

विकास आयुक्त का कार्यालय
(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)

निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड,
नई दिल्ली-110 108



OFFICE OF THE DEVELOPMENT COMMISSIONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA
Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

By Speed Post/E-mail

F. No. 6 (19)/Sanction to CNA/Incubation/2022-23

Dated: 22/01/2024

To

The Accounts Officer
Pay & Accounts Office
Micro, Small & Medium Enterprises
New Delhi.

SANCTION ORDER

Subject: Sanction of Rs. 6,02,19,050/- (Rupees six crore two lakh nineteen thousand fifty only) and release of Rs. 6,02,19,050/- i.e., towards 2nd Installment (30% of GOI sanctioned amount) Grant-in-Aid General (Non-Recurring) to be credited to CNA-CTTC-Bhubaneswar) for releasing to 99 Host Institutes (HIs) for 182 Ideas under Incubation Component of MSME Innovative Scheme for FY 2023-24-reg.

Undersigned is directed to convey the sanction of the President of India of Rs. 6,02,19,050/- (Rupees six crore two lakh nineteen thousand fifty only) and release of Rs. 6,02,19,050/- i.e., towards 2nd Installment (30% of GOI sanctioned amount) under Grant-in-Aid General (Non-Recurring) to be credited to CNA-CTTC-Bhubaneswar) for releasing to 99 Host Institutes (HIs) for 182 Ideas approved under MSME Idea Hackathon 2022 as **per Annexure-A** under Incubation Component of MSME Innovative Scheme for FY 2023-24-reg.

2. This is in accordance with the Department of Expenditure's OM no. 1-17008/3/2003-CGA/e-12949/601 dated 12.12.2023 (copy enclosed), (Releases of funds under Central Sector Schemes) under clauses b (iv) & (vi) the following relaxation have been provided as below:

- iv) The sanction order cannot be generated if the amount proposed to be released is more than 25% of budget allocated for the CNA.
- vi) The sanction order cannot be generated if the CNA bank account balance is more than 6.25% of the annual Budget allocation to the CNA. The validation is relaxed if the sanction order is generated for Object Heads -31 (GIA-General) AND 36 (GIA-Salary).

3. Accordingly, the "Concurred Amount" and the "Release Amount" are as under:

S. No.	BE /RE of MSME Champions Scheme 2023-24(Rs. in Lakh)	Concurred Amount by IFW during FY 2023-24(Rs.)	'Release' Amount for FY 2023-24(Rs.)
1	5272.00	Rs. 6,02,19,050/-	Rs. 6,02,19,050/- be credited to the CNA-CTTC-Bhubaneswar

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4. Roles and Responsibilities of CNA:

Central Tool Room And Training Centre (CTTC), Bhubaneswar, Odisha shall release the amount to the respective Host Institutes (HIs) as per the **Annexure-A** after submission/upload of all requisite documents on MIS portal by the HIs concerned as per the scheme guidelines. The Grant-in-Aid will be regulated in accordance with the OM of Dept. of Expenditure, Ministry of Finance vide No. **1(18)/PFMS/FCD/2021 dated 9th March, 2022 (copy attached)** regarding revised procedure for flow of funds under Central Sector Schemes and provisions contained in the Incubation Component of MSME Innovative Scheme. CTTC, Bhubaneswar, Odisha has been nominated as CNA vide letter No. 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Incubation Component of MSME Innovative Scheme of MSME Champions Scheme (**copy of the order enclosed for reference**). **CTTC, Bhubaneswar** shall strictly follow the roles and responsibility as mentioned in the aforesaid O.M. The funds released are also subject to the provisions contained in Chapter 9 of the General Financial Rules, 2005, as amended from time to time, read with the Government of India's decisions incorporated there-under and any other guidelines which may be issued in this regard and in particular to the following conditions:

- i. CTTC, Bhubaneswar shall maintain CNA account of Grant-in-Aid received from the Government and utilized. In addition, a separate Bank account shall be maintained for the Government Grants under this Scheme. (The bank account should be same which was authorized for operation at the time of registration under the central plan Scheme monitoring system (CPSMS) of the Ministry of Finance).
- ii. The grant shall be utilized for the purpose of development of ideas under Incubation Component of MSME Innovative Scheme as provisioned in the Scheme guideline. Further, while incurring the expenditure, austerity measures should be taken into account as issued from time to time by competent authority.
- iii. www.innovative.msme.gov.in portal shall be used for uploading all relevant information by the HIs as and when required by this office under Incubation Component of MSME Innovative Scheme.
- iv. CTTC, Bhubaneswar shall maintain a register of permanent and semi-permanent assets acquired if any, wholly or mainly out of the above grant in the prescribed format and copy thereof should be furnished to this Ministry.
- v. If any capital assets created in the CTTC, Bhubaneswar, DC (MSME) will be the sole proprietor of the same. Assets acquired wholly or substantially out of Government Grant shall not be disposed of without obtaining the prior approval of the sanctioning authority of Grant-in-aid.
- vi. The accounts of CTTC, Bhubaneswar shall be open for inspection by the sanctioning authority and audit, both by the Controller & Auditor General of India under the provision of C&AG (DPC) Act, 1971 in accordance with the provisions laid down in Section 14 of the C&AG (DPC 1971) as amended from time to time and Internal Audit party of the Principal Accounts Office of the Ministry of Micro, Small & Medium Enterprises (MSME), whenever it is called upon to do so.
- vii. The grantee shall submit the Utilization Certificate in the prescribed form GFR-12 duly signed by the Head of the Institution/ Grantee latest by 31.03.2024. The utilization certificate in respect of grants should also disclose whether the specified, quantified and qualitative targets that should have been reached against the amount utilized were in fact reached, and if not, the reasons there for furnished by concerned HI.

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- viii. CTTC, Bhubaneswar shall furnish an Audited Statement of Accounts of the financial year before 30.04.2024 also indicating separately Activity-wise and Head-wise expenditure.
- ix. Grant-in-Aid shall be utilized subject to the Economy and other Instructions issued from time to time by the M/o Finance or by the Competent Authority.
- x. CTTC, Bhubaneswar shall certify that the utilization certificates due for submission for the Grants-in-aid sanctioned in the previous year's containing all the relevant details under GFR 212(1) have been submitted to the satisfaction of the Ministry of MSME.
- xi. CTTC, Bhubaneswar shall adhere to all the relevant provisions of GFR and any other instructions/ guidelines issued by the Government from time to time, while making procurement/ purchases of goods and services including compliance to GFR provisions in case of out-sourcing of services and engagement of consultants.
- xii. CTTC, Bhubaneswar has been exempted from execution of the bond. CTTC, Bhubaneswar shall, however, furnish an undertaking that it will comply with all the terms and conditions stipulated in the sanction order.
- xiii. CTTC, Bhubaneswar should send pre-receipted bill and undertaking to agree to the terms & conditions of this sanction (in triplicate) to this Ministry for payment of the amount drawn against this sanction.
- xiv. In no case the grant released under this sanction will be utilized for any purpose other than those indicated in the sanction. The grantee shall not divert the grants and entrust execution of the Scheme or work concerned to another Institution or Organization and shall abide by the terms & conditions of the grant and follow/ adhere to all the relevant provisions of GFR regarding Grants in aid. If the grantee fails to utilize the grant for the purpose for which the same has been sanctioned or does not adhere to the terms & conditions of Grant and GFR provisions, the grantee/Institution shall be required to refund the grant with interest @10% per annum, if any.
- xv. CTTC, Bhubaneswar will send the detailed progress report of for fund utilized by HI.
- xvi. CTTC, Bhubaneswar may use the fund as prescribed in the Scheme guidelines of Incubation component of MSME Innovative Scheme relating to development of ideas. The expenditure under the sanction is maximum, saving if any, will be surrendered to the Govt. of India.
- xvii. The grantee institution shall not utilize the interest earned if any on the recurring/non-recurring grants-in-aid released to the institution for any purpose. The interest earned shall be indicated in UC which can be either adjusted in next release or to be refunded to GoI after grants-in-aid sanctioned is utilized.

5. Roles and Responsibilities of Host Institutes:

- i. The expenditure shall be incurred towards Technology related Expenditure towards machine usage charges, Electricity charges, Procurement of raw material, testing/Calibration charges, other charges essential for development of idea, charges for mentor/handholding supporting team and Travelling Expenses or any other item not covered as above may be allowed as per need for development of the idea. The main activities include nurturing of innovative business ideas (new/indigenous technology, processes, products, procedures, etc.), with the expected outcome of it being commercialized into an enterprise.



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- ii. The terms and conditions governing the grant will be as per undertaking executed to Government by the HIs on MIS portal. The amount released as 2nd installment will be utilized in a manner that Proof of Concept (POC) of project/idea is made. The Host Institution shall maintain separate accounts of the funds received and expenditure incurred on various activities. Further, the HI would submit Annual Accounts, Audited expenditure Statement and Utilization Certificate to the Government. In case of mis-utilisation or diversion of grant sanctioned under the scheme, the HI shall be liable to refund to the President of India the whole or a part amount of the grant with interest @ of 10 % per annum thereon. Further, the Host Institution shall not utilize the interest earned on the recurring / non-recurring grants –in –aid released to the institution for any purpose. The interest earned shall be indicated in UC which can be either adjusted in next release or to be refunded to GOI after grants –in-aid sanctioned is utilized.
 - iii. The time limit for Completion of ideas through Host institute is preferably one year until and unless some valid justification is given for extension of the time limit The Executive Head shall submit Quarterly Progress Report of the development of ideas to this office. The consolidated report on the final outcome of such incubation along with the report of mentor/guide about the quality of the work done, its cost effectiveness, tangible gains (quantitative) likely to be achieved, etc., is also to be submitted immediately after completion of the work.
 - iv. Host Institutes may use the fund as prescribed in the Scheme guidelines of Incubation component of MSME Innovative Scheme relating to development of ideas. The expenditure under the sanction is maximum, saving if any, will be surrendered to the Govt. of India.
 - v. In addition to the above, the HI will have to abide by the terms & condition as given in the detailed guidelines of the scheme. Also, the office of DC (MSME) may lay down any other condition to be followed by HI as and when required.
 - vi. The expenditure incurred by the institutions shall be open to inspection by the sanctioning authority/ CAG/Chief Controller of Account (CCA), Ministry of Micro, Small & Medium Enterprises.
 - vii. The HIs shall certify that it has not obtained or applied for grants for the same purpose or activities from any other Ministry or Department of Government of India or the State Government.
 - viii. Noted at Serial No. 20 in the Register of Grants.
6. DDO of the office of DC (MSME) will act as Drawing and Disbursing Officer for this sanction.
 7. The progress of the scheme would be monitored by the PMAC, O/o DC (MSME).
 8. The expenditure involved is debit to the Budget Allocation under Demand No. 68 Ministry of Micro, Small & Medium Enterprises (MSME) under Technology Upgradation and Quality Certification (MSME Champions Scheme) for FY 2023-24. Details are as under:

(i)	Major Head	2851.00.102.95	Village & Small Industries
(ii)	Object Head	95.04.31	GIA-G
(iii)	BE (MSME Champions Scheme)	47.00 Cr.	Expenditure till date: Rs. 26.66 cr.
(iv)	Present sanction/release	Rs. Rs. 6,02,19,050	


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9. The CNA bank details of the Central Tool Room & Training Centre, Bhubaneswar for making payment is as below:

Name of the CNA	Name of Bank where A/c of Org. Held	Address/Code of Bank Branch	Saving Bank A/c No. of CNA	MICR Code and IFSC Code
Central Tool Room & Training Centre	State Bank of India	Infocity Branch, Bhubaneswar	41141047045	MICR-751002030 IIFC NO. – SBIN0010133

10. There is no pending UC with CTTC, Bhubaneswar under “MSME Innovative Scheme

11. This issues with the concurrence of Integrated Finance Wing vide their Dy. No. 211/2023-24/IFW-II dated 16.01.2024

Yours faithfully

श्री. रामकृष्णन / V. RAMAKRISHNAN
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(Handwritten Signature)
22/01/2024

(V. Ramakrishnan)
Dy. Director

Encl: As above.

Copy To

1. General Manager, Central Tool Room & Training Centre, B-36, Chandaka Industrial Area Bhubaneswar-751024
2. The Drawing & Disbursing Officer, Office of DC (MSME), New Delhi.
3. The Director (PFMS), Department of Expenditure, Ministry of Finance, North Block, New Delhi.
4. B&A Section, Office of DC (MSME), Nirman Bhawan, New Delhi.
5. Budget Division, Office of DC (MSME), Nirman Bhawan, New Delhi.
6. Principal Director of Audit, Economic and Service Ministry, AGCR Building, IP Estate, New Delhi.
7. Under Secretary, IFW, Ministry of MSME, Nirman Bhawan, New Delhi.
8. Sr PPS to JS (AFI)/ PS to Director (T&P). Ministry of MSME, Udyog Bhawan, New Delhi.
9. SENET Division with the request to upload on DC (MSME) website.
10. All MSME –DFOs
11. Guard File.


