CSIR in Media



News Bulletin

21st to 25th September 2019











under CSIR Aroma Mission

Lucknow, Sep 24 (UNI) CSIR-Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP), Lucknow organized a scientist-aroma industry interaction meet here on Tuesday under CSIR Aroma Mission. A total of 30 industry representatives from Ultra International, Kelkar Group, Ajmal Perfumers and others from various parts of the country participated in the meeting. Dr Abdul Samad, Director, CSIR-CIMAP, here said that the meeting has been organized to discuss the future course of action in the second phase of CSIR Aroma Mission. Dr. Alok Kalra underlined the progress of Aroma Mission since its inception. He told that till

now 4800 hectares of additional land has been covered by aromatic crops in 1008 clusters

across the country. About 300 tonnes of essential oils worth Rs 38 crores have been generated under the Aroma Mission by the farmers which is now available to the aroma industry. He also briefed the industry personnels about the future prospects of Aroma Mission to cater to the quality and agrotechnologies. The industry representatives present in the meet appreciated CSIR Aroma Mission for its achievements and contributions towards aroma industry. Mr. Yogesh Dubey, President EOAI, in his address said that CSIR should now focus on quality certifications and value-addition in essential oils. He also told that the rates for essential oils needs to be fixed for increasing confidence among the farmers and helping the industry to grow.

Shakti Vinay Shukla, Director, FFDC Kannauj, talked about the development of national level aroma market intelligence system by involvement of various CSIR labs, industries and other stakeholders of aroma industry.

UNI JDM PS 2344

Published in:

UNI





CSIR-NML



25th September, 2019

 पूर्वी सिंहभूम,	किशोर सहाय, हिंदुस्तान पेट्रोलियम
सरायकेला-खरसावां	के क्षेत्रीय प्रक्षेत्र के उप महाप्रबंधक
व पश्चिमी सिंहभूम जिले	प्रणय कुमार, परमाणु खनिज विभाग
के 65 अधिकारियों ने	के क्षेत्रीय निदेशक अनिर्वान साहा,
हिस्सा लिया	क्षेत्रीय भविष्य निधि आयुक्त राजेश
जमशेदपुर . नगर राजभाषा कार्यान्वयन समिति जमशेदपुर की	कुमार सिन्हा, सीआरपीएफ के द्वितीय कमान अधिकारी एसएम बेहरा, बैंक ऑफ इंडिया के आंचलिक कार्यालय के
45वीं बैठक का आयोजन मंगलवार	उप आंचलिक प्रबंधक सुकांत कुमार
को हुआ. एनएमएल सीएसआइआर	माहांती, सीआइएसएफ के वरिष्ठ
परिसर में आयोजित इस बैठक में	कमांडेंट हरिओम गांधी समेत कई अन्य
पूर्वी सिंहभूम के साथ ही सरायकेला	उपस्थित थे. सभी ने संयुक्त रूप से हिंदी

Published in:

Prabhat Khabar

Produced by Unit for Science Dissemination, CSIR, Anusandhan Bhawan, 2 Rafi Marg, New Delhi

खरसावां व पश्चिमी सिंहभूम जिले के किकास-विस्तार के लिए ज्यादा से कुल 65 अधिकारियों ने हिस्सा लिया. ज्यादा हिंदी के प्रयोग पर बल दिया. इस दौरान सभी ने राजभाषा हिंदी के कार्यालय या फिर अन्य स्थानों पर बेहतर विकास-विस्तार के लिए साझा प्रयास करने का संकल्प लिया. इस बैठक में एनएमएल के डायरेक्टर, वेबसाइट में भी हिंदी का प्रयोग किया प्रधान आयकर आयुक्त अविनाश जा रहा है.

