

FILE NO. SSY/2026/000150
Anusandhan National Research Foundation (ANRF)
(A statutory body created by an Act of Parliament - ANRF Act, 2023)
Science & Engineering Research Board (SERB) Seminar/Symposia Scheme

ANRF
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 13 May, 2026

ORDER

Subject: Financial assistance for organizing National Seminar on "Techno-economic aspects of green hydrogen solutions for future energy security" by Dr. Vijaya Kumar Perumalla, Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Mylavaram, Krishna, ANDHRA PRADESH - 521230, from 17-Jul-2026 to 18-Jul-2026 (2 days).

Sanction of **Anusandhan National Research Foundation (ANRF)** is hereby accorded to the above mentioned project under the **Science and Engineering Research Board (SERB)** scheme - **Seminar/Symposia** at a total cost of **Rs. 150000/- (Rs. One Lakh Fifty Thousand Only)** 'Grant-in-aid General' to Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Mylavaram, Krishna, ANDHRA PRADESH - 521230 during the financial year 2026-2027 . The items of expenditure for which the grant has been approved are given below:

S. No	Budget Head	Amount (In Rs.)
1	Domestic Travel for Young and Senior Scientists (Indian Only)	150000
2	Pre-Conference Printing (Announcements, abstracts etc.)	0
3	Contingency/Incidental Expenses (to meet working expenses/accommodation/venue costs during the event)	0
		Total : 150000

2. The assignment of **Rs. 150000/- (Rupees One Lakh Fifty Thousand only)** will be drawn by DDO , ANRF and disbursed as assignment to the Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Mylavaram, Krishna, ANDHRA PRADESH - 521230 in PFMS as expenditure limit: .

Name of Account Holder	Anusandhan National Research Foundation SERB 1023
Bank Account Number	349902010052378
Name of the Bank with branch	Union Bank of India, Delhi-Safdarjang Branch, South Delhi-110016
RTGS/IFSC code	UBIN0534994

ANRF will further allocate/assign the above limit as expenditure to the institution as per details given below: -

Agency Name	Lakireddy Balireddy College of Engineering
PFMS Unique Code	LBRCE
Head of Institution	--, drtsatyam@lbrce.ac.in
Email Id of Institution	drtsatyam@lbrce.ac.in
Email Id of PI	pvkumar@lbrce.ac.in

3. The expenditure involved is debitable to the Science and Engineering Research Board (1023) Scheme. This release is being made under Seminar/Symposia (Internal Committee) - Grant-in-aid General

4. The Utilization of the assignment will be through the PFMS only using Digital Signature Certificate (DSC). No other mode of payment is allowed.

5. The Sanction has been issued with the approval of competent authority under delegated powers and vide sanction number to Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Mylavaram, Krishna, ANDHRA PRADESH - 521230 with the approval of the competent authority under delegated powers on 11 May, 2026 and vide Diary No. ANRF/F/1318/2026-2027 dated 11 May, 2026.

6. As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.

7. It is **mandatory** that the grantee institution should submit to this office, an audited Statement of Income-Expenditure, Utilization Certificate (in duplicate as per the prescribed format) and a brief report of the event (max. 04 pages) within three months after the date of completion. .

8. Any unutilised balance will be withdrawn by ANRF.

9. The Organization/Institute/University should ensure that the technical support/financial assistance provided to them by the ANRF, A statutory body created by an Act of Parliament - ANRF Act, 2023, Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

10. 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 the ANRF, A statutory body created by an Act of Parliament - ANRF Act, 2023 Government of India.

11. The organisation/Institute/University should ensure acknowledging ANRF by including the Official Logo of ANRF on all Conferences/Seminars/Symposium materials being used for the event.

12. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. 2026-27/170 in the register of grants maintained for **Seminar/Symposia** scheme.


(Dr. Pankaj Rawat)
Scientist E

seminar.symposia@anrf.gov.in

To,
DDO
ANRF, New Delhi

Copy forwarded for information and necessary action to: -

1.	Office of Director General of Audit (Environment & Scientific Department), AGCR Building, I. P. Estate, New Delhi 110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy
4.	Dr. Vijaya Kumar Perumalla Mechanical Engineering Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Mylavaram, Krishna, ANDHRA PRADESH - 521230 Email: pvkumar@lbrce.ac.in Mobile: 918019517851 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in and www.anrfonline.in .)
5.	Lakireddy Bali Reddy College Of Engineering, L.B.Reddy Nagar, Mylavaram, Krishna, ANDHRA PRADESH - 521230 (Receipt of Assignment of Grant may be intimated by name to the undersigned)


(Dr. Pankaj Rawat)
Scientist E

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LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(An Autonomous Institution since 2010)

