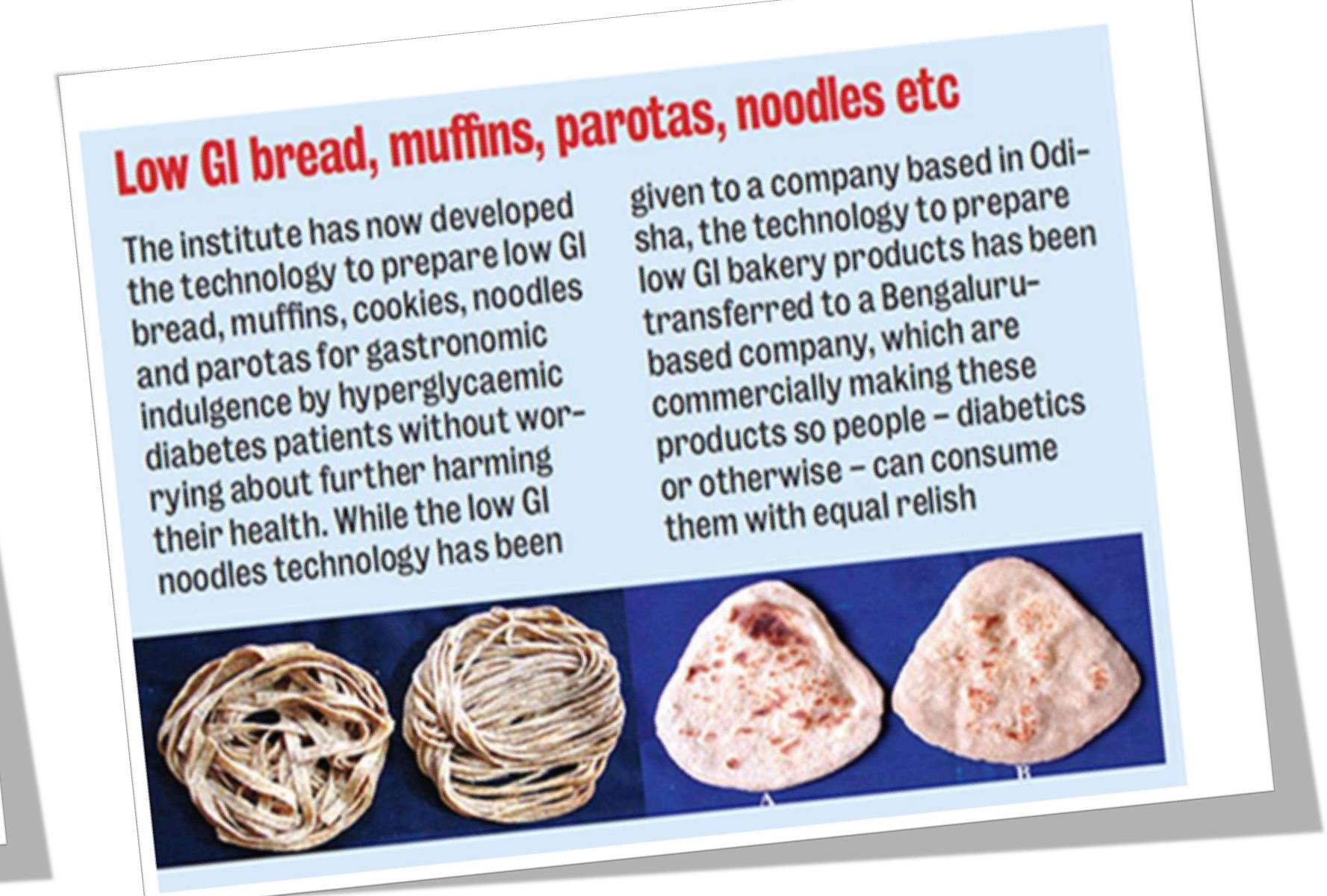
# CSIR in Media





# A Daily News Bulletin 2<sup>nd</sup> March 2017











## **CFTRI** going all out in its effort to help malnourished

**CSIR-CFTRI** 

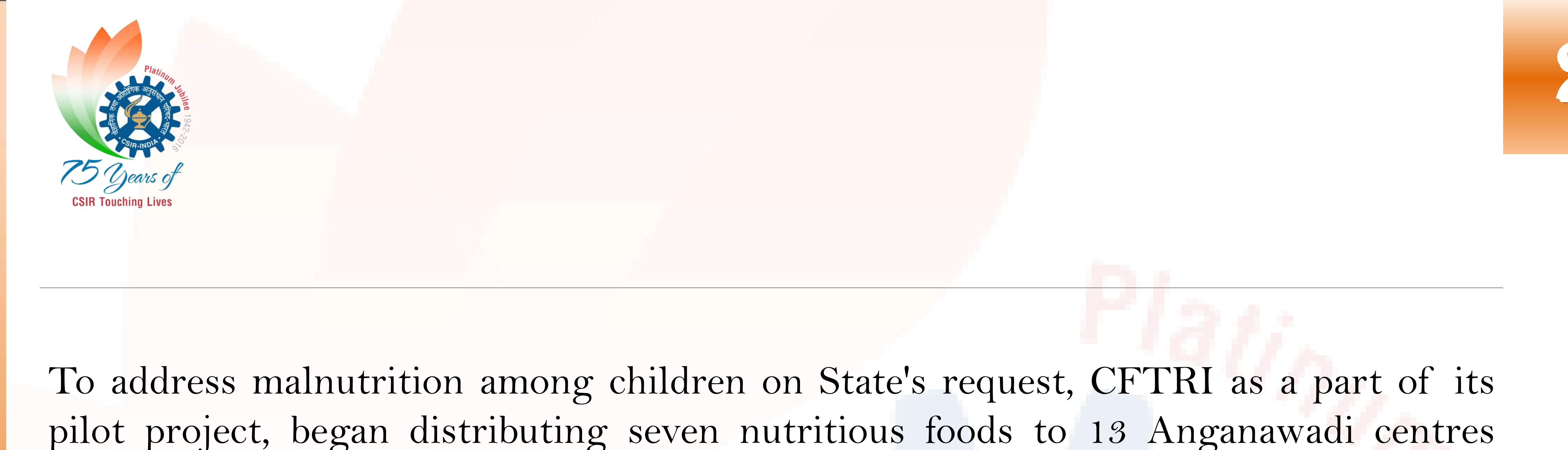
1<sup>st</sup> March 2017



The Central Food Technological Research Institute (CFTRI) Mysuru which is a pioneering institution

delicious to combat malnutrition among children which yielded good results. Now to attract people from

