# CSIR in Media





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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।



#### Amar Ujala, Page 4





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



10<sup>th</sup> March 2017

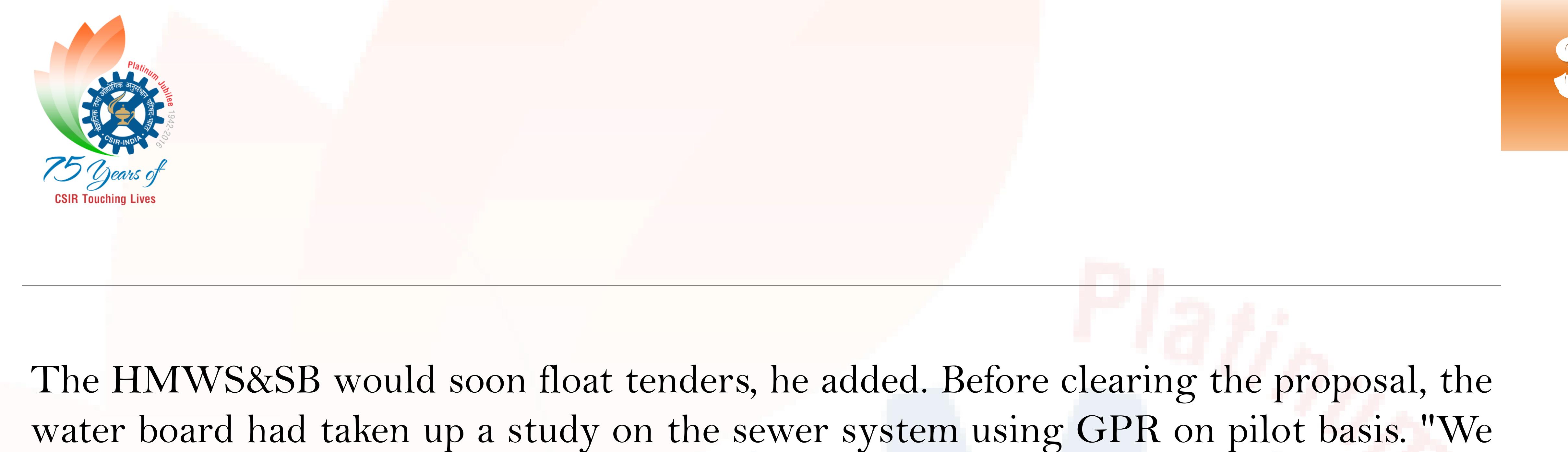


To take up a detailed study of the existing sewer system and check road cave-ins, the Hyderabad Metropolitan Water Supply and Sewerage Board (HMWS&SB) plans to purchase a ground penetrating radar (GPR).

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

"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,"

lines. Recently, another road cave-in incident occurred near a railway bridge near Minister Road.



had conducted study on sewer system using Of R on phot 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.





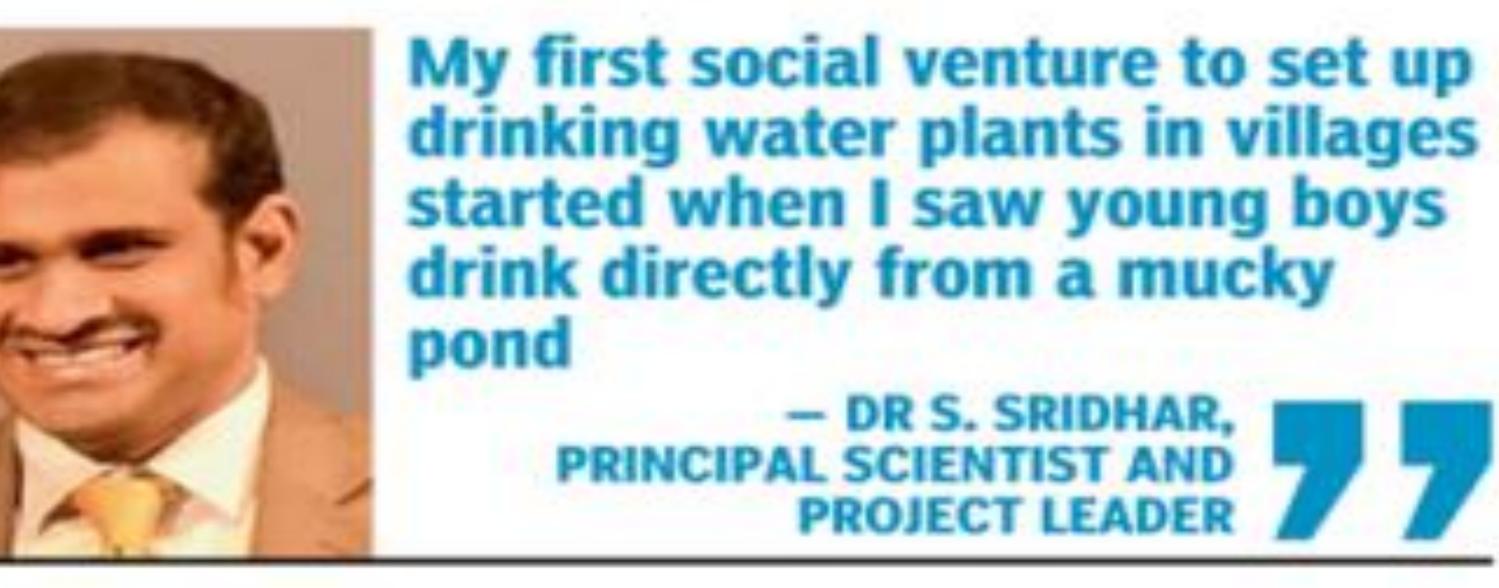


## **Cutting costs, saving lives**

#### **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. Principal Scientist and Gandhian National



and Membrane Equipment.

Award, instituted by lages and schools. It all many more uses." Innovation started when I saw a few

Design of Highly Efficient get burnt due to this. With 2x2 feet," she says. Further Inexpensive persistence, we were able sharing the team's work, to provide clean water to Dr Sridhar says, "The sys-For this, Dr S. Sridhar, "I was interested in people there," says Sridhar. tem is low on maintenance Chemistry from a young Y.V.L. Ravikumar, the when compared to multi-Project Leader, Membrane age and it was my mother's principal technical officer, national companies that Separations Group, IICT, idea that I do something for says, "The innovation charge ₹1 lakh per and his team received the the society. My first social helps to prepare ultra-pure annum. Some of the Young venture was to set up water water for saline, dialysis systems have been Technological Innovation filter plants in remote vil- fluids in hospitals, and has successfully installed in IICT, Elaborating on the expe- JNTU and NIPER Foundation (NIF), India children in the Nalgonda rience, Harsha Nagar, a 26- Laboratories. and and Society for Research district drink water direct- year-old senior research for bulk producand Initiatives for ly from a mucky pond. In fellow with IICT says, "We tion; the order Sustainable Technologies one tribal village in were working on the pro- has been given and Institutions. Sridhar's Rachakonda, there was not ject since the past two to a Delhi team received the award enough voltage for the years apart from working based organifor their innovation in plant to work. Pipes would on our individual PhD pro- sation."

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

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