Delhi-NCR: Coming this Diwali, 'green' crackers with logo, QR codes

This Diwali, lowemission "green" crackers with a unique logo and QR code on the boxes will finally be available in Delhi-NCR. According to CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) officials, over 550 emission testing certificates have already been handed over to manufacturers. "These green crackers will have both sound and light. There will be a unique logo on the boxes to help people identify whether they are buying low-emission green crackers or the regular highly-polluting ones. The green cracker boxes will also have QR codes which will have production and emission testing details," the official told TOI, adding that more than 70% of the major

manufacturers have got emission testing certificates. Around 60 compositions of "green" crackers made by various manufacturers were approved for production till now while 24 were rejected, Petroleum and Explosive Safety Organization (Peso) chief M K Jhala told TOI on Monday.

Unlike last year, green crackers will be available in Delhi-NCR this Diwali, Jhala said. However, green crackers were not available in the market and Diwali saw violation of the order all over Delhi-NCR. "These approved compositions do not have any barium nitrate. The anufacturers came up with the compositions and we gave approval to the ones which

fall within the 'green' parameters after careful review. Production has already started in Sivakasi," Jhala said. These green crackers have low content of aluminum and use of barium salts and ash as a drying agent is banned in these. According to the Council of Scientific and Industrial Research, firecrackers that cause 30-35% lower emissions of particulate matter (PM10 and PM2.5) and 35-40% lower sulphur dioxide and nitrogen oxide emissions are categorised as "green crackers".

SC imposed a partial ban on firecrackers last Diwali Bursting firecrackers in Delhi was allowed only between 8pm and 10pm on

3 But with green crackers not available in market, there were rampant violations in Delhi-NCR on Diwali last year

Diwali day

 Only low emission "green" firecrackers to be manufactured and sold countrywide
 Firecrackers can't have toxic barium salts

Green crackers were seen as a way out
30-35% lower emission of particulate matter (PM10 and PM2.5)
35-40% lower emission of sulphur dioxide (SO2) and nitrogen oxide

How things may change this year

Green crackers to be available in Delhi-NCR

Petroleum and Explosives Safety Organisation has approved 60 compositions and rejected 24 Approved compositions don't have barium nitrate 550 emission testing certificates already handed over to manufacturers by CSIR-NEERI

Low cost due to usage of low-cost oxidants

5 So, how to find out if you're Using a green cracker? Look for a unique logo

on the box

There will also be a QR code with production and emissiontesting details

SOME HAZARDOUS INGREDIENTS IN FIRECRACKERS

Barium nitrate Poisonous. Fumes can irritate respiratory tract

File photo

sulphuric acid affects water sources and vegetation Potassium nitrate Toxic dusts, carcinogenic sulfur-coal compounds Lead dioxide /nitrate/ Chloride Developmental danger for kids and unborn babies Mercury Toxic heavy metal; can bio-accumulate

Copper compounds Cancer risk Cancer risk Cancer risk Cancer, Skin irritation

Aluminium Dermatitis, bioaccumulation Sulfur dioxide Acid rain from

"Our job is to only grant approval for products on the basis of permitted composition which has now excluded barium nitrate. The certification for whether the end product is a green cracker or not will be done through emission tests by NEERI," the Peso chief said. The five main sources of air pollution in Delhi, according to an IIT Kanpur's source

apportionment study, are emissions from coal-run power plants, vehicular emissions, burning of crop residue, emissions from ready-mix concrete batching plants and dust at construction sites, with minor sources like bursting of firecrackers aggravating the situation during pre-winter and winter seasons. In winter, crop stubble burning causes as much as 26% of the city's pollution while in summer it goes down to 12%. Delhi's air quality last Diwali day, November 7, oscillated between "poor" and "very poor" categories as authorities warned of severe deterioration in air quality even if "partial toxic

crackers" are burned compared to previous years. However, the next day, November 8, most air quality monitoring stations across the city had "very poor" air quality and the AQI touched 390. On November 9, it reached "severe" levels at 423. Authorities attributed the spike in pollution level to the burning of toxic firecrackers.

researchers

Hyderabad, Sep 24 (UNI) CSIR-Centre for Cellular and Molecular Biology (CCMB), Hyderabad, a premier life science research institute, will open its gates open for one and all for one-day on Thursday alone.