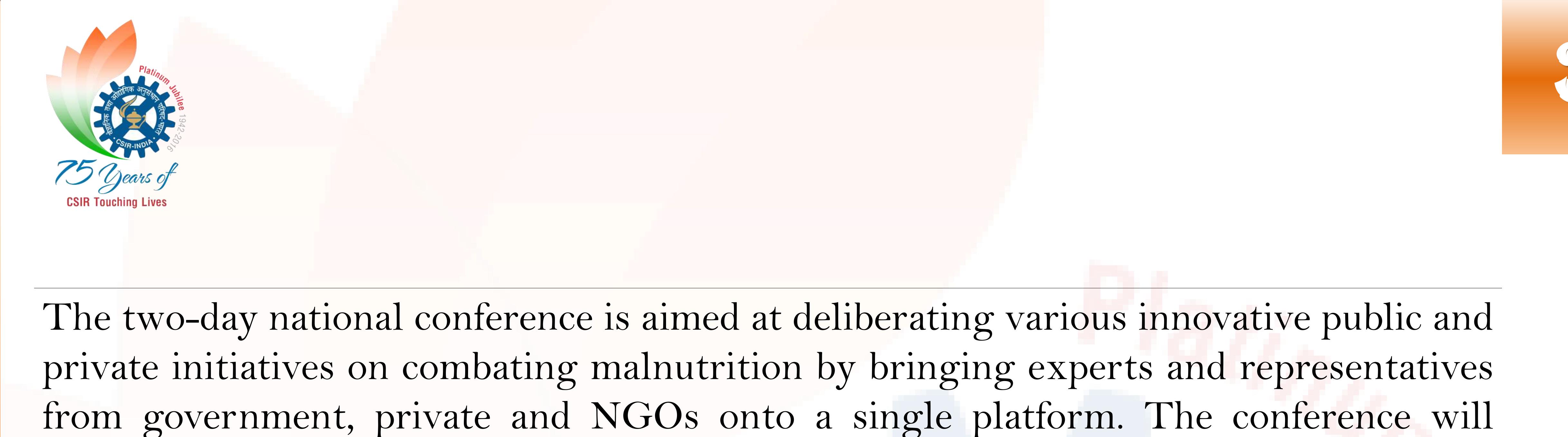
devoted to food technology research and development in the country is going all out in its efforts to help malnourished children. Last year, CFTRI had developed products with advanced nutrition value which are not only easy to use but also across the country, they will be conducting a two-day national conference on "Malnutrition: Challenges, Success Stories and Way Forward" at its premise on March 3 and 4.



(Hegdalli, Ramapura and Chamalapurada Hundi villages) in Nanjangud Taluk. This programme was for about 100 undernourished children and an equal number of healthy children. The department of women and child development had found that the district has about 329 severely malnourished children and over 100 of them were in about 13 Anganawadi centres in Nanjangud Taluk. CFTRI developed seven advanced nutritious products: Rice mix, high protein rusk, energy food, nutria chikki with spirulina, nutria sprinkle, sesame paste and fortified mango bar containing macro and micro nutrients which were given to the children.

Malnutrition among children is a major health challenge the nation is facing. As per the National Family Health Survey (NFHS-3) carried out by the Ministry of Health and Family Welfare, Govt. of India, 42.5 percent of the children under 5 years of age are underweight. The government has accorded high priority to the issue of malnutrition and is implementing several schemes/programmes. The ministry is implementing Integrated Child Development Services (ICDS) Scheme, Rajiv Gandhi Scheme for Empowerment of Adolescent Girls (RGSEAG) namely SABLA, and Indira Gandhi Matritva Sahyog Yojna (IGMSY) as direct targeted interventions.

However, incidence of high percentage of malnutrition among children is still prevalent in some of the major states of India including Maharashtra, Uttar Pradesh, Bihar and Rajasthan. These data indicate the need for development of implementation strategies to make the government programmes more effective to combat malnutrition among children.



provide an opportunity to share the learnings and challenges faced on the ground, brainstorm and formulate an effective policy to combat malnutrition by adopting a coordinated and holistic approach. The session will specially focus on innovative ideas/concepts that have been effective in the field in terms of robustness and scalability in combating malnutrition. The proceedings and deliberations of the meeting will be brought out as a compendium that can serve as a reference document to fight against malnutrition across the country.