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(Handwritten Signature)

(V. Ramakrishnan)
Dy. Director

Annexure A


S. No.	Institute Name	State	Incubatee Name	Incubatee Category	Title of proposed idea/ innovation	Total project cost (Rs. In lakh)	Amt GOI assistance (Rs. In lakh)	Incubatee share (Rs. In lakh)	Released 70% 1st Instalment (Rs. In lakh)	2nd Installment 30% to be released (Rs. In lakh)
1	AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY, a constituent college of Vinayaka Missions Research Foundation ,Deemed to be University	Tamil nadu	Vijay Jayaraman	Start Up /Employed/Others	Efficient Power Management System by Implementing Solid State Transformer	12.6000	10.7100	1.8910	7.4970	3.2130
2	Adani University	Gujarat	Saxena Tushar	Entrepreneurs /MSME	One-Click Sprinkler technology to control fire Sprinkler manually through AUTOVOLTZ-Softwar-Console from any place	15.0000	12.7500	2.2500	8.9250	3.8250
3	Adhiyamaan College of Engineering	Tamil nadu	BAALA DHINES H A	Start Up /Employed/Others	Solar Membrane Distillation -Solar based Membrane distillation works on the principle of temperature and vapor pressure difference i.e., Membrane distillation is a thermal driven separation process.	12.0000	10.2000	1.8000	7.1400	3.0600
4	Adhiyamaan College of Engineering	Tamil nadu	G YOGESH	Start Up /Employed/Others	Smart Sensing Technique for Health Monitoring of Existing Bridges	15.0000	12.7500	2.2500	8.9250	3.8250
5	Adhiyamaan College of Engineering	Tamil nadu	M SONALI	Start Up /Employed/Others	Auto Irrigation, Soil Monitoring and Control for Better Crop Yield and Soil Quality	15.0000	12.7500	2.2500	8.9250	3.8250
6	Adhiyamaan College of Engineering	Tamil nadu	VADHIRAJANACHUTHAN	Start Up /Employed/Others	Cloud Based distance Relay with Fault location Mapping on Google Map	14.0000	11.9000	2.1000	8.3300	3.5700
7	Anand Institute of Higher Technology	Tamil nadu	Kanaga Suba Raja.S	Start Up /Employed/Others	AI-based Vehicle Parking System for Smart Cities	17.0000	12.7500	4.2500	8.9250	3.8250


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8	Anurag Group of Institutions	Telanga na	R Naga Swetha	Start Up /Emplo yed/Ot hers	Secure Savers- Monitoring Adulteration and Pilferage of Petroleum Oil tankers and logistic service	18.0650	12.3250	5.7400	8.6280	3.6975
9	ASSOCIATION OF LADY ENTREPRENEU RS OF INDIA	Telanga na	Jammala madaka Amarnat h	Entrep reneurs /MSM E	Automatic Food Cooking Machine - Buchuk	20.0000	12.7500	7.2500	8.9250	3.8250
10	Bharath Institute of Higher Education and Research	Tamil nadu	Angeline Raghu Babu	Start Up /Emplo yed/Ot hers	Trash to Treasure a Cost Effective Eco- Friendly Bioplastic from Agricultural Wastes for Use as Hospital Bed Covers	13.5000	11.4750	2.0250	8.0330	3.4425
11	BharatiVidyapeet h Deemed to be University College of Engineering, Pune India	Mahara shtra	AniketPr abhakar Dandge	Entrep reneurs /MSM E	Developing low cost advance mechanism for road maintenance by using techniques of road recycling	15.0000	12.7500	2.2500	8.9250	3.8250
12	CHALAPATHI INSTITUTE OF PHARMACEUTI CAL SCIENCES	Andhra pradesh	MS CHALA PATHI EDUCA TIONAL SOCIET Y	Entrep reneurs /MSM E	Rivaroxaban powder for oral solutions and Rivaroxaban effervescent granules to treat angina pectoris, an Ischemic heart disease drug.	26.6000	12.7500	13.850 0	8.9250	3.8250
13	CHEBROLU ENGINEERING COLLEGE	Andhra pradesh	Vusa Rohini	Studen t	Aadhar controlled automated polling station with remote monitoring	15.0000	15.0000	0.0000	10.5000	4.4500
14	Chennai Institute of Technology	Tamil nadu	kodavati sumanth	Entrep reneurs /MSM E	Hydrogen powered electric Vehicle	15.0000	12.7500	2.2500	8.9250	3.8250
15	Chennai Institute of Technology	Tamil nadu	M Kayalviz hi	Start Up /Emplo yed/Ot hers	Novel mass screening Retina Imaging for Severity detection of Alzheimers using Deep learning methods	15.0000	12.7500	2.2500	8.9250	3.8250
16	Chennai Institute of Technology	Tamil nadu	Partheeb an	Start Up /Emplo yed/Ot hers	Cost Effective and Quickly Deployable Hybrid Composite Shelter - focuses on the material design of hybrid glass/Kevlar fiber reinforced polymer (FRP) composites that will be suitable for fabricating panels for the construction of emergency medical shelters	15.0000	12.7500	2.2500	8.9250	3.8250


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17	Chennai Institute of Technology	Tamil nadu	Yuvarah Chandrasekaran	Start Up /Employed/Others	FUSI(Filament Utilization System) - Recycled 3-D printed filaments.- Recycle of 3-D printed waste for reuse in 3D printing.	15.0000	12.7500	2.2500	8.9250	3.8250
18	CMR College of Engineering and Technology	Telanga na	MERUGU SURESH	Student	Campus Mobility E-Vehicle (SHHAR)	14.8100	14.8100	0.0000	10.3670	4.4430
19	CMR Engineering College	Telanga na	ANKIREDDY PALLI SRINIVASULA REDDY	Start Up /Employed/Others	Device to Improve Switching Speed and Provide Better Sensitivity at Low Frequencies	15.0000	12.7500	2.2500	8.9250	3.8250
20	CMR Engineering College	Telanga na	C SYAMSUNDAR	Start Up /Employed/Others	Novel Eco-Friendly Solid Waste Management System with Waste Heat Recovery for Rural Villages	15.0000	12.7500	2.2500	8.9250	3.8250
21	CMR Engineering College	Telanga na	C SYAMSUNDAR	Start Up /Employed/Others	Design and Development of an Affordable Portable Ventilator System for Patient Emergency Support	15.0000	12.7500	2.2500	8.9250	3.8250
22	CMR Engineering College	Telanga na	C SYAMSUNDAR	Start Up /Employed/Others	Establishing Hybrid Hydrodynamic Assisted with Acoustic Cavitation Water Treatment Facility for High-Quality Drinking Water	15.0000	12.7500	2.2500	8.9250	3.8250
23	CMR Engineering College	Telanga na	MAMIDALA VIJAY KARTHIK	Start Up /Employed/Others	Solar Energy Based Rickshaw Ambulance for Remote Locations	15.0000	12.7500	2.2500	8.9250	3.8250
24	CMR Engineering College	Telanga na	SARASWATHI NAGLA	Start Up /Employed/Others	Water Quality Monitoring System- It aims to determine the contamination of water, leakage within pipeline, and also automatic measurement of parameters such as temperature, pH value, flow , color , conductivity in real time	15.0000	12.7500	2.2500	8.9250	3.8250


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25	COIMBATORE INSTITUTE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	Veerakumar Adaikala samy	Start Up /Employed/Others	Development of Evacuated Tube Solar Air Collector Equipped with Wire Mesh for Direct Air Heating in Selected Agricultural Products	15.1000	12.4100	2.6900	8.6870	3.7230
26	G.L. Bajaj Institute of Technology and Management	Uttar pradesh	PAWAN KUMAR GUPTA	Start Up /Employed/Others	Air purification and air conditioning by liquid mechanism.	10.1000	8.5850	1.5150	6.0100	2.5755
27	Gayatri Vidya Parishad College of Engineering	Andhra pradesh	Ilahi Shaik	Start Up /Employed/Others	Marine Macro algae - a liquid agro bio fertilizer Plant for commercialization.	12.0000	10.2000	1.8000	7.1400	2.8600
28	Gayatri Vidya Parishad College of Engineering	Andhra pradesh	Pragada Venkata Vinay	Start Up /Employed/Others	Low cost manual tuber vegetable product cleaning machine	3.2000	2.7200	0.4800	1.9040	0.8160
29	Haldia Institute of Technology	West bengal	Radharani Das	Start Up /Employed/Others	Production of SiO ₂ Nano Powder from Rice Husk (Crop Residue) for its Industrial Uses Waste to Wealth	15.0000	12.7500	2.2500	8.9250	3.8250
30	Hindusthan College of Engineering and Technology	Tamil nadu	Jayanthi S	Entrepreneurs /MSME	Smart Coconut Harvesting Device	12.5000	10.6250	1.8750	7.4380	3.1875
31	Hindusthan College of Engineering and Technology	Tamil nadu	Ras Mathew Yanose	Entrepreneurs /MSME	Wind Turbine (Tail Guided Vertical Axis)	14.0000	11.9000	2.1000	8.3300	3.5700
32	IIMT University Meerut	Uttar pradesh	AJAY PARTAP SINGH	Start Up /Employed/Others	STEERING CONTROLLED HEADLIGHT- two headlights for any vehicle, one is moveable with steering and another will be fixed and give the front visibility	14.2000	12.0700	2.1300	8.4490	3.6200



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सूक्ष्म, लघु, एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
विभाग कार्यालय (सू. ल. एवं म. उद्यम) का कार्यालय
Office of the Dy. Commr. (MSME)
विश्वविद्यालय, नई दिल्ली-110 108 / Noida Bhawan, New Delhi-110108

33	IIMT University Meerut	Uttar pradesh	Sandeep Kumar Verma	Start Up /Employed/Others	Solar Tree- an artificial solar structure that looks like sculptural trees and exists from small scale (size of a bonsai tree) to large scale (about the size of a wind turbine) power plant. It is an independent unit that produces green energy and provides a place of comfort and energy for a wide variety of services	14.7000	12.4950	2.2050	8.7470	3.7470
34	Inderprastha Engineering College	Uttar pradesh	Ankur Kumar Kushwaha	Student	TripPay - paying the fare in autorickshaws by using NFC. (Near Field Communication)	12.0000	12.0000	0.0000	8.4000	2.6000
35	Inderprastha Engineering College	Uttar pradesh	Aryan Singhal	Student	The Virtual Eye for visually impaired people	15.0000	15.0000	0.0000	10.5000	2.8000
36	Institute of Aeronautical Engineering	Telangana	Varanasi Sai Hrishikesh	Student	Well Being- an advanced machine learning and artificial intelligence tool to analyze and assess the state of mind of an individual	9.2000	9.2000	0.0000	6.4400	2.7600
37	ISF College of Pharmacy	Punjab	Pooja Chawla	Start Up /Employed/Others	Synthesis of Acetaminophen (Paracetamol) in one step A novel approach	17.5000	11.9000	5.6000	8.3300	3.5700
38	ISF College of Pharmacy	Punjab	Rohit Bhatia	Start Up /Employed/Others	Development of Electrochemical Device for Detection of Glucose levels in Human Saliva	20.0000	12.7500	7.2500	8.9250	3.8250
39	Jerusalem College of Engineering	Tamil nadu	JOHN JEBARA THINA MN	Start Up /Employed/Others	Air conditioner cum Air Sterilizer	7.5000	6.3750	1.1250	4.4630	1.9125
40	Jerusalem College of Engineering	Tamil nadu	Parameswari	Start Up /Employed/Others	Multi-Functional Blind Stick for Visually Impaired People	1.5000	1.2750	0.2250	0.8930	0.3825

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41	Jerusalem College of Engineering	Tamil nadu	S Prabakaran	Entrepreneurs /MSME	Unmanned Aquatic Drone -Underwater drones are used for underwater inspections of ships, pipelines and aquaculture. Underwater drones have huge potential in military applications.	11.0000	9.3500	1.6500	6.5450	2.8050
42	Jharkhand Government Mini Tool Room Training Centre	Jharkhand	Saket Kumar	Entrepreneurs /MSME	OAS Well Drinking Water Purifier- to design a 'new generation domestic water purifier', using the novelties of Oa'S media, to avail 'Pure, Safe, and Healthy drinking water' in the households, at the low cost, irrespective of availability of electricity	15.0000	12.7500	2.2500	8.9250	3.8250
43	Jharkhand Government Mini Tool Room Training Centre	Jharkhand	SHALINI MAHATO	Start Up /Employed/Others	Smart Depression Monitoring System	15.0000	12.7500	2.2500	8.9250	3.8250
44	K.S.RANGASAMY COLLEGE OF TECHNOLOGY	Tamil nadu	Pasupathi V	Student	Design and Fabrication of NanoJacquard for Weaving machine	14.5000	14.5000	0.0000	10.1500	4.3500
45	K.S.RANGASAMY COLLEGE OF TECHNOLOGY	Tamil nadu	SHEEBAM	Student	SAFE TECH PEN - The gadget is mainly proposed for women's safety used in emergency times to get rid of the intruders	7.3000	7.3000	0.0000	5.1100	2.1900
46	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL	Telangana	BARGURAGHU	Student	Design and Fabrication of Reaper And Binder Machine for Leafy Vegetables	15.0000	15.0000	0.0000	10.5000	4.5000
47	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL	Telangana	Veerati Raju	Start Up /Employed/Others	Real time parking space identification using Computer vision in Smart cities	16.4000	12.7500	3.6500	8.9250	3.8250
48	Kasegaon Education Societys Rajarambapu Institute of Technology	Maharashtra	Omkar Murlidhar Mirajkar	Student	Advanced poultry raking and manure collection machine	5.8000	5.8000	0.0000	4.0600	1.7400

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49	KINGS ENGINEERING COLLEGE	Tamil nadu	Saravana Ilangovan	Entrepreneurs /MSME	Food Processing in Transportation using Phase change Material (PCM) Technology	15.0000	12.7500	2.2500	8.9250	3.8250
50	KIT College of Engineering, Autonomous, Kolhapur	Maharashtra	Sangram Vikas Patil	Entrepreneurs /MSME	Sugarcane Planting Machine	14.0000	11.9000	2.1000	8.3300	3.5000
51	Kongunadu College of Engineering and Technology	Tamil nadu	Sasikala Rajesh	Entrepreneurs /MSME	A Novel Process for recycling Post-Consumer PLA (Poly Lactic Acid) Waste for Sustainable Production of Methyl Lactate by catalytic Methanolysis.	24.9200	12.7500	12.1700	8.9250	3.8250
52	KPR Institute of Engineering and Technology	Tamil nadu	Chandrapraba S	Start Up /Employed/Others	Navigation Assistance Tool	14.5000	12.3250	2.1750	8.6280	3.6975
53	KPR Institute of Engineering and Technology	Tamil nadu	GOWTHAM SEKAR	Start Up /Employed/Others	Tracking of Childs nutritional status and physical health (well-being)	5.4000	4.5900	0.8100	3.2130	1.3770
54	KPR Institute of Engineering and Technology	Tamil nadu	IMAYAGANESH S	Start Up /Employed/Others	A drone using Autodesk Fusion 360 Software for Disaster Mitigation and Relief	11.0400	9.3840	1.6560	6.5690	2.8152
55	KPR Institute of Engineering and Technology	Tamil nadu	Satheesh Kumar Shanmugam	Start Up /Employed/Others	Modern electrophoresis device for early detection of sickle cell anaemia among the tribal communities in India	14.5000	12.3250	2.1750	8.6280	3.6975
56	KPR Institute of Engineering and Technology	Tamil nadu	SENTHIL KUMAR R	Start Up /Employed/Others	A Bio-Medical Device for Health Care Application Design and Development of Polylactic Acid (PLA) Polymer Based Invasive Cannula Sensor to Monitor Patients Invasive Blood Pressure (BP), Temperature, Electrocardiography	13.5000	11.4750	2.0250	8.0330	3.4425
57	KUPPAM ENGINEERING COLLEGE	Andhra Pradesh	J BHAVYASRI	Student	GreenDoctor A Reliable Food Toxic detector.	15.0000	15.0000	0.0000	10.5000	4.5000