It is an annual celebration at CCMB to mark the Foundation Day of Council of Scientific and Industrial Research (CSIR).

CCMB will have exhibits touching on the ongoing research in the institute and a scope to interact with active researchers.

The variety of exhibits span from study of microbial growth to development of living organisms to

how brain works to how better crops can be produced, CCMB said in a release here on Tuesday.

There are going to be booths talking about the opportunities in entrepreneurship in life sciences

and how citizens can come together to fight antibiotic resistance.

UNI KNR ASN 1959

Published in: UNI

Aromatic plants perk up Leh-Ladakh farmers

The fragrance of the high revenue-earning aromatic plants seems to have caught the fancy of the small farmers residing in the high-altitude cold arid zones of Leh-Ladakh. Tapping in on this growing interest among farmers, Ladakh Farmers and Producers Cooperative Limited (LFPCL), Leh and Ladakh recently inked a pact with Council for Scientific and Industrial Research's (CSIR) Palampur-based lab, Institute of Himalayan Bioresource Technology (IHBT) for cultivation of the high-value aromatic crops like rose, marigold and mint.

Under the Memorandum of Understanding (MoU), a processing unit to churn out essential oils from these crops at village Ranbirpura, Thiksay and Leh is being set up. Dr Sanjay Kumar, Director, CSIR-IHBT, Palampur said processing unit is indispensable for value addition of aromatic plants and establishment of this facility in Leh will benefit the local farmers of Leh district. "As the region is deprived of natural irrigation facilities and is suitable for the cultivation of high value aromatic crops such as damask rose, chamomile, wild marigold, dracocephalum, lavender and saffron, so CSIR-IHBT recognised this area for the cultivation of these crops," he explained.

Dr Kumar said seeds of wild marigold, chamomile and saffron have also been provided to the farmers along with the complete information package of agro technologies which will help them in proper cultivation of these crops. The project is being undertaken under the CSIR's Aroma Mission programme started two years ago with an aim to promote the aromatic crops and to bring additional area of 5,500 ha under these crops for socioeconomic upliftment and employment generation for farming community and rural masses. Dr ML Mantoo, CEO, LFPCL and former adviser to the Ministry of Rural Development

said this partnership will allow them to work in collaboration with premier CSIR institute in cultivating aromatic crops in lager area of Leh and Ladakh region and to provide maximum benefit to farmers. Dr Rakesh Kumar, Principal Scientist, CSIR-IHBT said Leh and Ladakh region is suitable for cultivation of high value aromatic crops where unique

aroma compound can be produced which have huge demand in the international perfumery and fragrance industries.

To promote cultivation, awareness-cum-training programme has been held in villages like Ranbirpura of district Leh where large number of farmers participated. Leh- Ladakh is located in the northern part of the Indian subcontinent with an area of about 59,146 km. With CSIR-IHBT's efforts, Himachal Pradesh has already become the largest producer of high-quality wild marigold essential oil in India, meeting the demand of perfume, flavouring, and condiment industries. A good number of farmers in Uttarakhand, Himachal Pradesh and Jammu & Kashmir have already taken up the cultivation. In fact, an area of about 214 hectares has been bought under wild marigold cultivation by more than 600 farmers in the hilly region. The crop is suitable for cultivation in the plains as well as on the hills as a mono-crop or inter-crop in orchards/forest/medicinal/ aromatic plants.

Aromatic crops are widely cultivated around the world due to its high-revenue earning essential oils which are utilised in perfumery, food, flavoring, pharmaceutical and agrochemical industry.