## Food that even diabetics can dig in without a care



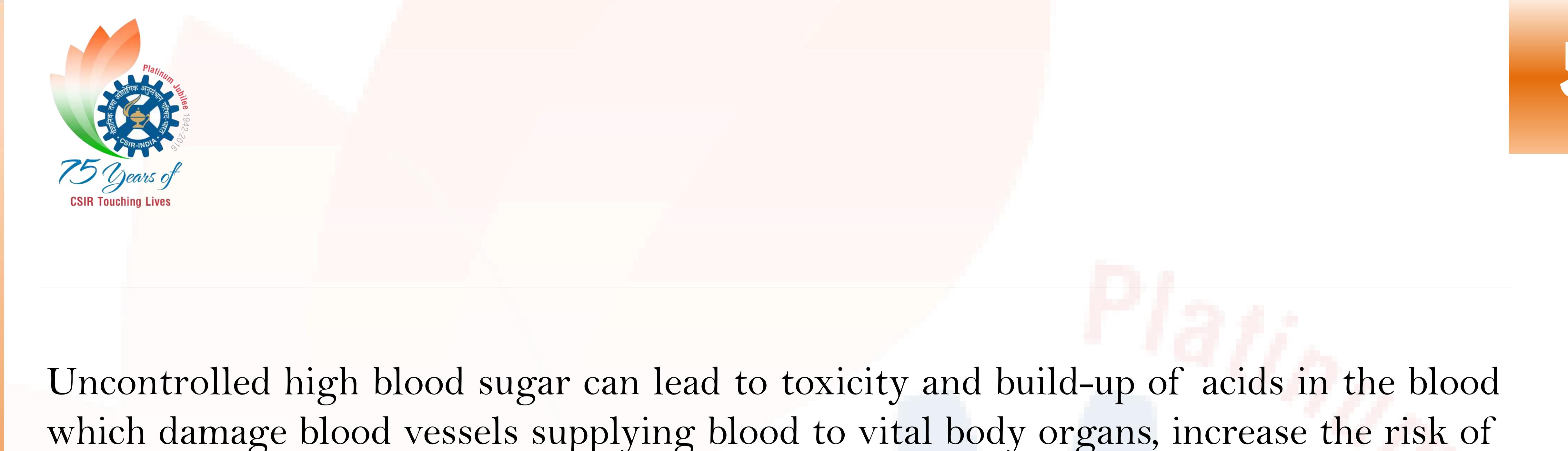




Central Food Technological Research Institute has developed low glycaemic index foods for diabetics, which they may not have been allowed to consume otherwise.

Diabetics suffering from high blood sugar can now relax on their stringent food restrictions. MysuruGI of any food determines its effect on a person's blood sugar (also called blood glucose). Diabetes patients

based Central Food Technological Research Institute (CFTRI) has developed a slew of dishes with low glycaemic index (GI), besides developing a mobile app to help people prepare healthy and delicious food scientifically at home. who suffer from high blood sugar – or hyperglycaemia – are generally advised to keep away from high GI foods as their body lacks the mechanism to produce adequate amount of insulin to keep their blood sugar in normal range.



disease of the heart and kidneys, cause strokes and problems concerning nerves and vision. Which is why hyperglycaemic diabetics are expected to refrain from eating foods high on the GI.

However, you may call this a gift from CFTRI to hyperglycaemic diabetes patients, who form a massive majority of the 40 million diabetes patients in India – set to be the diabetes capital of the world.

The institute has now developed the technology to prepare low GI bread, muffins, cookies, noodles and parotas for gastronomic indulgence by hyperglycaemic diabetes patients without worrying about further harming their health.

While the low GI noodles technology has been given to a company based in Odisha, the technology to prepare low GI bakery products has been transferred to a Bengaluru-based company, which are commercially making these products so people – diabetics or otherwise – can consume them with equal relish.

Briefing Bangalore Mirror about the low GI products, Manilal P, principal scientist at Director's office/ S&T Unit of CFTRI, said, "These products are largely going to help diabetic patients significantly. Usually, regular commercial noodles that are available in the market come with GI of 75 while for parota it is 72. But low GI are those that are below 55."





The app guides user on preparing 21 millets-based foods like ragi rusk, ragi vermicelli, ragi papad, convenience flour for mudde, decorticated ragi, instant beverage from ragi, ragi roti, ragi snack, ragi flakes, ragi murukku mix, malted ragi flour-enzyme rich, expanded ragi, germinated ragi drink mix, and puttu mix, among others.

## The app is likely to be launched for the public by March 31.

Prof Ram Rajashekharan, CFTRI director, told this paper: "The main reason we came up with low GI noodles and bakery products was to deliver healthy and delicious food for diabetic patients. As the population in the country is increasing, India is going to be the diabetic capital of the world with 40 million patients. This will help people in the coming days. In another breakthrough, we are giving food technologies for free of cost to the entrepreneurs so that the research in food sector continues in a smooth manner. Adding to it, we are getting closer to the people by introducing the mobile app about preparing healthy and tasty food at home through videos and description support."

Two new food technologies for free

With an overwhelming response from its past free technologies, the CFTRI is

launching two new products on March 2 in its FreeTech Entrepreneurs Meet. The two new products are leg-operated papad making and rice mix milk. CFTRI, in 2013, released a total of 12 proven and successful technologies free of cost by means of publishing the detailed technology dossiers on the institute's website.





The free technologies include amla candy, composite ragi bread, fruit spread, ginger dehydration and bleaching, green chilli sauce, protein enriched buns, readyto-use dosa batter, turmeric ring and polishing cereal flakes rice and refining of millets. The CFTRI found that about 4,539 had registered on the website for downloading these free technologies. Later, it was found that 125 entrepreneurs were either in the stage of production or of launching these products that were taken from the website for free of cost, which helped the entrepreneurs in their commercialisation.



the technology to prepare low GI bread, muffins, cookies, noodles and parotas for gastronomic indulgence by hyperglycaemic diabetes patients without worrying about further harming their health. While the low GI noodles technology has been sha, the technology to prepare low GI bakery products has been transferred to a Bengalurubased company, which are commercially making these products so people – diabetics or otherwise – can consume them with equal relish



## Published in: Bangalore Mirror





## **CSIR labs open doors to children**







Hundreds of specially abled children and students were acquainted with various scientific phenomena and their application in daily life at various institutes of CSIR to mark National Science Day. Themed around 'Science and Technology for specially abled persons', the day was observed as open day at NBRI. As many as 650 children, 300 of them specially-

Differently abled children visit cactus park at NBRI on Tuesday.

abled, spent the day at the institute, visiting its library, laboratories, tactile garden, jurassic gallery, cactus house, fern house and bonsai house.