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada

L.B. Reddy Nagar, Mylavaram, NTR District, Andhra Pradesh - 521230

Organizes
Two Days National Seminar on

“Techno-Economic Aspects of Green Hydrogen Solutions for Future Energy Security”



Sponsored by

Anusandhan National Research Foundation (ANRF)
(A statutory body created by an Act of Parliament - ANRF Act, 2023)
Science & Engineering Research Board (SERB)
(Seminar/Symposia Scheme)



Seminar Dates: 17/07/2026 to 18/07/2026

Seminar Venue: Department of Mechanical Engineering, LBRCE



Objective of the Seminar

The objective of this seminar is to create a comprehensive platform for students, researchers, academicians, industry professionals, and policymakers to gain in-depth understanding of emerging green hydrogen technologies and their significance in achieving sustainable energy transitions, energy security. The Resource Persons are drawn from the premier institutions i.e., IITs shall highlight the scientific principles, production pathways, storage methods, and utilization of hydrogen as a clean energy carrier, with particular emphasis on green hydrogen produced from renewable energy sources like solar, biomass. The seminar seeks to discuss current technological advancements, techno-economic feasibility, safety aspects, and infrastructure requirements for large-scale hydrogen adoption. It also intends to touch upon the role of hydrogen in mitigating climate change, reducing greenhouse gas emissions, and supporting decarbonization of power generation, transportation, and industrial sectors. Another important objective is to bridge the gap between academic research and industrial implementation by showcasing real-world case studies, pilot projects, and policy frameworks at national and global levels as part of deliberations from the Resource Persons. Furthermore, the seminar aims to encourage interdisciplinary collaboration, innovation, and research-driven solutions among participants. By fostering knowledge exchange and critical discussions during the interactive sessions with the experts, the seminar aspires to motivate young engineers and researchers to contribute towards hydrogen-based energy systems and support the development of a resilient, secure, sustainable and low-carbon energy future together providing energy security to the future generations.



Highlights of the Seminar



CO-CONVENER

Dr.P.Ravindra Kumar
Professor

Mechanical Engineering

CONVENER

Dr. P. Vijaya Kumar
Professor

Mechanical Engineering

HEAD OF THE DEPARTMENT

Dr. M.B.S.Sreevara Reddy
Professor

Mechanical Engineering



Invited Speakers



Dr. M. Ramgopal

Professor, IIT Kharagpur

Topic: Role of Reversible Metal hydrides in Green Hydrogen Economy



Dr. Anand M Shivapuji

Senior. Research Scientist, Interdisciplinary Centre for Energy Research, IISc Bangalore

Topic: Thermochemical Pathway to Green Hydrogen Generation through Oxy-steam Gassification of Bio residue



Dr. Sandeep Kumar

Associate Professor, IIT Bombay

Topic: Hydrogen Production from Waste Biomass



Dr. Satya Sekhar Bhogilla

Associate Professor, IIT Jammu

Topic: Thermal Management in Hydrogen Energy Systems



Dr. Saket Verma

Assistant Professor, IIT Guwahati

Topic: Hydrogen Fuel cell for Next Generation Electric Mobility: Architecture, Challenges & Solutions



Mr. Harshit Mittal

Ph.D Scholar, BITS Pilani, Goa Campus

Topic: Green Hydrogen Fueled Balloon-Satellite Hybrid System with Integrated Fuel Cell Propulsion

Anusandhan National Research Foundation (ANRF) - established through an Act of Parliament: ANRF Act, 2023, to provide high-level strategic directions for research, innovation, and entrepreneurship in the fields of natural sciences, including mathematical sciences, engineering and technology, environmental and earth sciences, health and agriculture, and scientific and technological interfaces of humanities and social sciences. ANRF has been established to promote research and development and foster a culture of research and innovation throughout India's Universities, Colleges, Research Institutions, and R&D laboratories. ANRF acts as an apex body to provide high-level strategic direction of scientific research in the country as per recommendations of the National Education Policy. ANRF forges collaborations among the industry, academia, and government departments and research institutions.



About LBRCE, Mylavaram

The Lakireddy Bali Reddy College of Engineering (LBRCE), Mylavaram was established in the year 1998 by Lakireddy Bali Reddy Charitable Trust, whose architect is Late Er. Lakireddy Bali Reddy garu. The institute is established with the sole aim of providing high quality educational opportunities in the field of Science, Engineering, Technology and Management. It is spread over 60 acres of sprawling lush green landscape spotted with orchids and grooves. It is approved by AICTE, affiliated to JNTUK, Kakinada and attained Autonomous status in the year 2010. It is accredited with NAAC and NBA (ASE, AIDS, CE, CSE, CSE (ML), IT, ECE, EEE & ME) under Tier-I. A separate R & D cell is established in the college to focus on continuous sponsored research. It has various sponsored research projects funded by various funding agencies. At present, 9 B.Tech programmes are offered. Also offers 4 M.Tech programmes and 1 M.B.A program.



