



KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE - 638 060



KEC SPARK FUND (An initiative by IICKEC, EMDC and TBI@KEC) Sanctioned Project Details



S No.	Title	NAME	ROLL NUMBER	Mentor	Duration	TRL LEVEL	Sanctioned Amount in Rs	Outcomes
2019-2020								
1.	Analysis and Up gradation of Cardio Pulmonary Resuscitation Device for Health Care	K. Sudarsan G. Premkumar S. Sribhairav	21MER087 21MEL122 21MEL129	Dr.R.Rajasekar Dr.C.Moganapriya Mech	01.03.20 -28.02.21	TRL4	₹ 41,000.00	Patent Filed. App No: 202341039257A
2020-2021								
2.	Investigation on Geo Polymer Paver Blocks made with Steel Slag Aggregates towards Sustainable Urban / Smart cities development	AMARNATH.A ABHINANTHA.S CHOWNDHARIAN.A	17CER007 17CER002 17CER035	Mr.A.R.Krishnaraja Civil	01.01.21 -31.12.21	TRL4	₹ 44,000.00	Got IVP Voucher A Rs: 1,92,000/- Demo Given.
2021-2022								
3.	Agro tech Drone -A remote crop management Drone using spectral camera imaging	Gokul Raja N Kathiravan J Kaviyarasu S G. Tharakhamurthy R. Thiruselvam	17ECR042 17ECR071 17ECR080 19ECR204 19ECR207	Mr.R.P.Karthik, ECE	01.06.21-31.05.22	TRL4	₹ 89,000.00	Won 5G Hackathon Phase I & II with Rs: 4,00,000/- as cash prize. Event organized by Gol, DoT, TCOE. Student Startup.
4.	InDesi Cards	P.Kavin T.Shimar Ahamed K.Vignesh Kumar M.Vignesh Bharathi Sri Balaji Syed Shanavaz C.N.Vinish Nandan	20CSR091 17CER166 17CER199 17CER198 17CER177 17CER186 17CER205	Dr.G.S.Rampradheep, Civil Dr.N.Shanthi, CSE Co-Mentors Dr.P.S.Kothai, Civil Dr.D.Ambika, Civil Dr.S.Anandakumar, Civil	01.06.21 - 31.05.22	TRL4	₹ 38,510.00	Copyrights under Scrutiny Artistic Copyright Diary Number: 14172/2023-CO/A Literary Copyright Diary Number: 14174/2023-CO/L Won National Award in Toycathon 2021 under Government of India
5.	Study on reduction of scale formation in drip irrigation nozzle using natural coagulant	V. Harish K. Aravindh P.S. Nithisri N. Ponparudhi	19CER040 19CER008 21CER061 21CER062	Dr.S.Suchithra, Civil Dr.P.S.Kothai, Civil	01.01.22- 31.12.22	TRL4	₹ 35,000.00	Design Patent Granted Grant Number: 380852-001

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6.	Eco-friendly plastic paver block	Prabhu T Oviya S Raja Rethinam S Monisha P	18CER123 18CER116 18CER133 18CER098	Dr.S.Suchithra, Civil Dr.P.S.Kothai, Civil	01.01.22- 31.12.22	TRL4	₹ 36,000.00	Design Patent Granted Grant Number: 375458-001
7.	Compact versatile cooking Gadget	K. Sudarsan G. Premkumar S. Sribhairav	21MER087 21MEL122 21MEL129	Mr.A.Ganesh, Mech. Mr.K.V.Satheesh Kumar, Mech	01.01.22- 31.12.22	TRL4	₹ 35,000.00	Product completed Report submitted to Prior art search.
2022-2023								
8.	Double sided napkin	A. Priyanga U. Dinakaran	19CHR065 20CHR015	Mr.S Pranav, Chem	01.08.22-31.7.23	TRL5	₹ 25,000.00	Patent Filed., 202341040972, 16/06/2023 Participated SIH 2022, Testing for commercialization in progress
9.	Smart Buffer Stock Solution for Onion Storage (Team Zelos)	Srivi V Keerthiraj N Abivarshini M A Kasiram P Hema S Santheeb Balaji V	19MER183 19MER091 19FTR001 19ECR076 19ECR061 19CHR076	Dr.C.Baskar Mech	Special Case for SIH	TRL3	₹ 10,000.00	Participated in SIH -2022.
10.	Edible film from excess milk (Food Tech Flyers)	Sanju Vikashni S Puviram P Nivedita P V Deepak G Deepak T Deepak K	19FTR040 19FTR037 19FTR033 19MER030 19MER031 19MER029	Ms.A.Sangeetha FT	Special Case for SIH	TRL3	₹ 11,500.00	Participated in SIH -2022.