An MoU was also signed with Dr. Shakuntala Mishra National Rehabilitation University that will provide an opportunity to students

to register with NBRI for PhD

drug discovery. Later, they participated in a drawing and painting competition that was followed by a series of games. At

programmes. Around 350 students visited CDRI and interacted with scientists and learnt about the developments in

Times Of India

IITR, special guest, Padma Shri Chewang Norphel, know as "Ice Man" of Ladakh, who created artificial glaciers, met students and spoke to them about the importance of water conservation.





## **Central Scientific Instruments Organisation celebrated "National Science Day"**



1<sup>st</sup> March 2017



Central Scientific Instruments Organisation celebrated "National Science Day" today by holding an Open Day and organizing Exhibition on Science & Technology for Specially Abled Persons and National Science Day Lecture. All the labs of CSIO were kept open for general public in the forenoon. Around 1000 visitors including students from various schools, colleges, universities and general public went around the laboratories of the institute. They interacted with the scientists and were given exposure to the technologies available & being pursued at CSIO.



delivered the National Science Day lecture on the topic "To Build an Excellent RDI Ecosystem". He said that Research, Development and Innovation (RDI) is fundamental to growing the Indian economy. He said that the key components of RDI are : Talented young people, High quality faculty, Adequate funds, Strong infrastructure, including an e-science infrastructure, Appetite for risk taking, Strong academia industry interactions, International collaboration and Leaders. This is where he said organizations like CSIR-CSIO are instrumental in realizing this. He said that there is a dire need for make in India and CSIO has been playing a key role in this

#### endeavor.

Panchkula

Dr. R. Chidambram also inaugurated the exhibition on Science and Technology for Specially Abled Persons in which various technologies developed for the specially abled persons were demonstrated like Divya Nayan, CSIR-CSIO, Tynor Orthotics (P) Ltd, Mohali, Virtual Rehab, CSIR-CSIO, Wallnut Medicals, Ambala, Medicaid Systems, Chandigarh, Exoskeleton Device, CSIR-CSIO, Pentagon Rugged System, Hydrabad, Intelligent Patient Vehicle, CSIR-CSIO, Auxein Medical (P) Ltd, Sonepat, Orthopeadic Implants, CSIR-CSIO, Low Vision Aid, CSIR-CSIO, LM Health Care,





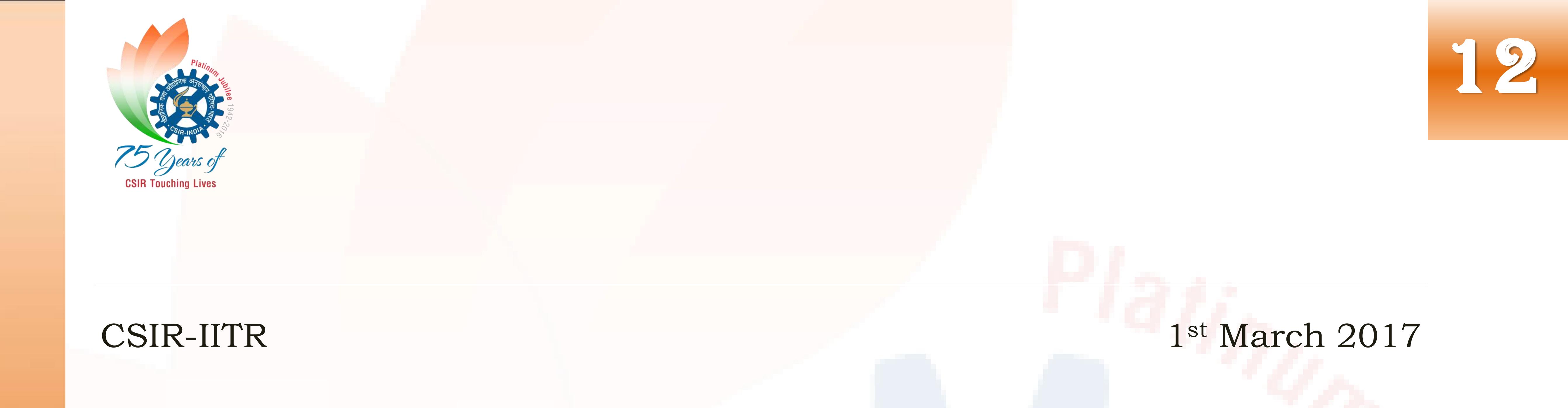


Prior to this Prof. R. K. Sinha, Director, CSIO welcomed the chief guest and said that National Science Day is celebrated in India on February 28 every year to mark the discovery of Raman Effect by C.V. Raman, for which he was awarded the Nobel Prize. He also introduced the Chief Guest and gave a brief overview of the National Science

# Day celebrations.







# Water is the elixir of life, says Norphel

Lucknow (PNS): Water brings life, life brings hope and hope never dies. These views were expressed by the Padma Shri recipient, Chewang Norphel, popularly known as 'the Iceman of Ladakh? He was delivering a popular science lecture as a part of the National Science Day celebrations at the Institute. Post-retirement from the Rural Development Department in the state of Jammu and Kashmir, Chewang Norphel took it upon himself to address the acute shortage of water in the Leh- Ladakh region of the state. He worked tirelessly in order to take his idea of creating artificial glaciers to its logical conclusion. For a region where 80 per cent of the farmers depend on water from the glacial



