

# CSIR in Media



*75 Years of*

**CSIR Touching Lives**

**News Bulletin**

**1<sup>st</sup> to 10<sup>th</sup> August 2019**





## Food from CFTRI to flood-affected areas

CSIR-CFTRI

10<sup>th</sup> August, 2019

The city-based CSIR-Central Food Technological Research Institute (CFTRI) has sent relief food to Hassan on Saturday. The meal packets contained a total of 4,000 chapatis (2,500 meals), 70 kg of chutney, 100 kg of rusk (1,000 meals), 6,000 bottles of drinking water and about 300 kg (3,000 meals) of ready to constitute avalakki mix. This is in response to the request from the Deputy Commissioner of Hassan. Further consignments will be sent on demand from the flood-affected regions, according to officials. Officials of Defence Food Research Laboratory, another premier food research institute of the city, said, they have not received any request for supply of food.

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## NEERI creates software to diagnose water contamination

CSIR-NEERI

10<sup>th</sup> August, 2019

Even as National Environmental Engineering Research Institute (NEERI) presented a software that can help to identify contamination of urban water source, representatives of Government local bodies battled the enormity of the task to provide data and expressed reservations whether their respective machineries ever be able to gather that much big data to be fed into the software. Atmosphere in the meeting was positive but the practical difficulties loomed large over the table. NEERI has come up with the software named RISK-PiNET 2.0, a modelling tool for risk assessment and rehabilitation planning of Water Distribution System. It is the software, which is useful for assessment of contamination in drinking water distribution system. This software is useful for various Municipal Corporations in the country as the potable water is supplied to consumers through pipelines in urban areas. RISK-PiNET identifies the pipes with greatest risk of hydraulic deficiencies and structural failure. It generates a prioritised list of pipes those need rehabilitation. Decision makers can draw phase-wise rehabilitation.

The software developed by NEERI needs information of pipes, sewer lines, drain system, water jam, the age of the pipes, material diameter, length, location, condition of the pipeline. While operating and maintaining a huge network of pipelines, the Municipal Corporations are unable to assess deteriorating conditions of pipes, leakage in pipes or other risks taking place due to the contamination at some points of the drinking water supply network. Big challenge is to identify the exact contaminant intrusion point in the network of pipelines. RISK-PiNET helps in identifying the problem and thus helps to increase the drinking water supply in cities. This software has three modules: pipe condition assessment module (PCA), hazard assessment (due to sewage and drain) module, and risk assessment (due to PCA and hazard) module. The software also assesses the failure rate and remaining useful life of each pipe considering the year of pipe-installation, length, diameter



and pressure therein the pipe. Accordingly, rehabilitation of the contaminated pipeline can be planned rather than changing the water distribution system at large scale. RISK-PiNET has been developed by the CSIR-NEERI scientists Dr Aabha Sargaonkar, Asheesh Sharma and other members of Cleaner Technology and Modelling Division (CTMD), CSIR-NEERI. On Friday the CSIR-NEERI scientists demonstrated RISK-PiNET to the senior officials of Public Health Engineering Departments of Chhattisgarh, Municipal Corporations of Pune and Nagpur, Brihanmumbai Municipal Corporation, Mumbai, OCW and The Nagpur Environmental Services Ltd. (NESL).

Dr Abha Sargaonkar urged the officials to let them know the feedback so that the improvisation could be brought in the software. She informed everybody that a study had been carried out at Hanuman Nagar, Nagpur by using the newly developed RISK-PiNET and the data generated would be verified through survey and field visits. Shashikant Hastak, Technical Director, NESL suggested scientists the efficiency of the software should be tested in small areas so NEERI should take up the project in Dhantoli zone. Secondly the meeting of private operators or consultants should also be called separately so that it would help at implementation level.

The authorities raised a concern that the data required for this software may not be available at one place; therefore need to congregate it in coordination with various departments of the State. Another officer pointed out, the software is the diagnostic tool. So when it diagnosed and procedure is required then whether the people would be ready for the same or not should also be checked. The authorities assured that they would use RISK-PiNET as a decision making tool to ensure safe drinking water. Dr J S Pandey, Chief Scientist and Head, Climate Change and Skilling Division supported the idea and stayed till the completion of whole discussion.

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[The Hitvada](#)



CSIR-IMMT

10<sup>th</sup> August, 2019

# सीएसआईआर कौशल विकास प्रशिक्षण कार्यक्रम में मंथन

## जल परीक्षण और विश्लेषण के लिए मौलिक एवं उन्नत कौशल पर दी ज्ञान



■ नवभारत ब्यूरो। भुवनेश्वर.

अनुसंधान अध्येताओं और औद्योगिक व्यक्तियों को उन्नत उपकरणीय सुविधाओं सहित जल परीक्षण एवं विश्लेषण से संबंधित व्यावहारिक ज्ञान प्रदान करने के लिए सीएसआईआर-खनिज एवं पदार्थ प्रौद्योगिकी संस्थान, भुवनेश्वर के पर्यावरण एवं सम्मोषण विभाग द्वारा जल परीक्षण और विश्लेषण के लिए मौलिक एवं उन्नत कौशल (बीएसडब्ल्यूटीए) पर कौशल

विकास प्रशिक्षण कार्यक्रम का आयोजन किया जा रहा है. इस प्रशिक्षण कार्यक्रम की अवधि 5 दिन (5 से 9 अगस्त, 2019) है और यह सीएसआईआर एकीकृत कौशल पहल के अंतर्गत आयोजित किया जाता है. उद्घाटन भाषण में प्रो. एस बसु, निदेशक, सीएसआईआर-आईएमएमटी, भुवनेश्वर ने जल का पुनःचक्रण एवं वैज्ञानिक उपकरणों के अंशांकन पर प्रकाश डाला. इस कार्यक्रम के संयोजक डॉ.प्रभात मंजरी मिश्र ने

कौशल विकास और प्रशिक्षण कार्यक्रम- बीएसडब्ल्यूटीए 2019 के बारे में संक्षिप्त विवरण प्रस्तुत किया. डॉ एस के प्रधान, सह समन्वयक, आईएमएमटी के कौशल विकास कार्यक्रम ने पूरे वर्ष के दौरान आयोजित किए जाने वाले भावी कौशल विकास कार्यक्रम की संक्षिप्त रूपरेखा से अवगत कराया. ई एंड एस विभाग के प्रमुख डॉ एन के ढल ने स्वागत भाषण दिया और डॉ मनीष कुमार, वरिष्ठ वैज्ञानिक, ई एंड एस विभाग ने धन्यवाद ज्ञापित किया. इस प्रशिक्षण

का प्राथमिक उद्देश्य जल नमूने, नमूनों की तैयारी, प्रसंस्करण एवं विश्लेषण पर कौशल एवं ज्ञान प्रदान करना है. इस कार्यक्रम का लक्ष्य है विशिष्ट नवाचार के अनुसार विभिन्न उपकरणीय विधियों पर प्रत्यक्ष व व्यावहारिक प्रशिक्षण प्रदान करना. जल परीक्षण एवं विश्लेषण और उनके एकीकृत विश्लेषण विधियों से संबंधित प्रमुख उपकरणों के सिद्धांतों पर विशेषज्ञों द्वारा विस्तृत प्रशिक्षण दिलवाया जाएगा. यह प्रशिक्षण मानव संसाधन का विकास करेगा जो जल परीक्षण एवं विश्लेषण में बढ़ती जनशक्ति की आवश्यकता की पूर्ति में योगदान दे सकता है और राष्ट्रीय कौशल विकास मिशन के अंतर्गत कौशल विकास कार्यक्रम को समर्थित करता है. इस कौशल विकास कार्यक्रम का समन्वयन डॉ प्रभात मंजरी मिश्र, वरिष्ठ वैज्ञानिक एवं डॉ एन के ढल, प्रधान, ई एंड एस विभाग, सीएसआईआर, भुवनेश्वर द्वारा किया गया.

