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POLeNEWS

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Turning e-waste to electricity: IIT Madras innovation waits for takers

NEW DELHI: Scientists at IIT, Madras have come up with a novel technique where e-waste can be used as a resource not only to treat waste water but also to generate electricity simultane ously, making it an important innovation to deal with fast growing menace of such hazardous waste in the country.

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One stop solution for Plastic Industries

Tender Information

Tender .....

Supply, Installation and Commissioning of Automatic Platic Injection Moulding Machine.

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Events .....

ufi Approved Event

Chinaplas® 2016 国际橡塑展

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Turning e-waste to electricity: IIT Madras innovation waits for takers

NEW DELHI: Scientists at IIT, Madras have come up with a novel technique where e-waste can be used as a resource not only to treat waste water but also to generate electricity simultaneously, making it an important innovation to deal with fast growing menace of such hazardous waste in the country.

Under this technique, scientists use e-waste component like "LED\LCD (liquid crystal coated polaroid) glass" as an electrode material in 'Microbial Fuel Cells' (MFCs) which is primarily a technology used for only waste water treatment. Use of e-waste as an electrode, however, helps it to generate electricity and recover metals for reuse.

"The basic concept that we use in this study is 'use of waste to treat waste'. The MFC is a pollution free process. It considerably reduces the organic waste treatment cost by producing electrical energy without combustion of fossil fuels",said a joint paper of the IIT, Madras scientists, Praveena Gangadharan and Indumathi M Nambi. Gangadharan has developed this technique under the guidance of Indumathi Nambi, associate professor in the department of civil at IIT, Madras.

Technologies available in the country at present are generally meant for only recovering and recycling components like glass, plastic, printed circuit board, hard drives, batteries and valuable metals. But this new technology,the scientists claim, can use LED\LCD glass component of e-waste for the twin jobs - waste water treatment and electricity production. Though the scientists had invented it over two years ago with financial support of science & technology and HRD ministries, it could not move out of the lab despite being recognised through award during innovation festival at Rashtrapati Bhavan here in March, 2015.

Unable to find any taker of this technology at this stage, the IIT Madras is now planning to approachthe Technology Development Board (TDB) of the science & technology ministry. The Board was constituted in September 1996 as a statutory body to promote development and commercialization of indigenous technology and adaptation of imported technology for wider application.

"We will approach the TDB which can help the innovation move out of the lab so that it can reach out to industries or starts-up for adaptation and wider application", said Nambi. She told TOI that the techn-ique has successfully been tested and demonstrated and it's now time to take this out of the lab.

"Cheaper, economical and eco-friendly process of this kind can be utilised for large scale application with suitable process development", said the joint paper on this innovation.

Once adapted successfully, the new technique will go a long way in dealing with e-waste in an eco-friendly and cost-effective manner.

As per the United Nations University report, 17 lakh tonnes of e-waste was generated in India in 2014. In its report released last year, the industry body Assocham had claimed that the country's e-waste production may increase by nearly three times in next three years from the existing 18 lakh tonnes to 52 lakh tonnes per annum by 2020.

Courtesy; Times of India

CIPET Trained Candidates for Placement

Area of Specialization : Conventional Milling & CNC Lathe – Machining & Programming Techniques, Film Extrusion Techniques, Plastics Materials, Testing & Quality Control of Plastics Materials & Products, Plastics Processing Techniques, Plastics Recycling Techniques, Blow Moulding & Injection Moulding.

