



**GOPALAN**  
COLLEGE OF ENGINEERING  
AND MANAGEMENT  
Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum  
Accredited with B+ grade by NAAC

ISO 9001:2015

# Inter Disciplinary Innovative Research Centre(IDIRC) - GCEM





# Inter Disciplinary Innovative Research Centre(IDIRC) - GCEM

Inauguration of  
Inter Disciplinary  
Innovative  
Research  
Centre(IDIRC).



Lamp lighted by  
**Mrs. Sunita  
Prabhakar**

Vice President  
- Gopalan Foundation

02-12-2024





**Dr. C. Prabhakar**

General Secretary

At its core, our lab is more than just equipment, computers, and chemicals - it's a space where questions become hypotheses, and hypotheses become breakthroughs. Whether we're working on drones, robotics, renewable energy, artificial intelligence, biotechnology, materials science, etc.

**Our mission is to solve real-world problems through rigorous inquiry and creative thinking.**

To those considering getting involved in research - I encourage you to take that leap. You don't have to have all the answers. Just bring your questions, your passion, and your willingness to learn. That's where every discovery begins -

**Join us not just as visitors, but as fellow explorers.**

## Vision

Interdisciplinary Innovative Research promotes collaboration among Faculty and Students, fostering team work to solve multidisciplinary societal problems effectively to achieve shared goals.

## Mission

The Centre aims at creating and disseminating new knowledge of Interdisciplinary Research culture among students and faculty. The Centre provides innovative solutions to the industrial problems and adds value to the National Economy.

## Role of IDIRC



### Support for collaborative research:

Encouraging faculty, staff, and students from different disciplines to collaborate on research projects.



### Building an inclusive environment:

Fostering a culture of openness, respect, and appreciation for diverse perspectives and methodologies.



### Promoting interdisciplinary learning:

Providing opportunities for faculty and students to develop the skills and knowledge necessary to engage effectively in Inter Disciplinary Research.



### **Prof. Dr K Natarajan Distinguished scientist- National Award winner and Principal scientist of GCEM heading the R&D.**

Research and development enables the systematic process of investigating, experimenting, and innovating to create new products, processes, or technologies.

GCEM emerged as one of the fore front Engg colleges pioneered in research activities. Along with departmental research centres such as Aeronautical Engg/Computer science/Electronics and communication Engg. It inaugurated a new multidimensional research centre called as Inter Disciplinary Innovative Research Centre.(IDIRC)

This research centre is opened to all the students of various branches of engg and faculty. Collaborative research activities are engaged.

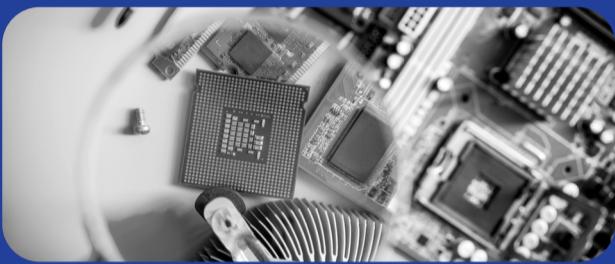


# Consultancy

## Solutions for problems in Industries



Aerospace and Defence



Electronics and Semiconductors



Energy and Utilities



Polymers and Plastics Technology



Chemicals and Materials Science



Environmental science and  
sustainability



Construction Materials and  
Engineering



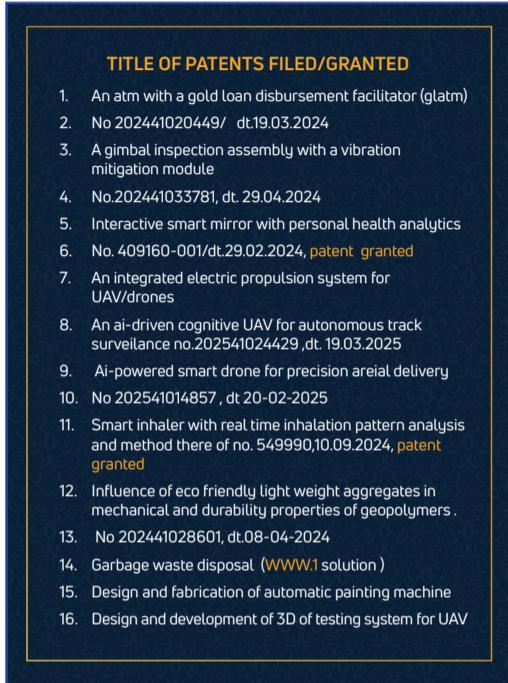
Machine Learning and  
Artificial Intelligence



# R & D Initiated Commercial Project



Gold loan  
facilitated atm



Patent filed  
No. 202441020449



Project is in  
progress

## Special Advantages

- » 24/7 hrs Gold loan availability to all the people
- » Few minutes process to get loan through ATM
- » ATM with Geo-tag will be placed in all Bank lounges, Hospitals , Public places (Bus station/Railway stations/Airports and Govt. establishments etc.)