About the Department

The Department of Mechanical Engineering has been in existence ever since the college had its inception in 1998. It offers B.Tech. programme with an intake of 60 and M.Tech. in Thermal Power Engineering with an intake of 6. The B.Tech. programme is accredited by National Board of Accreditation (NBA) under Tier-1. The department is recognized as research center by JNTUK, Kakinada. The Department has good infrastructure in terms of the state of art laboratories, workshops and computer centers as required for the UG and PG programs. The Department has sponsored projects worth of rupees 2.41 crores to its credit funded by various government organizations. The Department has well qualified faculty from the reputed Institutes with 14 doctorates.



Committees

Chief Patrons:

Sri L. Jaya Prakash Reddy
Honorary Chairman
Sri L. R. N. K. Prasad Reddy
Chairman

Patrons:

Sri G. Srinivasa Reddy
President
Dr. K. Appa Rao
Principal
Dr. B. Ramesh Reddy
Vice-Principal

Advisory Committee:

Dr. S. Pichi Reddy
Dean R&D
Dr. M. Srinivasa Rao
Dean Academics
Dr. V. Suryanarayana
Dean Industry Relations
Dr. K. R. L. Prasad
IQAC Co-ordinator

Technical Committee:

Dr. P. V. Chandra Sekhara Rao
Professor-ME & CoE
Dr. M. B. S. Sreekara Reddy
HoD-Mechanical Engineering
Dr. T. Satyanarayana
Central R&D Co-ordinator
Dr. K. Dilip Kumar
Professor, Mechanical Engineering

Convenor:

Dr. P. Vijaya Kumar
Professor, Mechanical Engineering
pvkumar@lbrce.ac.in
pvk.lbrce@gmail.com
+91 9490817851

Co-Convenor:

Dr. P. Ravindra Kumar
Professor, Mechanical Engineering
pasupuleetirk@lbrce.ac.in
pasupuleetirk@gmail.com
+91 9490381201

Organizing Committee:

Dr. K. Murahari
Dr. V. Dhanaraju
Dr. Ch. Siva Sankara Babu
Mr. J. Subba Reddy
Mr. S. Srinivasa Reddy
Dr. B. Sudheer Kumar
Dr. A. Nageswara Rao
Dr. S. Rami Reddy
Dr. A. Dhanunjay Kumar
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Mr. K. V. Viswanadh
Mr. K. lakshmi Prasad
Mr. V. Sankara Rao
Mr. D. Mallikarjuna Rao
Mrs. B. Kamala Priya
Mr. K. Venkateswara Reddy
Mr. K. Sai Babu
Mr. S. Uma Maheswara Reddy
Ms. P. Mounika
Mr. M. Oliva



Registration Details

- Please Register Here: <https://forms.gle/SeU4LULsDJXz7qnx6>
- Registration Fees(INR): (Inclusive of GST)

Scholars/ Researchers	Academicians	Industry Professionals
Rs. 400/-	Rs. 500/-	Rs. 600/-

- Payment Details:

- Name of the account holder: **Lakireddy Bali Reddy College of Engineering, Mylavaram**
- Name of the bank & branch: **CENTRAL BANK OF INDIA & LBRC BRANCH**
- Account number: **2167800537** IFSC Code: **CBIN0283964**
- Type of account: **SAVINGS**

or Scan Here



Contact Details

Convenor

Dr. P.Vijaya Kumar

Professor, Mechanical Engineering

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pvk.lbrce@gmail.com

+91 9490817851

Co-Convenor

Dr. P. Ravindra Kumar

Professor, Mechanical Engineering

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+91 9490381201



Important Dates

- Last date to apply: **12-07-2026**
- Date of intimation to selected candidates: **15-07-2026**
- Seminar dates: **17-07-2026 & 18-07-2026** (9:00 AM to 5:00 PM)



Who Can Apply

- Faculty Members of AICTE approved institutions
- Research Scholars, PG Scholars
- Participants from Government and Industry (Bureaucrats/ Technicians), and
- Faculty of LBRCE, Mylavaram (A.P).

