

# CSIR in Media



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## Road made of waste materials in Roorkee

CSIR-CBRI

17<sup>th</sup> May 2017

For the first time in India, a geopolymer concrete road made of fly ash and other waste materials has been successfully laid at Central Building Research Institute (CBRI), Roorkee. The road was made of fly ash, the ash produced by the burning of powdered coal, from NTPC Dadri. The road, which is 50m long and 3m wide and has a concrete strength of 40MPa, was made from fly ash, aluminate and silicate-bearing materials. As opposed to conventional cement concrete roads, this road will not need water curing.

This achievement paves the way for large-scale fly ash utilisation, NTPC

Dadri officials said. The road has been developed jointly by NTPC Dadri's research and development wing — NTPC Energy Technology Research Alliance — and CSIR.

S K Sinha, group general manager, NTPC Dadri said fly ash discharged from the Dadri power station is being used for various purposes, such as landfilling, manufacture of ash bricks, tarring of roads and the creation of an 'ash mound' eco park. "Medicinal and other plants have also been cultivated on the ash mound. Ash utilization has been around 205% this year," Sinha said.

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[TOI](#)

[Governance Now](#) [Energy Infra Post](#) Millenium Post, Page 13



## Checks on ORR to rein in speed demons

CSIR-CRRI

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In order to control road accidents on the Outer Ring Road (ORR), the Hyderabad Metropolitan Development Authority (HMDA) has decided to set up transverse bar marking, speed arresters, metal beam crash barriers, optical speed bars, road marking and speed limit markings at every 10 kms and others. CSIR-Central Road Research Institute (CRRI) recently sent a proposal to the HMDA to this effect and the latter has decided to implement the proposals at the earliest.

The HMDA constructed eight-lane access controlled expressway as ORR (the total length of ORR is 158.0 km) has been designed for a speed of 120 km per hour, whereas the CSIR-CRRI carried a study for the inadequacy of safety on ORR.

After carrying out the study on safety of ORR expressway, the CRRI proposed some of the safety measures which include transverse bar marking at places where traffic calming is required such as sharp horizontal curves and crash prone locations.

Speed arresters shall be placed using roads studs not less than 10 rows with the raised marking on both the left side and the right hand sides to reduce the speed of vehicles up to the proposed speed limit.

Metal beam crash barriers will enhance the safety on the expressway. The central median shall be properly provided with double beam crash barriers with reflector stickers pasted on it, coupled with delineators on either side of the median.



The CRRI also proposed optical speed bars at 4 metre interval perpendicular to the median edge lines. These are white thermoplastic stripes which can be painted inside the median side edge marking and each bar shall be of 25 to 30 cm, 15 cm long and 8 mm thick. The CRRI also asked for road marking like directional marking.

When asked about the subject, a senior HMDA official told The Hans India that usually accidents happened because of three reasons - engineering, enforcement and education.

The CSIR-CRRI checked the engineering of the roads and said that there was no engineering defect instead asked the HMDA to go for additional precautionary measures such as metal beam crash barriers, speed arresters and many more, he added.

The road safety measured for ORR proposed by CRRI would cost around Rs 40 crore and it would execute the recommendations at the earliest, the official added.

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[Telangana Today](#)



## Marine entrepreneurial cluster mooted in Mandapam area

CSIR-CECRI

16<sup>th</sup> May 2017

The 10-day training programme organised by CSIR-CECRI for fishermen at Mandapam on Monday.

It could produce value added products and help fishermen earn additional income

The Micro, Medium and Small Enterprises – Development Institute (MSME-DI) has suggested marine entrepreneurial cluster in Mandapam area to help the fishermen add value to the fish products and earn income even from fish wastes.

Addressing the 10-day training programme for fishermen in Rameswaram island on “paints and coatings for corrosion and fouling prevention in the seagoing vessels,” organised by CSIR-CECRI on its campus in Mandapam, near here on



Monday, G. Shanmuganathan, Additional Industrial Advisor, MSME-DI said the cluster could be established with valued added, fish and food processing units.