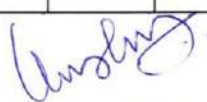
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58	Madanapalle Institute of Technology and Science	Andhra Pradesh	SHARWAN RAM	Start Up /Employed/Others	Unmanned Aerial System for acquisition of crime evidences	9.7300	8.2700	1.4590	5.7890	2.4810
59	Mahendra Engineering College	Tamil nadu	Sivakumar Ponmalai	Entrepreneurs /MSME	Design and Fabrication of Automatic Poultry Feeder Cum Egg Collector Using AI	12.0000	10.2000	1.8000	7.1400	3.0600
60	MALLA REDDY ENGINEERING COLLEGE	Telangana	Ganesh Rao Duddu	Student	Develop a smart application to monitor the health of roads and trigger the reports to concern authorities for maintenance.	16.5000	15.0000	1.5000	10.5000	4.5000
61	Manipal Academy of Higher Education, Manipal	Karnataka	Rudra Nath Ghosh	Entrepreneurs /MSME	Production of Mesenchymal stem cell-laden hydrogel dressing (Derma-heal) for wound management.	15.0000	12.7500	2.2500	8.9250	3.8250
62	Mar Ephraem College of Engineering and Technology	Tamil nadu	ANISH JOHN PAUL M	Start Up /Employed/Others	Coconut Leaf Midrib Extractor	15.0000	12.7500	2.2500	8.9250	3.8250
63	Marathwada Accelerator for Growth and Incubation Council	Maharashtra	Sunil Kulbhushan Sahuji	Entrepreneurs /MSME	Device for atraumatic removal of dental crowns and bridges	9.3000	7.9050	1.3950	5.5340	2.3715
64	MATRUSRI ENGINEERING COLLEGE	Telangana	Nagul Shribala	Start Up /Employed/Others	Battery Health Management System	2.3000	1.9550	0.3450	1.3690	0.5860
65	MATRUSRI ENGINEERING COLLEGE	Telangana	shaik haseena begum	Student	Seed Planting Robot	2.5000	2.5000	0.0000	1.7500	0.7500
66	MM College of Pharmacy	Haryana	Neera batra	Start Up /Employed/Others	An Automated Car Window Opening System on Detection of Carbon Monoxide	14.7500	12.5380	2.2130	8.7770	3.7614
67	NANDHA ENGINEERING COLLEGE	Tamil nadu	Krishna Gandhi Pachappan	Start Up /Employed/Others	Smart Solar Waste Segregation and Management System using Internet of Things	14.7500	12.5380	2.2120	8.7770	3.7605
68	NATIONAL ENGINEERING COLLEGE	Tamil nadu	A Saravana selvan	Start Up /Employed/Others	An Intelligent Device to classify organic and non organic fruit and vegetable items using Non - Destructive Infrared Thermography Technique	9.0000	7.6500	1.3500	5.3550	2.2950


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69	Pandit Deendayal Energy University	Gujarat	Aditya Suraj Shukla	Entrepreneurs /MSME	Solar Pavement Green Building Material from recycled Plastic Waste	15.0000	12.7500	2.2500	8.9250	3.8250
70	Pandit Deendayal Energy University	Gujarat	Aditya Suraj Shukla	Entrepreneurs /MSME	Composite Road Slab (Modular Smart Road) - Air purifier paver block leads to minimization of air pollution that hereby decreases the harmful effects of those gases to a certain extent by photocatalysis	15.0000	12.7500	2.2500	8.9250	3.8250
71	Pandit Deendayal Energy University	Gujarat	Shani Chandrakant Pandya	Entrepreneurs /MSME	Solar Powered Drone Charging Station for the Armed forces and delivery of Courier	15.0000	12.7500	2.2500	8.9250	3.8250
72	QIS College of Engineering and Technology	Andhra Pradesh	Madduri Chandra keerthi	Student	A SMART HELMET	5.0000	5.0000	0.0000	3.5000	1.5000
73	Ramco Institute of Technology	Tamil nadu	Arun Kumar A	Start Up /Employed/Others	LED Powered Endo Illuminator for Vitreous Surgery	14.5000	12.3250	2.1750	8.6280	3.6970
74	Ramco Institute of Technology	Tamil nadu	Ashokkumar Mariarathinam	Start Up /Employed/Others	Portable Rotary Fluidized bed Heat Pump Dryer for Herbal Leaves	15.0000	12.7500	2.2500	8.9250	3.8250
75	Ramco Institute of Technology	Tamil nadu	Pavithran P	Start Up /Employed/Others	Multipurpose Wheel chair	1.8280	1.5540	0.2740	1.0880	0.4661
76	Ramco Institute of Technology	Tamil nadu	Santhana Maruthu Pandian Maruthappan	Start Up /Employed/Others	MUSA-Holder (To protect Banana Trees from heavy winds)	12.8750	10.9430	1.9310	7.6600	3.2829
77	Rathinam Technical Campus	Tamil nadu	RAMAN RADHA KRISHNAN	Start Up /Employed/Others	Adhesive Non Surgical Hearing device	14.6000	12.4100	2.1900	8.6870	3.7230
78	RMK ENGINEERING COLLEGE	Tamil nadu	Mithun Balaji	Student	Made in And for India Freelancing Portal-To create the demand for freelance job roles be able to known by every Unemployed people with their unique skills	13.2000	12.2000	1.0000	8.5400	3.6600


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79	Saveetha Engineering College	Tamil nadu	Ganapati Durairaj	Start Up /Employed/Others	Design, Development and Field Evaluation of Power Operated Cono-Weeder for System of Rice Intensification	2.2500	1.9120	0.3370	1.3380	0.5736
80	Sengunthar Engineering College	Tamil nadu	S LAKSHMI PRIYA	Start Up /Employed/Others	Nanowizard - Herbal Nanovesicles Based Bio Fertiliser For Agricultural Applications.	15.0000	12.7500	2.2500	8.9250	2.4900
81	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	A Sabah Afroze	Start Up /Employed/Others	Improvised Odourless Napkin Disposal Machine	15.0000	12.7500	2.2500	8.9250	3.8250
82	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	A Sabah Afroze	Start Up /Employed/Others	Accurate classification and detection of Osteoarthritis in Knees using thermal images	15.0000	12.7500	2.2500	8.9250	3.8250
83	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	Akilandswari V	Start Up /Employed/Others	Smart Assistive Robot for Hearing Impaired Children	15.0000	12.7500	2.2500	8.9250	3.8250
84	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	Brindha	Student	BIOPOLYMER FOR ECOFRIENDLY BAGS - Water-soluble bags are made from a derivative composed of polyvinyl alcohol (PVA) and organic plastics (water-soluble synthetic polymer) which dissolve in contact with water	11.0000	11.0000	0.0000	7.7000	3.3000
85	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	S Siva Ranjani Sankar Ganesh	Start Up /Employed/Others	Automated Bagging Machine for the Oyster Mushroom Cultivation	15.0000	12.7500	2.2500	8.9250	3.8250
86	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	Seeni Mohamed Aliar Maraikkayar S M	Start Up /Employed/Others	Bionic Arm for Amputees	15.0000	12.7500	2.2500	8.9250	3.8250
87	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	SRIVARSHINI SETHU RAMAN	Student	Live wire current detector from 2-5 meters(LTLC Detector)	10.7500	10.7500	0.0000	7.5250	3.2250

88	SETHU INSTITUTE OF TECHNOLOGY	Tamil nadu	Venkat M	Student	Tyre Pressure Regulator - it fills air in the tyre of the vehicle in both static and dynamic condition. So no need to stop vehicle in any unsafe area	15.0000	15.0000	0.0000	10.5000	4.5000
89	SPHOORTHY ENGINEERING COLLEGE	Telangana	SUSHANT KUMAR TIWARI	Start Up /Employed/Others	Protective Face Shield for Municipal Corporation Workers	15.0000	12.7500	2.2500	8.9250	3.8250
90	Sri Krishna College of Technology	Tamil nadu	D.Mohit Kumar	Student	Robotic arm with sensing and anti-drone technology to secure the border	14.5000	14.5000	0.0000	10.1500	3.8500
91	Sri Krishna College of Technology	Tamil nadu	HariPriya Pachamuthu	Student	Fish Feeding and Disease Prediction System using Machine Learning	8.5000	8.5000	0.0000	5.9500	2.5500
92	Sri Krishna College of Technology	Tamil nadu	VIJAYANDRAHARI AP	Student	Smart Vest for Coal Mine Workers	15.0000	15.0000	0.0000	10.5000	4.5000
93	Sri Ramakrishna Engineering College	Tamil nadu	JEEVIKA KRISHNAN	Student	IoT based coal mine safety and health monitoring system using lora	15.3300	15.0000	0.3300	10.5000	4.5000
94	Sri Sri University	Odisha	Ayush Sharma	Start Up /Employed/Others	Plant-Based Meat Alternative. To eliminate animals birds from the food supply chain but not compromise on the taste, texture functional benefits of meat.	15.0000	12.7500	2.2500	8.9250	3.8250
95	St Josephs College of Engineering	Tamil nadu	Sharfaras J	Student	Electric Shock Accident Prevention System (E-SAPS)	12.0000	12.0000	0.0000	8.4000	3.6000
96	St Josephs College of Engineering	Tamil nadu	Sivaranjani G	Student	Saffron cultivation using assorted modern techniques	8.7500	8.7500	0.0000	6.1250	2.5000
97	St Josephs College of Engineering	Tamil nadu	Venkateshbabu R	Student	Solarboat	14.0000	14.0000	0.0000	9.8000	4.2000
98	ST. MARTINS ENGINEERING COLLEGE	Telangana	KONGA BHARATHI	Student	Development of Horticultural Manned Robot for Ripe Mango Fruit Plucking	11.0000	11.0000	0.0000	7.7000	3.3000

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99	ST. MARTINS ENGINEERING COLLEGE	Telangana	Patil Snehalatha	Start Up /Employed/Others	Economical Design of the Slab by Using HDPE Balls -Bubble Deck slab is one of these techniques which reduce the volume of concrete in a structure or structural element by introduction of High Density PolyEthylene (HDPE).	8.7500	7.4380	1.3130	5.2070	2.2300
100	ST. MARTINS ENGINEERING COLLEGE	Telangana	SIRASALA NAVEEN	Student	Plastic Pavement Blocks	11.0000	11.0000	0.0000	7.7000	3.3000
101	St.Josephs Institute of Technology	Tamilnadu	GNANA KOUSALYA C	Start Up /Employed/Others	Passageway Devices of Fishing Vessels	12.5000	10.6250	1.8750	7.4380	3.1875
102	SURYA GROUP OF INSTITUTIONS - SCHOOL OF ENGINEERING AND TECHNOLOGY	Tamilnadu	M SANKAR	Start Up /Employed/Others	Fabrication of Light Weight Magnesium Nano Composite Material for Automobile and Aerospace Applications	7.8500	6.6720	1.1780	4.6700	2.0016
103	Swami Keshvanand Institute of Technology, Management and Gramothan	Rajasthan	Pooja Choudhary	Start Up /Employed/Others	IoT-AI Based Smart Irrigation System	15.0000	12.7500	2.2500	8.9250	3.2537
104	TKR College of Engineering and Technology	Telangana	Boddukanthi Karthik Kumar	Student	Smart Wearables for Rescuers And Victims	8.0000	8.0000	0.0000	5.6000	2.4000
105	TKR College of Engineering and Technology	Telangana	PERIKENOSH	Start Up /Employed/Others	Unmanned surface vehicle for defense and civilian application - to built a vessel which will not come to the shore again which only transmit required by surveillance	20.0000	12.7500	7.2500	8.9250	3.7750
106	Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology	Telangana	PRAKASH KODALI	Start Up /Employed/Others	Screening of Salt Tolerance in Plants using Internet of Things and Machine Learning	18.0000	12.7500	5.2500	8.9250	3.8250
107	Velammal Institute of Technology	Tamilnadu	B SRIDEVI	Entrepreneurs /MSME	REDPAL- A Wristwatch based assistance for old age people	9.7500	8.2870	1.4620	5.8010	2.4861

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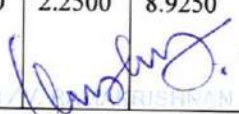
108	Velammal Institute of Technology	Tamil nadu	DINESH KUMAR CHAND HRASE KARAN	Entrepreneurs /MSME	Long Endurance Battery Operated Agriculture Spray Drone	12.5000	10.6250	1.8750	7.4380	3.1875
109	Velammal Institute of Technology	Tamil nadu	Giri J	Entrepreneurs /MSME	AUTOMATIC VIBRO POLISHING SYSTEM - a technique for automating the mechanical and chemical finishing of diverse shaped items	13.4150	11.4030	2.0120	7.9820	3.4209
110	Velammal Institute of Technology	Tamil nadu	Shanmug araj G	Start Up /Employed/Others	A Laser stimulated touch responsive frame for non-touch screen laptops	5.5000	4.6760	0.8260	3.2730	1.4028
111	Vels Institute of Science, Technology and Advanced Studies	Tamil nadu	ANAND AN R	Start Up /Employed/Others	Reconnaissance of Geospatial Mapping To Navigate Person In Multipath Indoor Environment Using Virtual Reality In Airport	17.0000	12.7500	4.2500	8.9250	3.8250
112	Vels Institute of Science, Technology and Advanced Studies	Tamil nadu	BRIND HA DEVI P	Start Up /Employed/Others	Sustainable Use of Fruit and Vegetable waste to Enhance Food Packaging Performance	15.0000	12.7500	2.2500	8.9250	3.8250
113	Vels Institute of Science, Technology and Advanced Studies	Tamil nadu	Shanmug araj A M	Start Up /Employed/Others	Self - healing anticorrosive nanocomposite coatings on metal - a technology in controlling metallic corrosion using polymer based nanocomposites and thereby improving the life span of the metals, which are exposed to harsh environments	15.0000	12.7500	2.2500	8.9250	3.8250
114	VIDYA JYOTHI INSTITUTE OF TECHNOLOGY	Telanga na	R Raju nayak	Student	DarzaniyaSyuta - Smart Wearable Handbag for Women Safety	10.7200	10.7200	0.0000	7.5040	3.2160
115	Vinayaka Missions Kirupananda Variyar Engineering College	Tamil nadu	Raja Subrama ni	Student	Birds and Animals Intrusion Avoidance System using IOT to reduce the crop losses in Agriculture	10.0000	10.0000	0.0000	7.0000	3.0000
116	Vishnu institute of pharmaceutical education and research	Telanga na	Gowrish etty Srinivas	Start Up /Employed/Others	Development of a novel air purifier for destroying COVID, other virus, bacteria and indoor air pollutants	12.0000	10.2000	1.8000	7.1400	3.0600