ANRF Sponsored – Two Day Offline -Seminar Schedule

S. No.	Date	Program Schedule	Time
1.	17-07-2026	Registration and Attendance	9.00 A.M to 9.45 A.M
2.		Welcome Address by Convenor Dr. P. Vijaya Kumar	09.45 A.M to 09.50 A.M
3.		Prayer Song	09.50 A.M to 09.55 A.M
4.		HoD speech – Dr.M.B.S.Sreekar Reddy	10.00 A.M to 10.05 A.M
5.		Principal Speech- Dr.K.Appa Rao	10.05 A.M to 10.10 A.M
6.		Guest of Honour Speech – Dr.Satya Sekhar Bhogilla Associate Professor, Department of Mechanical Engineering Indian Institute of Technology, Jammu	10.15 A.M to 10.20 A.M
		Chief Guest Speech Dr. Anand M Shivapuji Senior Research Scientist, Interdisciplinary centre for Energy Research, IISc, Bengaluru	10.20 A.M to 10.25 A.M
7.		Session-1 Dr. Anand M Shivapuji Senior Research Scientist Interdisciplinary Center for Energy Research, IISc Bangalore. Topic: Thermo-chemical pathway to green hydrogen through oxy-steam gassification of bio-residue	10.30 A.M to 11.30 A.M
		Break	11.30 A.M to 11.45 A.M
8.		Session-2 Dr.Satya Sekhar Bhogilla Associate Professor, IIT Jammu Topic: Thermal management in hydrogen energy systems	11.45 A.M to 01.15 P.M
		Lunch	01.15 P.M to 02.00 P.M
9.		Session-3 Mr.Harshit Mittal, Ph.D Scholar BITS-Pilani, Goa campus Topic: Green hydrogen fuel balloon-satellite hybrid system with integrated fuel cell propulsion	02.30 P.M to 04.15 P.M
10.	18-07-2026	Session-1 Dr. M.Ramgopal Professor, Department of Mechanical Engineering IIT Kharagpur Topic: Role of reversible metal hydrides in green hydrogen economy	9.30 A.M to 11.30 AM
		Break	11.30 A.M to 11.45 A.M
11.		Session-2 Dr. Sandeep Kumar Associate Professor, IIT Bombay Topic: Hydrogen production from waste biomass	11.45 A.M to 01.15 P.M
		Lunch	01.15 P.M to 02.00 P.M
12.		Session-3 Dr.Saket Verma Assistant Professor, IIT Guwahati Topic: Hydrogen fuel cell for next generation electric mobility: Architecture, challenges and solutions	02.15 P.M to 03.45 P.M
13.		Certificates Distribution & Feedback	03.45 P.M to 04.10 P.M
14.		Vote of Thanks – Dr. P.Ravindra Kumar	04.10 P.M to 04.15 P.M



Date: 20-07-2026

DEPARTMENT OF MECHANICAL ENGINEERING

Report on ANRF-Sponsored Two-Day National Offline Seminar on "Techno-Economic Aspects of Green Hydrogen Solutions for Future Energy Security"

Seminar Schedule: 17-07-2026 to 18-07-2026

1. Dr. P.Vijaya Kumar, Professor - Convenor
2. Dr. P. Ravindra Kumar, Professor – Co-Convenor

Audience: Faculty, Research Scholars, P.G. Students and Industry Professionals

Total Number of Registrations: 29

Total Number of Participants eligible for certificates: 26

Objective of the Seminar:

The objective of this seminar is to create a comprehensive platform for students, researchers, academicians, industry professionals, and policymakers to gain an in-depth understanding of emerging green hydrogen technologies and their significance in achieving sustainable energy transitions and energy security.

Outcome of the Seminar:

At the end of the seminar, the participants will be able to:

1. **Understand Green Hydrogen Technologies:** Gain comprehensive knowledge of green hydrogen production methods, storage, transportation, and utilization technologies.
2. **Analyse Techno-Economic Feasibility:** Evaluate the technical performance and economic viability of green hydrogen projects using techno-economic assessment methodologies.
3. **Explore Renewable Energy Integration:** Understand the role of solar, wind, biomass, and other renewable energy sources in sustainable hydrogen production.
4. **Enhance Knowledge of Hydrogen Applications:** Identify emerging applications of green hydrogen in transportation, power generation, industrial processes, aviation, and energy storage.
5. **Understand Thermal and Fuel Cell Technologies:** Learn about thermal management, hydrogen fuel cells, and next-generation electric mobility systems.

Resource Persons

Chief Guest Speech: 1. Dr Anand M Shivapuji, Senior Research Scientist, Interdisciplinary Centre for Energy Research, IISc, Bengaluru

Guest of Honour: 2. Dr Satya Sekhar Bhogilla, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology, Jammu

3. Dr. Saket Verma, Assistant Professor, IIT Guwahati

4. Dr. Sandeep Kumar, Associate Professor, IIT Bombay

5. Dr. M. Ramgopal, Professor, Department of Mechanical Engineering IIT Kharagpur

6. Mr. Harshit Mittal, Ph.D Scholar, BITS-Pilani, Goa campus

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L.B. Reddy Nagar, Mylavaram, N.T.R. District, Andhra Pradesh-521230

DEPARTMENT OF MECHANICAL ENGINEERING
Hearty Welcome to all the
Esteemed Resource Persons
to the
Two Days National Seminar on
“Techno-Economic Aspects of Green Hydrogen Solutions for Future Energy Security”
17th & 18th July, 2026
We extend our warm welcome and wish you a fruitful, insightful and enriching experience.

