

## Details of Research Projects

Sr. No.	Title of the Project	Sponsoring agency	Name of Coordinator	Department	Year	Project Cost	Duration	Status
1	Strengthens the research facilities in the area of :Flow Structures and Turbines	DST-FIST	Dr V L Manekar	DoCE	2014-15	1,75,00,000	5 Years	Ongoing
2	DST - NIMAT (MOU - EDI) - To create techno-entrepreneurs and resource persons through Entrepreneur Development Programme Strategy	DST - NIMAT (MOU - EDI)	DR C D Modhera (Rakesh Kumar)	DoCE	2016-17	2,00,000	3 years	Ongoing
3	Unnat Bharat Abhiyan Cell	MHRD (IIT Delhi)	Dr K D Yadav	DoCE	2016-17	1,75,000	1 years+up expandable	Ongoing
4	Preparation of Stale of Art Report (SOAR) on Preparation of Constriction Safety Manual	MROTH	Dr Dilip Patel	DoCE	2017-18	8,36,900	6 Months+up to Expandable	Ongoing
5	Impact of Climate change on water Resources of Sabarmati Basin	Ministry of Water Resources,RD & GR	Dr.Vimal Mishra, IIT Gandhinagar Dr.P L Patel	DoCE	2017-18	84,91,560	3 Years	Ongoing
6	Impact of Climate change on Water Resources of Tapi Basin	Ministry of Water Resources,RD & GR	Dr.P L Patel V Timbadiya Dr.Rohit Goyal, MNIT Jaipur Dr.Vishnu prasad , MNIt, Bhopal	DoCE	2016-17	1,35,84,560	3 Years	Ongoing
7	Development of Framework to Measure Sustainability Index Of Transportation Systems In Indian Metropolitan Cities	Ministry of Housing and Urban Affairs	Dr. Shrinivas Arkatkar Dr. G J Joshi	DoCE	2018-19	82,32,000	3 years	Ongoing
8	Warrant for Automation of toll Plazas under Mixed Traffic Conditions	DST-DAAD	Dr. Ashish Dhamania	DoCE	2021-22	7,67,000	2 Years	Ongoing
9	Graphane-Based Nano materials in Property Enhancement of Cement Composities & Concrete under GIJCOST STI Policy	Gujcost	Dr. Gaurang R. Vesmawala Dr. Yogesh D. patil	DoCE	2021-22	27,77,500	3 Years	Ongoing

10	Conflict Assessment at Diverging and merging area of Toll plaza by surrogate safety measures under mixed traffic conditions	CSIR	Dr. Ashish Dhamania Dr. A Mohan Rao Sr. Pr. CSIR, New Delhi	DoCE	2021-22	21,30,000	2 Years	Ongoing
11	Development of Trip Generation Manual for Indian cities	CSIR	Dr. Shrinivas Arkatkar Dr. G J Joshi	DoCE	2021-22	8,69,000	3 Years	Ongoing
12	Augmenting Ridership in Operating Metro Rail in Indian Cities	Indian Metro Rail Organizations' society	Dr. Gaurang J. Joshi Dr. S.S. Arkatkar	DoCE	2021-22	10,50,000	1 year	Ongoing
13	Local scouring around tandem and staggered bridge piers on non uniform mobile bed	SERB.DST	Dr. P. V. Timbadiya Prof P.L. Patel	DoCE	2021-22	58,75,890	3 years	Ongoing
14	CCPDM-Circular Cemetitions Products Embedding Digital Manufacturing	LSBU London (Inter national joint)	Dr. D.A.Patel Dr. Kashyap Patel Dr. B.Kondrivendam	DoCE	2021-22	4,04,160	1 years	Ongoing
15	Performance Evaluation of Cement Concrete Pavements in Rural Roads	National Rural Infrastructure Development Agency, New Delhi	Dr. Shrinivas Arkatkar Dr. G J Joshi	DoCE	2021-22	22,04,000	1 year	Ongoing
16	Enhancing the Service Life of Concrete Structures through Cement less Concret or Geopolymer Concrete	Gujcost	Dr. B . Kandraivendhan Dr. C D Modhera	DoCE	2022-23	17,23,200	2 years	Ongoing
17	Examining Congestion Mitigation Strategies for India Cities Towards Accomplishment of Sustainable Habitat	Gujcost	Dr. Shrinivas Arkatkar Dr. G J Joshi Dr. Bhavesh Gohil	DoCE	2022-23	27,88,200	3 years	Ongoing
18	Construction Demolition Waste & Safety Management	Royal Academy of Engineering, UK	Dr. D.A.Patel Dr. Kashyap Patel	DoCE	2022-23	30,00,000	1 year	Ongoing
19	Technology Upgradation of a traditional jaggery making plant through porous DoMEia combustion for emission reduction & waste heat recovery	SERB	Dr. Rohan R.Pande Dr. P.V. Bhale Dr. Kamlesh Sorate Prof. R.A. Chistian (CED)	DoME	2022-23	22,19,800	3 years	Ongoing
20	Development of Noise Prediction Model and Mitigation Strategies for Highway Passing through Residential Areas using Natural Vegetation Barrier	GUJCOST	Dr. B.N. Tandel Dr. G.J.Joshi	DoCE	2023-24	14,86,200	3 years	Ongoing