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CSIR-IMMT

10<sup>th</sup> August, 2019

# ଆଇଏମ୍‌ଏମ୍‌ଟି ପକ୍ଷରୁ ଜଳ ପରୀକ୍ଷଣ ସମ୍ପର୍କିତ ଦକ୍ଷତା ବିକାଶ କାର୍ଯ୍ୟକ୍ରମ

ଭୁବନେଶ୍ୱର, ୯।୮ (ଭୁ.ପ୍ର): ସହରର ଦ୍ରୁତ ବିକାଶ ମଧ୍ୟରେ ପାନୀୟ ଜଳ ଅଭାବ ଏକ ଗୁରୁତର ପ୍ରସଙ୍ଗ ଭାବେ ଉଭା ହୋଇଛି । ବିଶୁଦ୍ଧ ପାନୀୟ ଜଳ ସୁନିଶ୍ଚିତ କରିବା ସରକାରଙ୍କ ପାଇଁ ଏକ ଆହ୍ୱାନ । ତେବେ ଉପଯୁକ୍ତ ପ୍ରଶିକ୍ଷଣ ଓ ଉନ୍ନତମାନର ବୈଷୟିକ ସହାୟତା ଦ୍ୱାରା ଏହି ସମସ୍ୟାର ସମାଧାନ କରିହେବ ବୋଲି ସିଏସ୍‌ଆଇଆର-ଇନଷ୍ଟିଚ୍ୟୁଟ୍ ଅଫ୍ ମିନେରାଲ୍ସ୍ ଆଣ୍ଡ୍ ମ୍ୟାଟେରିଆଲ୍ସ୍ ଟେକ୍ନୋଲୋଜି (ଆଇଏମ୍‌ଏମ୍‌ଟି) ନିର୍ଦ୍ଦେଶକ ପ୍ରଫେସର ଏସ୍ ବାସୁ କହିଛନ୍ତି । ଚଳିତ ମାସ ୫ ତାରିଖରୁ ଆଇଏମ୍‌ଏମ୍‌ଟି ପରିସରରେ ଏହାର ପରିବେଶ ବିଭାଗ ପକ୍ଷରୁ ଆରମ୍ଭ ହୋଇଥିବା ବେସିକ୍ ଆଣ୍ଡ୍ ଆଡ଼ଭାନ୍ସ୍ ସ୍କିଲ୍ସ୍ ଫର୍ ୱାଟର ଟେଷ୍ଟିଙ୍ଗ୍ ଆଣ୍ଡ୍ ଆନାଲିସିସ୍ ଦକ୍ଷତା ବିକାଶ କାର୍ଯ୍ୟକ୍ରମକୁ



ଉଦ୍ଘାଟନ କରି ପ୍ରଫେସର ବାସୁ ଆଇଏମ୍‌ଏମ୍‌ଟିରେ ଜଳର ମାନ ପରୀକ୍ଷା ପାଇଁ ଉପଲବ୍ଧ ଆଧୁନିକ ବ୍ୟବସ୍ଥା ସମ୍ପର୍କରେ ସୂଚନା ଦେଇଥିଲେ । ସିଏସ୍‌ଆଇଆର ଇଣ୍ଟିଗ୍ରେଟେଡ୍ ସ୍କିଲ ଇନିସିଏଟିଭ୍ କାର୍ଯ୍ୟକ୍ରମ ଅଧୀନରେ ଆୟୋଜିତ ଏହି ଦକ୍ଷତା ବିକାଶ ଶିବିରରେ ଆବାହାକ ଡ଼ ପ୍ରଭାତ ମଞ୍ଜରୀ ମିଶ୍ର, ଡ଼ ଏସ୍.କେ ପ୍ରଧାନ, ଡ଼ ଏନ୍.କେ

ଧଳ, ଡ଼ ମନିଷ କୁମାର ପ୍ରମୁଖ ଉଦ୍‌ବୋଧନ ଦେଇଥିଲେ । ଏହି କାର୍ଯ୍ୟକ୍ରମର ମୂଳ ଉଦ୍ଦେଶ୍ୟ ହେଉଛି ଜଳ ନମୁନା ସଂଗ୍ରହ, ନମୁନା ପ୍ରସ୍ତୁତି, ପ୍ରକ୍ରିୟାକରଣ ଓ ଅନୁଶୀଳନ ତଥା ଉପଲବ୍ଧ ଉପକରଣ ସମ୍ପର୍କରେ ସୂଚନା ପ୍ରଦାନ । ଏହା ଦ୍ୱାରା ଜଳର ମାନ ପରୀକ୍ଷଣ କାର୍ଯ୍ୟ ଅଧିକ ଦକ୍ଷତାର ସହ ସମ୍ପାଦନ ହୋଇପାରିବ ।

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## AYUSH bats for medicinal use of cannabis at Oja fest

CSIR-IIIM



AYUSH experts on Saturday pitched for legalization of the medicinal use of cannabis, saying India can revolutionize pain management with cannabis by using ayurvedic knowledge. The experts were speaking at the third edition of Oja Festival organised on Saturday by NirogStreet (India's first technology-led Ayurveda platform) in association with AYUSH Ministry and co-organised by CSIR-IIIM Technology Business Incubator. A statement said that renowned ayurvedic experts, researchers, and practitioners voiced their opinion on critical issues related to Ayurveda

10<sup>th</sup> August, 2019 and its relevance in the modern healthcare system. "The government is working very hard as medicinal marijuana or cannabis will be legalised soon. Scientists are aggressively working to find out the active components of cannabis," Dr Saurabh Saran, CSIR-IIIM Technology Business Incubator, Jammu said. The CSIR Indian Institute of Integrative Medicine is the first institute to get government approval for cannabis and they are working on seed varieties from all over the world, he said. "We are trying to develop seeds more of active compound cannabidiol (CBD) and less of tetrahydrocannabinol (THC). To make cannabis available for pain management to masses, we need to develop our own varieties as we cannot look at the option of only exporting cannabis. It has to be indigenously developed for medical cultivation and pain management," he added. Addressing the need for adoption of Ayurveda and yoga as part of lifestyle across the globe, Dr. Abhishek Mohan, Director, HempStreet, India said, "Cannabis in ayurvedic context is 99 per cent of what we



are doing at HempStreet. Since other countries have legalized it doesn't mean that we have to follow the exact pattern. We are doing research on indigenous cannabis in partnership with CSIR." Dr. N Srikant, Deputy Director-General, CCRAS said cannabis is recognised as one of five key medicinal plants in the Vedas. "The history of cannabis in India can be traced to 1000 BC. In classical ayurvedic texts, nearly 191 formulations and more than 15 dosage forms have cannabis as a key ingredient. Dried leaves of cannabis collected from the cultivated or wild source are not covered under psychotropic substance act and are legal as an ayurvedic drug.

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[Deccan Herald](#)



# हिन्दी के उपयोग से मिलेगी मदद: डा. हिरानी

## सेल सहित विभिन्न संस्थाओं के प्रतिनिधियों ने लिया हिस्सा

दुर्गापुर। सीएसआईआर-सीएमईआरआई, दुर्गापुर द्वारा औद्योगिक स्नेहन पर हिन्दी संगोष्ठी किया गया। प्रो. डा. हरीश हिरानी, निदेशक, सीएसआईआर-सीएमईआरआई, दुर्गापुर, एवी कमलाकर, सीईओ, सेल-आईआईएससीओ और डीएसपी सहित आईओसीएल, एचपीसीएल, आरडीसी एसआईएस, सेल डीएसपी, एएसपी, पीजी और अन्य प्रसिद्ध संगठनों के प्रतिनिधि उपस्थित थे। डा. हरीश हिरानी ने कहा कि आज के औद्योगिक परिदृश्य में प्रतिमान औद्योगिक स्नेहन का सामान्य महत्व है। ऐसे परिदृश्य में यह विज्ञान और प्रौद्योगिकी के चिकित्सकों पर लागू हो रहा है। लुब्रिकेशन टेक्नोलॉजी की प्रभावकारिता को और बढ़ावा देने के लिए नवीनतम आर एंड डी

### औद्योगिक स्नेहन पर संगोष्ठी



दीप प्रज्वलित करते मुख्य अतिथि।

छाया: अभय गिरि

विकास को लागू किया जा सके। उन्होंने यह भी कहा कि सभी को स्नेहन प्रौद्योगिकी पर आत्मनिर्भरता प्राप्त करने की दिशा में प्रयास करना चाहिए