Candidates Region: PAN India

Sl. No.	Name of the Course	No. of candidates	Trained at	Course Completion
1	Machine operator Assistant-Plastics Recycling (MOA-PR), Machine Operator Assistant-Injection Moulding (MOA-PP), CNC Mlilling Programming Techniques & Machining Operations & Plastic Processing Machine Operator	195	CIPET – Baddi, Balasore, Jaipur & Vijayawada	1st Week of April 2017
2	CNC Operator (VMC), Plastics Extrusion Machine Operator, Injection Moulding Machine Operator, Plastics Processing Machine Operator & Testing & Quality Control for Plastics Materials & Products (TQC)	139	CIPET – Ahmedabad, Aurangabad, Raipur	2nd Week of April 2017
3	Programming & Operation of CNC Milling Machine, Machine Operator Assistant - Plastics Extrusion, Machine Operator Assistant - Plastics Recycling, Autocad & CNC Milling - Programming & Operation, Maintenance of Machinery, Machine Operator Assistant-Injection Moulding, Plastic Processing Machine Operator, Machine Operator- Blow Moulding	382	CIPET – Ahmedabad, Balasore, Bhopal, Bhubaneswar-II, Imphal, Jaipur, Vijayawada	3rd Week of April 2017
4	Machine Operator Assistant - Plastics Extrusion, Machine Operator Assistant - Plastics Recycling, Machine Operator Assistant - Plastics Processing, Milling, Machine Operator Assistant- Injection Moulding, Plastic Processing Machine Operator, Machine Operator- Film Extrusion, Plastics Product Manufacturing Technology, Testing & Quality Control for Plastics Materials & Products	543	CIPET – Aurangabad, Baddi, Bhubaneswar-II, Imphal, Jaipur, Kochi, Lucknow, Mysore, Raipur, Valsad	Last Week of April 2017
		1259		

For Recruitment Please Contact :

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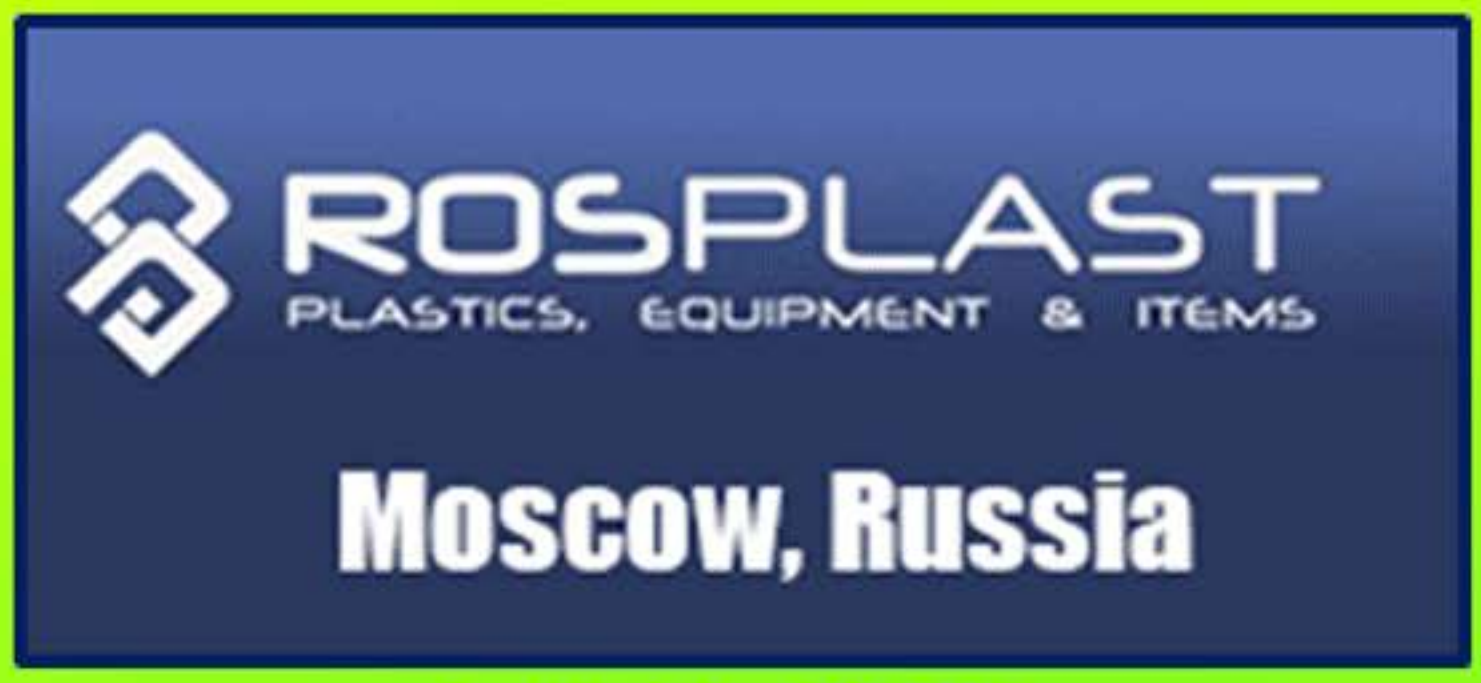
Plastics Tender Information

