

K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

Research and Projects: MECH DEPT

<https://docs.google.com/spreadsheets/d/1I0aY5Lx84H4DmlWhPqgm7E4Glmu2AjwJ/edit#gid=759901885>

Sr. No	Funding Agency	Type of Project	Year	Project Investigator	Co-Project Investigator	Co-Project Investigator	Co-Project Investigator	Department	Title Proposal	Budget (Rs)	Status
1.	IND :Ecological Services Pvt. Ltd	RESEARCH	2019-20	Dr. K N Patil				MECH	A solution for managing industrial effluent efficiently	-	ON
2.	RON University	RESEARCH	2019-20	Dr. K N Patil				MECH	Solar Air dyers for the Moringa Leves at Narehwadi	-	ON
3.	Michigan State University	RESEARCH	2019-20	Dr. K N Patil	Prof. Muzzmil A.			MECH	Bio-Char for Fertilizer production	-	ON
4.	IND :Godavari Bio-Refinery	RESEARCH	2019-20	Dr. K N Patil				MECH	Solar Chulla for Mass Population	52330	AP

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5.	Pure Birds	CONSULTANCY	2019-20	Dr. K N Patil	Prof. C. P. Joshi (SIMSR)	-	-	MECH	Stand Alone PV system design and installation at Two Locations	8,00,000 Budget	ON
6.	DST-BIRAC	RESEARCH	2019-20	Dr. Ramesh Lekurwale	Dr Sonali Patil	Shilpa Babhumre		MECH and IT	The development of the facility to innovate the medical devices and surgical instruments	28800000	Call for presentation at BIRAC
7.	DST-SERB	RESEARCH	2018-19	Dr. S. R. Nikam	-	-	-	MECH	Effect of Microjet Injection on Acoustic Characteristics of Compressible Jet Flow	2232000	SNA

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8.	DST-SERB	RESEARCH	2018-19	Dr. Ramesh Shettar	Prof. Shivangi Thakkar	-	-	MECH	A Novel green and sustainable technique to utilize the sugar case bagasse for making food grade paper	4310000	AP
9.	DRDO-CARS	RESEARCH	2018-19	Dr. Becky Thomos	Dr. Kashinath N Patil	Dr. Paravti J R	-	MECH	Development of Field assay/device for rapid detection of antibiotic susceptibility using Resazurin Method	240000	ON

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10.	DST (Entrepreneurship Development Institute of India (DST))	RESEARCH	2018-19	Dr. Kashinath N Patil	Anushri Joshi	Inderjit S. Dhanjal, Hetal	Hetal Mudra , Yogesh Tamhane, Amit Yadav	MECH	NewGen IDEC	287,50,000	AP
11.	RGTM (Rajiv Gandhi Technology Mission Maharashtra)	RESEARCH	2018-19	Prof. Rajesh Pansare	Dr. S. R. Nikam	-	-	MECH	Thermoelectric cooler by Solar Energy	130000	SNA

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12.	RGTM (Rajiv Gandhi Technology Mission Maharashtra)	RESEARCH	2018-19	Dr. S. S. Bhusnoor	Prof. Atul Saraf	-	-	MECH	Experimental Studies for Control of Oxides of Nitrogen and Particulate Matter from Engine Exhaust	980000	SNA
13.	RGTM (Rajiv Gandhi Technology Mission Maharashtra)	RESEARCH	2018-19	Dr. Kashinath N Patil	-	-	-	MECH	Development of self-contained unit for Boiling-Drying and Grinding of Turmeric Drying by solar route	1080000	SNA

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14.	RGTM (Rajiv Gandhi Technology Mission Maharashtra)	RESEARCH	2018-19	Dr. Kashinath N Patil				MECH	Development of Novel Double Utility Continuous salt and distilled water production by Solar Concentrator	995000	SNA
15.	RGTM (Rajiv Gandhi Technology Mission Maharashtra)	RESEARCH	2018-19	Prof. Rajesh Pansare	Dr. R. R. Lekurwale			MECH	Investigation and Evaluation of Mechanical properties of 3D printed metals products with conventionally manufactured product.	145000	SNA
16.	MU	RESEARCH	2018-19	Prof. Vilas Dhore	Dr. Kashinath N Patil			MECH	Handloom Power Train and Noise Control	47,900	SNA