ताकि हम विदेशी प्रौद्योगिकियों पर निर्भरता को कम कर सकें। स्नेहन प्रौद्योगिकी में नवीनतम घटनाओं के प्रमाण के रूप में डा. हिरानी ने लोटिंग बॉल और

कार्बन-ग्रेफाइट सॉलिड लुब्रिकेंट का उदाहरण दिया। डा. हिरानी ने हिन्दी के महत्व को बताते हुए कहा कि भाईचारा और एकता की भावना को बढ़ावा देने में मदद मिलेगी। मुख्य अतिथि एवी कमलाकर ने प्रो. डा. हरीश हिरानी, निदेशक, सीएसआईआर-सीएमईआरआई, दुर्गापुर के लिए इस क्षेत्र में हिन्दी में पहली बार ऐसी शानदार तकनीकी संगोष्ठी करने की पहल करने के लिए सराहना की। उन्होंने कहा कि सेमिनार विज्ञान और प्रौद्योगिकी के क्षेत्र में राजभाषा के प्रचार में मदद करेंगे। श्री कमलाकर ने सभी से आग्रह किया कि राजभाषा का समर्थन करें, जिससे देश में विज्ञान और प्रौद्योगिकी के नवीनतम रुझानों को प्रभावी ढंग से संप्रेषित करने में मदद मिले।



CSIR-IMMT

9<sup>th</sup> August, 2019

# IMMT conducts skill devt programme

**Bhubaneswar:** The Institute of Minerals and Materials Technology (IMMT) here organised a five-day skill development training programme for its research scholars on 'Basic and Advanced Skills for Water Testing and Analysis' on its campus in Acharya Vihar.

The training programme was organised to impart practical knowledge related to water testing and analysis with advanced instrumental facilities to research scholars and industrial persons. The training programme, which started on August 5, will conclude on Friday. TNN

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Times of India



CSIR-IMMT

9<sup>th</sup> August, 2019

## जिज्ञासा कार्यक्रम के तहत आईएमएमटी में विद्यार्थी-वैज्ञानिक सम्पर्क कार्यक्रम

भुवनेश्वर. खनिज एवं पदार्थ प्रौद्योगिकी संस्थान, भुवनेश्वर जिज्ञासा कार्यक्रम के तहत विद्यार्थी-वैज्ञानिक सम्पर्क कार्यक्रम के अंतर्गत 5 से 9 अगस्त, 2019 के दौरान एक पाँच दिवसीय कार्यशाला का आयोजन किया गया है. अनुसंधान में कैरियर बनाने के लिए छात्रों को प्रोत्साहित करने के उद्देश्य से इस कार्यक्रम का आयोजन किया जा रहा है. प्रो. शुद्धसत्व बसु, निदेशक, सीएसआईआर- आईएमएमटीने इस कार्यक्रम के पहले दिन का उद्घाटन किया. डॉ उमाकान्त सुबुधि, वरिष्ठ वैज्ञानिक एवं समन्वयक, जिज्ञासा कार्यक्रम, सीएसआईआर-आईएमएमटीने शिक्षकों और छात्रों



का स्वागत किया और कार्यक्रम के बारे में जानकारी दी. प्रो. बसु ने अपने लंबे शैक्षणिक अनुभव को साझा करते हुए प्रतिभागियों को प्रेरित किया और छात्रों के साथ बातचीत की. विद्यार्थी-वैज्ञानिक सम्पर्क कार्यक्रम के इस मंच पर केन्द्रीय विद्यालय - 01, भुवनेश्वर से बारहवीं कक्षा के 108 छात्र अपने छह शिक्षकों के साथ भाग लिया एवं राज्य के सर्वोत्कृष्ट

विश्लेषण सुविधाओं के साथ- साथ वैज्ञानिकों की प्रयोगशालाओं का भी दौरा किया. डॉ. देबी पी दास, डॉ. बिकास के जेना जेना, डॉ. सत्यजित रथ, श्री दीपक नायक और डॉ. उमाकान्त सुबुधि ने अपने संबंधित अनुसंधान प्रयोगशाला में वैज्ञानिक प्रयोगों के सीधे प्रदर्शन द्वारा छात्रों से प्रत्यक्ष रूप से बातचीत की. अनुभवी तकनीकी कर्मचारियों ने एक्सआरएफ,

रमण, एक्सआरडी, एसईएम एवं टीजी-डीएसी के बारे में छात्रों को विस्तार से समझाया जबकि अभियंता संतोष कुमार मिश्र, मुख्य वैज्ञानिक, सीएसआईआर - आईएमएमटी ने भौतिकी की मूलभूत इकाइयों पर एक वैज्ञानिक वार्ता प्रस्तुत किया. इस पाँच दिवसीय कार्यक्रम के दौरान संस्थान में कुल 500 छात्रों के आने की आशा की जाती है.

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# ଆଇଏମଏମଟିରେ ସ୍ୱତନ୍ତ୍ର କାର୍ଯ୍ୟକ୍ରମ ଜିଜ୍ଞାସା ବୈଜ୍ଞାନିକଙ୍କ ସହ ଛାତ୍ରଛାତ୍ରୀଙ୍କ ଭାବ ବିନିମୟ



ବୈଜ୍ଞାନିକମାନଙ୍କ ସହ ଆଇଏମଏମଟିର ଛାତ୍ରଛାତ୍ରୀ, ଶିକ୍ଷକ ଓ ଅଧିକାରୀଗଣ

ଭୁବନେଶ୍ୱର, ୨୮ (ଭୁ.ପ୍ର): ବିଦ୍ୟାଳୟ ଛାତ୍ରଛାତ୍ରୀମାନଙ୍କ ମଧ୍ୟରେ ବିଜ୍ଞାନ ପ୍ରତି ଆଗ୍ରହ ସୃଷ୍ଟି କରିବା ଏବଂ ସେମାନଙ୍କ ମନରେ ଥିବା ଦୃଢ଼ କରିବା ଲକ୍ଷ୍ୟରେ ସିଏସଆଇଆର-ଇନ୍‌ଷ୍ଟିଚ୍ୟୁଟ୍ ଅଫ୍ ମିନେରାଲ୍ ଆଣ୍ଡ ମ୍ୟାଟିରିଆଲ୍ ଟେକ୍ନୋଲୋଜୀ (ଆଇଏମଏମଟି) ପକ୍ଷରୁ ଚଳିତ ମାସ ୫ରୁ ୯ ତାରିଖ ମଧ୍ୟରେ ଆୟୋଜିତ ହେଉଛି ସ୍ୱତନ୍ତ୍ର କାର୍ଯ୍ୟକ୍ରମ ଜିଜ୍ଞାସା ।

ପ୍ରଥମ ଦିନରେ ଆଇଏମଏମଟି ନିର୍ଦ୍ଦେଶକ ପ୍ରଫେସର ସୁଜାସନ୍ତ୍ ବାସୁ ଏହି କାର୍ଯ୍ୟକ୍ରମକୁ ଉଦ୍ଘାଟନ

କରିଥିଲେ । ଏହି ଅବସରରେ ବରିଷ୍ଠ ବୈଜ୍ଞାନିକ ତଥା ଜିଜ୍ଞାସା କାର୍ଯ୍ୟକ୍ରମର ସଂଯୋଜକ ଡ଼ ଉମାକାନ୍ତ ସୁବ୍ରହ୍ମି କାର୍ଯ୍ୟକ୍ରମର ଉଦ୍ଦେଶ୍ୟ ସମ୍ପର୍କରେ ସୂଚନା ଦେଇଥିଲେ । ପ୍ରଥମ ଦିନରେ ଏହି ଛାତ୍ରଛାତ୍ରୀ-ବୈଜ୍ଞାନିକ ଆଲୋଚନା କାର୍ଯ୍ୟକ୍ରମରେ କେନ୍ଦ୍ରୀୟ ବିଦ୍ୟାଳୟ ନଂ-୧ରୁ ଯୁକ୍ତ ୨ର ୧୦୮ ଜଣ ଛାତ୍ରଛାତ୍ରୀ ଏବଂ ସେମାନଙ୍କ ଶିକ୍ଷକ ଶିକ୍ଷୟତ୍ରୀ ଅଂଶଗ୍ରହଣ କରିଥିଲେ ।