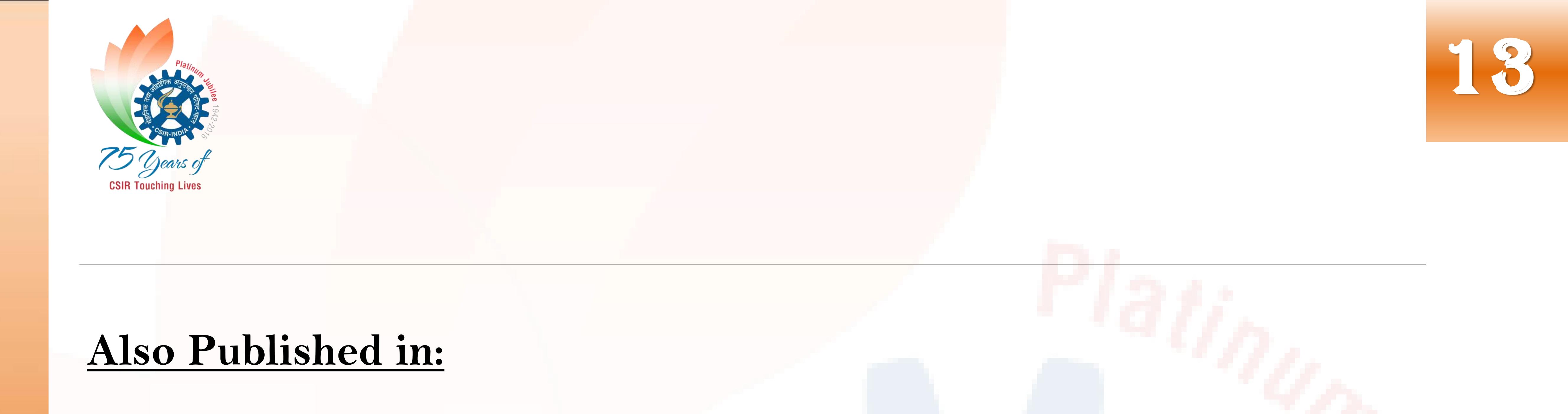
Research, stressed the need for every individual to believe in his, her own idea and work towards fulfilling it. "This has been very well demonstrated by Chewang Norphel, he said. The CSIR-IITR is privileged to host Chewang Norphel on a day celebrating science," he said. The Institute also celebrated the day as an Open Day, throwing open its doors to the common citizenry to experience cutting-edge science first hand. An exhibition showcasing the services provided and technologies developed by the Institute was also organised on the occasion. More than 200 undergraduate and post-graduate students from the citybased colleges and universities were invited to visit the laboratories of the Institute and interact with the scientific

Earlier welcoming the gathering, Dr KC Khulbe, Senior Principal Scientist, also spoke about the genesis of National Science Day celebrations in the country to mark the discovery of the Raman Effect by Sir C V Raman.

Delivering his presidential remarks, meltdowns for their agricultural needs Professor Alok Dhawan, Director, CSIR artificial glaciers are a blessing for them. - Indian Institute of Toxicological staff there.



#### The Pioneer, Lucknow



Swatantra Bharat, Page 6 Navbharat Times Amar Ujala, Page 7 Rashtriya Sahara, Page 5 Hindustan Live, Page 1 Dainik Jagran, Page 4 JanMorcha, Page 3 Spasht Aawaz, Page 5 Live Uttar Pradesh Awadhnama Chetna Vichardhara, Page2 Roz ki Khabar, Page 2 Swatantra Chetna, Page 4 Rashtriya Swaroop, Page 4 Dainik Bhaskar, Page 2 Lokmat

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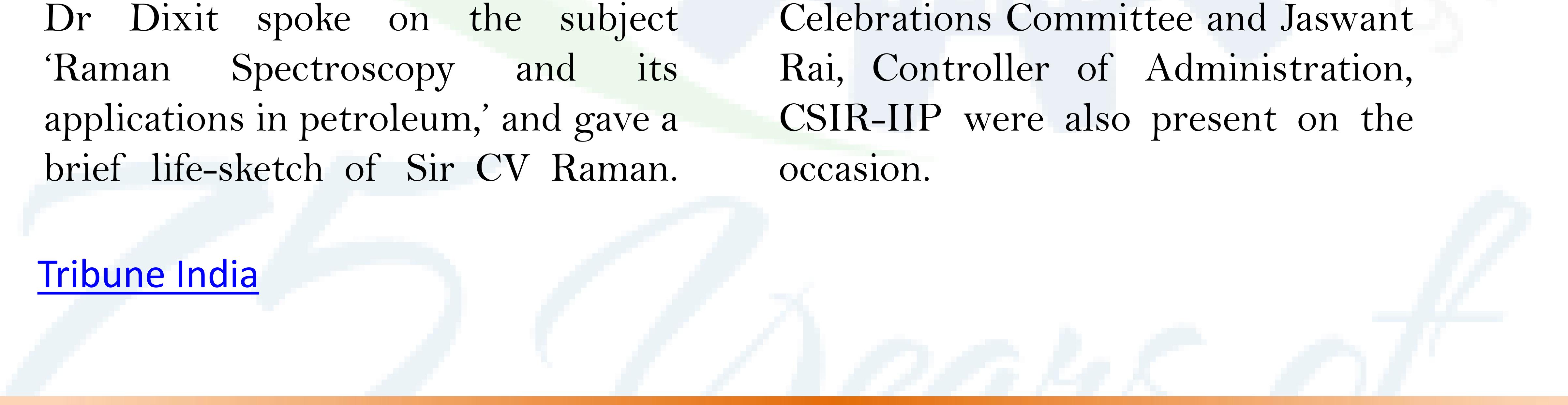
## **CV Raman remembered, students honoured**



