. Vimal K. Patel	11,16,000	3 years	15.05.23	Ongoing
26	Design, Development and techo-economic evaluatin of humidification dehumidification desalination system assited by solar driven heat pump for sustainable water recovery from RO reject of textile industry in land-lock region of Surat City	Dr. P. V. Bhale Dr. Rohan Pande	24,94,800	3 years	01.06.23	Ongoing
27	Proposal for a Novel Hybrid PCM-based heat sink coupled with heat pipe for efficient thermal management of electronic syytems	Dr. Jyotimay Banerjee Dr. Naresh Yarramsetty	28,70,340	2 Years	04.07.23	Ongoing
28	Theoretical Investigations and Development of novel pruning techniques for many-objective design optimization of selected thermal systems and devices	Dr Ravipudi Venkata Rao	6,60,000	3 years	21.02.24	Ongoing
29	Development of hybrid fibermetal laminates with nano additives for high temprature Application of stiffened panel: Experimental and numerical studies	Dr. A.A.Shaikh Dr. R.Srilakshmi	31,93,344	2 years	21.02.24	Ongoing
30	A Novel approach for continuous fabrication of tailored blanks for automotive applications	Dr. Sunil Kumar	26,63,672	2 years	23.02.24	Ongoing
31	Development of a pulsaring heat pipe based hybrid pyramid type solar still for efficient desalination	Dr. Y.Naresh Dr. J.Banerjee	31,73,808	2 year	13.05.24	Ongoing

32	Investigation on Explosion Dynamics of Hydrogen-Rich fuels with A Parametric Variation of Fuel Components and Obstacles	Dr. Nikhil A. Baraiya Dr. Meenatchidevi Murugesan (IIT Dharwad) Dr. Sudipto Mukhopadhyay (IIT Jodhpur)	61,93,176	2 year	11.06.24	Ongoing
33	Development of thermal gradient assisted self-positioning laser head for photothermal therapy Application	Dr. Vipul M. Patel Dr. Hement B. Mehta Dr. Sumit Khare	31,24,088	2 Years	12.06.24	Ongoing
34	Development of Artificial Intelligence Controlled Internal Cylindrical-Electronic magnetic Abrasive Machining (IC-EMAM) system	Dr. Ram Singar Yadav Prof. Harit K. Raval	38,75,816	3 year	13.06.24	Ongoing
35	stengthening, Modernisation and Up-gradation of the existing laboratory facilities to develop state of the art advance welding research centre for promoting the indigenous industry- academia R&D activiteis.	Dr. V.D.Kaluankar Dr. S.N. Pandya DR. Mukund H. Bade	2,00,00,000	5 years	14.06.24	Ongoing
36	Development of Correlation between Charpy Value and Fracture Toughness for Tungsten Heavy Alloy (WHA)	Dr. Biranchi N. Sahoo Dr. Jyoti Meghani Dr. Raju Prasad mahto	88,19,316	3 years	19.07.24	Ongoing
37	Evaluating Sustainability and Supply Chain Logistics Benefits of Intermodal Rialroad Freight Transporation between Gujrat's Major Seaportys and Multimodal Terminals	Dr. Ravikant Dr. Pallavita Yadav Dr. Krishna Kishore M.	20,00,000	1 years	08.04.25	Ongoing
38	Design and predict applicability of aluminum-based high-entropy alloy foams and sandwich structures for leading edge and fuselage aerospace applications	Dr. Neeraj Srivastava Dr. Sunil Kumar	32,09,900	3 years	21.05.25	Ongoing
39	Eddy current testing of table level welded joints of the tube diameter 6 mm, 8 mm and 10 mm	Dr. Raju Prasad mahto Dr. Biranchi N. Sahoo Dr. A. A. shaikh	20,31,540	3 years	27.11.25	Ongoing
40	Enhancing Sustainable Manufacturing Supply Chains through Digital Twin Technology and Advanced Optimization Algorithms for transportation of heavy reactors	Dr. Ravikant Dr. Pallavita Yadav Dr. Krishna Kishore M.	11,82,500	2 years	14.02.26	Ongoing

