CCMB, HSI

to develop

# Govt starts creating IST dissemination infrastructure

cated in the USA.

Cyber-security

sources, most of whom are lo-

With the government's em-

phasis on digitalisation, there

is a concerted effort to spread

the IST for better cyber-secu-

rity as electronic transactions

would be "time-stamped" with

NPL signs deal with IFR to provide precise info to users

Kalyan Ray

NEW DELHI: India's timekeeper, National Physical Laboratory, has begun the process of setting up an infrastructure to disseminate Indian Standard Time to all and sundry before the government comes up with a law to make the use of IST mandatory in India.

Since the 1950s, the Delhi-based laboratory maintains the IST using a set of very precise atomic clocks that are so accurate that they would lose or gain one second in about three lakh vears.

On Wednesday, the NPL signed a memorandum of understanding with IFR Information Dissemination Services Pvt Ltd, a Kolkata-based

subsidiary of the German firm can use time signals from open EFO GmbH, to provide precise and accurate IST information on a real-time basis to users.

"We are setting up the infrastructure to spread IST to the users before the government comes up with a law to make use of IST mandatory," Dinesh K Aswal, NPL director, told

Currently, it is not legally "NPL being a CSIR research mandated to use the IST. As a result, users like telecom and institute, it doesn't have the internet service providers, wherewithal for the IST disbanks, power grid, aviation, semination. That's where railway network and military the partnership with IFR will

Almost 9 months ago, the laboratory issued an advertisement looking for a commercial partner. The IFR was one of the firms that responded and eventually got selected because of the experience that its parent company has for doing a similar task in Germany.

## 1,000 km radius

The company will set up two towers, one each in the north and south India. Each tower would be having a footprint over an area of 1,000 km radi-

All set for GSAT-6A launch today

will get the IST signals if they use instruments (like clock and mobile phones) fitted with a radio chip.

The technology they would use for transmission is called Long Wave Radio technology. It's a transmitter-receiver technology in which the receiver is fitted with the radio chip.

"We will invest 20-25 million Euro (Rs 160-200 crore) to set up the infrastructure, which may take about 2 years to come up. While the time service would be provided free to

us. Everyone within that zone the users, we will use the same infrastructure to provide other revenue earning services," said Pawan Kumar Kasera, managing director of IFR.

As a part of the same process to disseminate IST, the Union consumer affairs ministry in February approved a Rs 100 crore to plan to install atomic clocks in seven regional reference standard laboratories for accurate time-keeping and dissemination to clients. The NPL also signed an agreement with Isro for the same purpose. **DH News Service** 

lab-grown meat **HYDERABAD, DHNS:** Humane

Society International (HSI) — India — and the Hyderabad-based Centre for Cellular and Molecular Biology (CCMB) have joined together to develop and promote lab $or a tory-grown\ meat\ in\ India.$ 

Called "clean meat," it is touted to be the next revolution in the way meat is pro-

Clean meat is produced by scaling up cell multiplication giving a chance to fortify the

By collaborating with the Atal Incubation Centre under CCMB, the partnership looks to promote the technology to develop clean meat, while bringing startups and regulators together under the same

"While technology exists to multiply literally any type of cell, including mammalian cells, the scaling up of the same in an economically affordable manner as a meat substitute remains a major challenge There may also be cultural and social factors that will need to be addressed for this to be socially acceptable," Dr Rakesh Mishra, director, CCMB said.

Scaling up of cell multiplication at an industrial scale is also desirable for the upcoming era of bio-actives and bio-therapeutics that are expected to replace the chemical drugs in future.

'Clean meat grown ex-vivo also offers possibility of augmentation of the nutritional value by using genome editing technology and synthetic biology approaches," he added. The HSI in a statement here

on Wednesday said that efforts to develop clean meat have emerged due to the unsustainable methods of large-scale industrial animal agriculture.

The current intensive practices neglect basic animal welfare and consequently pose a threat to the environment and food security.

For consumers who have a dietary preference for animal meat clean meat can be con-

# Naidu seeks help

ing financial support from Telugu speaking expatriates, Andhra Pradesh Chief Minister N Chandrababu Naidu on Wednesday said that a world class capital will be built even without Centre's

from NRIs to

He said he would float bonds for the capital and pay interest better than the banks.