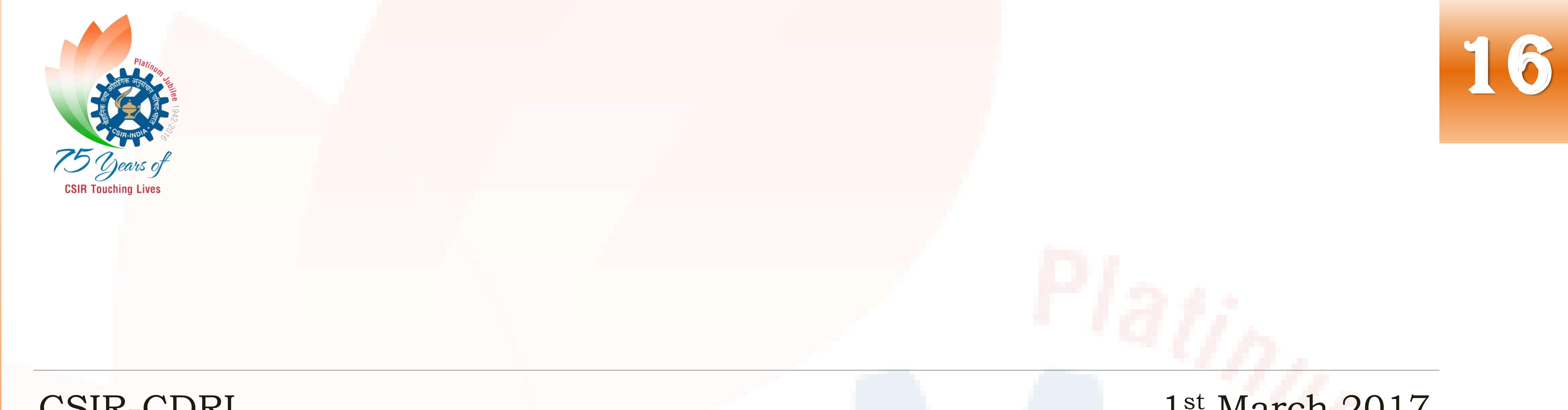


The CSIR-Indian Institute of Petroleum celebrated National Science Day here today. The programme was inaugurated by chief guest Dr Lalji Dixit, former chief scientist, CSIR-IIP, Dehradun. Dr Anjan Ray, Director, CSIR-IIP, spoke about National Science Day and its significance. He welcomed Dr Dixit and remembered his decadesold service as a scientist at the CSIR-IIP, besides his achievements in the form of patents, supervision of doctorates, research articles and various awards.

Dr Dixit explained the uses of 'Raman Effect' in various applications through a slide presentation. The institute felicitated various students of the state from junior and senior groups who had attained first and second positions in the statelevel camp, Uttarakhand Prant, called 'Vidyarthi Vigyan Manthan-2016' held on February 19, 2017, in Haridwar under the auspices of 'Vibha' (Vigyan Bharati). Dr Anjan Ray, Director, CSIR-IIP, Dr DC Pandey, chairman,







# 1<sup>st</sup> March 2017 CSIR-CDRI दिब्यांगों की बेहतरी के लिए हों वैज्ञानिक शोध दिव्यांग सशक्तीकरण थीम पर अंतरराष्ट्रीय विज्ञान दिवस पर शहर में कई जगह आयोजन, लगी प्रदर्शनी अमर उजाला ब्युरो

घन्चंतरि वाटिका का अवलोकन करते खूली बच्चे।

तरानकः वैज्ञानिक शोध दिव्यांगी के संशक्तीकरण और उनकी भुख्यधारा से जोड़ने के लिए होना चाहिए। ऐसी तकनीक एवं सहायक उपकरणों का विकास हो, जिससे दिव्यांगी की जिंदगी बेहतर हो सके। ये बातें मंगलवार को डॉ. शकुंतला मिश्रा पुनर्वास विश्वविद्यालय में विज्ञान दिवस पर डीन एकेडमिक्स प्रो. एपी तिवारी ने कही। इस बार अंतरराष्ट्रीय विज्ञान दिवल विशेष बच्चों को समर्पित रहा। उन्होंने कहा कि वैज्ञानिक शोध और नई तकनीक का लंध्य सभी का कल्याण होना चाहिए। इस दौरान साईस एवं टेक्नोलॉजी के डीन प्रो. सीके दीक्षित, सॉख्यिकी एवं गणित विभाग के सहायक प्रो. डॉ. प्रवीण कुमार मित्र, रसायन विभाग के प्रो. डॉ. विनय कुमार सिंह और विज्ञान संकाय के शोधार्थी कपिल पांडेय, रोशनी यादव व प्रदीय कमार ने दिव्यांगों के हित में वैज्ञानिक शोध की बात कही। वहीं, सोमैप में ओपन डे रहा। दोपहर में गवर्नर हाउस की धन्वतीर बाटिका के प्रभारी वैद्य डॉ. शिवर्शकर त्रिपाठी ने लोगों को आयूर्वेद की महत्ता समझाई। सीडीआरआई में दिव्यांग अच्यों के लिए खेलकृद और चित्रकला प्रतियोगिता का आयोजन किया गया। इसमें दृष्टि सामाजिक संस्थान के बच्चों ने अपनी रचनाशीलता के जरिये आसपाल मौजूद विज्ञान के उपयोग पर पेटिंग बनाई। निदेशक डॉ. मधु दीक्षित ने विजेता बच्चों को पुरस्कार भी दिए। भारतीय सर्वेक्षण विभाग, भू स्थानिक आंकड़ा केंद्र, मानचित्र भवन में यंत्रों की प्रदर्शनी और मैप सेल का काउंटर लगाया गया. जहां गायत्री वाल विद्या मंदिर के बच्चों ने पहले भू-सर्वे के यंत्रों प्लेन टैबलिंग, जीपीएस, डाटा रिसीवर, टोटल स्टेशन, डिजिटल लेवल की जानकारी ली। एलयू के भूगर्भ विज्ञान विभाग में बच्चों को म्युजियम दिखाया गया। कार्यक्रम का उद्चाटन एलयू जीसी प्रो. एसपी सिंह ने किया। दिव्यशिखा ज्ञानपीठ इंटर कॉलेज, गोमती नगर