41	Development and Optimization of room air conditioning system with dehumidification bed, LLSL heat exchanger and recirculation evaporative duct Operating with R290 refrigerant for high cooling performance and hygienic air supply for human comfort	Dr. Yogendra Vasantrya Kuwar	28,13,040	3 years	13.3.26	Ongoing
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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	Syntheses of Biologically active Heterocyclic Drug cores via multiple C-H bond Activation	Dr. Togati Naveen	33,95,830	3 years	29.9.21	Ongoing
3	Waste Water Treatment: Polymoxemetalates hybrids as Adsorbent of Organic Dyes	Dr. Ritambhara Jangir Dr. B.Z. Dholakiya	25,18,200	3 years	3.6.22	Ongoing
4	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
5	Designing and Synthesis of Fluroscent Metal Organic Frameworks for Sensing Applications	Ms. Foziya Yusuf Vadia Dr. Suresh Kumar Kailasa Dr. Naved I. Malek	21,45,320	3 years	9.2.23	Ongoing
6	Development of Eco-Friendly Optical Probes for Monitoring of important growth hormones and pesticides in agricultre soil	Dr. Suresh Kumar Kailasha Dr. Sanjay jha (Navsari Agricultutre	23,12,320	2 years	27.3.23	Ongoing
7	Hydrogel Promoted Transdermal Permeation Anti-Cancer Drug for the Breast Cancer Treatment	Dr. Naved I Malek Dr. Sugam Kumar (BARC)	45,000	1 year + up to Expandable	22.5.23	Ongoing

8	Amphiphilic Hydrogel Formulation as Emerging Templates in Drug Delivery Systems	Dr. Ketan C. Kruperkar	2,43,240	2 years	07.07.2023	Ongoing
9	Synthesis and design of metal-organic frameworks as enzyme mimics	Dr. Lata Rana	42,39,400	3 years	21.12.24	Ongoing
10	Synthesis of chiral lanthanide complexes for circularly polarized luminescence and chiral recognition of biomolecules	Dr. Areti Sivaiah	29,75,500	2 years	15.3.24	Ongoing
11	Waterless Anti-Freezing Eutectogel: De Novo Platform for the protection of skin against cold-Induced Injuries	Dr. Naved I Malek	33,71,550	3 years	9.10.24	Ongoing
12	Highly Flexible, self-recoverable and self-lubricated ionic liquid infused super hydrophobic MOF based coating with Anti-Icing performance in aerospace application	Dr. Naved I Malek Dr. Bharat Z. Dholakia	60,80,249	3 years	28.1.25	Ongoing
13	Iontophoresis-Driven Wearable Ionogel Patch: Transdermal Delivery Platform of Chemotherapeutic Drug in the Treatment of Breast Cancer	Dr. Naved I Malek Prof. Clare Hoskins (Univ. Strathclyde, UK)	4,88,659	1 month	4.4.25	Ongoing
14	Self-Powered Electrical Bandages for Drug Delivery, Bioelectric Stimulation and Real-Time Biosensing in Diabetic Wound Healing	Dr. Naved I Malek Dr. B.Z. Dholakiya Prof Clare Hoskins & Dr. Sara Cordeiro university of Strathclyde, UK)	1,32,54,000	2 years	22.1.26	Ongoing
15	Coal to Chemical Sensors: Conversion of low-grade coal to carbon dots-based smart sensing strips for on-site monitoring of heavy metals in water bodies around the coal fields	Dr. Jigneshkumar V. Rohit Dr. Balram Ambade (NIT Jamshedpur) General Manager R&D (Bharat Coking coal Limited (BCCL) , Dhanbad	53,21,000	2 years	18.2.26	Ongoing

Department of Mathematics & Humanities						
Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	To Strengthen the research facilities in the department	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
2	Numerical Simulation of cancer treatment therapies hyperthermia and chemotheraph in multi-dimensional irregular domain	Dr. Sushil Kumar	6,60,000	3 years	15.3.22	Ongoing
3	Profit and cost Investigation of Retrial Queueing Models under Admission Control Policies	Dr. Sudeep Singh Sanga	13,12,234	2 years	13.2.24	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 quntumnano – materials	Dr L. K. Saini	14,04,000	3 years	24.02.14	Ongoing
3	conducting polymer nanocomposite (CPC) for selective and sensitive sensor detection of explosive array	Dr. Swati Saxena Dr. Vipul Kheraj	19,20,000	2 years	25.09.18	Ongoing
4	FIST - 2017	Dr. Vipul Kheraj	1,18,00,000	5 years	18.06.19	Ongoing
5	"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
6	Group III-V Inorganic Semiconductor Clusters for Future Nanoelectronics Applications	Dr. Debesh Roy	33,67,513	3 Years	16.01.21	Ongoing
7	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