Speaking at the state legislative Assembly, Naidu lashed out at the Modi government for 'weakening the federal spirit' by refusing to help Andhra pradesh.

"We will build the world class capital in Amaravati with or without the help of the centre," he said.

He pointed out that as contributors of the tax revenue, the states have the right to funds from the Centre. "We are not beggars and the center is not doing charity. Our fight for our rights will continue on one side while we will go ahead with our development mission on the other", Naidu said.

Allaying fears that the ongoing welfare programmes might get affected by the TDP government's anti centre stance, Naidu said that development and welfare would not made to the bifurcated state.



Chandrababu Naidu

be affected, come what may.

"Social security pensions will continue. Development will be more aggressive", he said. Insisting a response from the prime minister, on the non submission of Utilization Certificates (UCs) by the state, Naidu said that the state government has submitted most of the UCs. He was referring to BJP

president Amit Shah's ninepage letter in which he had charged the state government with not submitting UCs for many funds. In a mark of protest Naidu and all TDP legislators attend-

ed the session wearing black

TDP had severed its ties with the BJP-led NDA on 16 March claiming that the Centre has not fulfilled the commitments

## It will provide a platform for developing technologies CHENNAI, DHNS: Indian Space Research Organisation (Isro) will launch GSAT-6A, its latest communication satellite on Thursday evening from

Satish Dhawan Space Centre

in Sriharikota.

The 27-hour countdown for the launch of the satellite, which is also a high power S-band communication satellite like its predecessor GSAT-6, began at 01.56 pm on Wednesday. Isro's GSLV-F08 rocket will launch the satellite, weighing 415.6 ton and measuring 49.1 metre tall, from the second launch pad at the Space Centre in Sriharikota, 110 km from here, at 4.56 pm on Thursday.

The latest launch will mark the twelfth flight of Geosynchronous Satellite Launch Vehicle GSLV-F08 and sixth flight with indigenous Cryogenic upper stage. Isro said the GSAT-6A is a high power S-band communication satellite built on I-2K satellite bus with a mission life of about ten

"The GSAT-6A satellite will be put into orbit around 17 minutes after the rocket's lift off from the Satish Dhawan Space Centre," a senior Isro official said, adding that the high points of the launch is the



engine and electromechani- communication through multi cal actuation system. Isro said beam coverage facility in India.

one of the key features of the It will also provide a platform

induction of high thrust Vikas satellite is to provide mobile for developing technologies and network management such as demonstration of 6 m techniques that could be use-S-Band Unfurlable Antenna,

ful in satellite based mobile hand-held ground terminals communication applications.

# **CAG** raps Gujarat government for inaction against Adanis

GANDHINAGAR: The Comptransmission line to evacuate tares non-forest) of Wild Ass troller and Auditor General power from its Ultra-Mega Sanctuary (WAS) in Dhran-(CAG) has observed that Gu-Power Project in Mundra, Ku-gadhra for laying the transmisjarat government had failed to tch. Mundra-Dehgam section sion line. Adanis applied for follow statutory norms or take 🥒 is a 430-km transmission line – this in January, 2009. Before action against environmen- -apart of the country's first prital violations by Adani Power Limited (APL).

The CAG in its report on Economic sector for period ended March 31, 2017, observed that APL had violated the provisions of Wildlife Protection Act and the Forest

vate sector high voltage direct current power transmission system set up by APL.

According to the CAG, APL required prior permission under Forest Conservation Act of 1980 and Wildlife Protection Act of 1972 for diversion of (Conservation) Act while set- 58.968 hectares (18.20 hectare ting up the Mundra-Dehgam forest land and 40.768 hec-

it could receive permission, in March 2009, it was found during field inspections that APL had begun laying transmission line. APL immediately stopped the work but commissioned its transmission line in July 2009, after receiving

Delhiites will pay less for electricity from next month with the capital's power regulator announcing a reduction in tariff for consumers across all categories

by up to 32%, reports DHNS from New Delhi.

However, those using less power may end up paying a bit more as the fixed charges have been hiked.