ଏହି ଅବସରରେ ଛାତ୍ରଛାତ୍ରୀମାନେ ଆଇଏମଏମଟିର

ଅତ୍ୟାଧୁନିକ ପରୀକ୍ଷାଗାର ବୁଲି ଦେଖିବା ସହ ତାହାର କାର୍ଯ୍ୟକାରୀତା ସମ୍ପର୍କରେ ସୂଚନା ସଂଗ୍ରହ କରିଥିଲେ । ଏହି ଅବସରରେ ଆଇଏମଏମଟିର ବୈଜ୍ଞାନିକ ଡ଼ ଦେବୀ ପ୍ରସାଦ ଦାସ, ଡ଼ ବିକାଶ ଜେନା, ଡ଼ ସତ୍ୟଜିତ ରଥ, ଦୀପକ ନାୟକ ପ୍ରମୁଖ ଛାତ୍ରଛାତ୍ରୀଙ୍କ ପ୍ରଶ୍ନର ଉତ୍ତର ଦେଇଥିଲେ । ମୁଖ୍ୟଯତ୍ରୀ ଡ଼ ସନ୍ତୋଷ କୁମାର ମିଶ୍ର ଭିତ୍ତିନିବନ୍ଧ ଉପସ୍ଥାପନ କରିଥିଲେ । ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ୫୦୦ରୁ ଅଧିକ ଛାତ୍ରଛାତ୍ରୀ ଅଂଶଗ୍ରହଣ କରିଛନ୍ତି ।

## ଶ୍ରମିକ ହାଟ ବୁଲି ଦେଖିଲେ ଶ୍ରମ ସଚିବ

ଭୁବନେଶ୍ୱର, ୨୮ (ନି.ପ୍ର): ଶ୍ରମ ଓ କର୍ମଚାରୀ ରାଜ୍ୟ ବାମା ବିଭାଗର ପ୍ରମୁଖ ଶାସନ ସଚିବ ଅନୁ ଗର୍ଗ ଆଜି ଭୁବନେଶ୍ୱରର ବିଭିନ୍ନ ଶ୍ରମିକ ହାଟ ବୁଲି ଦେଖିଥିଲେ । ଶ୍ରମିକମାନଙ୍କ ସମସ୍ୟା ଏବଂ ସୁବିଧା ଅସୁବିଧା ସମ୍ପର୍କରେ ପଚାରି ବୁଝିଥିଲେ । ଭୁବନେଶ୍ୱରର କଳ୍ପନା ଛକ, ନାବାଡ଼ ବ୍ୟାଙ୍କ, ନୟାପଲ୍ଲୀ, ଡେଲଟା ଛକ ଇତ୍ୟାଦି ସ୍ଥାନରେ ପହଞ୍ଚି ନିର୍ମାଣ ଶ୍ରମିକଙ୍କ ନାମ ନିର୍ମାଣ ଶ୍ରମିକ କଲ୍ୟାଣ ବୋର୍ଡ଼ରେ ପଞ୍ଜିକୃତ କରାଯାଇଛି କି ନା ସେସବୁ ବିଷୟରେ ତନଖି କରିଥିଲେ । ଏଥିସହିତ ନିର୍ମାଣ ଶ୍ରମିକ କଲ୍ୟାଣ ବୋର୍ଡ଼ ତରଫରୁ ସେମାନଙ୍କୁ ପ୍ରଦାନ କରାଯାଉଥିବା ସହାୟତା ରାଶି, ମଜୁରି ଏବଂ ସରକାରଙ୍କଠାରୁ କେଉଁ ସୁବିଧା ଆଶା କରୁଛନ୍ତି ସେ ସମ୍ପର୍କରେ ମଧ୍ୟ ନିର୍ମାଣ ଶ୍ରମିକଙ୍କ ସହିତ ଆଲୋଚନା କରିଥିଲେ । ଏହି ଅବସରରେ ଶ୍ରମ କମିଶନର ନିରଞ୍ଜନ ସାହୁଙ୍କ ସମେତ ବିଭାଗୀୟ ଅଧିକାରୀମାନେ ଉପସ୍ଥିତ ଥିଲେ ।

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## In water purification, one size fit all is not the solution

CSIR



NGT wants the public to be aware on the adverse effect of demineralization of water

Experts working in the field of water quality management have emphasised that there can be no “one size fit all” solution to tackle the problem of water contamination as the nature and extent of pollutions varied across locations. Participating in a panel discussion organised by the Council of Scientific and Industrial Research, the experts stressed the need for proper testing of the quality of the water before taking any step for its purification to ensure selection and adoption of a technology that was most appropriate for the situation. Dr. Pawan Kumar Labhasetwar of Nagpur-based National Environment Engineering Research Institute, made a

9<sup>th</sup> August, 2019

presentation on the recent directive of the National Green Tribunal regulating the use of reverse osmosis (RO) technology for water purification. The green tribunal had asked the central government to ban its use, where the total dissolved solid in the water was less than 500 mg per litres, and ensure that water recovery was more than 60 per cent and the reject water was used for washing cars and other such purposes. In addition, NGT had urged for creating public awareness on the adverse effect of demineralization of water on the users and wanted a mechanism to make local bodies and agencies involved in supply of water regularly generate reports on the quality of water available in their area and display them in public. Prof. T.Pradeep, Institute Professor at Indian Institute of Technology-Madras, stressed the need to promote efforts to develop methods for easier and cost effective measurement of water quality, and generation of potable water from newer sources including humid air. “The world is faced with a crisis of water.



The situation is particularly acute in India as it has access to only four per cent of the world's fresh water resources, even while housing 18 per cent of its population. We need appropriate solutions”.

Speaking about the research being conducted in his laboratory, he said he and his colleagues have developed a technology for removing arsenic from water using nano-materials and it is being used to deliver clean water to 900,000 persons every day. “Research is on in different institutions across the country and abroad. Availability of technologies is not the limitation. There is a need for measures to take them to the market through start-up companies”, he added.

Dr. Swachchha Mazumdar of Kolkata-based Central Glass & Ceramic Research Institute and Dr. Vinod K. Shahi of Central Salt and Marine Chemicals Research Institute, Bhavnagar, spoke about the efforts being made by their institutions to develop a bouquet of water purification solutions based on ultra-violet irradiation, ozonation, gravity filtration and other such technologies.

Setting the discussion rolling, CSIR Director General, Shekhar C.Mande, said CSIR was committed to promote research and development in all aspects of water management considering that water was an essential component in the social and economic development of the country. (India Science Wire)

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CSIR

8<sup>th</sup> August, 2019



**DR. ASHOK K Chauhan and Dr. Shekhar Mande signing MoU**

## **Amity University signs MoU with CSIR for academic and scientific research**

Amity University has joined hands with Council of Scientific & Industrial Research (CSIR) to work together in the areas of academic and scientific research. As a part of the MoU, projects will be undertaken in areas relevant to alternative energy, agriculture and food security, IT & IoT, robotics, water technology, climate change, healthcare, etc. Speaking on the occasion, Dr. Ashok K Chauhan, Founder President, Amity University, emphasized that there should be joint national-level programmes with CSIR in partnership mode addressing national priorities. Dr. Shekhar Mande, Director General, CSIR, said that the MoU will help in improving academic and scientific thinking. Amity University and CSIR will constitute a high-level committee to provide policy directions and monitor the activities covered by the MoU.