23rd September, 2019

CSIR-CMERI

Published in:

UNI

CSIR-CMERI launches Smart Dimmable LED Street Lighting Technology

Kolkata, Sep 24 (UNI) Scientists of CSIR-CMERI have come up with an affordable technology solution that saves a significant amount of energy along with easy identification of faults in street lights named as Smart Dimmable LED Street Lighting Technology. The key feature of the technology is that it automatically increases the brightness of street lights when a pedestrian or bicycle or car is moving or present in the street and goes back to a predefined diming state when none is present. The technology works in a combination of the advanced motion sensors with dimmable LED drivers that makes on-demand dynamic lighting through adjustment of the intensity of individual street lights that can vary from 10pc to 100pc. It softly enhances the brightness of forwarding lights so that the pedestrians or bicycles or cars get enough light well in advance. This ensures the safety and comfort of pedestrian. Additionally, it automatically switches ON the street lights in the evening and OFF in the dawn, without the need for human intervention. Further, it is tolerant from an undesirable trigger in light demand when animals such as cats, dogs etc., passes by. CSIR-CMERI has transferred the Smart Dimmable LED Street Lighting Technology to Koley

Engineering Works, Howrah, West Bengal on 21 September 2019. UNI XC RN

13th scholarship awards function: 'Data to bring arts & social sciences in same frame'

Complex on Sunday. On this occasion 125 meritorious students pursuing post-graduate and under graduate studies in various fields of pure sciences, mainly hailing from rural areas and from families with low incomes were awarded full scholarship to enable them to successfully pursue their studies. "It is important to have mentor- mentee relationship because mentors will always challenge you and need to surpass their expectations. The students who have been awarded scholarships today are now ambassadors of these scholarship. Each one of them will be conveying the message which foundation gives to their students," he added. On this occasion Bahri Malhotra, president; Mukesh Malhotra, vice-president

As far as your generation goes, the role of humanities and social sciences is important and to connect them is necessary. Not just data from within the subject, but from across the subjects. If you are educated, it will open opportunities for you which are unimaginable. You should try to be the best in whatever you are doing, because you owe it to the society for the encouragement and opportunities," said Ashwini Kumar Nangia, director, Council of Scientific and Industrial Research - National Chemical Laboratory (CSIR-NCL). He was speaking as the chief guest at the '13th Scholarship Awards the Malhotra Weikfield Function' by Foundation at the Symbiosis Educational

(admin); Ashwini Malhotra, treasurer; Ritu Malhotra and Priti Malhotra trustees all from Malhotra Weikfield Foundation were also present. **Published in:**

Hindustan Times

The Tribune

Wild marigold oil yields good returns to farmers

Himachal Pradesh has attained the number one position in production of essential oil of wild marigold flower. The Director of the Institute of Himachal Bio-Resource Technology (IHBT), a CSIR centre at Palampur, Dr Sanjay Kumar said during the last two years, the IHBT had brought more than 500 hectares under the crop. The cultivation of wild marigold had resulted in the production of 7.6 tonnes of essential oil in Himachal that helped in revenue generation of Rs 5.56 crore benefiting 861 farmers. To uplift the cultivation of aromatic crops to double farmers' income, different small societies of progressive farmers have been formed by the CSIR-IHBT, he said. Nineteen processing units had been set up to empower the farmers for the production of essential oil. The main wild marigold growing regions are Bhatiyat and Salooni in Chamba; Seraj and Gogardhar in Mandi; Banjar in Kullu and Rampur in Shimla, Sanjay said. Farmers of the remote regions are taking up cultivation of aromatic crops to revive agriculture as they are facing problems on account of non-remunerative returns and increasing incidences of crop loss owing to stray animal menace. Sanjay said aromatic crops were widely cultivated around the world due to its high-revenue earning essential oil which is utilised in agrochemical, food, flavoring, perfumery and pharmaceutical industry.