CENTRE FOR NANO AND SOFT MATTER SCIENCES CENIKE FUR NANU AND SUFI IMALIEN SUERIOLS
Autonomous Institute under the Department of Science & Technology, Government of India

P. B. No.1329, Prof. U. R. Rao Road, Jalahalli, Bengaluru 560 013 27 March 2018

#### No.CeNS/2017-18/Advt.10 ADMISSION FOR Ph.D. PROGRAMME 2018 CeNS invites applications for admission to the Ph.D. Programme-2018 Interested candidates may visit the website http://www.cens.res.in/

Power tariff slashed in Delhi

Home/Ph-D- programme for further details and to download applicatior form. Last date for receipt of completed applications: 10th May 2018.

**Administrative Officer** 

## Rare breed

## MP govt launches 'Kadaknath' app

Pradesh government has come up with a mobile application to market rare chicken breed - the "Kadaknath" - whose black meat is in high demand for its nutri-



Kadaknath chicken

tious content and purported medicinal properties.

The "MP Kadaknath" mobile app aims to connect poultries that sale the breed with people from other parts of the country.

"Through this app, people can place orders for Kadaknath chicken from anywhere. Availability of Kadaknath chickens with the cooperative societies can also be seen on this app." Minister of State for Cooperatives Vishwas Sarang told

PTI on Wednesday. He said the app would provide marketing platform to 430 members of 21 societies in Jhabua and Alirajpur districts and that more

societies are being added to this platform.

The minister said Kadaknath breed is known for its taste and nourishment value, especially for its high percentage of protein. "A Kadaknath chicken

contains 25-27% of protein in comparison with other breeds of chickens that contain 18% protein. This breed is also known for its high iron content. The fat and cholesterol content is lower compared with other chicken," said the minister.

The app, developed by state Cooperative department, would be available on Google Playstore from Wednesday.

Kadaknath is popular mainly for its adaptability, and its good-tasting black meat, which is believed to have medicinal properties.

Recently, the breed virtually became a bone of contention between Madhya Pradesh and Chhattisgarh with both the states staking claim over its nativity.

Both the states had filed applications with the Geographical Indication Registry office in Chennai for the 'GI tag' for this blackwinged chicken variety.

## 'e'-TENDER NOTIFICATION NOTICE INVITING TENDER

in-principle approval from

MoEF & CC in May, 2009.

**DH News Service** 

The Executive Engineer[C], BSNL Civil Division-II, Bengaluru – 01 invites 'e'- tender for the works of : 1. "Carpentry repair/ maintenance works at BSNL staff quarters compound, K.B.Sandra, Bengaluru under the jurisdiction of BSNL CSD-IV, for the year 2017-18. (NIT No.77)

2. "Day to day Collection of garbage from staff quarters, Sweeping of roads, cleaning of common areas of staff quarters & disposal of garbage in BSNL Staff quarters compound at Kavalbyrasandra, Bengaluru-560 032 for the year-2018." (NIT No.79) NIT Nos.77&79 /EEC/CD-II/BSNL/ BGL/2017-18 Dtd:28.03.2018.

For detailed information please visit: http://www.tenderwizard.com/BSNL

# National Highways Authority of India (Ministry of Road Transport and Highways)

**NOTICE INVITING TENDER** (Competitive Bidding through e-tendering mode only)

NHAI invites bids from eligible contractors for the following project Name of work Estimated Cost | Time Period of tender (in Rs.) Jpgradation of infrastructure (civil work) a Bhagan Toll Plaza (Km. 52.670) on NH-44 Old NH-1) in the State of Harvana. The detailed tender documents can be downloaded/viewed from the

NHAI website www.nhai.gov.in or https://etenders.gov.in Last date & time of online submission: 10.04.2018 (up to 11:00 Hrs.) Amendments / Corrigendum, if any, would be hosted on the NHAI website www.nhai.gov.in or https://etenders.gov.in

Address for Communication:- RO-cum-CGM (EPE) National Highways Authority of India C/o Project Director, PIU EPE-I A-3, UGF, Pushpanjali Enclave, Pitampura, New Delhi -110 034 India Phone-**91-011-49048174,** e-mail: piuepe@nhai.org

BUILDING A NATION, NOT JUST ROADS

200

300

500

SC+/ST\* PH+/Transgender Others

\*Subject to submission of relevant certificate.
\*\*One common application for all the 5 MBA

The application fee for NRI and Oversees Candidates is US \$100 (i.e. Rs.6.500/- in equivalent Indian currency). Use separate application for each programme. Payment of Application fee can be made either through

IMPORTANT DATES

NIL

NIL

NIL

400

600

1000

## PONDICHERRY UNIVERSITY (A Central University – Accredited with "A" Grade by NAAC) R. Venkataraman Nagar, Kalapet, Puducherry – 605 014.

