



UKIERI
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The University of
Nottingham

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Two-day workshop

Issues and Prospect of Nutrient recovery from Bioenergy System for rural community

27-28 July 2015

Department of Energy, Tezpur University

A Workshop to mark the completion of UGC-UKIERI collaborative project
*Optimising phosphate recovery from community bio-energy system:
low cost sustainable fertilizer production for rural community*



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**Issues and Prospect of nutrient recovery from Bio-energy system for rural community
27-28 July, 2015
Department of Energy, Tezpur University**

(A Workshop to mark the completion of UGC-UKIERI collaborative project *Optimising phosphate recovery from community bio-energy system: low cost sustainable fertilizer production for rural community*)

Day 1 Monday 27 July 2015

Inaugural Session

10.00-12.00

Seminar Hall

10.00-10:30: Refreshment	
10.30-10.40	Welcome Address & Background note - D C Baruah, PI UGC-UKIERI, Tezpur University
10.40-10.50	Felicitation to the dignitaries
10.50-11.00	Research on Bio-energy in the Department of Energy - Prof. D. Deka, HoD, Department of Energy, Tezpur University
11.00-11.15	Highlight of collaborative works between University of Nottingham & Tezpur University as follow up actions of MoU 2010 - Prof. Michele Clarke, Asst Pro VC, University of Nottingham, UK
11.15-11.18	Exchange of Extended MoU 2015 - Prof. Michele Clarke, Asst Pro VC, University of Nottingham, UK & - Prof. Amarjyoti Choudhury, Pro VC, Tezpur University
11.18-11.30	Inaugural Address - Prof. Amarjyoti Choudhury, Pro VC, Tezpur University
11.30-11.35	Highlight of Collaborative Works at Tezpur University - Prof. D K Bhattacharyya, Dean School of Engineering, TU
11.35-12.00	Sharing Experience of working with UGC-UKIERI Project - Farmers/Students/Faculties participants (Samprit Kataki /Rupam Patowary/Dipam Patowary/Saiful Islam/ Dipal Baruah /Pranjal Das/Hemantajeet Medhi/Helen West/PP Dutta)

**Workshop Session I: Know how dissemination 12.00-13.30 Seminar Hall
(Chair: Prof P Mahanta, IIT Guwahati, Co Chair: Dr. (Mrs) Sadhana Rayalu, NEERI, Nagpur)**

12.00-12.45	Issues of handling and utilization of Bio-energy By-products (AD/Gasification): Sharing Users' experiences - Coordinated by Gunajit Dev Sharma/Sampriti Kataki /Dipal Baruah
12.45-13.30	Closing the Circle: maximizing the use of bioenergy residues – outcomes of UKIERI project - Michele Clarke/Helen West/D C Baruah
13.30-14.00	Working Lunch

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**Workshop Session II: Issues and prospects of utilisation of Bio-energy 14.00-16.00 Seminar Hall
(Chair: Prof K K Baruah, Tezpur University; Co Chair: Dr Rupam Kataki, Tezpur University)**

14.00-14.10	Enhancing conversion and utilization of Bio-energy Systems through use of Catalysts - Dr. (Mrs) Sadhana Rayalu, Principal Scientist, CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur, India
14.10-14.20	R & D issues for enhancing biogas use in rural areas of Assam - Prof. Pinakeswar Mahanta, Professor, IIT Guwahati
14.20-14.30	Improvised Bio-energy utilisation : attractive option for balancing the issues of efficiency, emissions, carbon footprint, cost & implementation - Dr. Nitin K. Labhsetwar, Senior Principal Scientist, CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur, India
14.30-14.40	Domestic uses of biogas: some issues concerning rural areas in Assam - Er. Manasjyoti Barooah, Assistant Professor, Assam Agricultural University, Jorhat, India
14.40-14.50	Application of biogas slurry for crop production: experiences of AICRP on RES - Dr. Samarendra Hazarika, Principal Scientist, Indian Council of Agricultural Research-NEHR, Barapani, Shillong, India
14.50-15.00	Experiences of installing Bio-power project in Sonitpur district for decentralized electricity generation - Mr. Prokash Dutta, CEO, Cleanopolis Energy Systems India Pvt. Ltd. Sonitpur, Assam, India
15.00-15.10	Experience of utilising rice husk for thermal power in food processing in Tezpur - Mr. Krishna Gopal, Director, Nebisco Industries Pvt. Ltd., Tezpur, Assam, India
15.10-15.20	Small scale biogas production and purification: Techno-economic challenges - Mr. Vandit Vijay, Research Scholar, Centre for Rural Development and Technology, IIT Delhi
15.20-15.30	Need of extension education strategy for popularising Bio-energy in rural areas - Prof. Chris Atkin, Professor, Bishop Grosseteste University, UK
15.30-15.40	Bio-energy could be prospect for organic tea production: sharing experience of tea plantation in Assam - Mr. Samir Phukan, Director, Bahani Tea Company, Assam, India
15.40-15.50	Locally available biomass for thermal energy in tea processing in Assam - Dr P P Dutta, Associate Professor, Department of Mechanical Engineering, Tezpur University
15.50-16.00	Value added products from Bio-gasification tar - Mr. Hemantajeet Medhi, Assistant Professor, Bineswar Brahma Engineering College, Assam, India
16.00-16.15	Tea Break

Workshop Session II: Bio-energy By-products - demonstration and Users' interaction 16.15 - 17.15

16:15 - 17:15	Management & utilization of AD slurry and Gasification tar
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Day 2, Tuesday, 28 July, 2015, Field Visit

10.00-15.30	<ul style="list-style-type: none"> - AD units with UGC-UKIERI R&D intervention in Amolapam Village, Sonitpur District; - 2.5 MW biogas based electricity generation plant - Cleanopolis Energy Systems India Pvt. Limited, Sonitpur District - 600 kWth Nebisco Industries Pvt. Limited followed by - Lunch & Wrapping up
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