8	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
9	Development of Ink-Printed Flexible Solar Cell with Antimony based Nanostructured Preocskite using Slot-Die Coating	Dr. Vipul Amirbhai Kheraj Dr. A. K. Panchal (EED)	22,40,200	3 years	09.05.23	Ongoing
10	Role of rotating Magnetic field in the Microwave-induced Plasma source for clean energy: Directed motion and controlled energy distribution of charged particles	Dr. Shail Pandey Dr. Himanshu Pandey	7,70,000	2 year	27.09.2023	Ongoing
11	Various Decay Mechanism of Super Heavy Elements Using energy density functional theory	Dr. Rajni Sunil Kumar Dr. A.K.Rai (Mentor)	26,80,000	2 year	8.11.23	Ongoing
12	Determination of higher order deformations of atomicnuclei by quasi-elastic scattering	Dr. Dipika B Patel	26,94,720	3 years	3.7.24	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 :Flow Structures and Turbines	Dr V L Manekar	1,75,00,000	5 Years	21.11.14	Ongoing
2	DST - NIMAT (MOU - EDI) - To create techno-entrepreneurs and resource persons through Entrepreneur Development Programme Strategy	DR C D Modhera (Rakesh Kumar)	2,00,000	3 years	22.08.16	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	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
6	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 , MNIt, Bhopal	1,35,84,560	3 Years	13.03.18 (07.11.2016 Sanction Date)	Ongoing

7	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
8	Warrant for Automation of toll Plazas under Mixed Traffic Conditions	Dr. Ashish Dhamania	7,67,000	2 Years	13.4.21	Ongoing
9	Graphane-Based Nano materials 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	Completed (2025-26)
10	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
11	Development of Trip Genration Manual for Indian cities	Dr. Shriniwas Arkatkar Dr. G J Joshi	8,69,000	3 Years	31.12.21	Ongoing
12	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
13	Local scouring around tandem and staggered bridge piers on non uniform mobile bed	Dr. P. V. Timbadiya Prof P.L. Patel	58,75,890	3 years	03.02.22	Ongoing
14	CCPDM-Circular Cemetitions Products Embedding Digital Manufacturing	Dr. D.A.Patel Dr. Kashyap Patel Dr. B.Kondrivendam	4,04,160	1 years	11.02.22	Ongoing
15	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
16	Enhancing the Service Life of Concrete Structures through Cement less Concret or Geopolymer Concrete	Dr. B . Kandraivendhan Dr. C D Modhera	17,23,200	2 years	5.5.22	Ongoing
17	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
18	Construction Demolition Waste & Safety Menagement	Dr. D.A.Patel Dr. Kashyap Patel	30,00,000	1 year	10.11.22	Ongoing
19	Development of Noise Prediction Model and Mitigation Strategies for Highway Passing through Residential Areas using Natural Vegetation Barrier	Dr. B.N. Tandel Dr. G.J.Joshi	14,86,200	3 years	25.5.23	Ongoing

20	Enhancing Cultural Resilience of the third-generation diaspora through digital Technology and Storytelling of India Tangible & Intangible Heritage	Dr. Dilip A. Patel Dr. Gayatri Vyas Dr. Maria Cerreta (univ. DEGLi studi di federcoII) Dr. Gabriella epsoste De Vita	55,19,994	2 year	02.08.2023	Ongoing
21	Pilot Scale Development of Greywater treatment system by using constructed wetland technique for student hostel/ residential tower	Dr. Kunwar Durg Vijay Singh Yadav	4,80,000	1 year	26.12.23	Ongoing
22	High-Temperature Transient Creep in Fire resistance analysis of UHPC RC Columns: Experimental and numerical assessment	Dr. Banti A. Gedam	42,52,820	3 years	23.2.24	Ongoing
23	Design and Development of semi active and Hybrid Control Systems for Building stocks in Surat City	Dr. Vishist Bhaiya Dr. Sumit Khare (MED)	19,58,264	3 years	4.3.24	Ongoing
24	Towards a Circular Economy: Exploring Nano-Technology, Plastics and Additive Manufacturing for Development of Sustainable Concrete	Dr. Kaustav Sarkar (IIT Mandi) Dr. KashyapKumar A. Patel Dr. Lukman Mansuri (Nirma Univ.)	44,16,000	2 years	29.7.24	Ongoing
25	Calculating Compressive strength and permeability of Concrete through its Microstructural features	Dr. B. Kondraivendhan Dr. C.D. Modhera	1,01,89,857	5 years	04.12.24	Ongoing
26	Impact of Climate Change on Water Resource and River Morphodynamics of Narmada Basin	Dr. P. V. Timbadiya Prof P.L. Patel	1,02,65,200	3 Years	27.12.24	Ongoing
27	Crowd Management Khatu Shyam Ji	Dr. Chetan R. Patel	66,00,000	6 months	12.2.26	Ongoing
28	To whom extent can blue-green infrastructure mitigate urban heat islands, Urban flooding, and water insecurity? A quantitative and strategic approach to nature-based urban planning	Dr. Chetan R Patel	20,01,331	1 year	19.3.26	Ongoing
29	Safety and Risk analytics for knowledge, Spatiotemporal Trend Analysis, Hotspot Detection, and Data- Driven Proactive Assessment	Dr. Shriniwas S. Arkatkar	18,00,000	6 months	26.3.26	Ongoing

