

## Curriculum Vitae

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### **Educational Qualification:**

B.E. in Mechanical from Assam Engineering College in 2003  
M.E. in Industrial and Production Engineering in 2006  
PhD in Solid Waste Management from Gauhati University in 2017

I am working as an Assistant Professor since 2007 at Assam Engineering College. I have been in the field of Solid Waste Management for more than 8 years and my field of research is Municipal Solid Waste Management. In my past experience in the field of waste management, my endeavour has been to enhance my skills and knowledge through research and in depth study of different waste management systems. I presume to have a holistic understanding of socio economic and technical issues surrounding waste management and sustainable development.

Some of my relevant experiences are as follows:

1. Received Design patent with registration No. 267479 of "Waste Segregation Bin" from Patent Office, Kolkata, Govt. of India in 2014.
2. Participated in State Level Workshop on Solid Liquid Waste Management on 29<sup>th</sup> & 30<sup>th</sup> June, 2015 organised by Rural Water Supply & Sanitation Project assisted by World Bank.
3. Designed and developed a complete municipal waste management model with the core objectives of affordability, economic viability and environment sustainability in July, 2015.
4. Was invited for participating and demonstration of affordable waste management system at the Regional Workshop on Swachh Survekshan, 2107 held on 12<sup>th</sup> November, 2016 at Guwahati.

5. Represented Assam for All India Innovation Festival, 27<sup>th</sup> to 29<sup>th</sup> January, 2017 held in Science City, Kolkata, organised by Govt. of India.
6. Was invited for participating in Swachh Survekshan, Assam organised by Swachh Bharat Mission (Gramin) on 16<sup>th</sup> & 17<sup>th</sup> February, 2017.
7. Was invited as a resource person for state level workshop on Municipal Solid Waste management organised by Swachh Bharat Mission, Assam & Urban Development Department on 11th April, 2017.
8. Was invited as a resource person for state level workshop on Municipal Solid Waste management for the Chairman person of ULBs organised by Directorate of Municipal Administration, Assam & Urban Development Department on 5th July, 2017.
9. Was invited as a resource person by different municipal boards for providing hands on training and installation of pilot scale composting unit at Haflong, Goalpara, Bongaigaon, Dhubri, Bilasipara etc. in July, 2017.
10. Was engaged in installation of composting units at 10 different locations in Guwahati which included educational institutions & markets in August, 2017.
11. Was invited as a Keynote speaker for a seminar on "Urban Waste Management for a smart city: Problems & Prospects of Guwahati City" at Assam Institute of Management, Guwahati on 12<sup>th</sup> September, 2017.
12. Was invited as one of the 10 jury members for "Clean Campus Award 2017" by AICTE in September 2017.
13. Was invited as the Guest of Honour for Foundation day Celebration of Indian Oil Corporation, Guwahati on 1<sup>st</sup> January, 2018.
14. Has been engaged as an expert for planning and implementation of scientific Solid Waste Management system at Kamakhya temple, Guwahati under Swachh Kamakhya.
15. Carried the responsibility as the President of a Non Government Organization, Care Assam and involved in addressing key local issues. Organised training programmes on health, sanitation, waste segregation, livelihood, health and safety etc. of rag pickers and other deprived groups.
16. Was in consultation with different municipalities in different parts of the country like Bangalore, Hyderabad, Kolkata, Meghalaya, Assam etc. and also in United Kingdom and Australia for studying the best practices in the field of waste management and mechanisms of waste disposal systems.
17. Has been engaged as an expert for implementing Solid Waste Management in 8 towns in Assam namely Bongaigaon, Haflong, Umrangso, Mahur, Tihu, Pathsala, Patacharkuchi & Lumding.
18. Has been selected as one of the experts for Policy making on Solid waste Management of Assam.

Published different papers in National and International Journals and presented in different conferences in the field of waste management. Some of the papers in this field are as mentioned below:

- i. Improved Segregation of Recyclable Materials in Guwahati City, India: A Case Study. Published on The Clarion, International Multidisciplinary Journal, Vol 2 No.2 (2013) PP 46-52, ISSN: 2277-1697.
- ii. Fabrication & testing of dry waste sorting machine. Published on International Research Journal of Engineering and Technology. e-ISSN: 2395 -0056 Volume: 02 Issue: 09 | Dec-2015. ISSN: 2395-0072.
- iii. Waste composting a sustainable practice. Published on International Journal for Innovative Research in Science & Technology. ISSN (online): 2349-6010 Volume 2 | Issue 11 | April 2016.
- iv. Recycling- A Sustainable Model. Conference paper presented on International Conference on Environmentally Sustainable Urban Ecosystems (ENSURE 2012) at IIT, Guwahati, India.
- v. Refuse to Resource: Methodology for segregation, Recycling & Reuse of Solid Municipal Waste. Conference paper presented on International Seminar on Bio resource and Human Sustenance at Cotton College, Guwahati, India (October, 2011).
- vi. A Comprehensive Study on Domestic Source of Municipal Solid Waste (MSW) of Guwahati City in North-East India: Generation Trend and Characterization. Conference paper presented on International Conference on Waste Management (RECYCLE 2016) at IIT, Guwahati, India.
- vii. Modelling Affordable Waste Management Solutions for India. Conference paper presented on International Conference on Waste Management (RECYCLE 2016) at IIT, Guwahati, India.
- viii. Waste Segregation and Composting. Conference paper presented on National Seminar on Green Energy- Prospects and Challenges at Assam Science & Technology University, April, 2016. ISBN 9789383588-11-4.

- ix. Eco Design in Waste Management. Conference paper presented on National Conference on Emerging Trends in Engineering: Opportunities In North-east India at Royal Group of Institution, Guwahati, April, 2016.
  - x. Water Quality and Waste Management. Paper published on World Water Day, 22<sup>nd</sup> March, 2015, Institute of Engineers (India) Assam State Centre.
  - xi. Source Segregation of Municipal Solid Waste. Paper presented on International Conference on Civil Engineering for Sustainable Development – Opportunities and Challenges, at Assam Engineering College held from 19th to 21st December 2016 in Guwahati, Assam, India.
19. Guided different students' projects on Waste Management for B.E. as well as M.E. which included projects on Waste Characterisation, Preparation of RDF blocks from waste plastic, Minimization of pollution from Incineration Industry in Guwahati, Semi Mechanized Segregation of Waste, Recycling of EPS to name a few.



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