



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Approved by AICTE, NEW DELHI. Affiliated to JNTUK, KAKINADA
(Accredited by NAAC with "A" Grade and NBA [(ASE, CE, CSE, IT, ECE, EEE & ME) under Tier-I])
An ISO 21001: 2018, 14001:2015, 50001: 2018 Certified Institution
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Sanction Order

Date: 18th October 2025

File No.: LBRCE/R&D/2025-26/Seed/01

To

Dr.S.Jayaprada (PI), Professor & HoD, Dept. of CSE(AI&ML)

Dr.Shaik Salma Asiya Begum (Co-PI), Dept. of CSE(AI&ML)

L.B.R.C.E, Mylavaram-521230

Sub.: Financial Sanction of Rs. 1,70,000/- towards Seed Money for Project Proposal-Reg.

Ref.: Call for Research Proposals under Seed Money Scheme.

Based on the recommendations of expert evaluation committee, I am pleased to inform you that your project proposal for seed money assistance has been recommended and sanctioned an amount of **Rs.1,70,000/-** (One lakh seventy thousand rupees only) for the project titled "**AI-Powered Early Field fire Detection and Risk Assessment System Using IoT Sensor Networks**" for the period of one year. You are required to carry out the project along with your PI/Co-PI. You need to submit the Progress Report every three months.

1. The following budget is sanctioned to the PI/Co-PI.

S.No.	Item	Particulars	Amount (Rs.)
i.	Equipment	25 IoT Sensor Nodes (ESP32 + Temp/Humidity + Smoke/Gas MQ-series + IR Flame + UV Sensor + Solar Kits), 1 Outdoor LoRaWAN Gateway, 2 Camera Modules for Ground Truthing, Enclosures & Mounts	1,20,000
ii.	Software Tools / Licenses	Edge-AI and dashboard development environment (MATLAB license, Thing Speak/Node-RED/Cloud integration, API services, multilingual alert app)	20,000
iii.	Consumables	PCBs, jumper cables, connectors, Li-ion batteries, solar panel wiring, protective covers, fuses, soldering materials	15,000
iv.	Contingencies / Maintenance	Spare sensors, repairs, firmware updates, equipment calibration	10,000
v.	Others (Awareness & Dissemination)	Printing, translation (English ↔ Telugu), awareness pamphlets, report binding, communication with stakeholders	5,000
TOTAL			1,70,000/-

2. The PI/Co-PI is informed to maintain proper accounts of the expenditure out of the grant, which shall be utilized only on proposed items through proper channel.
3. The PI/Co-PI is required to submit the Statement of Expenditure (SE), Utilization Certificate (UE) in the prescribed format along with copies of invoices/bills and Project Completion Report (PCR) with all the outcomes from the project in line with the proposed objectives within one month after completion of project duration.
4. The PI/Co-PI may refund any unspent balance to the institute (L.B.R.C.E) immediately after the completion of stipulated period of project.
5. The Project **File No.: LBRCE/R&D/2025-26/Seed/01** should be mentioned in all communications arising from the above project to the R&D Office, L.B.R.C.E.
6. The PI should ensure that the technical support/financial assistance provided to them by L.B.R.C.E should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
7. The PI/Co-PI should acknowledge the support provided to them in all Publications, Patents and any other output emanating out of the project funded by LBRCE


Principal
(Dr. K. Appa Rao)

Copy to

- 1) The President Sir for kind Information
- 2) Vice Principal
- 3) Dean R&D
- 4) IQAC
- 5) The Head, Dept. of CSE(AI&ML)
- 6) PI & Co.PI