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नए आईआईटी संस्थानों के निर्माण कार्य शुरू

बॉलिवूड बॉलीवुड

नया आईआईटी संस्थान महाविद्यालय के निर्माण कार्य शुरू हुए जिसकी बोली सुमित्रा मुंडा वॉली के द्वारा कोरहोट फिल्म फिल्मों के लिए नए संस्थान की तारीख के लिए पेश कर दी। इसके लिए, केंद्र सरकार ने संस्थान प्रशिक्षण विभाग (एचएफए) ने नयी संस्थान की तारीख के लिए पेश की गई पूरी। यह आईआईटी संस्थान श्रीमन नाथमाण से है अनुच्छेद 450 तथा श्रीमती नं. 928 (840 अनुरोधसूचना, 80 फैस्टसूचना, 8 पूर्वसूचना)।

10 हज़ार करोड़ का खर्च

6 संस्थानों के निर्माण कार्य पर कुल करोड़ 10 हज़ार करोड़ रुपए का खर्च आया जाएगा। एक संस्थान पर कुल 1500 करोड़ रुपए का खर्च आया जाएगा। आईआईटी संस्थानों के प्रथम श्रेणी में रजिस्ट्रेशन के लिए संचालन और पूर्व विभाग देने के लिए दोस्त ने संचालन की रजिस्ट्रेशन 1992 का संचालन योग्यता कवर 2017-18 से अनुपम कुमार से इसे संचालन के संचालक के लिए नयी आईआईटी संस्थानों की तारीख को पता कराना।

9 हज़ार से ज्यादा छात्र ले लेंगे दाखिला

आईआईटी संस्थानों में नया संस्थान से नवे पटक आदित्य को दाखिला दिया गया। इनके लिए केंद्र से मेडिकल परीक्षा के लिए नया संस्थान की तारीख को यहां दिया गया। इसका निर्माण कार्य पूरा होने के बाद प्रयोक्ति विभाग में कुल 9 जुलाई 2018 को पूरा करने का गठन किया गया। इसमें नया संस्थान में 150 छात्र डेटासेंटर ले लंघे।

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Govt dilutes HEFA's equity requirements

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The government has diluted equity requirements for the higher education financing agency (HEFA) after potential partners expressed their inability to infuse Rs 1,000 crore into the vehicle meant to fund educational institutions at market rates. Instead of the Rs 2,000 crore equity portion that the cabinet approved earlier this month, with Rs 1,000 crore coming from the government, HEFA will now have Rs 1,050-1,100 crore of equity that will be used to raise funds from the markets for lending to educational institutions.

Potential equity partners, baulked at infusing Rs 1,000 crore into the vehicle, given that it’s expected to be a low-margin business, prompting the government to set its sights lower, two government officials said on condition of anonymity. Instead of a partner pumping in Rs 1,000 crore, it will now be required to put in Rs 500-1,000 crore, one of the two officials said.

"HEFA may not be a volume business initially and the profit margin will be low. So, putting in Rs 1,000 crore of equity money was a little tough on the partner. Banks that the government interacted with were hesitant to pump in that much of money. So, we decided to be more rational in our expectations," the first official added.

With no separate infrastructure, no staff and the significant dilution of equity requirements, HEFA will start operations in a shaky note.

HEFA marks the start of a market-linked education financing structure and a departure from the traditional grant-based system of funding higher educational institutions.

It will be launched in a couple of months.

The government has selected Canara Bank as its partner. Canara Bank is also the nodal bank managing the education loan interest subsidy scheme. An email sent to Canara Bank on how much money it was insuring in HEFA remained unanswered. An email to Syndicate Bank, which was interested in joining the funding project, also remained unanswered.

HEFA will leverage the equity money to raise Rs 20,000 crore from loans and bond sales to fund infrastructure development at central educational institutions such as IITs, NITs, IIMs and central universities.

HEFA will borrow funds at close to the 10-year gilt rate, which is around 8% at present, and lend to institutions at a slightly higher rate.
A new handheld device to detect melamine in milk

Detecting melamine in milk has become extremely easy, quick and inexpensive thanks to a handheld melamine detector developed by researchers at the Indian Institute of Science (IISc), Bangalore. Leaf extract of a commonly seen weed parthenium along with silver nitrate is used for detecting the presence of melamine in milk. The results were published in the journal Sensors and Actuators B: Chemical.

“The presence of melamine in milk can be detected at room temperature within a few seconds through a change in colour,” says S.C.G. Kiruba Daniel from the Department of Instrumentation and Applied Physics, IISc and the first author of the paper.

“Our sensor has a very high sensitivity as it can detect melamine even at a low concentration of 0.5 ppm in raw milk.” Melamine content of more than 1 ppm in infant formula and more than 2.5 ppm in other foods should be viewed with suspicion of adulteration, says the Food Safety and Standards Authority of India.

In 2008, at least four babies in China died and around 100,000 became sick after consuming powdered milk baby food laced with melamine. Due to the presence of nitrogen, the addition of melamine to milk makes it look protein-rich.
Prior to melamine detection, the milk is processed to remove fat and proteins as they tend to interfere with detection. While most researchers had used already prepared silver nanoparticles for melamine detection, the IISc team added silver nitrate and the leaf extract in a particular ratio and at a particular pH to the preprocessed milk to synthesise silver nanoparticles.

“If melamine is present then it interferes with the synthesis and there is abrupt formation of nanoparticles leading to colour change,” says Dr. Daniel.

The change in colour depends on the amount of melamine present and, therefore, the extent of its interference with the synthesis of silver nanoparticles. “The colour change can be directly observed by the naked eye and also recorded by spectral change,” he says.

The silver nanoparticles are reddish yellow in the absence of melamine, while it becomes nearly colourless when melamine is present. Light absorption at 414 nm wavelength is a signature of silver nanoparticles. But when melamine is present the absorption of light is reduced as nanoparticle formation decreases.

“Currently, milk samples have to be brought to a central testing facility, so very less testing gets done. But all this can change with our handheld device,” Dr. Daniel says. As little as 1 ml of milk is sufficient for carrying out melamine detection.

The team is in the process of commercialising the product through a start-up that is incubated at the Society for Innovation & Development Centre at IISc.