विज्ञान दिवस पर मंगलवार को सीडीआरआई में आयोजित कार्यक्रम के दौरान सांस्कृतिक प्रस्तुति देते विशेष बच्चे।

#### स्वतंत्र सोच ही नवाचारों की जननी

लखनऊ। इंटीयल विश्वविद्यालय में राष्ट्रीय विज्ञान दिवस पर भारतीय कृषि अनुसंधान परिषद के निदेशक डॉ. कुलदीप कुमार लाल ने कहा कि रकतंत्र सोच ही नवाचारों की जननी होती है। उन्होंने कहा कि हम्हरे देश

के लिए ये सकारात्मक बात है कि अब हम विकलांग लोगों को विशेष रूप से अशक्त व्यक्ति कहने लगे है। समारोह को अख्यसता कर रहे कलपति प्रो. एस डब्स्य अख्ता ने हहा कि जो कुछ विज्ञान ने आज

पाल पहले अग्रत्याशित लगता था। उन्होंने इंसान और समाज के विकास के लिए विज्ञान और प्रौद्योगिकीय नवाचारों की भूमिका घर बल दिया। इस अवसर पर प्रो वाइस चांसलर प्रो. जम्बल ओरिफ, रजिस्ट्रार, प्रो. इरफान अली खान, डीन विज्ञान, प्रो अब्दुल रहम्बन आदि उपस्थित थे। लित्रि की ओर से बुधवार को लालबाग नूर मंजिल के पास निःशुल्क स्वास्थ्य जांच शिविर का आयोजन किया गया है।

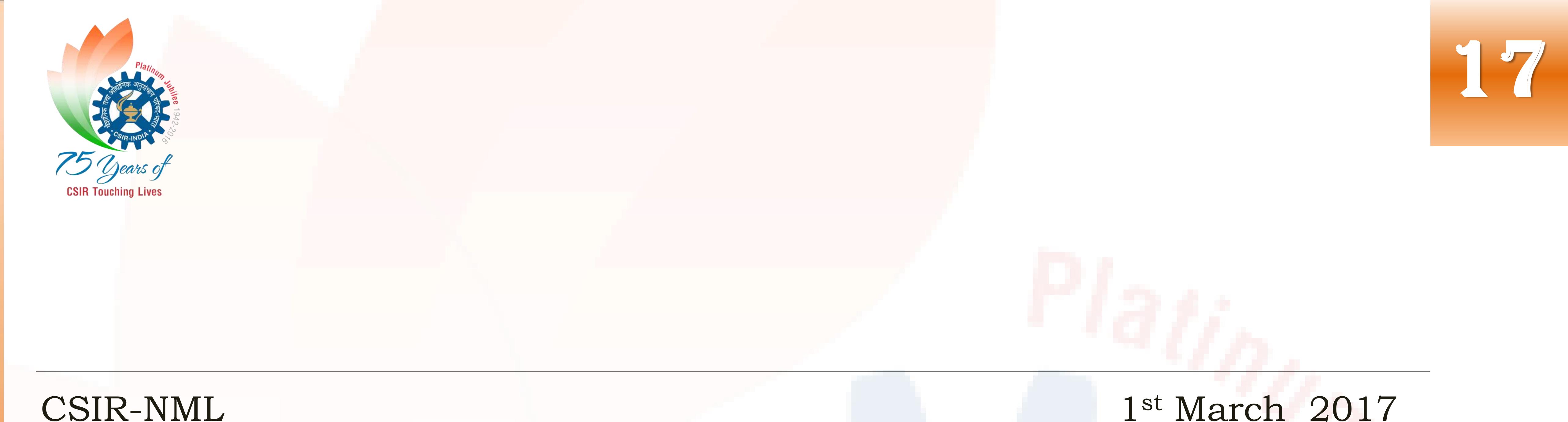


#### Published in:

#### Amar Ujala

#### Also Published in:

#### Dainik Jagran, Hindustan, Rashtriya Sahara, JanSandesh





#### **Published in:**

#### Dainik Jagran

#### **Also Published in:**

#### Hindustan, New Ispat Live, Prabhat Khabar, Dainik Bhaskar





## From the edge of India's deepest pit



25<sup>th</sup> February 2017

Koyna, Maharashtra. For the first time in its life, 'Shivganga', the 90tonne, 80-feet-high drilling rig found itself perched on a hill. Used to combing India's western coastssometimes inside the sea—for crude oil, this time it has an unusual task:

successful, this would pave the way for a future, deeper dive—this time 5 km—into India's innards. That's approximately like going from Connaught Place to Nizamuddin.

## The Indian project, when done, will

to plumb depths, yet unachieved on mainland India, and in the process, bring seismologists nose-pressinglyclose to watching an earthquake come to life. Were everything to go to plan, in the next three months, the Indore-based Shivganga drilling company will have managed to get its rig to burrow 3 km deep. If

rival previous excursions by China and an earlier one by Germany to tunnel 6-8 km into the earth. Unlike commercial wells, the holes being dug in Maharashtra will be a permanent edifice to science in India and the proposed 5 km hole will retain that depth "for centuries", say scientists involved in the project.