The global essential oil market demand was 22.6 lakh tonne in 2018 and projected to expand at a CAGR of 8.6 per cent from 2019 to 2025, he said. To promote cultivation of these aromatic crops among farmers, a complete package of agro and processing technologies had been developed and executed in the fields to help farmers realise the profits. Depending upon the quality and quantity of essential oil, farmers of hills can earn net profit of Rs 1.5 lakh per hectare annually, he said. **Published in:**

EU to share technologies with India for recycle of bauxite residuez

association with Ministry of Environment Forest and Climate Change (MoEFCC), JNARDDC, European Union-Resource Efficiency Initiative (EU-REI) and EU at JNARDDC on Friday. India and EU are on a process to strengthen co-operation in the areas of environment, resource efficiency and circular economy under the Resource Efficiency Initiative (EU-REI) for India. The meeting focused on value addition in the process of reuse of the residue and safe disposal of red mud. The delegation of experts from EU enlightened about global and EU developments in the sector and specifically about ongoing Horizon 2020 Programme under which three major

he European Union (EU) will share technologies for effective utilisation of hazardous Red Mud (Bauxite Residue) with Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC) and other institutions of the country which are working in the field of projects (EnsureAl, RemovAl and SCALE) aluminium waste and Rare Earth Elements are in operation with aim to bulk utilise of (REE). The decision was made during a bauxite residues. The meet had wide spread meeting on the issue, 'Resource Efficiency in participation by scientists from various R&D the Aluminium Industry with a Focus on institutes such as Interscience Institute of Effective Utilisation of Red Mud', held at Management and Technology (IIMT), JNARDDC on Friday. The meeting was Bhubaneswar; CSIR-Advanced Materials organised by Ministry of Mines (MoM) in and Processes Research Institute (

CSIR-AMPRI), Bhopal and National Environmental Engineering Research Institute (NEERI), Nagpur. In the meeting, NEERI emphasised on safe disposal of red mud in atmosphere and also talked about environmental aspects of hazardous wastes. The world generates over 150 million tonnes of red mud, and global inventory is more than three

billion tonnes. Red mud generation in India is around 9 million tonnes per year.

JNARDDC, Hindalco and National Metallurgical Laboratory (NML), Jamshedpur have the process to produce bricks, blocks, paver blocks, plasters etc from red mud for housing and road applications. While these processes are technically well established, they are not economically attractive mainly due to high transportation cost either of end product or the raw materials.

The meeting also focused on this aspect also and EU is ready to share their knowledge and

technology to make these products affordable. Katy Tsesmelis, International Aluminium Institute (IAI); György (George) Bánvölgyi, Hungary; Ugo Miretti, ITRB Group; Casper van der Eijk, SINTEF, Norway; Dr Papadimitriou Konstantinia, Greece and Dr Dieter Mutz, EU-REI were from EU and EU-REI.

EU urged JNARDDC to come out with a document of actionable points at the end of the meet with a view to address this global issue. Dr Anupam Agnihotri, Director, JNARDDC hosted the meeting while M T Nimje, Dr S P Puttewar, M K Chaddha, Dr M Najar, Dr Suchita Rai, Dr Upendra Singh and S Wadodkar also were present in the meeting.

R Vishakha and R Sriniwasan conducted the meeting. Later, the EU delegation visited the Institute and applauded the facility and the work of JNARDDC.

Published in: The Hitvada

ओर से मरीन बेयरिंग साइट तैयार मल्टीपल फोकल लेंथ की सुविधा की गई है। नहीं है। सीएसआईओ की ओर से ये साइट वो होती है जिस पर तैयार मरीन बेयरिंग साइट में इमेज स्थिति और उसका साइज पता किया जा सकता है। ये तकनीक को मेग्नीफाइंग भी कर सकते हैं। चालक को कंपास की डायरेक्शन लग जाएगा। इस पर चांद व सीएसआईआर और इंडियन नेवी इस पर तस्वीर जूम हो सकेगी। इसे के अनुसार जानकारी आख के सामने (लाइन ऑफ साइट) सितारों की इमेज भी दिखा सकते के बीच एमओयू के तहत चल रही डेढ़ गुणा, तीन गुणा और छह गुणा दिखती है। इस बेयरिंग साइट पर हैं। इसकी तकनीक को किसी भी रिसर्च के दौरान ही तैयार हुई है। तक कर इमेज को देख सकते हैं। मौजूद स्केल की मदद से दूसरी लाइट में देखा जा सकता है। इसका डीजी-सीएसआईआर डॉ. शेखर सी इसमें ऑप्टिकल फिल्टर्स लगाए हैं शिप या सब मरीन की दिशा व उपयोग दिन या रात किसी भी समय मंडे ने इसका लोकार्पण किया। डॉ. जिससे हर कंडीशन में काम करेगी।

