

CSIR in Media



75 Years of
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CSIR

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सक्षम कचरा प्रबंधन समय की जरूरत : हर्ष वर्धन



नई दिल्ली (ब्यूरो)। केंद्रीय विज्ञान और तकनीक मंत्री हर्ष वर्धन ने चौथे '3आर इंटरनेशनल साइंटिफिक कानफरेंस ऑफ मैटेरियल साइकल्स एंड वेस्ट मैनेजमेंट' का उद्घाटन करने के बाद कहा कि भारत दुनिया में सक्षम कचड़ा प्रबंधन प्रणाली को बढ़ावा देने वाला एक महत्वपूर्ण देश है। सीएसआईआर-इंडियन इंस्टीट्यूट ऑफ पेट्रोलियम द्वारा आयोजित तीन दिवसीय सम्मेलन में जापान, कोरिया और जर्मनी के प्रतिनिधि शामिल हो रहे हैं।

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Amar Ujala, Page 4

Water board ammo: Ground penetrating radar to curb cave-ins, study sewer pipes

CSIR-NGRI

10th March 2017



To take up a detailed study of the existing sewer system and check road cave-ins, the Hyderabad Metropolitan Water Supply and Sewerage Board (HMWS&SB) plans to purchase a ground penetrating radar (GPR).

The GPR detects the condition of the sewer system. After a road caved-in near Clock Tower in Secunderabad in December last year, the water board took help of experts from the National Geophysical Research Institute (NGRI) to study the condition of the sewer lines. Recently, another road cave-in incident occurred near a railway bridge near Minister Road.

"When the water board took the help of NGRI, it was charged Rs 25 lakh to study a five-km sewer line network. If the water board wants to study 600-km length sewer trunk network, it will have to shell out `6 crore. Now, the water board has decided to buy GPR," HMWS&SB director-technical, PS Suryanarayana said.

The HMWS&SB would soon float tenders, he added. Before clearing the proposal, the water board had taken up a study on the sewer system using GPR on pilot basis. "We had conducted study on sewer system near Rail Nilayam, Osmania University, etc. However, the board will take technical assistance from NGRI to analyse the data," the official said. The water board also decided to set up a GIS cell.

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[TOI](#)

CSIR-IICT

March 2017

An innovation by a team from CSIR-IICT has resulted in inexpensive production of dialysis fluid – bringing the cost down to one tenth of the current rate

SCIENCE FOR CHANGE: Team members M. Madhumala and Harsha Nagar receive the Gandhian Young Technological Innovation Award



Cutting costs, saving lives

RESHMI CHAKRAVORTY

DECCAN CHRONICLE

With a rise in the number of Indians suffering from diabetes, the price of dialysis fluid is a matter of concern. Thanks to an innovation by a team from CSIR-IICT, Hyderabad, the cost of the liquid required for making the dialysis fluid has reduced to one tenth.

For this, Dr S. Sridhar, Principal Scientist and Project Leader, Membrane Separations Group, IICT, and his team received the Gandhian Young Technological Innovation Award, instituted by National Innovation Foundation (NIF), India and Society for Research and Initiatives for Sustainable Technologies and Institutions. Sridhar's team received the award for their innovation in



My first social venture to set up drinking water plants in villages started when I saw young boys drink directly from a mucky pond

— DR S. SRIDHAR,
PRINCIPAL SCIENTIST AND
PROJECT LEADER

Design of Highly Efficient and Inexpensive Membrane Equipment.

"I was interested in Chemistry from a young age and it was my mother's idea that I do something for the society. My first social venture was to set up water filter plants in remote villages and schools. It all started when I saw a few children in the Nalgonda district drink water directly from a mucky pond. In one tribal village in Rachakonda, there was not enough voltage for the plant to work. Pipes would

get burnt due to this. With persistence, we were able to provide clean water to people there," says Sridhar.

Y.V.L. Ravikumar, the principal technical officer, says, "The innovation helps to prepare ultra-pure water for saline, dialysis fluids in hospitals, and has many more uses."

Elaborating on the experience, Harsha Nagar, a 26-year-old senior research fellow with IICT says, "We were working on the project since the past two years apart from working on our individual PhD pro-

jects, so it was challenging, but worthwhile." Shaik Nazia, another team member concurs.

Madhumala, a 29-year-old research associate recalls, "We wanted to get the system from the labs to the lands, so we made sure that the size of the equipment is user friendly — it's only 2x2 feet," she says. Further sharing the team's work, Dr Sridhar says, "The system is low on maintenance when compared to multi-national companies that charge ₹1 lakh per annum. Some of the systems have been successfully installed in IICT, JNTU and NIPER Laboratories, and for bulk production; the order has been given to a Delhi based organisation."

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Deccan Chronicle