ఈవాడు. హైదరాబాడ్

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with a with the state of the states పొంతాలోకి విడుదల వేయాలనేది నివరదర్శ ఆస్ప යන්නු මාලාංක බරලබාගෙ මධා බරු යමා త్రయ్యే వ్వర్తాలను చేరుగా కాల్వల్లోకి పదలటానదు. therefore therefore appending Beliefors aver-es, thotodis adode 30g స్పాయి. తన్నలం తీసింకోవాల్సిన కాలున్న సంగుంత్రకం మందరి చేతులు ముదుడుకు కూర్చవడం వర్షి ఈ 2020 30500 50000 300532 2050 anorte arrier same blockers జాతీయ మాజాతిక పరిశోడన సంస్థటునేఉందిని-రష్యన్ ఆరాజిమేం ఆధ్ సైన్రెస్(ఆర్ఎఎస్) నండకా క్రంగా సర్వహించిన అవ్వయనం స్పష్టం నేప్పింది. వద్దా, ధారత్ ఒప్పందంలో భాగంగా రెండు రేశా జిల్ రెండు ప్రజాన కాలువుకారక ప్రాంతాలో ఎంత్ర కర్ రాష్ట్రంల్ లోమగ్రాథి(తెలురిటి) సర్వ నిర్యాహం జాలని ఎన్టిజర్ఐ, ఆరోపెపిస్ దిర్ణియిలుచుతున్నాయి. සිමෙසේ කමර්ගිමුද්ධිමෙසේන.

erflane.

అత్యంత కారుపిల్లార ప్రాంతాలో. ఒదది, పద్దారి మార్పోటాల

ಅಶ್ಯದ ಸ್ಪುದುವಿನ ಸ್ಪುತ್ತಿಕಲು 25, million, mast, mot, and, 2-00.

మంచి సరిశోవనలో పాల్పెస్తునారలో రావుమోహన్.

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351. Otrain Otre arts wright ఎక్కవగా ఉగ్నక్క అత్యయనం వెట్లడించింది. etija ile zgarde zrideat drugs webr నంగా ఉండది శార్ఘదేశ్రుల చెటుతున్నారు. చెక్కిన పరభావంలో బలమైన రారిపొరణ ఉన్నాయి. ఫేరి తరాశా ఉపరితలు నుంచి తనకి ప్రదేశంతే దరాడు నారు. లోహాప్రసికు రాథ పోడల మధ్య సరిరిషో the second the second the second వరుషణ ఎర్పకనపురు పండ్రిడి వ్యక్తిలు లోగుకి భవళుడ్తన్నాయి. మారోస్టరో ఈ పరిస్థిత లేదు జర్జిని వేరి చెంద్రని సుర్పవరాయితో కూరంపుర్రమ తారాతాల వ్యవందిన వర్షత్రకలు జుర్గాయి. సబ్ తంగా పరిశ్రామం నుంచి చిడుదలదేశ్ర వ్యక్తారం. భాగర్భంతోకి సులుపూ! జంకపోయి నిరి ప్రహాదాం ಶ್ ಲಾವೇಶ್ವನವು ಗಂಶವುತೇಂದ.

#### పరిశ్రిమల పరిష్ణమే కారణం

పరశ్రామలు వ్యాత్రాయం నేరుగా పరిలేయడంతో వ



the state in the second deglare Samore Thildel into demons Int ಕಂಡಾಂ, ಜನಾನಾಡಾ, ನಾರ್ದ್ರದಂಶವಾದ, ನೂಡಿ, ఉప్పాడి సంస్థలున్న 25 ప్రాంతాలో భూగర్గి ఆలం, మందిన పరివించాలు. వాటిలోను వారలోహాలను 100000000 Hide 200000 200000 2000 that been distance is product in

వృద్ధ అనే మూడు అంశాల ప్రోది పదిశా వాటిని ఎంపిక చేసినట్ల	చిన కాద్యిందుం కాపర్	326.0 65 1.5 0.4	65.3 0.5 220	2°6177201 5°00000, 0007 Debe, 105, 7000000	మరద ఉన్నాయా గుర్తింటాం. దూస్యాత్ పోర్చితే దగరంలోని భాగారృజలాలో రాటువుం తక్కువగా ఉంది జీజాల్లే, అర్బెదకోలు కూరటిపల్లి భాగార్చంలో పార్యవగా ఉన్నాయి. మగివిన ఏడు కారలోపోలు చూస్పో, నగరంలోని భాగారృజ			
ఎన్జీఆర్ఐ సినియర్ శాస్త్రవేత్త జామమోహన్ 30పోరు అయా పోంతాల్లో భూగవృజలాలు, మత్త గాజ్యతను పరీక్రంచనమే లక్షుంగా అద్దయనం పేపట్నమత్పారు	ఉంద్ చిరిల్ రోయాల్మ్	281.7 96 1.6	81.6 30.8 10.2	వంద లోపోంతో నగరంలోది వర్షెక్రు కలుపితమయార్థింది వర్షెమయి ఆయా ప్రాంతాల నుంది ప్రవహించే నాలాల చుడ్డపక్కలున్న ప్రాంతాల్	ాలి ఎక్కవగా కరిపించాలు. – రామమోహనా.5, పినియర్ కాప్రవేత్త, ఎనిజీఆర్ఐ			
అందుకు సంబంధించిన పరిశోధన పత్రం జరీవలే 'పోడిడియా ఎర్ అంద్ పురింది పైల్స్' జర్నలేలో ప్రచురితమైంది, ఎస్జీఆర్తి	మాచిప్పినమ తోమియం తెర్పెనిక్	1.4 60.2 0.6	1.4 33.2 8.25	వాటి గాథత చారా ఎక్కువగా ఇంది. చెరువులున్న ప్రాంతాలో వైమనంపోరక మందుల ప్రధా పాదరా కనిపిస్తుంది. వీటరు	నురులో జార్యందుల 0.08మైలో జానిముల నుంచి 4 8మైలోగ్రాములు ఉందగా, సగటు 8.841మైలాను నిరాజింద			