Sl.No.	TENDER TITLE	COMPANY NAME	OPENIG DATE	CLOSING DATE
1	Supply, Installation and Commissioning of Automatic Plastic Injection Moulding Machine	National Small Industries Corporation http://www.nsic.co.in/tenders.asp or http://www.nsic.co.in/nsictenders/palsticinj042017.pdf	01-Apr-2017	20-Apr-2017
2	Pre Qualification Cum Supply Of PP Bags	The Fertilisers And Chemicals Travancore Ltd http://www.fact.co.in/ContentPage.aspx?sid=53	30-Mar-2017	19-Apr-2017
3	Supply Of Plastic Sheets	UP Rajya Vidyut Utpadan Nigam Ltd http://apps.uprvunl.org or http://apps.uprvunl.org/uprvunltender/canpara.aspx?a=Material%20Tender	23-Feb-2017	07-Apr-2017
4	Plastic Pot	Directorate of Purchase and Stores, DAE https://etenders.dpsdae.gov.in/	20-Mar-2017	17-Apr-2017
5	Plastic Chairs	Ministry of Railways http://ireps.gov.in or http://ireps.gov.in/cgi-bin/epsvendor/epsvendor/rfq/nitPublishAnonymous.do?basicParam=published&nitId=1746488	21-Mar-2017	24-Apr-2017
6	Thermoplastic hose	Ministry of Railways http://ireps.gov.in or http://ireps.gov.in/cgi-bin/epsvendor/epsvendor/rfq/nitPublishAnonymous.do?basicParam=published&nitId=1748517	22-Mar-2017	17-Apr-2017
7	Water Bottle Plastic	DG of Central Industrial Security Force,MHA http://www.cisf.gov.in	14-Mar-2017	07-Apr-2017
8	(Duro fit D.N. 75mm S.W.R U-PVC pipe) RR Site/Stations/Common/CMM/PPF/68032 for Supply of 75mm PVC pipe.	Nuclear Power Corporation of India Ltd https://npcil.etenders.in/indexes/view_tender_details/25159 or https://npcil.etenders.in/tender_document/tender_25159/tender_doc/68032_NIT_and_Tender_Fee_1.pdf	21-Mar-2017	18-Apr-2017
9	Fish Tail Flushing Head HDPE	Ministry of Railways http://ireps.gov.in or http://ireps.gov.in/cgi-bin/epsvendor/epsvendor/rfq/nitPublishAnonymous.do?basicParam=published&nitId=1760516	31-Mar-2017	24-Apr-2017
10	Tender for Supply of HDPE Caps (40 mm), to Lube Oil Blending Plants at Wadilube , Tondiarpet, Loni and Budge-Budge over a period of Two Years	Bharat Petroleum Corporation Limited https://bpcleproc.in or https://bpcleproc.in/EPROC/viewtender/22683	31-Mar-2017	17-Apr-2017

Event Information

May 3 - May 6, 2017

May 16 - May 19, 2017



Jun 20 - Jun 22, 2017

For Publishing your polymer related articles / news, advertising your product in our next E-issues, kindly contact or send mail to ; -

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