“When all kinds of entrepreneurial training programmes are integrated, the cluster could produce value added products and help fishermen earn additional income,” he said. CECRI could help form the cluster in Mandapam on an experimental basis, he said adding if this proved successful, similar clusters could be formed in Thoothukudi, Cuddalore and Chennai.



“This kind of entrepreneurial linked skill programme will help fishermen and others in marine zones enhance their economic status,” he said and exhorted the fishermen to make use of the training programme to make fishing more productive, generate more income and reduce the loss.

Speaking on the occasion, S. Ravichandran, Senior Manager, Berger Paints, Kolkotta said the interactive nature of the programme helped painting companies and scientists understand the problems faced by fishers and find solutions.

K. Ramesh, managing director, Monarch Industries, Theni, demonstrated paints that could be applied for wooden, steel and fibre fishing boats. He also introduced a paint which could be used to plug holes in the boats even while fishing in wet conditions. D. Velayutham, chief scientist, N. Palanisamy and Syed Azim, retired chief scientist from CECRI made presentations on corrosion and paints. R Rajasekar, senior principal scientist coordinated the programme. S. Angappan, senior scientist, G. Subramanian, senior principal scientist and in-charge of CECRI Mandapam unit and Jerina Bubby, Assistant Director, MSME-DI were present.

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## Symposium on shaping the energy future begins at IIP

CSIR-IIP

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By OUR STAFF  
REPORTER

**DEHRADUN, 11 May:** A two-day National Technology Day Symposium on "Shaping the Energy Future: Challenges & Opportunities (SEFCO-2017)" was inaugurated by Dr Pushpito K Ghosh, Distinguished Professor, ICT, Mumbai, at the CSIR-Indian Institute of Petroleum (CSIR-IIP), here, this morning.

The symposium was envisioned on the global phenomenon of the energy sector passing through a challenging phase amidst growing consumption, stringent environment regulations, need of increased production within the same infrastructure and reduction in carbon emissions. SEFCO-2017 expects to provide a forum for exchange of information, knowledge, experience and networking opportunities in the field of energy efficiency, energy conversion and technologies and alternate fuels for upgrading sources of energy for future generations in this perspective. This symposium consists of four sessions namely: Alternate Energy & Fuels, Catalysis for Energy & Environment, Process

Intensification & Engineering and Technologies for Future Energy.

Academicians, Scientists, Engineers, Government Organisations, Researchers from Energy Sector, and Pioneers such as CSIR-NCL Pune, IIT Bombay, IIT Madras, CURAJ Rajasthan, CSIR-NEIST Assam, IIT Delhi, IOC Faridabad, RGPIT Amethi, ONGC, Honeywell Technology Solutions and LanzaTech have converged at IIP to interact with young scientists/researchers on the related issues.

Today was chosen for the symposium as, since 1999, this day in India is celebrated as the National Technology Day to mark India's technological advancements beginning with the nuclear tests on 11 May, 1998, at Pokharan, the first test of India's first indigenous aircraft, 'Hansa' at Bangalore and successful test-firing of a short-range missile, 'Trishul', on the same day. This year's theme for the National Technology Day is 'Technology Enablers of Start-up India'.

Beginning with a rendering of the 'Saraswati Vandana' by the students of the Kendriya Vidyalaya-IIP, and lighting of the ceremonial lamp by the Chief



Guest and others, Prasenjit Ghosh spoke about the symposium. This was followed by the introduction of the Chief Guest by Amar Kumar Jain, Acting Director, IIP. Jain spoke about the significance of the National Technology Day, and pointed out that the country was deficient in energy so new methodologies, technologies had to be developed to increase it.

IIP works not only on petroleum but also on waste management and creating fuels from waste plastic, etc.

Chief Guest Dr Pushpito K Ghosh spoke about the relevance of the topic of the symposium and said that the whole world was based on hydrocarbon and suggested ways to extract CO<sub>2</sub> from the environment and its further applications.

Guest of Honour Prof B Viswanathan, IIT Madras, said research should be done according to India's priorities. There was need to think of new ideas, new material and work on that.

Dr Jayati Dwivedi compered the inaugural function, which concluded with a Vote of Thanks proposed by Kirtika Kohli.

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