30	Smart and Safe Traffic Management program with the Internship	Dr. Shriniwas S. Arkatkar Dr. Tanmoy Hazara Dr. Prveeb humar Chanaliya Dr. Anupam Shuklr	4,60,000	6 months	1.4.26	Ongoing
31	Use of PV Panels for thermal Insulating Panels: A Pathway for High-Value Electronic Waste Recycling	Prof. Sandeep Chaudhary (IIT Indore) Prof. P.K. Kankar (IIT Indore) Dr. Kashyap A. Patel	69,84,826	3 years	10.4.26	Ongoing

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	Completed (2025-26)
2	Study of Microbial Consotria in Microbial fuel cell	Dr A K Mungray Dr. Alka A. Mungray Dr. Suresh Kumar Kailasa	17,05,000	3 Years	28.07.15	Ongoing
3	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
4	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
5	Development of Drug Delievry System Based on phase Change Materials	Dr. Jigisha Parikh Dr. S K Sundar	43,67,264	3 years	2.3.22	Ongoing
6	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
7	Sustainable infrastructure development under FIST programme	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

8	Synthesis and Rheological characterization of liposome stabilized Emulsion- Hydrogel Matrx for Controlled Release of Essential Oil	Dr. Sundar S K Dr. Jigisha Parikh	43,95,200	3 years	31.5.22	Ongoing
9	Selective air oxidation of 2 chloro toluene to 2 chlorobenzaldehyde using Mn-Cu: and CeO2	Dr. Milap G. Nayak (Vishwarkarma Government Engg. Colledge Chandkheda) Dr. V.N.Lad	2,00,000	3 years	4.7.22	Ongoing
10	A Compact Novel Hybrid system for the 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
11	A Study Evaluating the efficiency of smart carbonated water injections in maximizing both, the amount of Co2 sequestered and oil recovered, during enhanced oil recovery process in a mature oil field in india	Dr. Shilpa Kulbhushan Nandwani Dr. Mousumi chakeraborty (mentor)	40,66,269	3 years	06.09.22	Ongoing
12	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
13	Membrane assisted removal of antibiotics and pathogens from human urine for safe resource recovery	Dr. Alka A. Mungray	54,95,012	3 years	26.3.26	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	Completed (2025-26)
2	Computational Techniques based investigation for diabetic foot Ulcers complications	Dr. Chandra Prakash	39,99,430	3 years	8.3.24	Ongoing

3	Urban flow revolution: Unveiling the Potential of AI , Computer Visison and Cloud for design and Development of Adaptive Traffic System	Dr. Lataben J. Gadhvi, IT Engineering, Government Polytechnic, Gandhinagar Dr. Dipti Rana	4,95,000	3 years	29.02.24	Ongoing
4	Information Security Education & Awareness (ISEA) Project Project-Phase-III	Dr. Sankita J. Patel Dr. Bhavesh N Gohil	47,80,000	5 years	13.5.24	Ongoing
5	Novel Techniques for Hyperspectral Super-resolution in Remote Sensing	Dr. Anugrah Jain Prof. Mukesh Zaveri	19,43,468	2 years	30.10.25	Ongoing
6	Mitigate Misinformation in Indic Language Context Using Evidence-Based Fact-Verification	Dr. Shrikant Malvaiya	28,50,708	2 years	22.4.26	Ongoing