## विद्यार्थियों ने ली पीने का पानी बर्बाद नहीं करने की शपथ



भावनगर

फिलहाल विद्यार्थियों के विज्ञान की तरफ आकर्षण के लिए जिज्ञासा नामक प्रोग्राम चलाया जा रहा है। जिसमें इस चौथे ग्रुप द्वारा 6-7 अगस्त को आयोजित किए गए कार्यक्रम में केन्द्रीय विद्यालय नलिया, पोरबंदर, राजकोट, जूनागढ़, दीव,

ध्रांगध्रा, भावनगर से 70 जितने विद्यार्थी, छात्रा तथा 12 शिक्षक उपस्थित रहे। इस प्रोग्राम में विद्यार्थियों को विज्ञान की तरफ आकर्षित किया गया। अपना देश

भले ही तीनों तरफ पानी से घिरा हुआ है परंतु उसमें से पीने लायक पानी सिर्फ 2-3 प्रतिशत है। जिसमें भी अनेक अशुद्धता होने के कारण उसके शुद्धिकरण करने के लिए अलग-अलग प्रयोगों द्वारा पानी किस तरह शुद्ध हो सकता है, पीने का पानी कैसा होना चाहिए, उसमें टीडीएस, टीएसएस, पीएच कितनी मात्रा में

होती है, डब्ल्यूएचओ तथा बीआईएस द्वारा दिए गए पैरामीटर पर खास महत्व दिया गया तथा विद्यार्थियों के मन से यह वहम भी दूर किया गया कि प्रत्येक घर में आरो पद्धति से शुद्ध करके पानी पीना चाहिए क्योंकि बीआईएस द्वारा मिली जानकारी के अनुसार 500 टीडीएस से कम टीडीएस वाले पानी को किसी भी प्रकार के शुद्धिकरण की जरूरत नहीं होती। जिससे आरो से होती पानी की बरबादी भी कम होगी।

सेंट्रल सॉल्ट द्वारा पानी के शुद्धिकरण के लिए एक बस बनाई गई है जिसमें किसी भी खराब पानी का आरओ पद्धति से पीने लायक पानी में रूपांतरण किया जाता है और वह पानी डब्ल्यूएचओ के पैरामीटर

पर खरा उतरता है। इस बस द्वारा हिमालय की सुनामी, ओडिसा तथा केरल में हुई प्राकृतिक आपदाओं में मदद दी गई थी। यह बस एक दिन में 40,000 लीटर पानी देती है जोकि छोटे तथा मध्यम गांवों के लिए अति पर्याप्त है। मुख्यरूप से पानी में किस प्रकार से प्रदूषण होता है जैसे कि सॉलिड वेस्ट, रेडियोलॉजिकल तथा बायोलॉजिकल विषय में गहराई में चर्चा और प्रश्नोत्तरी की गई। जिसके बाद बच्चों को प्रयोगशाला में ले जाकर आरो का प्लान्ट दिखाया गया जिसका लाइव डेमो दिखाकर ऑस्मोटिक प्रेशर और रिवर्स ऑस्मोसिस के विषय में विशेष जानकारी दी गई।

[www.gujaratvaibhav.com](http://www.gujaratvaibhav.com)



# સોલ્ટ ઈન્સ્ટીટ્યૂટમાં 'જિજ્ઞાસા'ના માધ્યમથી વિજ્ઞાન વિશ્વ જરૂરિયાત દરેક સંશોધનની જનની છાત્રો માટે ક્ષમતાનો વિકાસ જરૂરી

ભાવનગર સહિત સૌરાષ્ટ્રના વિદ્યાર્થીઓ ઈન્સ્ટીટ્યૂટની મુલાકાતે



ભાવનગર

જરૂરિયાત એ દરેક સંશોધનની જનની છે. વિજ્ઞાનની શોધો દ્વારા ટેકનોલોજીનો વિકાસ થાય છે અને એ રીતે સામાજિક મુશ્કેલીઓને દૂર કરવાનો ટેકનોલોજી દ્વારા હલ મળે છે. તે બાબતને વિભિન્ન કન્સેપ્ટ સાથે સમજાવવા માટે ભાવનગરની સેન્ટ્રલ સોલ્ટ એન્ડ મરીન કેમિકલ્સ ઈન્સ્ટીટ્યૂટ દ્વારા શાળાના વિદ્યાર્થીઓની વિજ્ઞાન વિષયક જ્ઞાનસભર બનાવવાના હેતુથી 'જિજ્ઞાસા' પ્રોજેક્ટ અમલમાં મૂકવામાં આવ્યો છે. આ જિજ્ઞાસા પ્રોજેક્ટ અંતર્ગત ચોથું ગુપ્તતા. ૬-૭ ઓગસ્ટના રોજ ભાવનગર આવ્યું હતું. આ કાર્યક્રમમાં કેન્દ્રીય વિદ્યાલય નલિયા, પોરબંદર, રાજકોટ, જૂનાગઢ, દીવ, ધાંગપા, ભાવનગરમાંથી ૭૦ વિદ્યાર્થી - વિદ્યાર્થીનીઓ તથા ૧૨ શિક્ષકો હાજર રહ્યા હતા.

આ પ્રોજેક્ટ અંતર્ગત વિદ્યાર્થીઓને કેટલાક સંશોધનથી અવગત કરાયા હતા. છાત્રાલયમાં ભણતા વિદ્યાર્થી માટે દૂધ ગરમ કરવા માટે થતો ઈસ્ત્રીનો પ્રયોગ, ડુંગળી સમારતી વખતે હેલ્મેટ પહેરવાનો પ્રયોગ, કોફી બનાવવા માટે જોઈતી વરાળને કુકરમાંથી બનાવવી આ મુજબ ઈનોવેશનની પ્રક્રિયા આગળ વધે છે. ગાયમાંથી હાઈજિનિક તેમજ પૂરતા પ્રમાણમાં દૂધ કાઢવા માટે એક વેકકયુમ

## મન ગમતા વિષય પર ધ્યાન આપવું કેરિયર માટે જરૂરી

ભવિષ્યમાં જે મહત્વના બદલાવ આવવાના છે જેની હાલમાં પ્રક્રિયા શરૂ છે. જેમકે ડ્રાઈવરલેસ કારનું પરીક્ષણ દુબઈમાં થયું પરંતુ કોઈ કારણોસાર નિષ્ફળ રહ્યું હતું. આ નિષ્ફળતાના કારણ પાછળ વૈજ્ઞાનિકો કામ કરી રહ્યા છે. આર્ટિફિશિયલ ઇન્ટેલિજન્સ, જિનેટિક ડિસઓર્ડર કે જેમાં બાળકને કોઈ ખામી હોય તો માતાના પેટમાં જ તે રોગને ઓળખીને તેનો ઈલાજ થશે. જે નજીકના ભવિષ્યમાં શક્ય બનશે. આ મુજબ ઘણા બધા ક્ષેત્રે આ પ્રકારના વિવિધ ઇનોવેશન થશે. વિદ્યાર્થીઓને કેરીયર ગાર્ડન્સ પણ આપવામાં આવ્યું હતું. કોઈ પણ મનગમતા વિષય પણ વધારે ધ્યાન આપવું તેમજ આગળ જતા વિજ્ઞાન વિભાગમાં ભવિષ્યમાં ખુબ જ નોકરીની તકો ઉભી થવાની છે. આ ભવિષ્યમાં મદદરૂપ થવાના વિષય પર જિજ્ઞાસા પરિયોજના કો-ઓર્ડીનેટર ડો. અંકુર ગોયલ, વિવિધ વૈજ્ઞાનિકો અને પરિયોજના સહાયક કનિષ્ઠ સોલંકીએ મહત્વપૂર્ણ માહિતી આપી હતી.

નદીમાં નાહવા માટે નદીમાં જતા સાબુ ડૂબી જતો હોવાથી આ મુશ્કેલીને હલ કરવા પાણી પર તરતો સાબુ બનાવવામાં આવ્યો કે જે નદીમાં ડૂબતો નથી. આ મુજબ મુશ્કેલીના કારણે જ નવું ઈનોવેશન સર્જાય છે. માટે મુશ્કેલી અને તેનું કઈ રીતે નવીનીકરણ કરવું તેને ઓળખવું જરૂરી છે.