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17.	MU	RESEARCH	2018-19	Dr. K N Patil				MECH	Solar Chulla for Mass Population	52,330	SNA
18.	MU	RESEARCH	2018-19	Prof. Sandeep Chopade				MECH	Viscosity studies of molten salts for solar thermal applications	99,500	SNA
19.	MU	RESEARCH	2018-19	Prof. Chitra B Menon				MECH	Design and development of prototype of an open loop indigenous automated radioactive medicine dispenser	50,000	ON
20.	MU	RESEARCH	2018-19	Dr. S. S. Bhusnoor	Prof. Yogita Yerne			MECH	Experimental studies on recovery of heat energy from engine exhaust gas using heat pipe heat exchanger	1,20,000	ON

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21.	MU	RESEARCH	2018-19	Prof. Shailesh Nikam				MECH	Flow control of impinging jet for heat transfer enhancement of flat impinging surface	80,000	SNA
22.	MU	RESEARCH	2018-19	Dr. N R Gilke	Dr. Kashinath N Patil			MECH	Solar storage type pool air drying system for pearl industry	49,000	SNA
23.	MU	RESEARCH	2018-19	Prof. Vijay Bhosale	Dr. N R Gilke	Prof. S A Hanumante	Prof. Viabhav Narwane	MECH	Design and Fabrication of Material handling system to prevent musculoskeletal disorder in shop floor worker	49,000	SNA

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24.	MU	RESEARCH	2018-19	Prof. A. P. S. Bhadauria	Dr. Kashinath N Patil			MECH	Development laboratory scale charcoal production cum bio-oil of biomass pyrolysis	44,200	SNA
25.	MU	RESEARCH	2018-19	Prof. Atul Saraf	Dr. S S Bhusnoor			MECH	Performance analysis of vapour absorption refrigeration system using engine exhaust as a hot fluid for regenerator	1,00,000	ON
26.	AICTE	RPS	2017-18	Dr. Kashinath N Patil				MECH	Renewable lab: Dye sensitized solar cell	11,10,058	AP
27.	AICTE	FDP	2017-18	Dr N R Gilke				MECH	MCDM for Manufacturing	455000	AP
28.	AICTE	MODROB	2017-18	Dr Ramesh Lekurwale				MECH	CAD/CAM Lab: Micro Milling Station	19,88,235	AP

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29.	DST-SERB	RESEARCH	2017-18	Dr. Manoj Powar				MECH	Effect of Fiber Direction and Stacking Sequence on Mechanical and Erosive Wear Characteristics of Polymer Composite for Wind Turbine Blade	19,32,000	AP
30.	KJSCB (K.J.Somaiya Centre for Buddhist and shifted to Sakharwadi at Jetwan)	CONSULTANCY	2017-18	Dr Ramesh Lekurwale				MECH	Paper Cutting Machine	55,000	CT
31.	MU	RESEARCH	2017-18	Prof. Priyanka Patil	Dr N R Gilke	Dr K N Patil		MECH	Evaporative dessert cooler	34000	CT

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32.	MU	RESEARCH	2017-18	Prof. V. V. Bhosale	Dr. N.R. Glike	Dr. Kashinath N Patil		MECH	Road Filling Kettle To Utilize Plastic Waste	81000	SNA
33.	MU	RESEARCH	2017-18	Dr R. R. Lekurwale	Dr. N. R. Gilke			MECH	Development of Abrasive air jet matching for profile cutting	52000	SNA
34.	MU	RESEARCH	2017-18	Prof. Anil Thosar	Dr. Kashinath N Patil			MECH	Solar Turmeric Drying cum Grinding unit	143000	SNA
35.	MU	RESEARCH	2017-18	Dr. Shailesh R. Nikam				MECH	Effect of Chevron on Heat transfer distribution on flat plate in impinging compressible jet	100000	SNA

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36.	MU	RESEARCH	2017-18	Prof. V S Narwane	Prof. V. V. Bhosale			MECH	Furnace Temperature controller with PID and Fuzzy logic controller	43821	SNA
37.	MU	RESEARCH	2017-18	Prof. S. Rajanarasimha	Dr. Kashinath N Patil			MECH	Development of Double Sloped Solar Still	42000	SNA
38.	MU	RESEARCH	2017-18	Prof. A. K Gangrade	Dr. Kashinath N Patil			MECH	Design and Development of Multi Crop Solar heat drying	107000	SNA
39.	MU	RESEARCH	2017-18	Dr. Luckman Muhmood				MECH	Viscosity studies of molten salts for Solar Thermal Applications	99500	SNA
40.	MU	RESEARCH	2017-18	Dr. Kashinath N Patil				MECH	Solar Herbs Drying cum Grinding unit	88000	SNA