Dr. M. Ramgopal
Professor, IIT Kharagpur
Topic: Role of Renewable Metal hydrides in Green Hydrogen Economy

Dr. Anand M Shivapuji
Senior Research Scientist, Interdisciplinary Centre for Energy Research, IISc Bangalore
Topic: Thermochemical Pathway to Green Hydrogen Generation through Oxygenation Gasification of Bio residue

Dr. Sandeep Kumar
Associate Professor, IIT Bombay
Topic: Hydrogen Production from Waste Biomass

Dr. Satya Sekhar Bhogilla
Associate Professor, IIT Jammu
Topic: Thermal Management in Hydrogen Energy Systems

Dr. Saket Verma
Assistant Professor, IIT Guwahati
Topic: Hydrogen Fuel cell for Next Generation Electric Mobility: Architecture, Challenges & Solutions

Mr. Harshit Mittal
Ph.D Scholar, BITS Pilani, Goa Campus
Topic: Green Hydrogen Fueled Balloon-Satellite Hybrid System with Integrated Fuel Cell Propulsion

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Science & Engineering Research Board (SERB)
(Seminar/Symposia Scheme)

NBA ASE, CE, CSE, ECE, EEE, IT & ME Under Tier-I
NAAC CGPA: 3.20/4

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DEPARTMENT OF MECHANICAL ENGINEERING
Hearty Welcome to all the
Participants
to the
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NBA ASE, CE, CSE, ECE, EEE, IT & ME Under Tier-I
NAAC CGPA: 3.20/4



Inaugural Session on 17-07-2026, Morning @ 10.00 A.M. - Prayer Song
Principal, Chief Guest: Dr Anand M Shivapuji, **Guest of Honours:** Dr. Sandeep Kumar, Dr Satya Sekhar Bhogilla, Dr.S.Pichi Reddy (**Dean R&D**), Dr.M.B.S.S Reddy (**HoD**).
 (From Left to Right)



17-07-2026 – Morning Session- 1: Resource Person talk by
Dr.Anand M Shivapuji
Senior Research Scientist Interdisciplinary Center for Energy Research, IISc Bangalore. Topic: Thermo-chemical pathway to green hydrogen through oxy-steam gassification of bio-residue



Topic: Thermo-chemical pathway to green hydrogen through oxy-steam gassification of bio-residue

Thermo-chemical conversion of bio-residues through oxy-steam gasification is a sustainable pathway for producing green hydrogen from renewable biomass resources. The process uses oxygen and steam to convert agricultural and organic waste into hydrogen-rich syngas while minimising nitrogen dilution. Advanced gas cleaning and water-gas shift reactions further enhance hydrogen yield and purity. This approach promotes effective waste utilization, reduces greenhouse gas emissions, and supports the circular economy. Oxy-steam gasification offers a promising route toward clean hydrogen production for future low-carbon energy systems.



Felicitations of the Chief Guest: Dr Anand M Shivapuji, Senior Research Scientist, Interdisciplinary Centre for Energy Research, IISc, Bengaluru



17-07-2026: Morning Session- II: Resource Person talk by
Dr Satya Sekhar Bhogilla, Associate Professor, Department of Mechanical Engineering,
Indian Institute of Technology, Jammu,

Topic: Thermal management in hydrogen energy systems

Thermal management is a key factor in improving the performance, efficiency, and safety of hydrogen energy systems. It involves controlling heat generation and dissipation in fuel cells, electrolyzers, and hydrogen storage systems. Maintaining optimal operating temperatures enhances energy conversion efficiency and prevents component degradation. Advanced cooling techniques, including liquid cooling, air cooling, heat exchangers, and phase change materials, are widely employed. Effective thermal management minimizes thermal stresses and extends the lifespan of system components. It also improves the reliability and durability of hydrogen-powered devices under varying operating conditions. Waste heat recovery technologies can further increase overall system efficiency by utilizing excess thermal energy. Proper thermal regulation is essential for the safe storage and transportation of hydrogen. Ongoing research focuses on developing compact, lightweight, and energy-efficient thermal management solutions. These advancements are crucial for the large-scale adoption of hydrogen as a clean and sustainable energy carrier.