વિજ્ઞાન હાલમાં બધા દેશ માટે અભિન્ન અંગ છે. અત્યારે બધા દેશ માટે વિજ્ઞાનમાં થતો વિકાસ એ દેશની મહત્વતા પ્રસિદ્ધ કરે છે. આ માટે દેશને વિજ્ઞાન તરફ આગળ ધપાવતા દરેક વ્યક્તિ કે જે ભલે વૈજ્ઞાનિક હોય કે કોઈ સામાન્ય વ્યક્તિએ દરરેકે કે જે વિજ્ઞાનને

સાયન્ટિફિક ટેમ્પરામેન્ટ પર સમજાવવામાં આવ્યું હતું. ખાસ કરીને છાત્રોને પ્રથમ તેઓના મનમાં રહેલ વૈજ્ઞાનિકની પ્રતિકૃતિ પારદર્શક કરવામાં આવી હતી. વૈજ્ઞાનિક કે જે કોઈ પ્રયોગશાળામાં સતત પ્રયોગ કરે એજ વૈજ્ઞાનિક છે એમ નથી. આપણાં ઘરમાં પણ એક વૈજ્ઞાનિક છે કે જે પોતાનું કામ વૈજ્ઞાનિક ઢબે કરતા હોય છે. ઘરમાં થતી બધીજ અલગ અલગ ક્રિયાઓમાં વિજ્ઞાનનો સમાવેશ થાય છે માટે માતા પણ એક વૈજ્ઞાનિક છે અને ઘર એ વિજ્ઞાનનું મંદિર છે. આ કાર્યક્રમનો મુખ્ય હેતુ છે, વિદ્યાર્થીઓ પોતાના વર્ગખંડમાંથી બહાર નીકળીને તેઓમાં વિચારવાની

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Sandesh



## NEERI will conduct study of lakes, tanks in six months, BBMP tells court

CSIR-NEERI



**Project proposal has been sent to State government for approval, says BBMP**

The Bruhat Bengaluru Mahanagara Palike on Monday told the High Court of **Karnataka** that the CSIR-National Environmental Engineering Research Institute (NEERI) has submitted a proposal to study all aspects of restoration, maintenance and rejuvenation of lakes and tanks in the city in two phases at a total cost of ₹3.45 crore in a period of six months. In its status report on actions taken for implementing the court's June 18 directions to conduct a study of the city's lakes through NEERI, and remove encroachments of storm-water drains, the BBMP said that

7<sup>th</sup> August, 2019

NEERI has sent a detailed project proposal for carrying out the study in partnership with other CSIR institutes and private parties who have expertise in this area. The BBMP said that NEERI project proposal has been forwarded to the State government for approval. A Division Bench comprising Chief Justice Abhay Shreeniwas Oka and Justice Mohammad Nawaz, describing the amount quoted by NEERI as reasonable, directed the State to take steps for approving the proposal. The court had already directed that NEERI will also have to do the exercise of identifying disappeared lakes and suggest short- and long-term measures for restoration, rejuvenation and maintenance of the lakes.

### **Storm-water drains**

Meanwhile, the BBMP, in its status report pointed out that out of 650 instances of surveys of storm-water drains (SWD) during June and July, 296 cases were treated as non-encroachments, and the remaining 354 were declared as encroachments.



While 201 of 354 encroachments were removed during the period, another 153 encroachments are yet to be removed. In 52 cases, the HC has granted a stay order against removal of encroachments.

After perusing these details, the bench directed the BBMP to take steps to remove 101 encroachments while hoping that the palike would contest the stay order against removal of encroachments.

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CSIR-CBRI

6<sup>th</sup> August, 2019

बहु आपदा प्रतिरोधी निर्माण प्रथाओं पर अरुणाचल के अभियंता होंगे शिक्षित

# सीबीआरआई में पांच दिवसीय कार्यशाला शुरू

## कार्यशाला

- कार्यक्रम समन्वयक एवं वरिष्ठ प्रधान वैज्ञानिक डॉ. आर. धर्मराजू ने अतिथियों और प्रतिभागियों का स्वागत किया और धन्यवाद प्रस्ताव प्रस्तुत किया।



अवधारणाएँ विषय पर तथा डॉ. अजय चौरसिया ने 'भवन अभिकल्पन की बुनियादी अवधारणा और भूकंप के लिए कोडल प्रावधान' विषय पर व्याख्यान प्रस्तुत किये। प्रतिभागियों ने संस्थान की प्रयोगशालाओं का दौरा भी किया।

इसी प्रकार सप्ताह भर में संस्थान के विभिन्न वैज्ञानिकों द्वारा भवनों में आपदा न्यूनीकरण से सम्बंधित विषयों पर व्याख्यान और प्रस्तुतीकरण दिए जायेंगे। साथ ही, प्रतिभागियों के लिए सीबीआरआई की तकनीकों और प्रौद्योगिकियों का जीवंत प्रदर्शन भी प्रस्तुत किया जाएगा। इस अवसर पर डॉ. अजय चौरसिया, शांतनु सरकार, अतुल कुमार अग्रवाल, डी पी कानूनगो, नदीम अहमद, आशीष पिप्पल आदि उपस्थित रहे।

मनोज अग्रवाल

रुड़की (लोकसत्य)। केंद्रीय भवन अनुसंधान संस्थान, रुड़की में सीएसआईआर एकीकृत कौशल पहल के अंतर्गत आज अरुणाचल प्रदेश सरकार के अधिकारियों के लिए "बहु आपदा प्रतिरोधी निर्माण प्रथाओं" विषय पर आयोजित पांच दिवसीय कार्यशाला का शुभारम्भ संस्थान के मुख्य वैज्ञानिक, डॉ. सुवीर सिंह द्वारा किया गया।

कार्यक्रम में अरुणाचल प्रदेश से 35 अभियंता प्रतिभागीता कर रहे हैं।

आयोजित कार्यशाला में अपने अध्यक्षीय सम्बोधन में डॉ. सुवीर सिंह ने बताया कि कार्यक्रम का उद्देश्य प्रतिभागियों को आपदा जोखिम शमन की मूल अवधारणा; बिल्डिंग कोड प्रावधान और कानूनों; विभिन्न नींव, संरचनात्मक डिजाइन और भवन निर्माण विधियों; भूकंप,

भूस्खलन, आग और बाढ़ के लिए बहु-खतरनाक प्रतिरोधी आवास उपायों; भूस्खलन के लिए नियंत्रण उपायों; आदि के विषय में सिखाना है। कार्यक्रम समन्वयक एवं मुख्य वैज्ञानिक एसके नेगी ने कार्यक्रम के बारे में जानकारी दी। कार्यक्रम समन्वयक एवं वरिष्ठ प्रधान वैज्ञानिक डॉ. आर. धर्मराजू ने अतिथियों और प्रतिभागियों का स्वागत किया और

धन्यवाद प्रस्ताव प्रस्तुत किया। इस अवसर पर संस्थान की गतिविधियों को दशान्ति वार्षिक प्रतिवेदन का विमोचन भी किया गया। तकनीकी सत्र के दौरान एसके नेगी ने 'आपदा प्रतिरोधी निर्माण में सीएसआईआर-सीबीआरआई का योगदान - एक अवलोकन' विषय पर; डॉ. आर. धर्मराजू ने 'आपदा जोखिम न्यूनीकरण की बुनियादी

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# 'Time to invest in rare earth metals'

Renowned chemist says Cobalt, Lithium are being mined by China in a big way

CITY BUREAU  
HYDERABAD

Renowned chemist, CNR Rao on Monday said the country was not doing enough to exploit the vast rare earth metal reserves which were in huge demand as they were needed to manufacture electronic goods including smartphones.

Delivering the platinum jubilee lecture of Indian Institute of Chemical Technology (IICT) on 'Introduction to the modern Periodic Table', Professor Rao said that rare earth metals such as Cobalt, Lithium were mined by China in a big way in Africa but India was yet to venture into the field.



Professor CNR Rao interacting with students during CSIR - IICT Platinum Jubilee Celebrations on Monday. DG, CSIR, Shekhar C Mande (right) and Director, IICT, S Chandrasekhar (left) also seen.

We have large deposits of rare earth metals in several States but we have not been able to exploit them

— CNR RAO  
RENOWNED CHEMIST

"Cobalt is only available in Congo, Africa and that is why China owns all the mines there. Almost all the mines for other rare earth metals are controlled by China in Africa. We should have taken over in Africa and had our own mines of Cobalt and other rare earth

metals," he said. Rao, who received Bharat Ratna in 2014, said that even Lithium, which was used to manufacture batteries, was in short supply. "At least in this field, we should focus on manufacturing batteries with Sodium, which is in plenty of supply. We need to invest on this technology and I am hopeful that very soon India would be able to produce Sodium batteries," he said.

