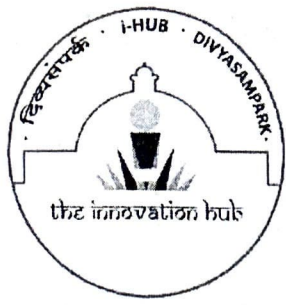


**3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the year: 2023-24**

- Sanction letters for the funded research projects and utilization certificates of completed projects

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## iHUB DivyaSampark

Divyasampark iHUB Roorkee for Devices Materials and Technology Foundation

A section-8 Company established by Government of India (DST) and IIT Roorkee under National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS).

CIN No.-U73200UR2020NPL011644

Ref.No.: 2023/TIH-IITR/675

Date: 7<sup>th</sup> November 2023

**Subject:** Allotment of Non-Recurring fund of **Rs. 41,15,470** to create central facility at GMR Institute of Technology.

With reference to the interaction held on **18<sup>th</sup> September 2023**, the below-mentioned projects have been selected for funding under Call for proposals. In view of successful implementation of all the selected projects a non-recurring fund of **Rs. 41,15,470 (Rupees Forty-One Lakh Fifteen Thousand Four Hundred Seventy only)** has been allocated for creating a central facility at GMR Institute of Technology which will be used for the following sanctioned projects.

S.No	Name of Project	Principal Investigator
1.	Internet of Things (IOT)-based identification of soil-water-plant relationships for better irrigation	Mr. Penki Ramu Rs. 430000
2.	Mobile App for detection of Pineapple diseases, its size, and maturity classification	Dr. K. Lakshmana Rao Rs. 974080
3.	Guardian Lawn: Integrating AI-Powered Smart Lawn Mowing and Home Security	Dr. A. Lakshumu Naidu Rs. 947890
4.	Design and Implementation of Deep Learning Approach for Traffic Sign Recognition in Autonomous Vehicles with NVIDIA Jetson Nano	Dr. Anil Kumar B Rs. 803500
5.	Safety and Employee Detection Helmet using GSM and GPS Modules with IOT	Dr. L V Suresh Kumar Rs. 960000

TOTAL: Rs. 4115470.

Some of the Guidelines for usage of Non-Recurring Budget:

1. Allotted Non-Recurring fund of **Rs. 41,15,470 (Rupees Forty-One Lakh Fifteen Thousand Four Hundred Seventy only)** should be used for creation of Centre facility at the concerned spoke.

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Divyasampark iHUB Roorkee for Devices Materials and Technology Foundation

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CIN No.-U73200UR2020NPL011644

Ref.No.: 2023/TIH-IITR/ 597

Date: 26th September 2023

## Project Sanction Letter

Subsequent to the recommendations of the Reviewers, we are happy to inform that your proposal has been accepted for funding under iHUB DivyaSampark, IIT Roorkee.

You may kindly take necessary action at your end to ensure successful implementation of the project.

**Name of spoke:** GMR Institute of Technology

**Name of Spoke Co-Ordinator:** Dr. M. Srinivasa Rao

**Name of Project:** "Internet of Things (IOT) based identification of soil water plant relationships for better irrigation".

**Name of PI & Co-PI: PI:** Mr. Penki Ramu

**Co-PI:** 1. Mr. B.A.V. Ram Kumar  
2. Mr. CH Nikhil

**Amount Sanctioned in Recurring:** 7,20,000/-

**Sponsoring Agency:** Divyasampark iHUB for Devices Materials and Technology Foundation

For the Non – Recurring, we are creating centralized facility in co-ordination with **Spoke Co-Ordinator Dr. M. Srinivasa Rao** for successful implementation of projects.

  
Authorized Signatory

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Ref.No.: 2023/TIH-IITR/594

Date: 26th September 2023

## Project Sanction Letter

Subsequent to the recommendations of the Reviewers, we are happy to inform that your proposal has been accepted for funding under iHUB DivyaSampark, IIT Roorkee.