Felicitations of the Guest of Honour: Dr Satya Sekhar Bhogilla, Associate Professor, IIT Jammu



**17-07-2026: Session III: Resource Person talk by
Dr. Saket Verma Assistant Professor, IIT Guwahati
Topic: Hydrogen fuel cell for next-generation electric mobility: Architecture,
challenges and solutions**

Hydrogen fuel cells are emerging as a promising technology for next-generation electric mobility due to their high efficiency, zero tailpipe emissions, and fast refueling capability. A typical fuel cell electric vehicle (FCEV) consists of a hydrogen storage tank, fuel cell stack, battery, power electronics, electric motor, and thermal management system. Despite their advantages, challenges such as high system cost, limited hydrogen.



Felicitation ceremony of the resource person Dr. Saket Verma Assistant Professor, IIT Guwahati



18-07-2026: Session I: Resource Person talk by

Dr. M.Ramgopal Professor, Department of Mechanical Engineering IIT Kharagpur

Topic: Role of reversible metal hydrides in green hydrogen economy

Reversible metal hydrides play a significant role in the green hydrogen economy by providing a safe, efficient, and compact method for hydrogen storage. These materials can repeatedly absorb and release hydrogen under controlled temperature and pressure conditions, making them suitable for long-term energy storage. Their high volumetric hydrogen storage capacity offers advantages over conventional compressed gas storage systems. Metal hydrides also improve the safety of hydrogen handling by reducing the risks associated with high-pressure storage. Current research focuses on enhancing hydrogen absorption/desorption kinetics, reducing operating temperatures, and improving

cycle stability. The integration of reversible metal hydrides with renewable energy systems can facilitate reliable hydrogen storage and supply. Overall, this technology is expected to support the widespread adoption of hydrogen as a clean and sustainable energy carrier.



Presentation of Memento to the esteemed resource person Dr. M.Ramgopal Professor, Department of Mechanical Engineering IIT Kharagpur



18-07-2026: Session II: Resource Person talk by Dr. Sandeep Kumar, Associate Professor, IIT Bombay Topic: Hydrogen production from waste biomass

Hydrogen production from waste biomass is a sustainable approach that converts agricultural residues, forestry waste, and organic waste into clean energy. Thermochemical processes such as gasification and pyrolysis, along with biological methods, are commonly used to produce hydrogen from biomass. This approach reduces dependence on fossil fuels while promoting efficient waste management and resource utilization. Biomass-derived

hydrogen has the potential to significantly lower greenhouse gas emissions and support a circular economy. Advances in gas cleaning, catalyst development, and process optimization are improving hydrogen yield and production efficiency. Integrating biomass-based hydrogen production with carbon capture technologies can further reduce the environmental impact. Overall, waste biomass offers a renewable and economically viable feedstock for large-scale green hydrogen production.



**Felicitation ceremony of the resource person Dr. Sandeep Kumar,
Associate Professor, IIT Bombay**



**18-07-2026: Session-3: Resource Person talk by
Mr. Harshit Mittal, Ph.D Scholar , BITS-Pilani, Goa campus
Topic: Green hydrogen fuel balloon-satellite hybrid system with integrated fuel cell
propulsion**
A green hydrogen fuel balloon-satellite hybrid system combines high-altitude balloon

technology with hydrogen fuel cells to provide clean and efficient propulsion for long-duration aerial and near-space missions. Hydrogen fuel cells generate electrical power with water as the only by-product, making the system environmentally friendly. Integrating lightweight hydrogen storage and efficient energy management systems improves overall performance and reliability. This innovative concept has promising applications in atmospheric research, communication, surveillance, and environmental monitoring.



Felicitation of Mr.Harshit Mittal, Ph.D Scholar, BITS-Pilani, Goa campus



Feedback from participants



Certificates distribution to Participants



Certificates distribution to Participants

Co-Convenor

Convenor

Head of the Department

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Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada
L.B. Reddy Nagar, Mylavaram, N.T.R. District, Andhra Pradesh-521230

REGISTERED PARTICIPANTS
DEPARTMENT OF MECHANICAL ENGINEERING
Two-Day National Offline Seminar on
"Techno-Economic Aspects of Green Hydrogen Solutions for Future Energy Security"

Estd. 1998

AS&E, CE, CSE, ECE, EEE, IT & ME Under Tier-I

MAAC

CCPA: 320/4

INSTITUTIONS ASSOCIATION OF INDIA

"Techno-Economic Aspects of Green Hydrogen Solutions for Future Energy Security"

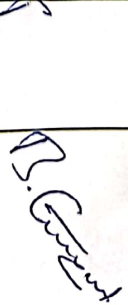
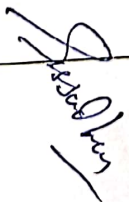
Dates: 17-07-2026 & 18-07-2026