117	Vishnu institute of pharmaceutical education and research	Telangana	Velivela Venkata Shiva Rajendra Prasad	Start Up /Employed/Others	Development of an affordable test kit for early detection of colon cancer and GIT disorders	13.8000	11.7300	2.0710	8.2110	3.5190
118	Dr MGR Educational and Research Institute	Tamil nadu	JAWAHAR PRAKASH M	Student	DUAL FILAMENT EXTRUDER IN 3D PRINTING WITH DUAL HOT END EXTRUSION -A dual extruder 3D printer is an FDM-type 3D printer with two extruders. Each extruder can print with a different filament material.	15.0000	15.0000	0.0000	10.5000	4.5000
119	Dr MGR Educational and Research Institute	Tamil nadu	R Logeswaran	Student	Energy Efficient Pervaporative Thermal Management System for electric vehicle batteries- The proposed solution qualitatively provides cooling at uncertain conditions even when the system lacks power supply.	13.4000	13.4000	0.0000	9.3800	2.0100
120	Haldia Institute of Technology	West bengal	Mukesh Singh	Start Up /Employed/Others	Development of nano-composite film as a packaging material enhancing shelf-life and sensing microbial contamination of cut vegetables and fruits	15.0000	12.7500	2.2500	8.9250	3.8250
121	Haldia Institute of Technology	West bengal	Siddhartha Samanta	Start Up /Employed/Others	Conducting polymer based water purifiers that are removed heavy metal ions such as As(V), As(III), Pb(II), Hg(II), Cr(VI) from waste water.	15.0000	12.7500	2.2500	8.9250	3.8250
122	ICAR-Central Research Institute for Jute and Allied Fibres	West bengal	Piyali Dey	Student	Development of fire retardant jute fibre by nano-coating	15.0000	15.0000	0.0000	10.5000	4.5000
123	INSTITUTE OF PHARMACY & TECHNOLOGY SALIPUR	Odisha	SIDHARTHA SANKAR KAR	Start Up /Employed/Others	A new and improved industrially viable manufacturing process for Gabapentin	15.0000	12.7500	2.2500	8.9250	3.8250
124	karpagam college of engineering	Tamil nadu	Bharanidharan S	Student	Fabrication of Bio-Based Films from Plant Mucilages for Food Preservation	15.0000	15.0000	0.0000	10.5000	4.5000

125	Ramco Institute of Technology	Tamil nadu	M Kanagas abapathy	Start Up /Employed/Others	Cost Effective Fabrication of Hybrid Capattery with High Energy Density and Power Density as an Energy Storage Device	12.8000	10.8800	1.9200	7.6160	3.2640
126	Sri Ramakrishna Engineering College	Tamil nadu	DHARM ASEEL AN K	Student	Stress Buster for detecting and reducing mental stress automatically	17.0000	15.0000	2.0000	10.5000	4.5000
127	Yenepoya Deemed to be University	Karnataka	Vivek Ghate	Start Up /Employed/Others	Localized Delivery of Cyclosporine-A to Cause Thickening o the Peri-Implant Mucosa during the Placement of Dental Implants	13.0000	11.0500	1.9500	7.7350	3.3150
128	KONERU LAKSHMAIAH EDUCATION FOUNDATION	Andhra pradesh	Burra V L S Prasad	Start Up /Employed/Others	Technology development for faster, cheaper and diverse single domain antibodies for disease prognostics, diagnostics and thernognostics.	18.0000	12.7500	5.2500	8.9250	3.8250
129	KONERU LAKSHMAIAH EDUCATION FOUNDATION	Andhra pradesh	Kishore Bodagala	Entrepreneurs /MSME	AI-based Portable Track Geometry Measurement System - Railway track defect detection	22.0000	12.7500	9.2500	8.9250	3.8250
130	M.Kumarasamy College of Engineering	Tamil nadu	JEYAG ANESH KUMAR KAILAS AM	Start Up /Employed/Others	J.A.R.V.I.S Virtual Assistant for the Divyangjan	1.9600	1.6660	0.2940	1.1660	0.4998
131	Shri Madhwa Vadiraja Institute of Tehnology and Management	Karnataka	Sachin Sadashiv Bhat	Start Up /Employed/Others	Magnetic Surgical Sponge Detection System	11.5000	9.7750	1.7250	6.8430	2.9325
132	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	Gobinath Arumugam	Start Up /Employed/Others	Artificial Intelligence Enabled robotic stacker for Mechanized Distribution of food grains	8.6700	7.3700	1.3010	5.1590	2.2110
133	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	Jothi vignesh Ramamorthy	Student	PORTABLE TOOL HOLDING DEVICE FOR FRICTION WELDING MACHINE - to design a tool holding device which simplifies the work and improve the accuracy of the welding.	1.4600	1.4600	0.0000	1.0220	0.4380

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 Ministry of Micro, Small & Medium Enterprise
 (उद्योग विकास वि. सं. एवं म. उद्योग) का कार्यालय
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134	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	Rajeswar i P	Start Up /Employed/Others	Artificial Intelligence Enabled Assist for Visually Impaired Movements	7.6500	6.5030	1.1470	4.5520	1.9509
135	Visva-Bharati University	West bengal	Piyali Dey	Student	Development of nano-sulphur for controlling yellow mite in different crops	15.0000	15.0000	0.0000	10.5000	4.5000
136	Dr. Ambedkar Institute of Technology	Karnataka	Haripriya Sumana Gosakan	Start Up /Employed/Others	Rapid and economical manufacturing process for carbon fiber prosthetic foot for amputees	15.0000	12.7500	2.2500	8.9250	3.8250
137	Dr. Ambedkar Institute of Technology	Karnataka	Samarth Magod	Start Up /Employed/Others	Solar Powered Thermoelectric Refrigerator	15.0000	12.7500	2.2500	8.9250	3.8250
138	Francis Xavier Engineering College, Tirunelveli, Tamil Nadu	Tamil nadu	C SUBARAJ	Start Up /Employed/Others	Sustainable Design and Development of Extraction with Palmyra Palm Pulp System	7.0000	5.9500	1.0500	4.1650	1.7850
139	Francis Xavier Engineering College, Tirunelveli, Tamil Nadu	Tamil nadu	KANNA N M	Start Up /Employed/Others	Solar Tracker for Heavy Solar Collectors (Dual axis method)	12.0000	10.2000	1.8000	7.1400	3.0600
140	GIET UNIVERSITY	Odisha	Sambit Sahoo	Entrepreneurs /MSME	Banking National Security and Governance with Biocode -It is a combination of 8 complex biometrics, integrated software system, AI/ML, block chain and big data analytics to map an individuals identity for making a secure financial transactions without mobile, cards, OTP, PIN, password etc.	15.0000	12.7500	2.2500	8.9250	3.8250
141	KONERU LAKSHMAIAH EDUCATION FOUNDATION	Andhra pradesh	Burra V L S Prasad	Start Up /Employed/Others	Design and Development of HH (Healthy Healers (TM)) Foot wearables	15.0000	12.7500	2.2500	8.9250	3.8250
142	KONERU LAKSHMAIAH EDUCATION FOUNDATION	Andhra pradesh	GANDURI VENKATA SIVA RAMAKRISHNA	Start Up /Employed/Others	Agro-industrial residues utilization for economical production of Levam biopolymer	15.0000	12.7500	2.2500	8.9250	3.8250


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143	KONERU LAKSHMAIAH EDUCATION FOUNDATION	Andhra pradesh	Prakash Kodali	Start Up /Employed/Others	Smart Electronic Handheld Device for Non-Invasive Drug Delivery	15.0000	12.7500	2.2500	8.9250	3.8250
144	Sona College of Technology	Tamil nadu	Adesh Vijayara ghan	Student	Fabrication of IOT Based Hydrophobic Coating Kit using Acid Erosion Method- to manipulate IoT based system for acid etching and to promote superhydrophobic surface with greater surface finish for the material	15.0000	15.0000	0.0000	10.5000	3.5000
145	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	AATHI J	Student	EGG CLEAVER -an automated machine that helps in breaking the eggs and separating the yolk and albumen	14.0000	14.0000	0.0000	9.8000	3.5700
146	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	Babu Karuppiah	Start Up /Employed/Others	Lifesaving IoT based hazardous gas monitoring and drainage block detection system to prevent manual scavenging.	15.0000	12.7500	2.2500	8.9250	3.8250
147	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Tamil nadu	Kamatchi Thirupathi	Start Up /Employed/Others	SMART CPR (Cardiac Resuscitation Device)	14.9500	12.7080	2.2430	8.8960	3.8120
148	BANASTHALI VIDYAPITH	Rajasthan	MINUS HRI MADHUMITA	Entrepreneurs /MSME	Dhivara Mitra - Integrated, Floatable Solar solution for Fish and Prawn Farming	18.0000	12.7500	5.2500	8.9250	3.8250
149	BANASTHALI VIDYAPITH	Rajasthan	Saumya Rawat	Entrepreneurs /MSME	Rapid soil testing and fertilizer recommendation powered by AI	15.0000	12.7500	2.2500	8.9250	3.8250
150	Engineering Staff College of India	Telangana	Banavathu venkata krishna prasad	Entrepreneurs /MSME	VR Assisted Tele-Operated Robotic Ultrasound System	9.7000	8.2450	1.4550	5.7720	2.4735
151	Entrepreneurship Development Institute of India	Gujarat	Prajapati Kush Kirtikumar	Start Up /Employed/Others	RedicineMedsol Smart Pill Box (IoT based pills storage)	21.2000	12.7500	8.4500	8.9250	3.8250
152	Gokaraju Rangaraju Institute of Engineering and Technology	Telangana	CH subba lakshmi	Entrepreneurs /MSME	Design and Development of Smart and Sustainable Onboard charger for Electric Vehicle	18.0000	12.7500	5.2500	8.9250	3.8250

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 Ministry of Micro, Small & Medium Enterprises
 (विद्युत आपूर्ति, नवीनीकरण एवं शक्ति)
 Office of the Dy. Director (MSE)
 प्लॉट नं. 10, बंगला 10, एन.ए. रोड, दिल्ली-110002

153	Gokaraju Rangaraju Institute of Engineering and Technology	Telangana	Dogga Raveendra	Start Up /Employed/Others	Capacitor Clamped Boost Inverter for on-grid Solar PV Applications	15.0000	12.7500	2.2500	8.9250	3.8250
154	Gokaraju Rangaraju Institute of Engineering and Technology	Telangana	G Ramesh	Start Up /Employed/Others	AI based Action and Gesture Recognition Framework for Children Diagnosed with Cerebral Palsy in children	15.0000	12.7500	2.2500	8.9250	3.8200
155	Gokaraju Rangaraju Institute of Engineering and Technology	Telangana	Sakhineti Mounika	Entrepreneurs /MSME	Smart Wheel chair with Robotic ARM	14.1000	11.9850	2.1150	8.3900	3.5150
156	Gokaraju Rangaraju Institute of Engineering and Technology	Telangana	TATA JOGI VENKATA VISWANATH	Start Up /Employed/Others	Consumer Appliance - A smart automatic breakfast (idli) maker	15.0000	12.7500	2.2500	8.9250	3.8250
157	I.T.S Engineering College, Greater Noida	Uttarpradesh	Jeevesh Gupta	Start Up /Employed/Others	Continuously Variable Generator with Electro-Mechanical Synchronization (CV Gen with EM Sync) - Feedback based - optimization of fuel consumption according to the load conditions without hampering other parameters of electricity.	10.5000	8.9250	1.5750	6.2480	2.6775
158	Indian Institute of Information Technology Kottayam	Kerala	P D VARGHESE	Entrepreneurs /MSME	Integrated Medical Alert Communication System	15.0000	12.7500	2.2500	8.9250	3.8250
159	Indian Institute of Information Technology Kottayam	Kerala	P Victor Paul	Start Up /Employed/Others	AutoHire - An AI-Based Automated Technical Interview Solution - Create a web-based solution to conduct virtual technical interviews with the candidates, To evaluate the interview using AI without any human intervention	15.0000	12.7500	2.2500	8.9250	3.8250
160	SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE	Andhra Pradesh	Penmetra Lakshmi Pranathi	Student	Smart Vision- Smart Glass device Designed for the blind and low vision	15.0000	15.0000	0.0000	10.5000	4.5000

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सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय

Ministry of Micro, Small & Medium Enterprises

विद्या भवन (सू. उ. एवं म. उद्यम) का कार्यालय

Office of the Dy. Commr. (MSME)

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161	SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE	Andhra Pradesh	Vendra Sri Venkata Veeranna Neelesh	Student	Underwater drone for welding -perform underwater inspection and repair of pipelines, underwater structures and vessels	3.5000	3.5000	0.0000	2.4500	1.0500
162	University College of Technology	Telangana	Thati Jyothi	Start Up /Employed/Others	Waste water treatment electricity production using Microbial fuel cell - to treat industrial waste /organic waste and generate electricity.	15.0000	12.7500	2.2500	8.9250	3.8250
163	Meerut Institute of Engineering and Technology	Uttar Pradesh	Shalini Rana	Student	Biodegradable Diapers with Safe Wetness Indicator	18.5000	15.0000	3.5000	10.5000	4.5000
164	SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE	Andhra Pradesh	BHAMA IDIPATI V N S S S R MAHEE DHAR	Student	Drones In Disaster Management	8.0000	8.0000	0.0000	5.6000	1.8250
165	IIS Deemed to be University	Rajasthan	Mahesh Chand Sharma	Start Up /Employed/Others	Design and Development of Smart Self-Cleaning Solar Panel System	15.0000	12.7500	2.2500	8.9250	3.8250
166	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION	Tamil Nadu	B.Perumal	Start Up /Employed/Others	MatsyaRakshak Multilingual IoT based Assist Device for Pisciculture farmers	15.0000	12.7500	2.2500	8.9250	3.8250
167	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION	Tamil Nadu	Murugeswari Anantha kumar	Start Up /Employed/Others	Smart IoT Based Mushroom Cultivation and Edibility Prediction	15.0000	12.7500	2.2500	8.9250	3.8250
168	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION	Tamil Nadu	Theivasanthi Sankar	Entrepreneurs /MSME	Lithium Sulphur Battery by Solid State Synthesis method to improve its life and performance	15.0000	12.7500	2.2500	8.9250	3.8250
169	KSRM COLLEGE OF ENGINEERING	Andhra Pradesh	Gajjala Navya Tejasree	Student	Image text to multilingual languages using smart glasses	8.0000	8.0000	0.0000	5.6000	2.4000
170	KSRM COLLEGE OF ENGINEERING	Andhra Pradesh	Lakkiredy Saiprana varshitha	Student	Self Powered GPS Tracker -self powered intelligent GPS tracking system is proposed and designed for the purpose of vehicle tracking and road surface monitoring	6.0000	6.0000	0.0000	4.2000	1.8000

