

# Newspaper Clips

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**TECH FOR A BETTER WORLD**

Some of IIT Delhi's high social impact projects to be showcased in its Open House on April 19

**CHOLESTEROL MEASUREMENT KIT** | Developed by IIT Delhi, this kit costs ₹120. The test can be employed in any lab engaged in lipoprotein measurement. Market price of test minus the kit is ₹5,800

**TRUEHB HEMOMETER** | A mobile phone-size haemoglobin meter. The product has been patented and verified by AIIMS. Expected to diagnose anaemia. Priced at ₹5,000—similar device in market costs over ₹25,000

**ZERODOR** | A waterless urinal tech kit. Attached to a urinal, it can save 1.5 lakh litres of water annually. A patented product, already in use in IIT Delhi, it's priced at ₹2,500

**BIO-GAS SYSTEM** | A small scale biogas upgrading system using water scrubbing technology. Capacity = 20 cubic metres. Commercial capacity may be increased to 500 cubic metres a day. The fuel was tested on a regular CNG car for a distance of over 15,000km with no modifications

**MECHANISM TO STRENGTHEN BEAM AND COLUMN JOINTS** | Uses basalt fibre wrapping for earthquake protection of building. Has been successfully tested using steel fibres in quake conditions measuring as high as 7.6 on Richter scale

**IIT-D shows cheap can be wonderful**  
5 Social Impact Innovations Include Waterless Urinals, Haemoglobin Meter

Manash Pratim Gohain | THN

New Delhi: Be it the urinal which saves 1.51,000 litres of water every year and draws out of the excrement phosphorus—a mineral which India imports—or the Rs 120 cholesterol test which otherwise costs Rs 5,800, or even the low-cost cellphone-size haemoglobin meter that must surely be a boon to a country in which an overwhelming proportion of maternal deaths result from malnutrition-triggered anaemia, for every social problem, IIT Delhi seems to have a technical solution.

Such was the impression of TOI when it looked at the five high social impact products patented and already in use, and part of the Open House show next week. Known as one of the biggest tech shows at the institutional level, it will showcase about 200 innovative projects put together by its faculty and students this year.

The Open House will be organized on April 19, said member of faculty of electrical engineering in IIT Delhi Turbo Majumder. "Of these, there will be five high social impact projects, all of them already working and some patented. A few of them are also in production, like the 'Waterless Urinals Technology—Zerodor' which is an IIT startup. It's being used in the campus successfully," he said.

Scarcity, misuse, pollution of water and lack of sanitation facilities have been the driving force behind development of Zerodor, patented by IIT Delhi. Speaking about the product, associate professor of rural development and technology Vijayaraghavan M Charir, said, "This device came out of collaborative effort with Unicef to improve sanitation."

"The general perception of people is to flush urine with water. But that is not required. When it comes in contact with water, urine releases ammonia which gives out odour. With this system, we do away with flushing and take care of the odour: Nutrients from the urine can be extracted and used for farming. Urine contains phosphorus which can be used for different applications. There is scarcity of phosphorus in the world and we import it from different countries. This can be resolved using the kit," said Utam Banerjee, CEO of Ekam Solutions which is now marketing the device.

Okayed by AIIMS, the haemoglobin meter was developed with funding from the technology development board of department of science and technology at IIT's Centre for Biomedical Engineering.

"The big social impact of this device stems from its portability, low cost and ease of use. Over 70% of people in India, especially women, are anaemic. This device will be very useful for health workers, blood banks, primary health centres, and the school health scheme of the government," said Ambar Srivastava, developer of this device and a student.

## India's Mars mission gets closer to destination

<http://www.delhidailynews.com/news/Mars-mission-launched-by-ISRO-is-in-progress-1397212226/>

India's Mars mission gets closer to destination

India's relentless efforts to map out Mars will finally bear fruits with its 'Mangalyaan' mission on its way to accomplish the task.

The spacecraft has travelled half-way already and will reach Mars in a few months. This endeavor on its successful completion will give a new lift to India's space journey.