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41.	MU	RESEARCH	2017-18	V. G. Dhore	Dr. Kashinath N Patil			MECH	Design and Development of Novel Double Utility Continuous salt and distilled water production by Solar Concentrator	94000	SNA
42.	MU	RESEARCH	2017-18	Prof. Shivangi Thakkar				MECH	Design and Development of Green packaging material from Sugarcane Bagasse to replace Bubble wraps	95000	CT

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43.	KJSCE	RESEARCH	2017-18	Dr Kashinath N Patil				MECH	Design and Development of Novel Double Utility Continuous Salt and Distilled Water Production by Solar Concentrator	30000	CT
44.	KJSCE	RESEARCH	2017-18	Dr Kashinath N Patil				MECH	Turmeric Drying cum Grinding Unit	40000	CT
45.	KJSCE	RESEARCH	2017-18	Dr Kashinath N Patil				MECH	Solar Herb drying cum grinding unit and multi crop drying	20000	CT
46.	KJSCE	RESEARCH	2017-18	Dr Kashinath N Patil				MECH	Choke Monitoring System for Bio-Toilets	20000	CT
47.	KJSCE	RESEARCH	2017-18	Dr. Ramesh Lekurwale				MECH	Betic Lab	80000	CT

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48.	KJSCE	RESEARCH	2017-18	Dr. Ramesh Lekurwale				MECH	Betic Lab	60000	CT
49.	DST-AMT	RESEARCH	2017-18	Dr. Ramesh Lekurwale				MECH	Investigation and Evaluation of Mechanical properties of 3D printed metals products with conventionally manufactured product.	4723677	SNA
50.	MU	RESEARCH	2017-18	Dr Shubha Pandit	Dr. Kashinath N Patil	Dr Parvathi JR		EXTC	Development of eco-friendly and sustainable packaging material with coconut shell powder, paper and egg shells	72,000	CT

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51.	L&T Automation	CONSULTANCY	2016-17	Dr. Kashinath N Patil	Prof. V. G. Dhore	Prof. P. P. Patil		MECH	Design of containerised sub-station	258750	CT
52.	IND (Tiranga Pearl and Beads)	RESEARCH	2016-17	Dr. Kashinath N Patil				MECH	Solar drying solution for Pearls	At Actual	ON
53.	IND (SA Textiles)	RESEARCH	2016-17	Dr. Kashinath N Patil				MECH	Solar Incinerator cum Hot Water Generator for Textile Industry	108000	CT
54.	DST-SERB	RESEARCH	2016-17	Dr. Lukamn M.				MECH	Oxide Mixtures as heat transfer fluids in Concentrating Solar power plants	3711000	ON
55.	MU	RESEARCH	2016-17	Dr. N.R. Glike	Dr. K. N. Patil			MECH	Solar Absorption Refrigeration System	52,000	CT

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56.	MU	RESEARCH	2016-17	Dr. Kashinath N Patil				MECH	Technology development for Jaggery and Ice production from sugar cane by refrigeration	70,000	CT
57.	MU	RESEARCH	2016-17	Ramola Sinha				MECH	Experimental Investigation of Solar Cavity Receiver for Industrial Process Heating	75,000	CT
58.	MU	RESEARCH	2016-17	Dr. S. S. Bhusnoor				MECH	Experimental Studies for Control of Nanoparticle from engine exhaust using Alternative Fuels	2,10,000	CT

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59.	MU	RESEARCH	2016-17	Mr. A. P. Bhaodoriya	Dr. A G Bhave			MECH	Development of laboratory scale unit for solar powered biomass pyrolysis for bio-oil production	45,000	CT
60.	MU	RESEARCH	2016-17	N.S. Chandrashekar	Dr. J. R. Satam			MECH	Development of Photo-curable Composition for MIP-SLA 3D-Printing Machine Using Digital Light Processing	1,00,000	CT
61.	MU	RESEARCH	2016-17	Dr Ramesh Lekurwale				MECH	Design and manufacturing of nozzle for abrasive water jet machine	67000	SNA

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62.	MU	RESEARCH	2016-17	V. G. Dhore	Dr. Kashinath N Patil			MECH	Aluminium composite by Powder Injection molding route	70000	SNA
63.	AICTE	RPS	2016-17	Dr Kashinath N Patil				MECH	Solar Air Drying System	828500	SNA
64.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Motion Sensor Triggered breif announcement System	5000	CT
65.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Intelligent Linen Counting System	20000	CT
66.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Per Warning System for Water Availability	10000	CT
67.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Solar Incinerator	25000	CT