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	Completed (2025-26)
2	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
3	Fractal metamaterial and its application to wearable antennas	Dr. Kirti Inamdar Dr. Upena D Dalal	30,14,420	3 years	10.10.18	Ongoing
4	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	Completed (2025-26)
5	Caps Network-International Network for capsule Imaging in Enoscopy	Norway University of Science and technology (NTNU) DR. Kishor P. Upla (Co-pi)	61,00,000	5 years	3.02.22	Ongoing
6	Design and development of MEMS -based portable platform with inoselesctive Self-Assemble Monolayer SAMs for the detection of toxic Metal Ions HMIIs in ground water	Dr. Anand Darji Dr. Dinesh Rotake	34,27,402	3 years	30.3.22	Ongoing

7	Capacity building for human resource development in unmanned aircraft system (drone and related technology)	Dr. Anand Darji (chief investigator) Dr. Dipti Rana (chief investigator) Dr. Suresh Dahiya (Co-hief investigator)	1,87,09,100	5 years	31.10.22	Ongoing
8	On-board image compression Algorithms with locally adjustment quality using FPGA	Dr. A.D.Darji Dr. Amit Joshi (MNIT, Jaipur)	18,62,920	2 years	04.05.23	Ongoing
9	Design and Fabrication of BiOI-based Indoor Photovoltaic Devices for Development of Self-Powered IoT Ecosystems	Dr. Vivek Garg Dr. Deepak Joshi Dr. Nithi Chatterji Dr. Abhishek Acharya	11,00,000	1 year	29.09.2023	Ongoing
10	Lead free Perovskite Indoor/Outdoor Solar Cell Design for Self-Sustainable Cyber Physical System Design: Bandgap Engineering and Cell Fabrication	Dr. Shivendra Yadav	11,00,000	1 year	29.09.2023	Ongoing
11	Machine Learning based mobile Application for Early Shrimp Disease Diagnosis in Aquaculture	Dr. Kamal Captain Dr. Deepak Joshi Dr. Suman Deb	11,00,000	1 year	29.09.2023	Ongoing
12	Design fabrication and characterization of optimized 2D - material SOT-MTJ for Energy Efficient Embedded Non Volatile Memory Application	Dr. Abhishek Acharya Dr. Deepak Joshi Dr. Vivek Garg Dr. Suman Deb Dr. Shashidhara M	11,00,000	1 year	29.09.2023	Ongoing
13	Development of a Speech Based Mobile Application for Lung Disease Detection	Dr. Suman Deb Dr. Deepak Joshi, Dr. Abhishek Acharya Dr. Kamal Captain	11,00,000	1 year	29.09.2023	Ongoing
14	iHUB Surat Supported by iHUB Divya Sampark	Dr. Deepak Joshi	20,00,000	2 years	27.10.2023	Ongoing
15	Compact Formation based swarming drone for coordinated surveying	Dr. Raghavendra Pal Dr. Suresh Dahiya Dr. Dipti Rana (DOCSE) Dr. Anand D. Darji	2,50,000	1 Year	15.12.23	Ongoing
16	Packet capture (pPCAP) and internal protocol data record (IPDR) analysis tool for App identification and activity graph generation using artificial analysis and machine learning	Dr. Raghavendra Pal Dr. Suresh Dahiya	2,50,000	1 year	4.1.24	Completed (2025-26)

17	Secure Energy-efficient Mixed domain compute in memory-based AI accelerator chip for edge applications	(1)Dr. Pinal kumar Engineer Dr.Anand darji Dr. Zuber M Patel Dr. Abhishek Acharya Dr. Rasika dhavse (2) Indian Institute of Technology (IIT) Gandhinagar (Joycee Mekie - PI, Nihar Ranjan Mahopatre Tarun Kunar Agrawal) (3) Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar (Vinay Palaparthi -PI, Dr. Yash Agrwal Dr. Sreeja Rajendran) (4) Institute of Technology, Nirma University, Ahmedabad (Prof. Usha Mehta -PI Prof. Piush Bhatasana Prof Akash Mecwan)	96,00,000	5 years	25.1.24	Ongoing
18	Design and Development of sustainable Light-weight, Cost-effective Biochor-polymer based composites as electromagnetic shields for preventing the hazardous EMI effects in different Electromagnatic environments	Dr. Kirti Inamdar Dr. P.V.bhale	26,22,818	3 years	31.1.24	Ongoing
19	Development of Anti-Jamming and Anti -Soofing baseband signal processing algorithms for NaVLC RS receiver provisined UAVs	Dr. Suresh Dahiya	31,88,747	2 years	19.2.24	Ongoing
20	Design and Characterization of Radiation Hardened standered cell liberary using Nanosheet Field effect transistores: improving on Design Margins/reliability	Dr. Abhishek Acharya	21,69,178	3 years	17.2.24	Ongoing
21	Design of Electrionic Speed Controller (ESC) for Drone	Dr. A.A.Darji	2,50,000	1 year	17.4.24	Ongoing