The Linus Pauling Research Professor in his lecture said United States recently had said it can't supply Helium anymore be-

## Generic drugs for TB

Director General, Council of Scientific and Industrial Research (CSIR), Dr Shekhar C Mande on Monday said that IICT was in the process of developing the generic version of TB drug Bedaquiline. "There are many top life saving drugs that are going off patent in 2023. The generic versions of such drugs are underdevelopment and when the patents on such drugs expire, we have the right to sell the developed generic drugs, which will be available at affordable rates," he said.

cause of shortage. Helium was needed to conduct all kinds of scientific experiments and also was widely used in medical applications

such as Magnetic resonance imaging (MRI).

"Recently, the US declared it will not be able to sell Helium and China fre-

quently issues threat that it won't be able to supply rare earth metals. Quite contrastingly, we have large deposits of rare earth metals in Kerala and other States but we have not been able to exploit them," he said.

Deposits of some of the rare metals such as Yttrium, Zinc, Germanium and Strontium, which were used in dozens of electronic goods, would be exhausted in 50 years. India does not have any deposits of Helium that put us in disadvantage. To tide over it, India must invest in alternatives, he said.

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# Dump lithium batteries, sodium ones best: CNR

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**Hyderabad:** At a time when the Centre is pushing for electric vehicles, which are mostly powered by lithium batteries, eminent scientist and Bharat Ratna CNR Rao has suggested sodium or magnesium batteries to overcome shortage of the metal and not fall into the China trap.

"The real problem is there is no lithium in the world (running out of reserves)," 85-year-old Rao, Linus Pauling Research professor and honorary president of Bengaluru-based Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), said at Indian Institute of Chemical Technology (IICT) platinum jubilee lecture here on Monday.

IICT, one of the oldest national laboratories, had its origins in 'Industrial Laboratory', which was set up by the then Nizam, Mir Osman Ali Khan, in 1920s. "Also, lithium-triggered fires are difficult to put off. A maverick Australian has created a football field-size lithium battery, enough to power a city. Suppose it burns, Australians will never be able to put off the fire. On the other hand, sodium burn is easy to put off," he told TOI, while interacting with students at IICT.

"Sodium battery will be a reality soon," he predicted.

Earlier, delivering the lecture on 'Introduction to the Modern Periodic Table', Prof Rao traced the journey of the periodic table from five (ancient) elements to the present, including the controversial Element 118, Oganesson, peppered with anecdotes from the lives of several greats, including Russian chemist Dmitry Mendeleev, Michael Faraday, G N Le-



Prof CNR Rao and CSIR director-general Shekhar C Mande interact with school students at IICT on Monday

## PLATINUM RUN...

<b>1920s</b>	Nizam govt establishes Industrial Laboratory	<b>1944</b>	Evolves into Central Laboratories for Scientific & Industrial Research (CLSIR)
<b>1942</b>	CSIR is born	<b>1956</b>	CLSIR rechristened Regional Research Laboratory-Hyderabad (RRL-H)
		<b>1989</b>	RRL renamed IICT

wis and Linus Pauling.

Incidentally, 2019 is the 150th anniversary of Mendeleev discovering the periodic system and has been proclaimed the 'International Year of the Periodic Table of Chemical Elements'.

"Everybody has a lithium-cobalt battery. Where are the lithium reserves? Lithium comes from just one factory. The only place where cobalt is available is Congo... China has taken over Congo. Chinese have unbelievable foresight. Half of Africa is controlled by them (China) because of this kind of consideration. We (India) should have our own mines of cobalt," he said.

He also said helium would become scarce soon and even recalled how it was discovered by Julius Janssen during a solar

eclipse in Guntur in Andhra Pradesh.

Prof Rao, Council of Scientific and Industrial Research (CSIR) director-general Shekhar C Mande and IICT director S Chandrasekhar felicitated past directors of the national laboratory on the occasion.

Later, interacting with the media, Prof Rao said China has become the biggest supplier of rare earths. "India should also tap the natural source available in Kerala," he said.

To a query whether he foresaw any changes to the periodic table, Rao, a world-renowned authority on solid state and structural chemistry, said: "They are as perfect as Ramayan and Mahabharata."

Ending his briefing, he said in a lighter vein, "We (chemists) live with poison... live forever."

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## आईआईसीटी में प्लैटिनम जुबली समारोह आयोजित



हैदराबाद, 5 अगस्त-(मिलाप ब्यूरो)  
भारत सरकार के विज्ञान एवं प्रौद्योगिकी

मंत्रालय के तहत आने वाले  
सीएसआईआर-इंडिया इंस्टीट्यूट ऑफ

केमिकल टेक्नोलॉजी, (आईआईसीटी) हैदराबाद में आज हीरक जयंती (प्लैटिनम जुबली) समारोह आयोजित किया गया। अवसर पर मुख्य अतिथि के रूप में भारत रत्न प्रो. सी.एन.आर. राव तथा सीएसआईआर के महानिदेशक डॉ. शेखर सी. मांडे उपस्थित थे।

75 वर्षों के गौरवशाली अस्तित्व के दौरान आईआईसीटी ने राष्ट्र के ग्रामीण और शहरी क्षेत्र के लोगों को रासायन एवं रासायनिक तकनीकी में वैज्ञानिक विकास के माध्यम से उनके हृदय को छुआ। वर्तमान में संस्थान के निदेशक डॉ. एस. चंद्रशेखर के मार्गदर्शन में भारत सरकार के विभिन्न प्रौद्योगिकी कार्यक्रम, जिसमें स्वास्थ्य रक्षा, कृषि, ऊर्जा, वेस्ट टू वेल्थ आदि कार्यक्रमों पर ध्यान केंद्रित किया जा रहा है। हाल ही में संस्थान द्वारा फार्मा किलोलैब का उद्घाटन किया गया, जिससे समाज को विभिन्न प्रकार के रोगों की जानकारी और निवारण में सहायता मिलेगी। आईआईसीटी द्वारा

तेलंगाना सरकार के सहयोग से कई लाख फेरोमनी ट्रैप्स का किसानों में वितरण किया गया। गत 20 जुलाई को हैदराबाद स्वास्थ्य एवं परिवार कल्याण, एस एवं टी और ईएस की यात्रा के दौरान केंद्रीय मंत्री डॉ. हर्षवर्धन द्वारा पायलेट प्लांट कॉम्प्लेक्स में एग्रो कैमिकल के लिए अप कमिंग सुविधा की आधाशीला रखी गई। इसके अलावा आईआईसीटी द्वारा जमीन और सतह के पानी के शुद्धिकरण के लिए कई तकनीकों का विकास भी किया गया। भारत रत्न प्रो. सी.एन.आर. राव ने रासायनिक स्पेक्ट्रोस्कोपी, आणवित संरचना तथा रासायन विज्ञान, उच्च तापमान, अति चालकता में महत्वपूर्ण योगदान दिया है। उन्होंने अपने संबोधन में आधुनिक आवर्त सारणी का परिचय दिया। उन्होंने बताया कि वर्तमान वर्ष 'इंटरनेशनल इयर ऑफ दि पिरियोडिक टेबल ऑफ एलिमेंट्स' के रूप में मनाया जा रहा है। डॉ. शेखर एस. मांडे ने अपने विचार व्यक्त किए।

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CSIR-IICT

5<sup>th</sup> August, 2019

ప్రాఫెసర్ సీఎన్ రావును సన్మానిస్తున్న ఐఐసీటీ డైరెక్టర్ డాక్టర్ చంద్రశేఖర్, సీఎస్ఐఆర్ జనరల్ డైరెక్టర్ డాక్టర్ శేఖర్ మండే

## ఆవిష్కరణలకు శ్రీకారం చుట్టాలి

- విద్యార్థుల్లో పరిశోధనాసక్తిని పెంపొందించాలి
- ఐఐసీటీ ప్లాటినం జూబ్లీ వేడుకల్లో భారతరత్న సీఎన్నార్ రావు