21	Enhancing Cultural Resilience of the third-generation diaspora through digital Technology and Storytelling of India Tangible & Intangible Heritage	Ministry of Education Scheme for Promotion of Academic and Research Collaboration SPARC (IIT Kharagpur)	Dr. Dilip A. Patel Dr. Gayatri Vyas Dr. Maria Cerreta (univ. DEGI studi di federcoII) Dr. Gabriella epsoste De Vita	DoCE	2023-24	55,19,994	2 yaer	Ongoing
22	Pilot Scale Development of Greywater treatment system by using constructed wetland technique for student hostel/ residential tower	Gujarat EnVIRONMENT MANAGEMENT INSTITUTE (GEMI)	Dr. Kunwar Durg Vijay Singh Yadav	DoCE	2023-24	4,80,000	1 year	Ongoing
23	High-Temperature Transient Creep in Fire resistance analysis of UHPC RC Columns: Experimental and numerical assessment	SERB	Dr. Banti A. Gedam	DoCE	2023-24	42,52,820	3 years	Ongoing
24	Design and Development of semi active and Hybrid Control Systems for Building stocks in Surat City	SERB	Dr. Vishist Bhaiya Dr. Sumit Khare (MED)	DoCE	2023-24	19,58,264	3 years	Ongoing
25	Towards a Circular Economy: Exploring Nano-Technology, Plastics and Additive Manufacturing for Developmnet of Sustainable Concrete	Ministry of Education (SPARC)	Dr. Kaustav Sarkar (IIT Mandi) Dr. KashyapKumar A. Patel Dr. Lukman Mansuri (Nirma Univ.)	DoCE	2024-25	44,16,000	2 years	Ongoing
26	Calculating Compressive strength and permeability of Concrete through its Microstrucural features	NBCC (india) pvt ltd.	Dr. B. Kondraivendhan Dr. C.D. Modhera	DoCE	2024-25	1,01,89,857	5 years	Ongoing
27	Impact of Climate Change on Water Resource and River Morpho-dynamics of Narmada Basin	Ministry of Jal Shakti ( department of Water Resources)	Dr. P. V. Timbadiya Prof P.L. Patel	DoCE	2024-25	1,02,65,200	3 Years	Ongoing
28	Crowd Mangement Khatu Shyam Ji	MNIT, Jaipur	Dr. Chetan R. Patel	DoCE	2025-26	66,00,000	6 months	Ongoing

29	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	CPHEEO	Dr. Chetan R Patel	DoCE	2025-26	20,01,331	1 year	Ongoing
30	Safety and Risk analytics for knowledge, Spatiotemporal Trend Analysis, Hotspot Detection, and Data- Driven Proactive Assessment	Gujarat Police	Dr. Shriniwas S. Arkatkar	DoCE	2025-26	18,00,000	6 months	Ongoing