22	Development of IoT Edge Computing Applications using Optimized near threshold voltage (NTV) standard Cells with OPENLANE	Dr. Abhishek Acharya	25,58,100	5 years	25.10.24	Ongoing
23	NAVIC VAVAJ: NAVIC ENABLED UAV EITH ANTI-JAMMING	Dr. Shweta Shah Dr. Upena Dalal	30,04,720	3 years	25.11.24	Ongoing
24	Utilizing UAVs Equipped with AI & ML technologies for rescue Operations in flood- affected areas	Dr. Pratha Das Prof. Ritu Tiwari Dr. Abhilasha Chaudhuri	11,96,720	8 months	16.12.24	Ongoing
25	Caps Train-Making Wirless Capsule Endoscopy Clinic Ready-Training and Educating Next Genration	Dr. Kishor P.Upla Dr. Praveen Kumar Chandaliya	1,14,66,000	5 years	12.11.25	Ongoing
26	Development of FPGA-SoC based High Speed Low Latency Telemetry Module of UAVs	Dr. Suresh dahiya	2,50,000	1 year	7.5.25	Ongoing
27	Algorithm Development for Detection of Spoofing Signals in NAVIC Receivers	Dr. Shweta Shah	42,90,500	3 years	12.8.25	Ongoing
28	Development of secure Vehical to Vehicle (V2V) Communication system for Indian Military Convoys	Dr. Raghvendra Pal Prof. Arun Prakash (MNNIT, Allahabad)	9,84,500	1 year	4.11.25	Ongoing
29	Project Spandan	Dr. Shewta Shah(DoECE) Dr. Sankita Patel(DoCSE) Dr. Tanmoy Hazra(DoAI) Dr. Rahul Dixit(DoAI)	9,52,500	6 months	7.1.26	Ongoing
30	Edge-Aware 360 degree Perception Architetur for Autonomous UAV Navigation	Dr. Anand Darji	2,50,000	1 year	18.3.26	Ongoing

Department of Electrical Engineering

Sr. No.	Name of Project	Name of Co-ordinator	Grant Sanctioned	Duration	Date of Allotment	Status
1	Hardware Implementation of 3SS Inverter Configuration in solar Grid-Tried Systems for Effective energy Utilization Using Wide Bandgap Switches	Dr. Jammala Venkatramanaiah	46,31,264	3 years	16.3.22	Ongoing

2	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)	43,78,200	3 years	4.5.22	Ongoing
3	USBL Tracking and Passive Localization of Targets using Correntropy and Moving Horizon Estimates	Dr. S.N.Sharma	12,76,505	18 Months	13.12.22	Ongoing
4	Design and Development of smart BMS with Cell Surface Temperature Estimation	Dr. Mahmadasraf A Mulla Dr. Sanjay Tolani	62,92,264	3 years	27.01.23	Ongoing
5	FIST - 2022	Dr. Ashish K. Panchal Dr. Aeidapu Mahesh Dr. Sanjay Tolani Dr. Sushnigdha Gangireddy Dr. Suresh Lakhimsetty	88,00,000	5 years	02.08.2023	Ongoing
6	Implementantion of Novel SpDoEE Control strategies for photo voltaic based permanent magnet assisted synchronous retuctance Motor (PMAyRM) drives in electric Vehicals	Dr. Kunisetti V. Praveen Dr. Rajeshsekhera reddy chilipi Dr. Suresh Lakhimsetty	44,04,400	3 years	8.2.24	Ongoing
7	Empowering Research in Indigenous Development of EV Sub-Systems (E-Rides)	Dr. Mahmadasraf A.Mulla Dr. Aeidapu Mahesh Dr. Suresh Lakhimsetty	1,20,45,174	3 years	26.6.25	Ongoing
8	Development of an Indigenous Web-Based tool for Optimal Sizing and Iteration of Hybrid Renewable Energy Systems	Dr. Aeidapu Mahesh Dr. Naveen Yalla (IIT BHU, Varanasi)	19,97,160	2 years	13.3.26	Ongoing