

MHRD scheme on Global Initiative for Academic Network (GIAN)

August 1-12, 2016

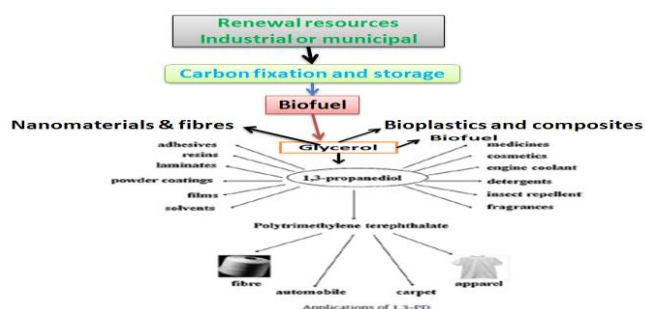
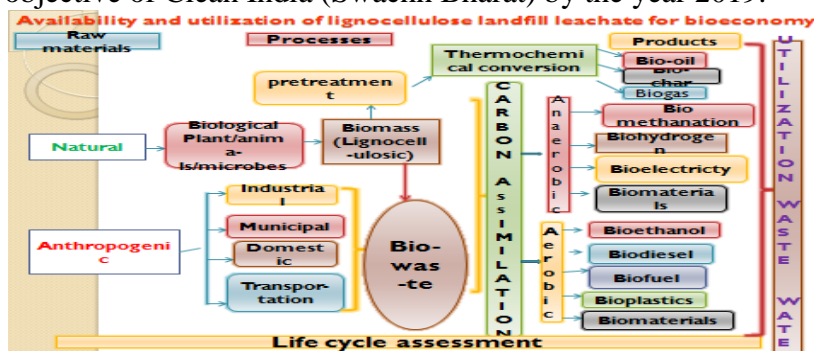
School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, INDIA

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SOLID WASTE MANAGEMENT TECHNOLOGY AND BIOVALORIZATION

Overview

Solid waste is the unwanted or useless solid materials generated from combined residential, industrial and commercial activities in a given area. Management of solid waste reduces or eliminates adverse impacts on the environment and human health and supports economic development and improved quality of life. A number of processes are involved in effectively managing waste for a municipality, industrial and agriculture sources. These include monitoring, collection, transport, processing, recycling and disposal. Integrated Solid Waste Management (ISWM) takes an overall approach to creating sustainable systems that are economically affordable, socially acceptable and environmentally effective. It is proposed that inventory data related to waste generation will be discussed by GIS and base line studies for bio-utilization and bio-valorization of solid waste. The technology options available for processing the Solid Waste (MSW) are based on either bioconversion or thermal conversion depending upon the composition of waste. The major composition of waste is lignocellulosic in nature which may be used for bio-conversion process to form biofuel or to generate biogas such as methane (waste to energy), compost, residual sludge (manure) and value added products including bioplastics by biovalorization processes such as aerobic, anaerobic and vermi-composting methods. The thermal conversion technologies are incineration with or without heat recovery, pyrolysis and gasification, plasma pyrolysis and pelletization or production of Refuse Derived Fuel (RDF). It is believed that present efforts will be useful to enhance activities of **Swachh Bharat Abhiyan** to facilitate and channelize individual philanthropic contributions and Corporate Social Responsibility (CSR) funds to achieve the objective of Clean India (Swachh Bharat) by the year 2019.



Module	Solid waste management technology and biovalorization : August 1-12, 2016 Number of participants for the course will be limited to thirty which will be selected
You should attend if..	You are a Researcher, Engineers, Faculties, Industrial person, Person from Govt. Organization working on environmental solid and waste water management and bio-refinery processes
Fees	Participants from abroad : US \$500 Participants from India M.Sc. students of JNU other recognized Universities: Free M.Phil/Ph.D. students : INR 1,000/- Scientists/Faculties from Indian Institutions/Universities: INR 2,000/- Industry/ Research Organizations: INR 10,000/- The above fee includes all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, free internet facility during lecture and practical session. The participants will be provided accommodation on payment basis if available in the University.

Teaching faculty

Professor R.D.Tyagi
Biochemical Engineering at INRS-ETE
Université du Québec., Canada.

Professor I.S.Thakur
School of Environmental
Sciences, JNU, New Delhi

Prof. Dinesh Mohan
SES, JNU,
N.Delhi

Dr. Paul Raj R.
SES, JNU
N.Delhi