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# Gold Loan Facilitated ATM



# Innovative Project

## Gold Loan Facilitated ATM

Prof.Dr.Shankar prasad, IIT Gauhati, Prof.Dr H S Bhatia singh, former Director DRDO visited IDIRC and inspected Gold loan facilitated ATM on 04-03-2025

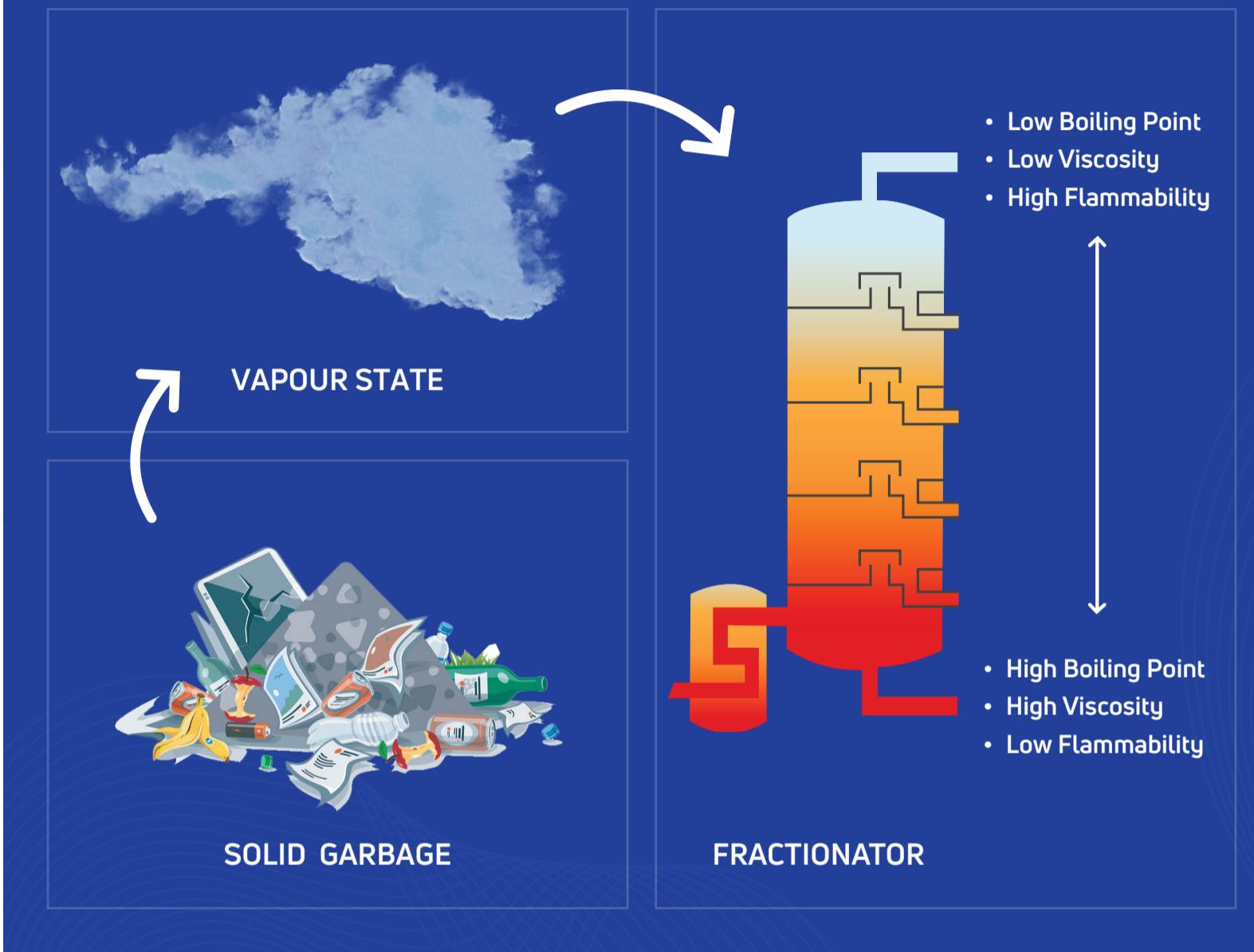


## **NBA chairman visited IDIRC inspecting Gold Loan facilitated ATM**

21-03-2025



# Waste-Wealth-Welfare



## Concept

Converting waste solid phase amorphous garbage into liquid phase products of commercial values, without polluting environment of Air/Soil/Water.

One time / One stroke/ One place - solution for the disposal of garbage wastes (Domestic/non metal industry including medical wastes) without polluting environment. Patent filed.



# Innovative Research Club of Students (IRCS)



## IRCS Activities

- » Students of various disciplines interact together on research projects.
- » A team culture with collaborative research work.
- » Knowledge sharing.
- » Together achieving an ambitious goal.
- » Arranging programs oriented towards innovations.
- » Research culture activities include theatre fest on research.