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68.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Steam Based Cooking system	20000	CT
69.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Vacuum Drying System	50000	CT
70.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Oil Filter Testing Assembly	20000	CT
71.	KJSCE	RESEARCH	2016-17	Dr Kashinath N Patil				MECH	Solar Cavity Receiver	20000	CT
72.	KJSCE	RESEARCH	2016-17	Dr. Ramesh Lekurwale				MECH	Abrasive Jet Machining	14050	CT
73.	UGC	RESEARCH	2016-17	Dr. Ramesh Lekurwale				MECH	Design and development of low cost abrasive water jet machine	1800000	SNA
74.	KJSCE	RESEARCH	2015-16	Dr Kashinath N Patil				MECH	Solar PV Lighting solution for Office	2200	CT

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75.	IND (ATE Industries)	CONSULTANCY	2015-16	Dr Kashinath N Patil				MECH	Metal Composite with carbon Nanotubes by PIM route	150000	CT
76.	UGC	RESEARCH	2015-16	Dr. N. R. Gilke				MECH	Development of the Triple Utility Solar Concentrator Based Vapour Absorption System	4,95,000	SNA
77.	UGC	RESEARCH	2015-16	Dr Kashinath N Patil				MECH	Development of Self Contained Cabinet for Vaccination Box by Solar PV based System	230000	SNA

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78.	DST	RESEARCH	2015-16	Dr. Lukman Mahmmod	Dr Kashinath N Patil			MECH	Development of oxide mixtiures for heat transfer applications in concentrating solar power power plat	3691000	After Presentat ion Proposal not accepted
79.	UGC	RESEARCH	2015-16	Dr. Lukman Mahmmod				MECH	Manufacture and testing of Aluminum alloy metallic foams for improved impact properties	417000	SNA
80.	UGC	RESEARCH	2015-16	Dr S S Bhusnoor				MECH	Control of Fine Particles from Engine Exhaust using Particle Transport Mechanisms	500000	SNA

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81.	UGC	RESEARCH	2015-16	Dr Ramesh Lekurwale	Dr Kashinath N Patil			MECH	Design and Development of Novel Floating Carriage for Salt Generation Trough Solar Concentrator	340000	SNA
82.	UGC	RESEARCH	2015-16	Dr Ramesh Lekurwale				MECH	Design and development of low cost abrasive water jet machine	380000	SNA
83.	UGC	RESEARCH	2015-16	Dr. A G Bahve				MECH	Development of receiver cum thermal storage cooking device for a parabolic dish concentrator type solar cooker	300000	CT

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84.	UGC	RESEARCH	2015-16	Prof. N S Chandrashekar				MECH	To design and fabricate a machine for creation of tactical objects using digital light processing Technology	240000	CT
85.	KJSCE	RESEARCH	2014-15	Dr. K. N. Patil				MECH	Concentrator Solar Cooker Testing and Evaluation	30000	CT
86.	KJSCE	RESEARCH	2014-15	Dr. K. N. Patil				MECH	Solar Absorption System	45000	CT

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87.	IND (Godavari Bio refineries Limited Sameewadi Mudhol Bagalkot, Karnataka 587316)	CONSULTANCY	2013-14	Prof. Avinash Prabhudesai				MECH	Trash Suction System and Engine cooling system	12,00,000	CT
88.	KJSCE	RESEARCH	2013-14	Dr Kashinath N Patil				MECH	Concentrator Solar Cooker Testing and Evaluation	45000	CT
89.	MU	RESEARCH	2013-14	Prof. S. S. Bhusmoor				Mech	Design and Development of Air Cooled Heat Exchanger	25000	CT

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90.	Godavari Bio refineries Limited	RESEARCH	2013-14	Avinash A. Prabhudesai				Mech	Trash Suction System and Engine cooling system	1200000	CT
91.	MODROB –AICTE	RESEARCH	2012-13	Dr. A. G. Bhave				Mech	Reneable Energy Laboratory	700000	CT
92.	MU	RESEARCH	2009-10	Prof. Sanjay Bhandari				Mech	Temperature Distribution in Regenerator	36000	CT
93.	MU	RESEARCH	2009-10	Prof. B.M.Pradhan				Mech	Design Manufacturing and Testing for Regenerative Brake for 3 wheeler	49000	CT
94.	MU	RESEARCH	2009-10	Prof Divya Padmanabhan				Mech	Design and Fabrication of semi-automatic Injection Moulding Machine	40000	CT

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95.	KJSCE	RESEARCH	2009-10	Prof. Sanjay Bhandari				Mech	Study of Temperature Distribution in Regenerator used for Stirling Engine Pulse tube Refrigerator	23000	CT
96.	KJSCE	RESEARCH	2009-10	Prof Divya Padmanabhan				Mech	Injection Moulding to Shape Ceramics	25000	CT