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सूचना, सानु एवं मध्यम उद्यम विभाग

Ministry of Micro, Small & Medium Enterprises

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171	Sharda University	Uttar pradesh	sudhanshu sharma	Student	Smart Battery Management System for large Battery / EVs with Controller Area Network(CAN), Individual Cell Monitoring and Active Balancing	15.0000	15.0000	0.0000	10.5000	4.5000
172	Sharda University	Uttar pradesh	Sumanlata sharma	Start Up /Employed/Others	Low cost recycled biodegradable sanitary pads	5.0000	4.2500	0.7490	2.9750	0.4000
173	Christ University Kengeri	Karnataka	S K Aruna	Start Up /Employed/Others	Biodegradable Hydrogel gauze from Nano Sericin and Gelatin	21.0000	12.7500	8.2500	8.9250	3.8250
174	P.S.R ENGINEERING COLLEGE, SIVAKASI	Tamil nadu	S KABILAN	Entrepreneurs /MSME	Engineering Pichia pastoris for the production of recombinant Enterokinase	15.0000	12.7500	2.2500	8.9250	3.8250
175	Sharda University	Uttar pradesh	AMIT MALIK	Entrepreneurs /MSME	Automatic Slide Stainer for medical diagnostic laboratories which will automate the current process of manual slide staining	15.0000	12.7500	2.2500	8.9250	1.0000
176	Sharda University	Uttar pradesh	ANURAG SHARMA	Entrepreneurs /MSME	Rare Earth Magnet free traction motor for Electric Vehicles	15.0000	12.7500	2.2500	8.9250	3.8250
177	Yeshwantrao Chavan College of Engineering	Maharashtra	Vaishali Arun Mutyalwar	Entrepreneurs /MSME	Ceiling Fan Cleaning Device	9.4100	7.9980	1.4120	5.5990	2.3994
178	Indian Institute of Science	Karnataka	SAKTHI KUMAR	Entrepreneurs /MSME	On-Orbit Refueling for Satellites	11.4000	9.6900	1.7100	6.7830	2.9070
179	Indian Institute of Technology Jodhpur	Rajasthan	Thilak Chakravarthi. E	Student	Developing Endoscope Socket to provide uninterpreted endoscopic visual field to ENT doctor for diagnosing patients with minimal discomfort.	20.0000	15.0000	5.0000	10.5000	4.5000
180	Indian Institute of Science	Karnataka	Nitin Krishnan	Start Up /Employed/Others	Colwho - Electric powered modern sugarcane juice cart	9.6550	8.2070	1.4480	5.7450	2.4621

श्री. रामकृष्ण /V. RAMAKRISHNAN
 ज्येष्ठ निदेशक / Dy. Director
 भारत सरकार / Govt of India
 सूक्ष्म, लघु एवं मध्यम उद्यम विभाग
 Ministry of Micro, Small & Medium Enterprises
 (एन.डी.डी. नं. ११५५५, बंगलूरु का शहर)
 Bangalore, Karnataka-560015
 भारत सरकार, सूक्ष्म, लघु एवं मध्यम उद्यम विभाग

181	Indian Institute of Science	Karnataka	Vummadisetty Praveen Naidu	Entrepreneurs /MSME	Development of a low cost small satellites (NPHSAT SYSTEMS PVT LTD) -designing, research and development of new Printed Antennas used for Small Satellites such as CanSat, CubeSat etc, and also for portable advanced wireless communication applications	15.0000	12.7500	2.2500	8.9250	3.8250
182	S J C Institute of Technology	Karnataka	Levy	Start Up /Employed/Others	Design and Development of Novel System for the Early Detection of Human Heart Failure and Precautionary Measures for Life Saving	15.0000	12.7500	2.2500	8.9250	3.8250
Total						2413.99	2052.66	361.33	1436.874	602.1905



श्री. रामकृष्ण/V. RAMAKRISHNAN
उप निदेशक/Dy. Director
आयुक्त निदेशक/Chief of Insp.
सूचना, सूक्ष्म एवं मध्यम उद्यम विभाग
Ministry of Micro, Small & Medium Enterprises
विभाग कार्यालय (सू), अ. एडि. ए. इलाहाबाद कार्यालय
Office of the Dy. Commr. (MSME)
सूचना विभाग, नई दिल्ली-110004/Nitin Bhasin, New Delhi-110004

Guidelines for Establishment of Research Centres



Jawaharlal Nehru Technological University Hyderabad

Directorate of Research & Development

Kukatpally, Hyderabad - 500085, Telangana State, INDIA

2017

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1. INTRODUCTION

Jawaharlal Nehru Technological University Hyderabad (JNTUH) is focusing on research programmes on need-based technologies and solutions for societal problems. Accordingly, an independent Directorate of Research and Development (DRD) was established in the year 2005 to promote and monitor the research programmes of the University. The DRD administers Ph.D./M.Phil./M.S.(by Research) programmes in part-time and full time modes and monitors the research progress of the scholars.

The DRD coordinates with the Directorate of Admissions for selection and admission of research scholars, interfaces with Directorate of Evaluation for conduct of Pre-Ph.D. examinations and issue of provisional and original degree certificates, interacts with the constituent units of the University for academic activities of research degrees and also with Directorate of University Foreign Relations for the students of foreign nationals.

DRD conducts Research Review Meetings once in every six months to evaluate and monitor the progress of the scholars and conducts viva-voce examinations for the award of the Ph.D./M.Phil./M.S.(by Research) degrees in the faculties of Engineering, Science & Technology, Pharmacy, Management and Humanities & Social Sciences.

2. Policy of Research Centre

The University encourages the establishment of Research Centre at various levels of the organization that will enhance and facilitate disciplinary and interdisciplinary research collaboration, knowledge transfer and training. Faculty may be involved in one or more of the projects in a Research Centre and be active in more than one

research project. The University is committed to develop and maintain high-quality programs of research and encourages to have inter or multi-disciplinary faculty in carrying out research on societal needs. Presently, Directorate of Research and Development offers M.Phil., M.S. (by Research) and Ph.D. programmes in the following disciplines and the list of subjects may vary from year to year.

Sl. No.	Faculty	Subject
01	Engineering	Aeronautical Engineering
		Chemical Engineering
		Civil Engineering
		Computer Science & Engineering
		Electrical & Electronics Engineering
		Electronics & Communication Engineering
		Energy Systems
		Industrial Engineering
		Mechanical Engineering
		Metallurgical Engineering
		Transportation Engineering
		02
Chemistry		
Environmental Science & Technology		
Earth & Atmospheric Sciences		
Food Technology		
Mathematics		
Nano Science & Technology		
Pharmaceutical Sciences		
Physics		

		Spatial Information Technology
		Water Resources
03	Management	Management Sciences
04	Humanities & Social Sciences	English
		Physical Education

3. UNIVERSITY RESEARCH ADVISORY COMMITTEE

University has constituted University Research Advisory Committee (URAC) with the following objectives:

- To identify thrust areas, funding agencies, guiding and advising the University to go forward in research front.
- To guide the Departments to do research in thrust areas as identified by national and international research organisations.
- To identify gap areas in industry and to create the awareness for the sponsored and industrial research.
- To work as a bridge between University and Industry with special reference to attract the projects so as to generate internal revenue and to convert technical knowhow into operational mode with industry interface.
- To work on any other research related activities as directed by the University.
- To monitor and evaluate the progress of various Research Centres under the administrative control of the University.
- Any difference/discrepancy/issue may be placed before URAC for its recommendation to forward to the University for necessary approvals.

4. Definition and Purpose of Research Centre (RC)

Colleges / Institutions / Organisations may establish a centre for the purpose of undertaking research. This Centre conducts research programs, provide facilities and assistance for research and scholarly work, provide funds and advice the research students to provide a supportive infrastructure for interdisciplinary research.

A Research Centre must be complementary to the academic goals of the University, but does not have jurisdiction over courses or curricula and cannot offer formal courses. Research Centre must include faculty members working in a critical realm from one or more Departments. Research Centres are established with internal start-up funding and should generally become self-sustaining within three to five years.

A Research Centre shall have a group of staff in an established area of academic strength having a broader focus, recognized nationally and internationally. The Centre will bring together a critical mass of scholars, from different Departments for collaborative work in a clearly defined area over an extended period of time beyond the life of one specific project.

The functions of Research Centre are **a)** to facilitate research and research collaborations, **b)** to disseminate research results through conferences, meetings and other activities, **c)** to strengthen the research activities by providing students with training opportunities and access to facilities and **d)** to seek extramural research funds.

- The Centre will provide an institutional platform from which to successfully apply for grant support for projects, develop postgraduate research opportunities and establish groups of postdoctoral activity.
- A Research Centre may also be involved in other appropriate activities, such

as working with professionals and commercial or governmental organisations to improve professional practice and publishing reports, proceedings or monographs. In all publications / patents, if any, as the outcome of the Research should include the “JNTUH Research Centre” followed by College / Institute / Organisation as affiliation.

- Research Center facilitates the academic and research functions of college / institute. The overall goal of the Research Centre is to provide a platform for Research and Strategic partnerships, an opportunity to evaluate the performance of research activities and return on investment.
- The Research Center is accomplished through a recurring schedule of data gathering, analysis, goal setting, and reporting.

5. Objectives of Research Centre

Research Centre is expected to develop their own objectives and measurable goals to meet the purposes stated in this policy.

Some of the objectives of Research Centre are:

- To promote and facilitate collaborative and/or interdisciplinary research and enhancement of research networking capacity and infrastructure under the umbrella of Jawaharlal Nehru Technological University Hyderabad in Telangana State.
- To increase and effectively manage the resources and research support for its stakeholders.
- To provide education and training in research and related skills, especially for Post Graduate and undergraduate students and thereby enhance the academic quality.

- To contribute to the University's strategic educational and research missions and to support synergies between research, teaching and learning and consultancy services.
- To enhance the reputation of faculty members, the constituent academic units, and the University through the quality of research.

6. Categories of Research Centres:

- I. Research Centres in JNTUH affiliated engineering colleges/Institutions.
- II. Research Centres in Public Sector.
- III. Research Centres in Private Sector.

7. Research Centre Establishment

A proposal to establish a Research Centre shall be submitted in writing to the University in a prescribed form given in Annexure. After careful scrutiny of the application, University standing Committee for recognition of Research Centres will visit the College / Institution / Organization and verify the facilities. Based on the recommendations from this committee, appropriate decision will be taken by the University.

Registration and Processing fee: Registration and processing fee of Rs. 50,000/- for each branch is to be paid along with application in the form of DD in favor of Registrar, JNTUH. If the proposed R&D Centre is not approved, 75% of this fee will be refunded.

8. Approval, Governance of Research Centre

- Research Centre is constituted formally as part of the University's organization and is subject to its direction, oversight, and strategic plans.

- Research Centre and their constituent academic units are expected to establish mechanisms to assure there is ongoing communication for purposes of coordinating resources, training, research activities, and strategic planning
- A Research Centre will normally be led by a faculty member of the college / Institute / Research Organisation.
- Funding for Research Centre can be made up of a combination of multiple internal and external sources.
- Vision and mission of the center and how does it connect to the overall growth of the college shall be defined.

9. Rules and Regulations

- It is mandatory that the College / Institute should have UGC Autonomous status or NAAC with A grade and NBA in the concerned branch. Duration of the existence of the college should be one year more than the autonomous status requirement including the Department concerned.
- The affiliated College / Institution / Organization should apply for Research Centre in the prescribed Proforma. After careful scrutiny of the application, University Committee, for recognition of research centres will visit the College / Institution / Organization and verify the facilities in the proposed Departments / unit. Based on the recommendation of the Committee, approval for Research Centre may be granted to the College / Institution / Organization as per the University norms.
- The Research Centre will be granted to the affiliated Engineering Colleges / Institution / Organization which comprises different departments/units for research activities such as guiding scholars leading to Ph.D. degree and

sponsored projects. Training programmes will be part of the Research Centre activity.

- The Departments of College / Institute which are proposed to be part of Research Centre should have at least one M.Tech. programme running in the department.
- The Colleges / Institution / Organisation should maintain a corpus fund of Rs. 25,00,000/- (Rupees Twenty-Five Lakhs Only) towards research activities and is to be maintained at all times.
- Dedicated Internet Bandwidth of 50 Mbps should be available.
- Access to e-journals of reputed publications should be available. (Past 3 years proof is mandatory).
- Infrastructural facilities such as office space and furniture should be provided to the research scholars.
- For Ph.D. guidance at least two eligible Supervisors should be available in the respective department/unit. A person is eligible to be a supervisor if he/she possess Ph.D. in the respective stream / related discipline. All the admissions of Research Scholars in the recognized Research Centres will be done by the University Only.
- The Supervisor (proposed) should have five years of prior service out of which minimum three years (as ratified faculty in any college) in the same college / Institution / Organisation.
- After the research scholar is allotted, the supervisor should continue in the same College / Institution / Organisation at least for three years after assigning the research scholar.
- In case of exigency, if the supervisor leaves the college/institute/organisation, it is the responsibility of the concerned host college / Institute / Organisation to

replace him with an equally qualified member with due intimation to the University before the said member is relieved.

- Preference will be given to those Institutions having NAAC / NBA accreditation / Sponsored research projects from UGC / DST / AICTE / and other Government Agencies / Corporate Sector (or) Public Sector undertakings. In-house R & D Centers recognized by Department of Scientific and Industrial Research (DSIR) will also be given due preference.
- The Centre shall have a small core of dedicated supporting staff in its own right, and a full-time Coordinator.
- The Coordinator of the Centre shall report to the Head of College / Institution / Organization.
- The Centre shall excel internationally in research activity in terms of originality, significance, rigour and impact.
- The Centre will provide a means for collaboration with external partners with community and private sector researchers.
- The Centre will sponsor and organise lectures, conferences, colloquia and workshops.
- The Centre will attract academic visitors, those on research leave from elsewhere and other scholars, researchers and academic visitors.
- The Centre will be able to attract research grants that are significant with respect to national norms for the thematic focus of the Centre.
- The tenure of the Research Centre shall be for four years. However, the progress of Research Centre will be reviewed every year by University which may recommend for extension / withdrawal of approval.