S. No	Email Address	Type of Registration required	Name of the Participant	Designation	Department	Name of Organization/Institute	Place	State	WhatsApp contact number	Payment UTR number	Payment Date	Accommodation required or not
1	ksudhakar@lbrce.ac.in	Academicians - Rs 500/-	Kattupalli Sudhakar	Senior Assistant Professor	AI&DS	Lakireddy Bali Reddy College of Engineering	Mylavaram	AP	901050 3595	① 100611 441603	7/2/2026	8
2	ganjiprabhakar@gmail.com	Academicians - Rs 500/-	Dr Prabhakara Rao Ganji	Associate Professor	Mechanical Engineering	Seshadri Rao Gudlavallur Engineering College, Gudlavallur	Gudlavallur	Andhra Pradesh	833287 7053	② 189778 668129	7/10/2026	

1000/✓

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3	pasupuleitk@lbrc.ac.in	Academicians - Rs 500/-	P. RAVINDRA KUMAR	Professor	Mechanical Engineering	LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING	Mylavaram	Andhra Pradesh	09490381201	126162447770	7/12/2026	
4	bemmanuel@mictecth.edu.in	Academicians - Rs 500/-	BURADAGU NTA EMMANUEL	Assistant Professor	Mechanical Engineering	DVR & Dr.HS MIC College of Technology	Kanchikacherla	Andhra Pradesh	9618366090	769859118863	7/12/2026	
5	anusha.peyyala@pvp-siddhartha.ac.in	Academicians - Rs 500/-	Dr.P.Anusha	Associate Professor	Mechanical Engineering	Prasad V Potluri Siddhanta Institute of Technology	Kanuru, Vijayawada	Andhra Pradesh	9492173371	493678421646	7/12/2026	
6	venkatasaisudheer.s@vishnu.edu.in	Academicians - Rs 500/-	Dr. S Venkata Sai Sudheer	Associate Professor	Mechanical Engineering	Vishnu Institute of Technology	Bhimavaram	Andhra Pradesh	9642938100	501316695039	7/13/2026	Yes 
7	rambaburajavarapu@gmail.com	Academicians - Rs 500/-	RAJAVARA PU RAMBABU	ASSISTANT PROFESSOR	AUTOMOBILE ENGINEERING	ESWAR COLLEGE OF ENGINEERING	NARASARAO PET	Andhra Pradesh	8328258981	581777959443	7/14/2026	No 
8	dhanaraju1984@gmail.com	Academicians	Dr. V. Dhana Raju	Associate	Mechanical	Lakireddy Ball	Mylavaram	Andhra Pradesh	9848363670	165670890239	7/14/2026	No 

3000/-

		-Rs 500/-		Profes sor	Enginee ring	Reddy College of Enginee ring						
9	klprasad1108@gmail .com	Acade micians -Rs 500/-	K Lakshmi Prasad	Senior Assist ant Profes sor	Mechan ical Enginee ring	Lakired dy Bali Reddy College of Enginee ring	Mylavaram	Andhra Pradesh	988582 7526	875696 789834	7/14/ 2026	No
10	kmhar@lbrce.ac.in	Acade micians -Rs 500/-	Murahari Kolli	Associ ate Profes sor	Mechan ical Enginee ring	Lakired dy Bali Reddy College of Enginee ring	Mylavaram	Andhra Pradesh	080741 39826	Nil	7/15/ 2026	No
11	premslines0713@g mail.com	Acade micians -Rs 500/-	Dr.N.Premd asu	Assist ant Profes sor	Mechan ical Enginee ring	Seshadr i Rao Gudlavra lleru Enginee ring College	Gudlavaller u	Andhra Pradesh	965263 3620	126278 168530	7/14/ 2026	No
12	muniyoti7@gmail.co m	Acade micians -Rs 500/-	Dr.M.S.Gird har	Profes sor	Depart ment of Electric al and Electron ics Enginee ring	Lakired dy Bali Reddy college of enginee ring	Mylavaram	Andhra Pradesh	949207 1771	619574 424082	7/14/ 2026	No

1500

13	avgam989@gmail.com	Academicians - Rs 500/-	DR. A.V.G.A.MA RTHANDA.	Associate professor	EEE	LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING	Usha Rama college of Engineering and Technology	Mylavaram	Andhra Pradesh	094416 60989	61966 3395 883		No
14	nandetrarajithkumar@gmail.com	Scholars/ Researchers - Rs 400/-	Ranjith Kumar Nandeti	Assistant professor	Mechanical Engineering			Telaprolu	Andhra Pradesh	832817 7044	300781 373077	7/14/ 2026	No
15	Kishan.n1981@gmail.com	Academicians - Rs 500/-	Nissankara Rao Kishan	Assistant Professor	Mechanical Engineering	Vasireddy Venkatacharya International Technological University		Nambur	Andhra Pradesh	996331 4444	681664 134689	7/15/ 2026	No
16	kolahamsaibabu332@gmail.com	Scholars/ Researchers - Rs 400/-	Kolahalam Sai Babu	Assistant Professor	Mechanical Engineering	Lakireddy Balli Reddy college of Engineering (Autonomous), JNTUK		Mylavaram	Andhra Pradesh	720779 3995	656218 762344	7/15/ 2026	No

