

National Hands-on Training Programme *on* **Biogas Technology and its Implementation**

(Biogas Generation, Enrichment, Design, Testing, Operation & Maintenance, and Policy & Financing)

Feb 19-23, 2024

Jointly Organized by



Sardar Swaran Singh National Institute of Bio-Energy

(An Autonomous Institution of Ministry of New and Renewable Energy, Govt. of India)

Kapurthala, Punjab

and



Indian Biogas Association (IBA)
Gurugram, Haryana

About the Institute (SSS-NIBE)	Sardar Swaran Singh National Institute of Bio-Energy is an autonomous Institution of the Ministry of New and Renewable Energy, Govt. of India. The vision of the Institute is to carry out <i>state-of-the-art</i> research and development, demonstration, testing and standardization activities, including human resource development at all levels, post-doctoral research and research for wide promotion of bioenergy in the country. SSS-NIBE is located in the state of Punjab on Jalandhar-Kapurthala Road, 18 km away from Jalandhar city towards Kapurthala. The Institute is located in between Punjab Technical University and Pushpa Gujral Science City. Jalandhar is well connected both by railways and roadways with the nearest airport at Amritsar.
About IBA	Indian Biogas Association, an NPO working towards its vision of propagating biogas in a sustainable way. It is the first nationwide and professional biogas association of operators, manufacturers, and planners of biogas plants, representatives from public policy, science and research in India, and all other stakeholders of biogas ecosystem. In pursuit of its continuous effort to promote biogas in a sustainable manner, IBA endorses and supports several flagship programs of the Government of India, namely The Swachh Bharat Mission, GobarDhan Yojana, Sustainable Alternative towards Affordable Transportation (SATAT), and National Bioenergy Program (NBP), and Waste to Energy market, which is in line with various urban development schemes from Government such as Smart City Mission, Swachh Bharat Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana-Urban (PMAY-U), Heritage City Development and Augmentation Yojana (HRIDAY) Solid Waste Management rules and so on.
Background	The Ministry of New and Renewable Energy (MNRE) has been supporting programmes for promoting biogas as a clean fuel for domestic cooking, off-grid and grid power generation and bio-CNG for transport applications. Biogas generation from agriculture waste is also emerging as potential area not only for biogas generation but also as climate change concerns in view of recent environmental risk due to burning of paddy straw in the farms of Haryana and Punjab states. In addition, recent studies showed algae as 3 rd gen biomass feedstock derived through wastewater treatment has the potential to integrate with biogas production. Thus, there is a strong need to take up research and development initiatives for technology development and demonstration to integrate biogas technology for biogas generation and up-gradation for heat and power applications and bio-fertilizer for sustainable energy and agriculture development.
Objectives	<p>The main objective of the national training programme is</p> <ul style="list-style-type: none"> ✓ To create awareness, need and prospects of biogas technology in India. ✓ To introduce the importance of biogas and various aspects of biogas plant design, operation and maintenance. ✓ To enlightens the various factors for bio-methane enhancements, Consortium development. ✓ Integration of algal technology with anaerobic digestion and biogas production. ✓ Utilization of enriched bio-methane of bio-CNG quality and standards for off-grid and grid power generation. ✓ To familiarize with policy making and financing for industrial projects for biogas production and up-gradation ✓ To expose latest technological advancement in context of biogas production, enrichment and bottling.
Organizing Committee	<p>Chairman: Dr. G. Sridhar, Director General, SSS-NIBE</p> <p>Coordinators: Dr. Sachin Kumar, Scientist, SSS-NIBE Dr. Sanjeev Mishra, Scientist, SSS-NIBE Dr. Senthil Nagappan, Scientist, SSS-NIBE</p>

Key note lectures	A hand-on training will be provided to the participants about various techniques used for biogas technology, CBG, bioCNG, and algal technology. The experts will be invited from R&D/Academic/Financing Institutions, Ministry and Industries for delivering lecture in the training programme.	
Themes	[1] Biogas Process and Design [2] Biogas Operation & Maintenance [3] Biogas Up-gradation and Power Generation	[4] Application of algal technology in biogas [5] Biogas Policy & Financing
Participants	<p>The aim of this programme is to impart training to SNDs/ SNAs/ BDTCS/ KVIC, Manufacturers of Biogas Plants, Purification Systems, Engines, Gas Flow Meters, Project Developers, Implementers, Consultants, Biogas Aspirants and Start-ups, to various aspects of biogas technology like biogas generation, enrichment, design, Operation & Maintenance, and Policy & Financing to familiarize them with the importance of biogas as a fuel and present status of biogas programme, inter-alia details about how biogas is upgraded to CBG & bioCNG. The programme is also intended for field supervisory functionaries involved in the implementation of biogas programmes.</p> <p>The interested candidates may fill the form online with the link: https://docs.google.com/forms/d/17F9TyG_QUnRPuBPTQxUMBd-uRwIK3IPT9DSjknAbkE/edit or visit the website http://nibe.res.in/event.php</p>	
Fee	Industries/ stakeholders/ government/ faculty: INR 10,000 (including 18% GST) Female stakeholders: INR 5,000 (Including 18% GST) Students/ research scholars/fellows: INR 5,000 (Including 18% GST) (No. of seats: 25 only, based on first come first serve basis); Reg. fee includes: Accommodation, meals, and industry visit	
Payment Details	Payment mode: NEFT/ IMPS Bank: Canara Bank, NIT Jalandhar Branch A/c Name.: Sardar Swaran Singh National Institute of Bio Energy A/c No.: 2945101004798; IFSC Code: CNRB0002945	
Important dates	Submission of application starts: Dec 15, 2023 Registration Ends: Feb 15, 2024 Date of Training: Feb 19-23, 2024	
Venue	Sardar Swaran Singh National Institute of Bio-Energy, Jalandhar-Kapurthala Road, Wadala Kalan, Kapurthala-144603 (Punjab), India	
Contact details	Sardar Swaran Singh National Institute of Bio-Energy, Jalandhar-Kapurthala Road, Wadala Kalan, Kapurthala-144601 (Punjab) India E-mail: sachin.kumar20@gov.in ; biogas.nibe@gmail.com ; sanjeevmishra@nibe.res.in Website: http://nibe.res.in ; Phone No. 09988864647/ 8638521921 (M)	

Indian Biogas Association

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Corrigendum

Bank Account Details for NEFT/ IMPS for registration of National Hands-on Training Programme on Biogas Technology and its Implementation during Feb 19-23, 2024 at SSS-NIBE, Kapurthala are as follows:

A/c Name.: Sardar Swaran Singh National Institute

A/c No.: 2945101004798

IFSC: CNRB0002390

Bank Name: Canara Bank, Jalandhar

Sachin Kumar