Published in:

Dainik Bhaskar

अब अकड़ी हुई मांसपेशियों को रोबोट करेगा रिहैबिलिटेट

वीणा तिवारी •चडीगढ़

एक्सीडेंट या किन्हीं अन्य कारणों से मांसपेशियों में आई अकड़ या ड्क्षखचाव को अब रोबोट ठीक करेगा। इसके लिए घंटों फिजियोथेरेपी सेंटर में थकानभरी एक्सरसाइज करने की नौबत भी नहीं आएगी। चंडीगढ़ के सेक्टर 32 स्थित सेंट्ल साइटिफिक इंस्टूमेंट्स ऑर्गेनाइजेशन के वैज्ञानिकों ने इसके लिए एक खास तरह का रोबोटिक डिवाइस तैयार किया है। इसकी मदद से प्रभावित अंग में फिजियोथेरेपी की जा सकेगी। रोबोटिक डिवाइस में ब्लूट्थ बेस्ड कटोल सिस्टम है. जिसे मेवारल के जरिये

फिर फिजियोथेरेपी की कमी नहीं वनेगी परेशानी

देश में टामा के मामलों की बढ़ती रपतार

कदाल सिस्टम ह, जिस मोबोइल के जारप निर्वत्रित किया जा सकता है। खास बात यह है कि इस रोबोटिक डिवाइस			आर रिहाबालटशन सटरा का सामत संख्या इक्षचता विषय है। ऐसे में रोबोटिक डिवाइस की मदद से फिजियोथेरेपी के ज्यादा से	मोवाइल से कंट्रोल कर सकेगा। इसमें मरीव की क्षमता को ध्यान में रखकर थेरेपी देने व
का नई दिल्ली स्थित नेशनल स्पाइन इंजरी सेंटर के मरीजों पर सफल ट्रायल किया जा चुका है।	चंडीगढ़ : सेंट्रल साइटिफिक इंस्टूमेंट्स ऑर्गेनाइजेशन के	वैज्ञानिक द्वारा तैयार रोबोटिक डिवाइस = जागरण	ज्यादा कस कम समय म बहतर तराक स करन में सफलता मिलेगी। – एसएस सैनी, बिजनेस हेड, सीएसआइओ	भी व्यवस्था की गई है। उसमें एक्सरसाइव के दौरान मरीज को जैसे-जैसे थकान होग वैसे-वैसे इसकी स्पीड वायो सिग्नल वे
सारे पैरामीटर रोबोट में होंगे फिक्स : इस डिवाइस को बनाने वाले सीएसआइओ के बुक्षप्रसिपल साइंटिस्ट डॉ.नीलेश कुमार	ने बताया कि मरीज की सुविधा को ध्यान पर में रखकर इसे तैयार किया गया है। क्योंकि ख फिजियोधेरेपी में मानक का पालन न होने रो	र परेशानी कम होने की वजाव वढऩे का इतरा होता है। इसलिए इस डिवाइस को बोट के साथ कनेक्ट कर उसमें मरीज के	थेरेपी से संबंधित सारे पैरामीटर फिक्स करने का विकल्प दिया गया है। पैरामीटर फिक्स	जरिये नियाँत्रित होती जाएगी। इसके जरि मांसपेशियों को कम समय में सही करने व लक्ष्य पुरा होगा।

Dainik Jagran

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