You may kindly take necessary action at your end to ensure successful implementation of the project.

**Name of spoke:** GMR Institute of Technology

**Name of Spoke Co-Ordinator:** Dr. M. Srinivasa Rao

**Name of Project:** "Mobile App for detection of Pineapple diseases, its size and maturity classification".

**Name of PI & Co-PI: PI:** Dr. K. Lakshmana Rao

**Co-PI:** Dr. A.Venkata Ramana

**Amount Sanctioned in Recurring:** 9,57,000/-

**Sponsoring Agency:** Divyasampark iHUB for Devices Materials and Technology Foundation

For the Non – Recurring, we are creating centralized facility in co-ordination with **Spoke Co-Ordinator Dr. M. Srinivasa Rao** for successful implementation of projects.

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Ref.No.: 2023/TIH-IITR/ 595

Date: 26th September 2023

## Project Sanction Letter

Subsequent to the recommendations of the Reviewers, we are happy to inform that your proposal has been accepted for funding under iHUB DivyaSampark, IIT Roorkee.

You may kindly take necessary action at your end to ensure successful implementation of the project.

**Name of spoke:** GMR Institute of Technology

**Name of Spoke Co-Ordinator:** Dr. M. Srinivasa Rao

**Name of Project:** "Guardian Lawn: Integrating AI Powered Smart Lawn Mowing and Home Security".

**Name of PI & Co-PI: PI:** Dr. A. Lakshumu Naidu

**Co-PI:** 1. Dr. M. Srinivasa Rao  
2. P.N.N.M. Prakash

**Amount Sanctioned in Recurring:** 8,90,000/-

**Sponsoring Agency:** Divyasampark iHUB for Devices Materials and Technology Foundation

For the Non – Recurring, we are creating centralized facility in co-ordination with **Spoke Co-Ordinator Dr. M. Srinivasa Rao** for successful implementation of projects.

  
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Ref.No.: 2023/TIH-IITR/ 593

Date: 26th September 2023

## Project Sanction Letter

Subsequent to the recommendations of the Reviewers, we are happy to inform that your proposal has been accepted for funding under iHUB DivyaSampark, IIT Roorkee.

You may kindly take necessary action at your end to ensure successful implementation of the project.

**Name of spoke:** GMR Institute of Technology

**Name of Spoke Co-Ordinator:** Dr. M. Srinivasa Rao

**Name of Project:** "Design and Implementation of Deep Learning Approach for Traffic Sign Recognition with NVIDIA Jetson Nano".

**Name of PI & Co-PI: PI:** Dr. Anil Kumar B

**Amount Sanctioned in Recurring:** 9,60,000/-

**Sponsoring Agency:** Divyasampark iHUB for Devices Materials and Technology Foundation

For the Non – Recurring, we are creating centralized facility in co-ordination with **Spoke Co-Ordinator Dr. M. Srinivasa Rao** for successful implementation of projects.

  
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Ref.No.: 2023/TIH-IITR/ 596

Date: 26th September 2023

## Project Sanction Letter

Subsequent to the recommendations of the Reviewers, we are happy to inform that your proposal has been accepted for funding under iHUB DivyaSampark, IIT Roorkee.

You may kindly take necessary action at your end to ensure successful implementation of the project.

**Name of spoke:** GMR Institute of Technology

**Name of Spoke Co-Ordinator:** Dr. M. Srinivasa Rao

**Name of Project:** "Safety and Employee Detection Helmet using GSM and GPS modules with IOT".

**Name of PI & Co-PI: PI:** Dr. L V Suresh Kumar

**Co-PI:** Dr. T S L V Ayyarao

**Amount Sanctioned in Recurring:** 7,90,000/-

**Sponsoring Agency:** Divyasampark iHUB for Devices Materials and Technology Foundation

For the Non – Recurring, we are creating centralized facility in co-ordination with **Spoke Co-Ordinator Dr. M. Srinivasa Rao** for successful implementation of projects.

  
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