The Indian Space Research organization (ISRO) had launched the spacecraft on November 5 2013.

The spacecraft since then, has traversed 34 crore km of the total distance of 68 crore km to make it to the red planet, at the speed of 7 lakh km a day.

The progress of the spacecraft has made the ISRO Chairman K Radhakrishnan happy with the progress especially when many critics were expressing their doubts about the Mangalyaan mission launched by India.

Closely following on the heels of the US Space Agency NASA, the spacecraft's main task will be to find out its mineral composition.

The spacecraft will detect signs of methane gas in its atmosphere to assess the possibility of life on the red planet. - See more at: <http://www.delhidailynews.com/news/Mars-mission-launched-by-ISRO-is-in-progress-1397212226/#sthash.GRZ7fELi.dpuf>

## IIT, AIIMS in state if party wins: Rajnath

TNN | Apr 12, 2014, 11:23 AM IST Printed from

CHAIBASA/ DHANBAD/ BOKARO: Bharatiya Janata Party (BJP) president Rajnath Singh is confident that his outfit will bag at least half of the 100 seats where polling has been completed in three of the nine phases of the Lok Sabha elections.

Addressing the audience in Dhanbad, where he held one of his three rallies in the state on Friday, Singh also promised to set up an Indian Institute of Technology and an All India Institute of Medical Sciences in Dhanbad if the party comes to power at the Centre.

Addressing an election meeting at Majhgaon on Friday, Singh expressed confidence that the party would win at least 50 of the 100 seats that have already voted. "The wind is strongly in favour of the party's prime ministerial candidate Narendra Modi. People have made up their minds to give him an opportunity to lead the country," he said. The prospects of Congress in this election are very bad, thereby making BJP's chances to form a government in Delhi certain, Singh said.

Addressing another election rally at Baniyadih in support of Dhanbad candidate Pashupati Nath Singh, he promised to set up an IIT and also look into the upgradation of the Indian School of Mines (ISM), where he had come for admission as a student. He also promised to open a unit of AIIMS at Dhanbad.

Apart from the BJP-ruled states, the poll prospects of BJP is very impressive across the country, particularly in Uttar Pradesh, he said. Singh said a BJP-led government was formed in Delhi, it will develop mineral-rich Jharkhand on the pattern of what the Chattisgarh government, led by Raman Singh, has done for the state.

He attributed Jharkhand's tardy pace of development to the absence of a clear-cut majority. "If required, we will also grant special package to Jharkhand to ensure rapid development," he promised.

At a meeting in Bokaro, Singh campaigned for Ravinder Pandey, the party's candidate from Giridih constituency, and said the Congress follows the British policy of 'divide and rule'. He also defended Pandey's candidature which made most workers unhappy as he was under the scanner after an investigative website accused him for willing to recommend an oil company in lieu of money. Sitting MP P N Singh, party MLA from Jharia Kunti Singh former MP Reeta Verma also addressed the gathering. Rajnath claims BJP will get majority of seats Chaibasa (Jharkhand), Apr 11 (PTI) B. President Rajnath Singh today exuded confidence that the party will get at least half of the 100 seats where polling has been completed in three out of the nine phases of Lok Sabha elections.

Addressing an election meeting at Majhgaon, 52 km from here, Singh expressed confidence that the party would win 50 seats out of the 100, riding on a strong pro-Narendra Modi wave.

"The wind is strongly in favour of the party's Prime Ministerial candidate Narendra Modi as people have made up their minds to provide him an opportunity to lead the country," he said.

The prospects of Congress in this election are very bad thereby making the BJP's chances to form a government in Delhi certain, Singh told reporters here.

Apart from the BJP-ruled states, the poll prospect of BJP is very impressive across the country, particularly in Uttar Pradesh, he claimed.

Singh said that if a BJP-led government was formed in Delhi, it would develop mineral-rich Jharkhand on the pattern of what the Chattisgarh government led by Raman Singh had done for the state.

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