ADMISSIONS 2018 - 19 REGULAR COURSES

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MBA ..

Programmes.

Name of

(Master of Library and Information Science)/ M.Ed./ M.P.Ed./ MSW (Master of Social Work)/ MPA (Theatre Arts)/ LL.M (1 PG DIPLOMA COURSES (FULL TIME)

Ine through the Universit an form is to be sub site www.pondiuni.edu.in by following the instru

APPLICATION PROCEDURE

Last Date for Online Registration : 24th April 2018 oplete details including the cou examination centres please refer to the University website www.pondiuni.edu.in REGISTRAR (I/c)

### OFFICE OF THE DEPUTY COMMISSIONER. KOLAR DISTRICT, KOLAR-563101.

Ph: 08152-222001, 222002, 222098, Fax: 08152-222133,

Email: dcoffice.klr@gmail.com

Date: 28.03.2018

"ELECTION URGENT" SHORT-TERM TENDER NOTIFICATION

FOR HIRING OF VIDEOGRAPHER FOR THE PURPOSE OF GENERAL ELECTION 2018: It is hereby notified that the Services of the Professional videographer for recording

election activities including, high resonance camera and allied equipment's are to be hired for the various activities in Kolar district. CI LAC Name of the LAC COT COT UCT EVDENIGITIDE CONEDAL CTANDOV TOTAL

No.	No.	Name of the LAC	551	151	451	OBSERVER	OBSERVER	SIANUBY	IOIAL
1	148	Kolar	3	3	1	1	1	1	10
2	149	Malur	4	4	1	1	1	1	12
3	147	Bangarpet	3	5	1	1	1	1	12
4	146	KGF	2	3	1	1	1	1	9
5	145	Mulbagal	3	4	1	1	1	1	11
6	144	Srinivasapur	4	5	1	1	1	1	13

SI. No.	Description	Total quantity required	Rate to be quoted by supplier for each per day.	Total amount
1	Hiring charges of High resonance camera including allied equipment and consumables for 24 hours.	67		
2	Manpower required for Video recording in 12-hour shift work.	134		

Terms and conditions:

the mobile no. 8970883000

D.C/DEO has all the rights to reject, postpone or accept the tenders without assigning any Reasons.

The tenders shouldreach this office within 30.03.2018. On or Before 5:30 P.M. The tenders received after Due date and time will not be accepted.

The tenders should be accompanied with EMD of Rs.10,000/- (Ten thousand Rupees only) paid through DD/BG payable to DC Account Kolar.

The EMD of the L1 service provider shall be returned after the completion of Model code of conduct 18.05.2018.

The tendered rates are inclusive of all prevailing taxes.

The service provider shall provide the 3 sets of recorded footages with Details like Location, date & time of recording in the appropriate data storage device to the DC / DEO Office.

DC/ DEO shall not be responsible for any loss or damage to the men & Material during the course of above services under any of the circumstances.

If the L1 service provider fails to commence the service within 24 Hours of issue of work order then his EMD will be forfeited.

Any other conditions if necessary shall be included in the work order.

11. Payment shall be released to the service provider on priority considering the availability of funds. The no. of videographer required may vary as per the circumstances. 13. Any information or clarification to be obtain from the concerned officer through

> Signed Deputy commissioner **District Election Officer**

ವಾಸಾಸಂ.ಇ/ಕೋಲಾರ/ಆರ್.ಓಸಂಖ್ಯೆ 332/ಎಂಸಿಎ/2017-18

Kolar

21" March, 2018 w.pondiuni.edu.in

davp 21232/11/0007/1718