1800/-

						(Autonomous), JNTUK						
17	naresh338babu@gmail.com	Academicians - Rs 500/-	Mr.NELAKUDITI NARESH BABU	ASSISTANT PROFESSOR	MECHANICAL ENGINEERING	DVR & Dr.HS MIC COLLEGE OF TECHNOLOGY	KANCHIKACHERLA	ANDHRA PRADESH	90104 19058	656247264648 (16)	7/15/2026	No
18	sumr341@lbrce.ac.in	Academicians - Rs 500/-	SEELAM UMA MAHESWARA REDDY	Assistant Professor	Mechanical engineering	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING	Mylavaram	Andhra Pradesh	99492 12979	116113075179 (17)	7/15/2026	No
19	ramireddy.mec@gmail.com	Academicians - Rs 500/-	Dr S RAMI REDDY	Sr asst professor	Mechanical engineering	LBRCE	Mylavaram	Andhra Pradesh	09491 15302 2			No
20	malliaug01@gmail.com	Academicians - Rs 500/-	MALLIKARJUNARAO DANDU	Sr Assistant Professor	Mechanical Engineering	Lakireddy Bali Reddy College of Engineering	Mylavaram	Andhra Pradesh	97084 32491	479559102647 (18)	7/16/2026	No
21	bhanuprakash.ch@vishnu.edu.in	Academicians - Rs 500/-	BHANUPRAKASH CHEBROLU	ASSISTANT PROFESSOR	MECHANICAL	VISHNU INSTITUTE OF	BHIMAVARAM	ANDHRA PRADESH	94929 73517	708771601704 (19)	7/16/2026	Yes

2000/-

				ESSOR	ENGINEERING	TECHNOLOGY						
22	kamala.jkp@gmail.com	Academicians - Rs 500/-	KAMALA PRIYA BYSANI	Sr. Assistant Professor	Mechanical Engineering	Lakireddy Bali Reddy College of Engineering	Vijayawada	Andhra Pradesh	90305 48830	644228005675 (20)	7/16/2026	No
23	jonnalas@gmail.com	Scholars/ Researchers - Rs 400/-	Jonnala Subba Reddy	Associate Professor	Mechanical Engineering	Lakireddy Bali Reddy College of Engineering, Mylavaram	Mylavaram	Andhra Pradesh	99851 00936			No
24	gnrgudipudi@gmail.com	Academicians - Rs 500/-	Dr.G.Nageswara Rao	Professor	EEE	LBRCE	Mylavaram	Andhra Pradesh	92478 76900	T26071610593 49957673631 (21)	7/16/2026	Yes
25	dattabharadwaz@gvpce.ac.in	Academicians - Rs 500/-	Yellapragada Datta Bharadwaz	Assistant Professor	Mechanical Engineering	GVP College of Engineering(A)	Visakhapatnam	Andhra Pradesh	95814 56166	460365144649 (22)	7/16/2026	Yes

1500/-





LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

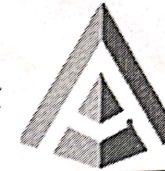
Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada
L.B. Reddy Nagar, Mylavaram, N.T.R. District, Andhra Pradesh-521230



ASE, CE, CSE, ECE,
EEE, IT & ME
Under Tier-I



CGPA: 3.20/4



SPOT REGISTRATION FORM DEPARTMENT OF MECHANICAL ENGINEERING Two-Day National Offline Seminar on

"Techno-Economic Aspects of Green Hydrogen Solutions for Future Energy Security"

Dates: 17-07-2026 & 18-07-2026

S.No	Name of the Participant	Name of the Institute/Organization	Place	Name of the Department	Faculty/Research Scholar/M.Tech/Industry Persons	Amount Rs (400/500/600)/- Paid or Not	UTR Number	Signature	Do you need accommodation (Yes/No)
1	Mr. S. Dakshina Murthy	LBRCE	Mylavaram	ASE	Faculty	500/- 23	Cash	[Signature]	No
2	Dr. Kumare Raju	LBRCE	Mylavaram	FED	Faculty	500 24	Phone 300537513712	[Signature]	No
3	Dr. M. N. Suresh Babu	PVPSIT	Vijayawada	Mechanical	Faculty	500/- 25	Cash	[Signature]	No
4	Dr. E. Siva Krishna	Dr. RVR NRIIT Debu	Vijayawada	Mechanical	Faculty	500/- 26	Cash	[Signature]	No
5									
6									
7									

12,800/-

2000