- The College / Institute / Organization should maintain proper documentation for the R & D programs taken up and progress report should be sent to the University every six months including financial status and the corpus fund.
- If the Research Centre does not maintain the standards and procedures as per norms, the University has the right to withdraw the status of Research Centre. The University should have the right to review all the activities of Research Centre. Where there is any evidence of decline in standards of quality, the University may, after careful scrutiny, and in consultation with UGC, either help modify them, wherever possible, or cancel the recognition of Research Centre and also autonomous status of the college.
- Any Amendment/Changes/status of Research Centre shall be done with the prior approval of the University.
- The College / Institute / Organization should provide the following.
 - a) Offer fellowship for full-time research scholars admitted through University as per University norms prescribed from time to time.
 - b) Should provide expenditure for contingencies / financial support for attending Conferences / workshops, National/International to everyfull-time research scholars as per University norms.
 - c) Extend the services of all eligible supervisors to various activities related to R & D of the University.
 - d) Provide support for course work for research scholars.
 - e) Faculty Development Programme (FDP), e-learning.
- Activities of Research Centre:
 - a. Training and certification programmes.
 - b. Sponsored Research and consultancy projects

- c. Organisation of seminars / workshops / conferences at national / international level
- d. Research Scholars - Full Time.
- e. Active Research programmes
- f. Any other programmes related to Research.

10. Appointment of Coordinator

The Coordinator of Research Centre, who must be a tenured faculty member, is appointed by the college competent authority after consultation with the BOG of the college. The coordinator is responsible for the administrative functions of the Research Centre and for guidance of the unit's activities in accordance with its established goals. It is expected that the coordinator will be appointed for a 4-year term. A brief succession plan should be in place in the event that the coordinator retires or leaves the position / organisation.

11. Advisory Committee of Research Centre

Research Centre may constitute an Advisory Committee at college level. Representatives should be recognized experts in the research field of the department and may come from both inside and outside the Institute/College. The Advisory Committee, may help in setting the goals and in critically evaluating its effectiveness on a continuing basis. An annual report shall be submitted to the University for its Subsequent Review by the University expert committee constituted for the purpose. The annual report of Research Centre should include the following:

- The Center Mission, goals, or focus of research activity that have occurred over the previous year.

- List of all researchers and staff involved in the Center over the past year, including a summary of how each person contributed to the Center's goals. Each researcher should describe contributions to the body of scholarship supported by the Center and benefits derived from the Center.
- Publications and professional conference presentations that are a part of the Center's programs for the previous year (please do not include articles or presentations prior to the past year).
- A listing of new research funding received, including source, amount, and title of project for the past year only.
- Total amount of current internal and external funding
- A listing of up to 10 highlights that reflect the accomplishments of the Center over the previous year that should be promoted by the University.

12. Annual Review of Research Centre

The performance of Research Centre will be reviewed every year by the University expert committee. Basing on report of the University expert committee the extension of recognition or withdrawal will be decided.

13. Credentials to the College / Institution:

The following credentials will be given to Research Centre of the Institute / College / Organization:

- The University will recognize the R&D Centre in the respective college / institution / Organization.
- The eligible supervisors of the Research Centre will be recognized by the University and they will be given preference in various activities related to

Research and Development including allotment of candidates as Full-Time research scholars of the college.

- Collaborative projects with University and other National and International institutions will be encouraged.

ANNEXURE



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
DIRECTORATE OF RESEARCH & DEVELOPMENT, KUKATPALLY, HYDERABAD – 500 085

**Application for Recognition of College/Institution/Organization as
an Approved Research Center under JNTUH**

1. Name and Address of the Institute :
(with Tel./Fax/e-mail)
2. Year of Establishment :
3. UGC Autonomous Status :
(Copy to be enclosed)
4. Name and Address of the Principal/
Director (with Tel./Fax/Mob/e-mail) :
5. Name of the Dept./Branch in which : 1).....
Ph. D. Programme is to be offered 2).....
3).....
6. Provide the following details for each of the above dept:
 - a) No. of P.G. Programmes in the Dept:
 - b) No. of Professors with Ph.D. in the Dept:
 - c) Enclose list as per format # 1 for each P.G Programme in the Dept
 - d) Has the Department been Accredited by NBA : YES / NO
 Σ If yes Period of Accreditation :.....
 Σ Present Status (please tick) :ACCREDITED /
APPLIED FOR ACCREDITATION/
NOT ACCREDITED
7. Assurance from the Institute/Organization
regarding Availability of allotted Supervisor(s)
for the Research Programme Period
continuously, till the expiry of Tenure : YES / NO
(Maximum 6 years)
8. a) No. of Journal Publications of : i) International Jls . :
Dept./Branch Faculty in last 5 Years ii) National Jls. :
b) Enclose Details as per format #2 : YES / NO
9. Academic/ Infrastructural Facilities :
available at the Inst./Organization
i) Library
a) No. of International Journals :
Subscribed for the Dept./Branch
b) Enclose List as per format #3 : YES / NO
c) No. of National Journals :
Subscribed for the Dept./Branch
d) Enclose List as per format #3 : YES / NO
e) Digital Library Facilities : EXISTING / NOT AVAILABLE
IF YES, enclose details : YES / NO
f) Library Access Timings :

- ii) a) Laboratory /Equipment Facilities : YES / NO
 [Applicable for Research Work
 In the Dept./Branch available
 (costing > Rs.1 Lakh)]
- b) Assurance on the Availability of : YES /NO
 the Research Lab./Equipment to
 the Scholar as needed
- iii) Computational/ Reprographic : YES / NO
 Facilities (One PC shall be made
 available to each Scholar)
- iv) Assured Accommodation for : YES / NO
 the Scholar within the Dept.
10. Networking/ Internet Facilities : AVAILABLE / NOT AVAILABLE
- a) Service Provider and Bandwidth :
11. Whether the Institute/ Organization is : YES / NO
 willing to offer to the Scholar as per
 JNTUH norms
10. Whether the Institute/Organization is : YES / NO
 Willing to provide the expenditure for
 Contingencies/ Conferences/ Field
 Works/ Stationery etc.
11. Whether the Institute/Organization is : YES / NO
 willing to share revenue outcomes - if
 any, and share IPR with JNTUH
12. a) No. of – i) R & D Projects carried out :
- by the Dept., -ii) Research or any other
 Grants Sanctioned to the Dept./
 Branch
- b) Enclose Details as per format #4 : YES / NO
13. a) Any other Information regarding : YES / NO
 Recognition of the Inst./Org. by any
 Professional bodies or Academies or
 Councils or Organizations, or MoU
 With Industries/R&D Labs. etc.
- b) If YES, enclose proofs listing the : YES / NO
 Recognition Status and Period of
 Approvals.
14. A Brief write up(500 words) by the institute mentioning the STRENGTHS and
 WEAKNESSES(SWOT analysis)that why the institute should be considered for
 R&D center.

UNDERTAKING

We hereby certify that all the details and other information provided above are true and correct. We agree to have Joint Intellectual Property Rights on the Research Works and Contents of the Ph.D. with the University We agree to offer fellowship for Full-Time research scholars as per JNTUH norms prescribed from time to time. We agree to deposit and maintain an amount of 25 lakh rupees as corpus fund for R&D centre. We agree to provide support for course work of research scholars of Research Centre.

We also assure that under any circumstances, the activities of Research Centre will not be against the interest of the University.

- 1) Signature of the Principal/Director of the Institute
(with Name, Designation, Seal and Address)
- 2) Signature of the Chairman/Secretary of the Trust/Organization
(with Name, Designation, Seal and Address)

DATE :

PLACE :

Note : All the Formats mentioned below, may please be filled up as applicable, separately for each Department or Branch under consideration.

format 1 :

LIST OF FACULTY MEMBERS HOLDING PH.D. DEGREE IN THE DEPARTMENT(P.G Programme wise list)

S.No.	Name of the Faculty with Qualifications	Inst./Univ. from which Ph.D. is obtained/ Year	Designation	Fields of Specialization	Date of Joining The present Institute/Org.	Research Experience No.of Years

format 2 :

LIST OF JOURNAL PUBLICATIONS FROM FACULTY within LAST 5 YEARS

S.No.	Name of the Faculty	Journal Name	Year & Month of Publication	Vol. No., Issue No., and pg.nos.	TITLE	Names of Authors (as published)
INTERNATIONAL JOURNALS :						
NATIONAL JOURNALS :						

format 3 :

LIST OF JOURNALS SUBSCRIBED BY THE INSTITUTE/ORGN. LIBRARY

S.No.	Name of the Journal Subscribed	Journal Name	Availability Of Journal Period	Hard Copy Availability (YES/NO)	Soft Copy (Details of Service Provider & No. of User Licenses taken with License Validity periods)
INTERNATIONAL JOURNALS :					
NATIONAL JOURNALS :					

format 4 :

LIST OF R&D PROJECTS CARRIED OUT BY THE DEPARTMENT, AND LIST OF RESEARCH/ ANY OTHER GRANTS SANCTIONED TO THE DEPT.

S.No.	Title of the R&D Project or Research Grant	Sanctioning Agency, and Date of Sanction	Names of the Principal and Co Investigators	Sanctioned Amount Rs. In lakhs	Status of the Project (completed/ on-going)
1) R & D Projects Sanctioned					
2) Research or Any Other Grants					



**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A' Grade)



- 3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs) (2) & 3.2.2 Percentage of teachers having research projects during the last five years (2)
3.2.4 Average Percentage of departments having Research projects funded by government and non government agencies during the last five years (3)

Sl.no.	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
1	Dr. D.V. Ravi Shankar	TEQIP-III	Government,JNT UH	Mechanical Engineering	2019	3.00	One Year
2	Dr.A.Suresh Rao	TEQIP-III	Government,JNT UH	CSE	2019	2.60	One Year
3	Dr.B.Sunil Srinivas	TEQIP-III	Government,JNT UH	CSE	2019	2.98	One Year
4	Dr. D.V Ravi Shankar, Dr. B. Rajinikanth, Dr. K. Raju	TKRCET	Non-Government	Mechanical, H&S, EEE	2020	75	Five years
5	Dr. K. Sukanya	TKRCET	Non-Government	ECE	2020	29.47	Three Years
6	Dr. Muruganatham	TKRCET	Non-Government	IT	2020	8	Three Years
7	Dr.Mekala Girish Kumar	SERB	Government,SER B	ECE	2021	13.46	Two Years

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A' Grade)



**3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs) (2) & 3.2.2 Percentage of teachers having research projects during the last five years (2)
3.2.4 Average Percentage of departments having Research projects funded by government and non government agencies during the last five years (3)**

Sl.no.	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
8	Dr. Prem Sudha Rangaswamy	TKRCET	Non-Government	CIVIL	2021	37.62	Three Years
9	Dr. Md Qutubuddin	TKRCET	Non-Government	EEE	2021	15	Three Years
10	Dr. A Suresh Rao, Dr. M. Girish Kumar	TKRCET	Non-Government	CSE, ECE	2021	23.96	Three Years
11	Dr. DV RaviShankar/Dr. A Suresh Rao	MSME	Government,MS ME	Mechanical	2022	12.75	Three Years
12	Dr. G Gopala Krishna	MSME	Government,MS ME	Mechanical	2022	8.00	Three Years


Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
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E Mail: pa2registrar@jntuh.ac.in



PROCEEDING OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADIAH REGISTRAR

Procs No. JNTUH/TEQIP-III/CRS/2019/MECH/08

Date: 22/07/2019

Subject: Award of the project titled “Development of mobile Air Conditioner with Eco Friendly refrigeration 134a” under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

ORDERS:

The project titled “Development of mobile Air Conditioner with Eco Friendly refrigeration 134a” is awarded with sanctioned amount of Rs.3,00,000/- (Rupees Three Lakhs Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

1. Principal Investigator : **Dr. Suresh Akella**
Department Name : Mechanical Engineering
Institute Name : Sreyas Institute of Engineering & Technology
2. Co-Principal Investigator-1, : **Dr. A.V.S.S. Kumara Swami Gupta**
Department Name : Mechanical Engineering
Institute Name : JNTUH College of Engineering Hyderabad
3. Co-Principal investigator-2 : **Dr. Ravi Shankar**
Department Name : Mechanical Engineering
Institute Name : TKR College of Engineering & Technology

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs.1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs.1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory



PROCEEDING OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADAAIAH REGISTRAR

Procs No.JNTUH/TEQIP-III/CRS/2019/CSE/11

Date:22/07/2019

Subject: Award of the project titled “Minimalistic Approach to Predict Cardiovascular Diseases Using Various Risk Factors That Go Undiagnosed Till Advanced Stages.” under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

ORDERS:

The project titled “Minimalistic Approach to Predict Cardiovascular Diseases Using Various Risk Factors That Go Undiagnosed Till Advanced Stages.” is awarded with sanctioned amount of Rs.2,60,000/- (Rupees Two Lakh Sixty Thousand Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

1. Principal Investigator
Department Name
Institute Name

Dr. A. Suresh Rao
Computer Science and Engineering
TKR College of Engineering & Technology

2. Co-Principal Investigator-1
Department Name
Institute Name

DR. B.Vishnu Vardhan
Computer Science and Engineering
JNTUH College of Engineering Jagityal

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs.1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs.1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory Performance in the next Progress Evaluation.

Principal

TKR College of Engineering & Technology
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11. The project should results in at least one publication in the relevant Journal national/international (Non Payment Journal).
12. PI's and Co-PI's will be informed if there are any directions from NPIU or changes made by TEQIP-III JNTUH relevant to Collaborative Research Scheme time to time and are to be followed in due course till the completion of TEQIP-III Project
13. All non-consumables procured for the research project will automatically become the property of the lead institution after completion of the project.
14. Any deviation in the expenditure as defined in the project proposal is not accepted. In such case prior permission is necessary from the university. After obtaining necessary permission, funds should be utilized as per the revised guidelines. No deviation is accepted.
15. Any interest incurred should be deposited back to the university JNTUH, TEQIP-III Account.
16. Unspent amount as per the proposal/ Guidelines of the TEQIP within the stipulated time should be deposited back to the university TEQIP account. (Along with Interest Incurred).
17. Any discrepancy with Co Investigator and principals while implementing the project to be brought to the notice of University authorities.
18. For any discrepancies and other relevant matters, decision of the University is final.
19. Upon the completion of the Project, PI should submit final report Form E, Final Financial Statement Form F, and utilization certificate Form G along with true copy of audit report of the Project. In case if principal fails to do so, it will be recovered from institute.