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11.	Pervious path – paver block from corona waste (KEC Penet Path)	SUGANDHAN S S SIVA SANKAR P RAGUL M SONA S SUBITSHA ROSHINI R SUBIKSHAA S	21CER092 21CER080 21CER066 21CER083 21CER091 21CER090	Mr.A.Venkatachalam Civil	Special Case for SIH	TRL3	₹ 10,000.00	Participated in SIH Finals-2022. Design Patent Filed : 373851-001
12.	Insta self-align bricks (KEC INFERNO)	SENBAGAM L VIGNESH S C VIJAY S KRISHNAMOORTHY R SKATHIVIGNESG S	20CER088 20CER111 20CER114 19CEL135 19CER082	Mr.A.Venkatachalam Civil	Special Case for SIH	TRL3	₹ 10,000.00	Participated in SIH Finals -2022.
13.	Transparent Concrete with supplementary cementitious materials and construction and demolition Debris	D.V.Dilbar Mohammed Naseer M. Dhanushri B.K. Apoorvaa A. George Rishan	20CER019 20CER015 20CER006 20CER027	Dr.P.S.Kothai, Civil DrD.Ambika, Civil	28.09.22-30.09.23	TRL4	₹ 50,000.00	Won prizes in many project presentation events, worth of Rs 10,150/-. Yukti 2023 winner. Received Rs: 5,00,000/- cash prize Patent Drafting in Process
14.	Smart crop protection system from peacocks using IOT	S. Kishore S. Ajith	21CDR022 21CDR002	Ms.S.Hemalatha/CSD Mr.S.Selvaraj/ CSD	21.11.22-30.11.23	TRL3	₹ 25,000.00	Patent Filed App No : 202441092003, Date : 26-11-2024
15.	Food Delivery Robot	M.Mohamed Ajmal S. Nandita M. Karthika J. Siddharthan B. Saran P. Sriram	21CDR025 21CDR028 21CDR018 20MTR078 20MTR072 20MTR081	Mr.S.Selvaraj/CSD Dr.C.Maheswari/MTS	21.11.22-30.11.23	TRL4	₹ 40,000.00	TN Startup Thiruvizha – 5 K won. Science Day event KEC - 3K Won. Patent Drafting in process.
16.	AI and IoT based alert system for accident prone areas in highways	G.K. Ranga Kaarthi V. Sabarika K. Dhanushree	21CDR036 21CDR039 21CDR010	Ms.K.Jothimani/CSD Mr.S.Selvaraj/ CSD	21.11.22-30.11.23	TRL3	₹ 40,000.00	Applied for SIH -2023

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17.	KEC Bus Notify	S. Karthick S.R. Ranjith	21CDR017 21CDR037	Mr.S.Selvaraj/CSD	21.11.22-30.11.23	TRL4	₹ 30,000.00	Applied for SIH 2023. fabrication work in process.
18.	Battery Thermal management using heat pipe integrated system	Adhitya L S Aravindh R Aruvi B Karthik S Santhosh Singh R Moniga B.	21AUR001 21AUR002 21AUR003 21AUR018 21AUL056 21AUR024	Mr. K.Nithyanandhan, Auto Dr. P. C. Murugan / Auto	Special Case for KPIT Sparkle	TRL3	₹ 34,000.00	Won Rs. 15,000 on VIT University Startup Conclave, Chennai. Won the silver award with a cash prize of Rs. 5,000 on TN startup Thiruvizha Coimbatore. Secured the position in the top 50 projects of KPIT sparkle 2023. Won Prize in SIH internal Hackathon with a cash prize of RS. 5,000. Won prizes in other project presentation events.
19.	Design and development of an efficient indigenous hydrogen gas generation system by dry cell electrolysis method	S. Sivakarthick C. Vasanth S. Barath Kumar S. Kaaran P. Nagulan	20AUR018 20AUR022 20AUR027 20AUR032 20AUR039	Mr. K.Nithyanandhan/ Automobile	Special Case for KPIT Sparkle	TRL4	₹ 45,000.00	Won, gold award with the cash prize of Rs. 10,000 in TN startup Thiruvizha Coimbatore. Won the most popular project award with the cash prize of Rs. 1,00,000 in the KPIT sparkle 2023 . Won Prize in SIH internal Hackathon with a cash prize of RS. 5,000. Won Prize in the science day expo with the cash prize of Rs. 5,000. Won KPIT sparkle 2024 with Rs.7,00,000/- cash price Won prizes in other project presentation events.