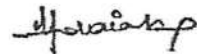
With the following terms conditions to the Principals:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. The grant from TEQIP-III will be transferred to Principals account of lead institution three installments.
3. A separate account for the project may be created.
4. Principal is responsible for transfer of funds to the project account within one week after the release of funds from university. In case if principal fails to do so; it will be recovered from institute.
5. Principals should permit to use existing facilities for project Implementation if requested.
6. In case if both PI and Co-PI-1 are from affiliated institute, a joint account is to be operated by PI, Co -PI-1 and Principal of lead institution
7. In case of collaborative research project carried under twinning, PI and Principal of lead institute will jointly operate the account
8. In case either PI or Co-PI-1 withdraws from the project, Principals of the respective institution shall find the replacement and inform the same to the University for Approval.
9. A declaration form duly signed by Principal (Form H) abiding the rules listed above shall be submitted along with account details within 3 days after receiving the sanction letter for the transfer of research grant.
10. Any discrepancy with PI and Co- PI, while implementing the project, to be communicated with details, to the University.
11. After the completion of every project, Principals of lead institute should ensure that all non consumables procured for projects become the property of institution and to be labeled TEQIP-III/ (Number).
12. Principal of the lead institute should submit the list of all non consumables procured for all Projects at the end of collaborative research scheme through duly filled in Form I.
13. Principals will be informed if any directions from NPIU or changes in guidelines made by TEQIP-III JNTUH relevant to the Collaborative Research Scheme from time to time. Those guidelines should be followed in due course of time, till the completion of TEQIP-III Project
14. For any discrepancies and other relevant matters, decision of the University is final.

Under the circumstances as stated above, the Vice-Chancellor is pleased to accord permission to award the project under Collaborative Research Scheme TEQIP-III, JNTUH.

The expenditure shall be met from TEQIP-III funds.

To
The Concerned Investigators
The Concerned Principals,
Copy to VC/Rector/Registrar.
Copy to Office of the TEQIP-III



REGISTRAR


Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Maerpet, Hyderabad- 500097



PROCEEDING OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADIAH REGISTRAR

Procs No. JNTUH/TEQIP-III/CRS/2019/CSE/13

Date: 22/07/2019

Subject: Award of the project titled “Automatic Diagnostic Model for Detection of Malaria Parasites from Microscopic Images” under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

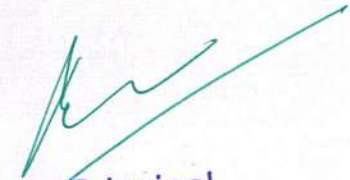
ORDERS:

The project titled “Automatic Diagnostic Model for Detection of Malaria Parasites from Microscopic Images.” is awarded with sanctioned amount of Rs.2,98,000/- (Rupees Two Lakh Ninty Eight Thousand Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

- | | |
|--------------------------------|--|
| 1. Principal Investigator | Dr. G. Madhu |
| Department Name | Information Technology |
| Institute Name | VNR Vignana Jyothi Institute of Engineering & Technology |
| 2. Co-Principal Investigator-1 | Dr. A. Govardhan |
| Department Name | Computer Science and Engineering |
| Institute Name | JNTUH College of Engineering Hyderabad |
| 3. Co-Principal Investigator-2 | Dr. B. Sunil Srinivas |
| Department Name | Computer Science and Engineering |
| Institute Name | TKR College of Engineering & Technology |

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs.1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs.1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory Performance in the next Progress Evaluation.


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TKR College of Engineering & Technology
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TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/26

Dt. 11-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “An Initiative for Developing and Harnessing Innovations” under the guidance of Dr. D. V. Ravi Shankar, Dr. K. Raju and Dr. B. Rajini Kanth, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “An Initiative for Developing and Harnessing Innovations” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 75,00,000/- (Seventy Five Lakhs) for a duration of five year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Renovation/furnishing of space i- TBI	20,00,000/-
2	Fab Labs	55,50,000/-
Total (Rs.)		75,00,000/-

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

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Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020

Time: 11:00AM

Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade

Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2020/156

Dt. 14-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “An Initiative for Developing and Harnessing Innovations” under the guidance of Dr. D. V. Ravi Shankar, Dr. K. Raju and Dr. B. Rajini Kanth, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 11-09-2020 letter no. TKRES/Research fund/2020/26.

It is here glad to inform you that research project titled “An Initiative for Developing and Harnessing Innovations” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 75,00,000/- (Seventy Five Lakhs) for a duration of five year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Renovation/furnishing of space i-TBI	20,00,000/-
2	Fab Labs	55,50,000/-
Total (Rs.)		75,00,000/-

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Principal

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TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/28

Dt. 11-09-2020

SANCTION ORDER

Subject: Financial support for research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” under the guidance of Dr. Suaknya, Assoc. professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 29,47,753 /- (Twenty Nine Lakhs Forty Seven Thousand Seven Fifty Three only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	12,97,753/-
2	Consumables	7,50,000/-
2	Travel	1,50,000/-
3	Contingencies	4,50,000/-
Total (Rs.)		29,47,753/-

For TKR EDUCATIONAL SOCIETY


TREASURER
Treasurer



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

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Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

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Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in

College Code: K9

TKRCET/Principal/R&D/2020/158

Dt. 14-09-2020

SANCTION ORDER

Subject: Financial support for research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” under the guidance of Dr. Suaknya, Assoc. professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 11-09-2020 letter no. TKRES/Research fund/2020/28.

It is here glad to inform you that research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 29,47,753 /- (Twenty Nine Lakhs Forty Seven Thousand Seven Fifty Three only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	12,97,753/-
2	Consumables	7,50,000/-
2	Travel	1,50,000/-
3	Contingencies	4,50,000/-
Total (Rs.)		29,47,753/-

Principal

Principal
TKR College of Engineering & Technology
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Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETY™

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Treasurer :
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Mobile : 94403 36464

TKRES/Research fund/2020/27

Dt. 11-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “Remote controlled aquaponic system using IoT and AI” under the guidance of Dr.R.Muruganantham, Professor, IT, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “Remote controlled aquaponic system using IoT and AI” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 8,00,000/- (Eight Lakhs only) for a duration of three year.

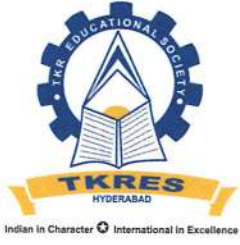
The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	6,00,000/-
2	Consumables	50,000/-
3	Travel	1,00,000/-
4	Contingencies	50,000/-
Total (Rs.)		8,00,000/-

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For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETY™

(Regd. No. 6490/2001)

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Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

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Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2020/157

Dt. 14-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “Remote controlled aquaponic system using IoT and AI” under the guidance of Dr.R.Muruganatham, Professor, IT, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 11-09-2020 letter no. TKRES/Research fund/2020/27.

It is here glad to inform you that research project titled “Remote controlled aquaponic system using IoT and AI” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 8,00,000/- (Eight Lakhs only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	6,00,000/-
2	Consumables	50,000/-
3	Travel	1,00,000/-
4	Contingencies	50,000/-
Total (Rs.)		8,00,000/-

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Principal

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

FILE NO. SRG/2021/001392
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 29 December, 2021

ORDER


Subject: Financial Sanction of the research project titled **Quality of Signal Improvement in Prominent GNFET based Ternary Logic System for Futuristic Dielectric Inserted MLGNRs for Integrated Circuit Designs** under the guidance of Dr. MEKALA GIRISH KUMAR, Electronics and Communication Engineering, TKR College of Engineering & Technology, Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 1346400/- (Rs. Thirteen Lakh Forty Six Thousand Four Hundred Only) with break-up of Rs. 255000/- under Capital (Non-recurring) head and Rs.1091400/- under General (Recurring) head for a duration of 24 months. The items of expenditure for which the total allocation of Rs. 1346400/- has been approved are given below:

The following budget may be considered for TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> HSPICE	255000
A'	Total (Non-Recurring)	255000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Travel, Contingencies) Recurring - III : Scientific Social Responsibility	744000 200000 25000
2	Recurring - IV : (Overhead Charges)	122400
B'	Total (Recurring)	1091400
C	Total cost of the project (A' + B')	1346400

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

8. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

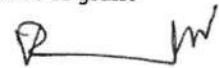
10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project

11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. SRG/2021/001392 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in


To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. MEKALA GIRISH KUMAR Electronics and Communication Engineering TKR College of Engineering & Technology, Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 Email: mekalagirishkumar@tkrcet.com Mobile: 916300718482 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	PRINCIPAL, TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

FILE NO. SRG/2021/001392-G
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 29 December, 2021

ORDER

Subject: Research project entitled **Quality of Signal Improvement in Prominent GNRFT based Ternary Logic System for Futuristic Dielectric Inserted MLGNRs for Integrated Circuit Designs** under the guidance of Dr. MEKALA GIRISH KUMAR, Electronics and Communication Engineering, TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097.

1. In continuation of SERB's sanction order No. SRG/2021/001392 dated 29 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of Rs. **558200/-** under 'Grants-in-aid General' to TKR College Of Engineering & Technology , Survey No -8/a, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad, Hyderabad, Telangana-500097 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 29 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant (General). (EC Engineering Sciences)
5. The Sanction has been issued with the approval of the competent authority on **22 December, 2021** and vide Diary No. SERB/F/5901/2021-2022 dated **23 December, 2021**.
6. The release amount of Rs. **558200/-** (Rupees Five Lakh Fifty Eight Thousand Two Hundred only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:


PFMS Unique Code	TLRA00000856
Account Name	TKR COLLEGE OF ENGINEERING AND TECHNOLOGY A UNIT OF TKR EDUCATIONAL SOCIETY
Account Number	0696053000003739
Bank Name & Branch	THE SOUTH INDIAN BANK LIMITED MEDBOWLI, R.R. DIST., HYDERABAD-500097
IFSC/RTGS Code	SIBL0000696
Email id of A/C Holder	shankardasari@rediffmail.com
Email id of PI	mekalagirishkumar@tkrcet.com

(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

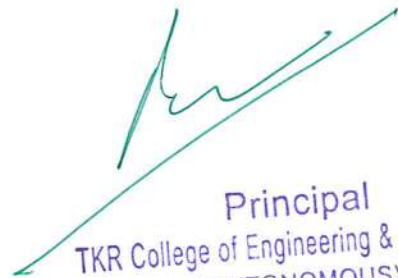
1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

4.	<p>Dr. MEKALA GIRISH KUMAR Electronics and Communication Engineering TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 Email: mekalagirishkumar@tkrcet.com Mobile: 916300718482 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>PRINCIPAL, TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad (Receipt of Grant may be intimated by name to the undersigned)</p>



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in



Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

FILE NO. SRG/2021/001392-C
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 29 December, 2021

ORDER

Subject: Research project entitled **Quality of Signal Improvement in Prominent GNRFT based Ternary Logic System for Futuristic Dielectric Inserted MLGNRs for Integrated Circuit Designs** under the guidance of Dr. MEKALA GIRISH KUMAR, Electronics and Communication Engineering, TKR College of Engineering & Technology, Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097.

1. In continuation of SERB's sanction order No. SRG/2021/001392 dated 29 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 255000/-** under 'Grants-in-aid Capital' to TKR College Of Engineering & Technology, Survey No -8/a, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad, Hyderabad, Telangana-500097 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 29 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant (Capital). (EC Engineering Sciences)
5. The Sanction has been issued with the approval of the competent authority on **22 December, 2021** and vide Diary No. SERB/F/5900/2021-2022 dated 23 December, 2021.
6. The release amount of **Rs. 255000/-** (Rupees Two Lakh Fifty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	TLRA00000856
Account Name	TKR COLLEGE OF ENGINEERING AND TECHNOLOGY A UNIT OF TKR EDUCATIONAL SOCIETY
Account Number	0696053000003739
Bank Name & Branch	THE SOUTH INDIAN BANK LIMITED MEDBOWLI, R.R. DIST., HYDERABAD-500097
IFSC/RTGS Code	SIBL0000696
Email id of A/C Holder	shankardasari@rediffmail.com
Email id of PI	mekalagirishkumar@tkrcet.com

(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -


1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

4.	<p>Dr. MEKALA GIRISH KUMAR Electronics and Communication Engineering TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 Email: mekalagirishkumar@tkrcet.com Mobile: 916300718482 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>PRINCIPAL, TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad (Receipt of Grant may be intimated by name to the undersigned)</p>



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in



Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETY™

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2021/34

Dt. 08-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment” under the guidance of Dr. Prem Sudha Rangaswamy, Associate Professor, Civil, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 37,62,000/- (Thirty Seven Lakhs Sixty Two Thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	18,12,000/-
2	Consumables	9,00,000/-
2	Travel	1,50,000/-
3	Contingencies	9,00,000/-
Total (Rs.)		37,62,000/-

For TKR EDUCATIONAL SOCIETY

T. Amma
TREASURER
Treasurer



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

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Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade



Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in

College Code: K9

TKRCET/Principal/R&D/2021/140

Dt. 10-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “**Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment**” under the guidance of Dr. Prem Sudha Rangaswamy, Associate Professor, Civil, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 08-09-2021 letter no. TKRES/Research fund/2021/34.

It is here glad to inform you that research project titled “Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 37,62,000/- (Thirty Seven Lakhs Sixty Two Thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	18,12,000/-
2	Consumables	9,00,000/-
2	Travel	1,50,000/-
3	Contingencies	9,00,000/-
Total (Rs.)		37,62,000/-

Indian in Character International in Excellence

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETY™

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2021/33

Dt. 08-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “**Design of Synchronous reluctance motor**” under the guidance of Dr. Md Qutubuddin, Associate Professor, EEE, Meerpet, TKRCET, Hyderabad.


Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “Design of Synchronous reluctance motor” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 15,00,000/- (Fifteen Lakhs only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	10,50,000/-
2	Consumables	1,50,000/-
2	Travel	1,00,000/-
3	Contingencies	1,00,000/-
Total (Rs.)		15,00,000/-

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade

Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2021/139

Dt. 10-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Design of Synchronous reluctance motor” under the guidance of Dr. Md Qutubuddin, Associate Professor, EEE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 08-09-2021 letter no. TKRES/Research fund/2021/33.

It is here glad to inform you that research project titled “Design of Synchronous reluctance motor” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 15,00,000/- (Fifteen Lakhs only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	10,50,000/-
2	Consumables	1,50,000/-
2	Travel	1,00,000/-
3	Contingencies	1,00,000/-
Total (Rs.)		15,00,000/-

Indian in Character  International in Excellence

Principal

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



Indian in Character International in Excellence

TKR EDUCATIONAL SOCIETY™

(Regd. No. 6490/2001)

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Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2021/32

Dt. 08-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” under the guidance of Dr. A Suresh Rao, Professor, CSE, and Dr. M. Girish Kumar, Assoc. Professor, ECE, Meerpet, TKRCET, Hyderabad.


Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 23,96,000/- (Twenty Three Lakhs Ninty Six thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	16,16,000/-
2	Consumables	3,30,000/-
2	Travel	1,50,000/-
3	Contingencies	3,00,000/-
Total (Rs.)		23,96,000/-

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
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Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

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Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2021/138

Dt. 10-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” under the guidance of Dr. A Suresh Rao, Professor, CSE, and Dr. M. Girish Kumar, Assoc. Professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 08-09-2021 letter no. TKRES/Research fund/2021/32.

It is here glad to inform you that research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 23,96,000/- (Twenty Three Lakhs Ninty Six thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	16,16,000/-
2	Consumables	3,30,000/-
2	Travel	1,50,000/-
3	Contingencies	3,00,000/-
Total (Rs.)		23,96,000/-

Principal

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

F.No. 6(19)/Sanction to CNA/Incubation /2022-23

Dated : 17/08/2022

To,

The Accounts Officer,
Pay & Accounts Office,
Micro, Small & Medium Enterprises,
New Delhi.

SANCTION ORDER

Subject: Sanction of payment of Rs. 20,57,00,000/- to CENTRAL TOOL ROOM AND TRAINING CENTRE (CTTC), Bhubaneswar, ODISHA towards implementation of Incubation Component of MSME Innovative Scheme for FY 2022-23:reg.

Sanction of the President of India is hereby conveyed to release of payment of Rs. 20,57,00,000/- (Rupees Twenty Crore Fifty Seven Lakh Only) under Grant-in-aid General for implementation of Incubation Component of MSME Innovative Scheme, a component of MSME Champions Scheme under Technology Upgradation and Quality Certification (CLCS-TUS), to Central Tool Room And Training Centre (CTTC), Bhubaneswar, Odisha as Central Nodal Agency (CNA) w.r.t. approval in 2nd PMAC held on dt. 22.06.2022 for the FY 2022-23. The details are as under:

(Rs. in lakh)

S. No.	BE of MSME Champions Scheme 2022-23	Amount approved in 2 nd PMAC	Amount Concurred by IFW	1 st release as per Scheme Guidelines 70% of amount approved and available funds under Grant-in-aid General	Balance Fund will be released in due course of time	Balance to be released after utilization of 60% amount of 1 st release as per scheme guidelines
1	5072.00	2963.676	2074.573	2057.0000	17.573	889.103

2. The details of ideas and the respective amount approved in 2nd PMAC and 70% of the amount as 1st installment as per scheme guidelines are as per **Annexure-A**

3. Roles and Responsibilities of CNA:

Central Tool Room And Training Centre (CTTC), Bhubaneswar, Odisha shall release the amount to the respective Host Institutes (HIs) as per the **Annexure-A** after submission/upload all requisite documents on MIS portal by the HIs concerned as per the scheme guidelines. The Grant-in-Aid will be regulated in accordance with the OM of Dept. of Expenditure, Ministry of Finance vide No. 1(18)/PFMS/FCD/2021 dated 9th March, 2022 (copy attached) regarding revised procedure for flow of funds under Central Sector Schemes and provisions contained in the Incubation Component of MSME Innovative Scheme. CTTC, Bhubaneswar, Odisha has been nominated as CNA vide letter No. 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Incubation Component of MSME Innovative Scheme of MSME Champions Scheme (copy of the order enclosed for reference). CTTC, Bhubaneswar shall strictly follow the roles and responsibility as mentioned in the aforesaid O.M. The

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संयुक्त निदेशक, विकास आयुक्त
संयुक्त निदेशक, Govt of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
निर्माण भवन (7th फ्लोर) आजाद रोड, नई दिल्ली
Office of the Development Commissioner (MSME)
नई दिल्ली-110 108

funds released are also subject to the provisions contained in Chapter 9 of the General Financial Rules, 2005, as amended from time to time, read with the Government of India's decisions incorporated there-under and any other guidelines which may be issued in this regard and in particular to the following conditions:

- i) CTTC, Bhubaneswar shall maintain CNA account of Grant-in-Aid received from the Government and utilized. In addition, a separate Bank account shall be maintained for the Government Grants under this Scheme. (The bank account should be same which was authorized for operation at the time of registration under the central plan Scheme monitoring system (CPSMS) of the Ministry of Finance).
- ii) The grant shall be utilized for the purpose of development of idea under Incubation Component of MSME Innovative Scheme as provisioned in the Scheme guideline. Further, while incurring the expenditure, austerity measures should be taken into account as issued from time to time by competent authority.
- iii) Innovative.msme.gov.in portal shall be used for uploading all relevant information by the HIs as and when required by this office under Incubation Component of MSME Innovative Scheme.
- iv) CTTC, Bhubaneswar shall maintain a register of permanent and semi-permanent assets acquired if any, wholly or mainly out of the above grant in the prescribed format and copy thereof should be furnished to this Ministry.
- v) If any capital assets created in the CTTC, Bhubaneswar, DC (MSME) will be the sole proprietor of the same. Assets acquired wholly or substantially out of Government Grant shall not be disposed of without obtaining the prior approval of the sanctioning authority of Grant-in-aid.
- vi) The accounts of CTTC, Bhubaneswar shall be open for inspection by the sanctioning authority and audit, both by the Controller & Auditor General of India under the provision of C&AG (DPC) Act, 1971 in accordance with the provisions laid down in Section 14 of the C&AG (DPC 1971) as amended from time to time and Internal Audit party of the Principal Accounts Office of the Ministry of Micro, Small & Medium Enterprises (MSME), whenever it is called upon to do so.
- vii) The grantee shall submit the Utilization Certificate in the prescribed form GFR-12 duly signed by the Head of the Institution/ Grantee latest by 31.03.2023. The utilization certificate in respect of grants should also disclose whether the specified, quantified and qualitative targets that should have been reached against the amount utilized were in fact reached, and if not, the reasons therefor furnished by concerned HI.
- viii) CTTC, Bhubaneswar shall furnish an Audited Statement of Accounts of the financial year before 30.04.2023 also indicating separately Activity-wise and Head-wise expenditure.
- ix) Grant-in-Aid shall be utilized subject to the Economy and other Instructions issued from time to time by the M/o Finance or by the Competent Authority.
- x) CTTC, Bhubaneswar shall certify that the utilization certificates due for submission for the Grants-in-aid sanctioned in the previous year's containing all the relevant details under GFR 212(1) have been submitted to the satisfaction of the Ministry of MSME.
- xi) CTTC, Bhubaneswar shall adhere to all the relevant provisions of GFR and any other instructions/ guidelines issued by the Government from time to time, while making procurement/ purchases of goods and services including compliance to GFR provisions in case of out-sourcing of services and engagement of consultants.
- xii) CTTC, Bhubaneswar has been exempted from execution of the bond. CTTC, Bhubaneswar shall, however, furnish an undertaking that it will comply with all the terms and conditions stipulated in the sanction order.
- xiii) CTTC, Bhubaneswar should send pre-receipted bill and undertaking to agree to the terms & condition of this sanction (in triplicate) to this Ministry for payment of the amount drawn against this sanction.


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- iv) Host Institutes may use the fund as prescribed in the Scheme guidelines of Incubation component of MSME Innovative Scheme relating to development of ideas. The expenditure under the sanction is maximum, saving if any, will be surrendered to the Govt. of India.
 - v) In addition to the above, the HI will have to abide by the terms & condition as given in the detailed guidelines of the scheme. Also, the office of DC (MSME) may lay down any other condition to be followed by HI as and when required.
 - vi) The expenditure incurred by the institutions shall be open to inspection by the sanctioning authority/ CAG/Chief Controller of Account (CCA), Ministry of Micro, Small & Medium Enterprises.
 - vii) The HIs shall certify that it has not obtained or applied for grants for the same purpose or activities from any other Ministry or Department of Government of India or the State Government.
5. Noted at Serial No. 03 in the Register of Grants.
6. Sh. P.V Suresh Babu, DDO of the office of DC (MSME) will act as Drawing and Disbursing Officer for this sanction.
7. The progress of the scheme would be monitored by the PMAC, O/o DC (MSME).
8. The expenditure involved is debit to the Budget Allocation under Demand No. 68 Ministry of Micro, Small & Medium Enterprises (MSME) under Technology Up gradation and Quality Certification (MSME Champions Scheme) for FY 2022-23. Details are as under:


(i)	Major Head	2851.00.102.95	Village & Small Industries
(ii)	Object Head	95.04.31	GIA-G
(iii)	BE MSME CLCS-TUS Champions Scheme)	34.39 Cr.	-
(iv)	Present sanction/release	20.57 Cr.	-

9. The CNA bank details of the Central Tool Room & Training Centre, Bhubaneswar for making payment are as below :

Name of the CNA	Name of Bank where A/c of Org. Held	Address/Code of Bank Branch	Saving Bank A/c No. of CNA	MICR Code and IFSC Code
Central Tool Room & Training Centre	State Bank of India	Infocity Branch, Bhubaneswar	41141047045	MICR-751002030 IIFC NO. - SBIN0010133

10. There is no pending UC with CTTC, Bhubaneswar under "MSME Innovative Scheme

11. This issues with the approval of Integrated Finance Wing vide their Dy. No. 64/2022-23/IFW-II dated 16.08.2022.


17/08/2022
(Rakesh Kumar)
Joint Director


Encl: As above.

Copy To,



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राकेश कुमार / RAKESH KUMAR
संयुक्त निदेशक / Joint Director
मंत्रालय सरकार / Govt. of India
सूचना, जलवायु एवं सार्वजनिक उद्योग विभाग
Ministry of Micro, Small & Medium Enterprises
निदेशक कार्यालय (ए. स. ए. उ. विभाग) का कार्यालय
Office of the Dev. Commr. (MSME)
विशेष सहायक एवं दिल्ली-110161 / New Delhi-110161

1. General Manager, Central Tool Room & Training Centre, B-36, Chandaka Industrial Area Bhubaneswar-751024
2. The Drawing & Disbursing Officer, Office of DC (MSME), New Delhi.
3. B&A Section, Office of DC (MSME), Nirman Bhawan, New Delhi.
4. Budget Division, Office of DC (MSME), Nirman Bhavan, New Delhi.
5. Principal Director of Audit, Economic and Service Ministry, AGCR Building, IP Estate, New Delhi.
6. Under Secretary, IFW, Ministry of MSME, Nirman Bhavan, New Delhi.
7. PS to JS (AFI)/ PS to Director (T&P). Ministry of MSME, Udyog Bhawan, New Delhi.
8. SENET Division with the request to upload on DC (MSME) website.
9. All MSME –DFOs
10. Guard File.


**(Rakesh Kumar)
Joint Director**

राकेश कुमार / RAKESH KUMAR
संयुक्त निदेशक / Joint Director
आयता सचवालय / Govt. of India
उद्योग, वसाय, एन एम एम उद्योग संचालन
Ministry of Micro, Small & Medium Enterprises
विभाग सचवालय (उ. स. एन एम उद्योग) का संचालन
Office of the Dir. Genl. (MSME)
विभाग सचवालय, नई दिल्ली-110102 / Nirman Bhavan, New Delhi-110102


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					hardware products				
141	Jerusalem College of Engineering	Tamil nadu	Parameswari	Start Up /Employed/Others	Multi-Functional Blind Stick for Visually Impaired People	1.500	1.275	0.225	0.893
142	Indian Institute of Technology Indore	Madhya pradesh	Yash Bharadwaj	Entrepreneurs/MSME	CyberWarfare Labs Initiative for CyberSecurity Education (CICE)	15.000	12.750	2.250	8.925
143	Sethu Institute of Technology	Tamil nadu	Akilandeswari V	Start Up /Employed/Others	Smart Assistive Robot for Hearing Impaired Children	15.000	12.750	2.250	8.925
144	KPR Institute of Engineering and Technology	Tamil nadu	Imaya Ganesh S	Start Up /Employed/Others	A drone using Autodesk Fusion 360 Software for Disaster Mitigation and Relief	11.040	9.384	1.656	6.569
145	TKR College of Engineering and Technology	Telangana	Boddukanthi Karthik Kumar	Student	Smart Wearables for Rescuers And Victims	8.000	8.000	0.000	5.600
146	INDO Danish Tool Room	Jharkhand	Kapil Suhane	Entrepreneurs/MSME	Digitising the Waste Management Supply Chain	13.500	11.475	2.025	8.033
147	Sri Krishna College of Technology	Tamil nadu	D.Mohit Kumar	Student	Robotic arm with sensing and anti-drone technology to secure the border	14.500	14.500	0.000	10.150
148	Sri Krishna College of Technology	Tamil nadu	Vijayandhari A P	Student	Smart Vest for Coal Mine Workers	15.000	15.000	0.000	10.500
149	M.Kumarasamy College of Engineering	Tamil nadu	Thulasimani V V	Student	Smart Charger with Charge Monitoring Capability	15.000	15.000	0.000	10.500
150	Chalapathi Institute of Engineering and Technology	Andhra pradesh	Gorantla Vishnu Sai	Student	IoT based Smart Water Quality Monitoring System	8.000	8.000	0.000	5.600

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Office of the Director, Government of Andhra Pradesh
Ministry of Higher Education & Research
Office of the Director, Government of Andhra Pradesh
Medbowli, Meerpel, Hyderabad-500097

170	Guru Gobind Singh College of Pharmacy	Haryana	Ashwani Kumar	Start Up /Employed/Others	Laboratory condensor waste water recycling unit - recycling of the water and avoid unnecessary water wastage	7.000	5.950	1.050	4.165
171	Association of Lady Entrepreneurs Of India	Telangana	NamrataDhananjay Deo	Start Up /Employed/Others	KAWAK - The Biodegradable Packaging-developed a biodegradable, organic and sustainable solution from agricultural waste that can replace Styrofoam in various applications	20.000	11.050	8.950	7.735
172	TKR College of Engineering and Technology	Telangana	Perike Enosh	Start Up /Employed/Others	Unmanned surface vehicle for defense and civilian application - to built a vessel which will not come to the shore again which only transmit required by surveillance	20.000	12.750	7.250	8.925
173	Haldia Institute of Technology	West bengal	Radharani Das	Start Up /Employed/Others	Production of SiO2 Nano Powder from Rice Husk (Crop Residue) for its Industrial Uses Waste to Wealth	15.000	12.750	2.250	8.925
174	Marathwada Accelerator for Growth and Incubation Council	Maharashtra	Dixit Mihir Pareshkumar	Entrepreneurs/MSME	Infrared Pyrolysis Process-converts any type of solid waste directly to non toxic air.	19.970	8.500	11.470	5.950

Shahid

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