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**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)

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S No.	Title	NAME	ROLL NUMBER	Mentor	Duration	TRL LEVEL	Sanctioned Amount in Rs	Outcomes
20.	Energy generation in highways using moving vehicles	Narasimmabharathi S Kavin Kumar P - Elamathi Kumaran S - Ramkumar J - Subishek M Komal Vasudhi S	20AUR013 20AUR008 21AUR009 21EER066 21EER094 22AUR014	Mr. K.Nithyanandhan/ Automobile	Special Case for KPIT Sparkle	TRL3	₹ 35,000.00	Secured the position in the top 26 projects of KPIT sparkle 2023. Design Patent Filed. App No: 396549-001 Date : 04-10-2023
21.	Advent of aluminum polymer: replacing battery	Kaveya P Gokul J Leander Antony G Pavendhan Mourin Prasad B M	20ECR075 20ECL214 20ECR089 20ECR115 20ECR102	Dr.K.Senthil kumar, ECE	Special Case for KPIT Sparkle	TRL3	₹ 40,000.00	Pitched on iCreate & KPIT Sparkle - won Rs. 50,000 grants. Faculty and students turned as entrepreneurs. Kanli Cleancell Innovations, 10A,Anna street 3rd Cross , Kongu Nagar, Inam karur, Vengamedu,Karur 639006 Patent Filed App No: 202441038528
22.	Pinch hitter of lithium-ion battery: development if Zinc activated carbon battery	Kavyadharshini D Gokulanand S Hemanth S N Kaviya Priya Haris T Meivelan B	20ECR080 20ECL215 20ECR055 21ECR104 21ECR076 21ECR117	Dr.G.Murugesan, ECE Dr.K.Senthilkumar/ ECE	Special Case for KPIT Sparkle	TRL3	₹ 30,000.00	Pitched on iCreate & KPIT Sparkle - won Rs. 50,000 grants. Patent Filed. App No: 202341017599 Faculty and students turned as entrepreneurs. Lican Cleancell Innovations, No: 10A,Anna Colony, II Cross, Inam, Vengamedu, Karur, Karur- 639006, Tamil Nadu
23.	Automation of cashew cutting machine	Abinash A	19EER002	S.Chandrasekar, EEE S.Gomathi/EEE	28.01.23-30.01.24	TRL3	₹ 32,000.00	Student turned as Entrepreneur. Recived support from Nidhi EIR at TBI@KEC Milestone: Design Patent -


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2023-2024								
24.	Portable 3 Phase Monitoring System.	NAVEEN A SUGANTH S MUHAMMED RAKIN S U SASI VARMA A N	20EIR054 20EIR082 21EIR058 21EIL118	Dr. R. Subasri , EIE Dr. R. Rajkumar / EIE	01.09.23- 20.02.24	TRL3	₹ 30,000.00	Patent filed App No: 202441076394 Date: 08/10/2024
25.	Cargo EV Tricycle	V NAGULRAJ MUZAMMIL A K M JOSHUA P S DEVAPRAKASH S HAREESH VIGRAM C	20MER079 20MER073 20MER055 21MER024 21MER037	Dr.P.Selvakumar/ Mech.	21.10.23- 21.12.23 (AICTE Bharath Cycle Competition)	TRL3	₹ 40,000.00	Participated in Bharath Cycle Design Challenge. Design Patent App No: 427222-001 C.B.R. NO : 200282
2024-2025								
26*	Solid Waste Remover - Machine	Jeyasanthosh A Hariharan L	21ECR084 21ECR070	Dr.P.Nirmala Devi / ECE	18-04-2024 to *	TRL3	₹ 15,000.00	Patent Drafting in progress
27*	Electric Cargo cycle for Dubbawala	RINSHADUL NISHAM S SEDHURAGAVAN SJ VISHAL JVG	21MTR067 21MTR077 21MTL129	Dr. R. Parameshwaran / Auto Dr. S. Praveen Kumar / MTS	01-06-2024 to *	TRL3	₹ 35,000.00	Design Patent filed, App No: 429054-001 CBR No: 200299 / date: 02-09-2924 C.B.R. NO : 200431 / date: 11-11-2024

*Recently Allocated/ Allocation Still in progress

As on date 26 Feb 2025

S.No.	Year	No. of Sanctioned Project	Comple-ted	Amount Proposed	IP/ © Filled/Granted	Startups
1	2019-2020	1	1	₹ 41,000.00	1	
2	2020-2021	1	1	₹ 44,000.00	0	
3	2021-2022	5	5	₹ 2,33,510.00	4	1
4	2022-2023	16	13	₹ 4,67,500.00	5	3
5	2023-2024	2	1	₹ 50,000.00	2	
6	2024-2025*	2	0	₹ 50,000.00	2	
	Total	27	21	₹ 9,06,010.00	14	4

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