**హైదరాబాద్, నమస్తే తెలంగాణ/ఆర్కాక:** నూతన ఆవిష్కరణలకు శ్రీకారం చుట్టాలని, విద్యార్థుల్లో చిన్నతనం నుంచే పరిశోధనపై ఆసక్తిని పెంపొందించాలని భారతరత్న, ప్రాఫెసర్ సీఎన్నార్ రావు పేర్కొన్నారు. మానవాళి అభ్యున్నతికి పరిశోధనలను వేగవంతం చేయాలని కోరారు. శ్రమను ఆయుధంగా మలుచుకుంటే విజయాలు వెంట వస్తాయని విద్యార్థులకు సూచించారు. సోమవారం ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ కెమికల్ టెక్నాలజీ (ఐఐసీటీ)

ప్లాటినం జూబ్లీ వేడుకలకు ఆయన ముఖ్య అతిథిగా హాజరయ్యారు. 'ఆధునిక ఆవర్తన పట్టిక పరిచయం' అనే అంశంపై మాట్లాడుతూ మూలకాల ఆవర్తన పట్టికను ఆవిష్కరించి 150 ఏండ్లు పూర్తయిన నేపథ్యంలో దాని ప్రత్యేకతను వివరించారు. సిల్వర్ జూబ్లీ వేడుకలు జరుపుకుంటున్న సీఎస్ఐఆర్-ఐఐసీటీ ఎన్నో ఆవిష్కరణలకు కేంద్రంగా నిలిచిందని ప్రశంసించారు. జంతుసంరక్షణ, పంటపొలాలు, ఇతర పారిశ్రామికరంగాల్లో నూతన వస్తువుల తయారీలో మరిన్ని మార్పులు జరుగాలని.. అప్పుడే ప్రజలకు తక్కువ ఖర్చులతో వస్తువులు లభ్యమవుతాయని చెప్పారు. భారత్ లో అత్యాధునికమైన పరిశోధనలు జరగుతున్నాయని చెప్పారు. కార్యక్రమంలో సీఎస్ఐఆర్ డీజీ డాక్టర్ శేఖర్ సీ మండే, ఐఐసీటీ డైరెక్టర్ ఎస్ చంద్రశేఖర్ పాల్గొన్నారు.

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**एनएमएल** के वैज्ञानिकों को 20 साल रिसर्च के बाद सफलता

# एर्मोफस इलेक्ट्रिकल स्टील रिबन से रुकेगा बिजली लॉस

वरीय संवाददाता ▷ जमशेदपुर

देश में बिजली उत्पादन का बड़ा हिस्सा बरबाद हो जाता है. तकनीकी कारणों की वजह से ट्रांसफॉर्मर से घर तक पहुंचने के क्रम में बिजली लॉस होता है. लेकिन अब ऐसा नहीं होगा. अब एर्मोफस इलेक्ट्रिकल स्टील रिबन की मदद से बिजली की क्षति रोकी जा सकेगी. एनएमएल ( राष्ट्रीय धातुकर्म प्रयोगशाला ) के वैज्ञानिकों ने करीब 20 साल के रिसर्च के बाद एर्मोफस इलेक्ट्रिकल स्टील रिबन तैयार किया है, जिसे लैबोरेटरी टेस्ट में न सिर्फ पास कर दिया गया है. पहले चरण में इसका उत्पादन भी किया गया है. पायलट प्लांट लगाने की योजना है. एर्मोफस इलेक्ट्रिकल स्टील रिबन के उत्पादन की टेक्नोलॉजी तैयार करने में एनएमएल के चीफ साइंटिस्ट डॉ अमिताभ मित्रा, प्रिंसिपल साइंटिस्ट डॉ आशीष कुमार पांडा, सीनियर साइंटिस्ट डॉ रजत कुमार रॉय और साइंटिस्ट प्रेम कुमार ने भूमिका निभायी.

**तकनीक विकसित करने के बाद पहली बार 25 मिमी रिबन का उत्पादन, बढ़ाकर 100 मिमी करने की योजना**



## यह भी जानें

एर्मोफस इलेक्ट्रिकल स्टील रिबन माइग्नेटिक मटीरियल है. इसका लो मेल्टिंग प्वाइंट ( तापमान का वह स्तर, जिसमें कोई वस्तु पिघलनी शुरू होती है ) 1200 डिग्री सेंटीग्रेड है. लोहा व फिरोसिलिकन, फोरोबोरोन धातु को गला कर एलॉय तैयार किया जाता है. रैपिड सॉलिफिकेशन के जरिये टंडा किया जाता है. इसका उपयोग ट्रांसफॉर्मर में बिजली लॉस दूर करने में होता है.

## चीन, जापान व जर्मनी पर नहीं रहना होगा निर्भर

भारत में रिबन का उत्पादन नहीं होने से चीन, जर्मनी व जापान जैसे देशों से इसका आयात किया जाता रहा है. केंद्र ने राष्ट्रीय धातुकर्म प्रयोगशाला को एर्मोफस इलेक्ट्रिकल स्टील रिबन तकनीक विकसित करने का सुझाव दिया था. इसके बाद एनएमएल ने इस प्रोजेक्ट की जिम्मेदारी संभाली. पहली बार 25 मिमी रिबन का उत्पादन किया गया है. इसे बढ़ा कर 100 मिमी तक करने की योजना है. इसी वजह से पायलट प्लांट स्थापित करने का प्रयास किया जा रहा है. डॉ आशीष पांडा ने प्रभात खबर से बात करते हुए बताया, एनएमएल के लैब में जो एर्मोफस इलेक्ट्रिकल स्टील रिबन तैयार किया गया है, उसकी प्रॉपर्टी भी काफी अच्छी है.

**Published in:**

Prabhat Khabar



CSIR-NML

4<sup>th</sup> August, 2019



एनएमएल आवासीय कॉलोनी में शनिवार को आयोजित सावन महोत्सव में शामिल महिलाएं।

## एनएमएल आवासीय कॉलोनी में मनाया सावन महोत्सव

**जागरण संवाददाता, जमशेदपुर :** एनएमएल आवासीय कॉलोनी की महिलाओं की ओर से शनिवार को सावन महोत्सव का आयोजन किया गया। महोत्सव में शामिल होने के लिए हरे रंग का ड्रेसकोड निर्धारित किया गया था। इस ड्रेसकोड में बड़ी संख्या में महिलाओं ने भाग लिया और अलग तरह का आकर्षण दिखा। महोत्सव के दौरान एक ओर जहां महिलाओं ने स्वयं तैयार किए गए व्यंजनों का स्टॉल लगाया वहीं विभिन्न प्रकार की कला व हस्तशिल्प की प्रदर्शनी के माध्यम से कॉलोनीवासियों

को प्रभावित किया। सभी आगंतुकों ने व्यंजन का आनंद उठाया तो प्रदर्शनी की कलाकृतियों की तारीफ करने से नहीं चूके। कार्यक्रम में मुख्य अतिथि के रूप में एनएमएल के निदेशक की पत्नी देवस्ती चट्टोराज ने आयोजन की खूब प्रशंसा की और महिलाओं के प्रयास को सराहा। उन्होंने आगे भी इस तरह के आयोजन पर बल दिया। इसमें एनएमएल आवासीय कॉलोनी की डॉ. वीणा कुमारी, नीतू, भावना झा, दीप्ति, कृष्णा, बिरसा, ललिता, सुनिता, अर्पणा, विदिशा की अहम भूमिका रही।

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## IIT Jodhpur signs MoU with CSIR for technology development, scientific research

CSIR

3<sup>rd</sup> August, 2019

Jodhpur (Rajasthan), Aug 2 The Indian Institute of Technology Jodhpur signed an MoU with the Council of Scientific and Industrial Research (CSIR) on Friday for the development of technology and scientific research. The memorandum of understanding (MoU), which was signed during the decennial foundation ceremony of IIT Jodhpur, will focus on technology development and translation, exchange of academia information and material, human resource development and infrastructure sharing.

CSIR DG Shekhar C Mande, who was the chief guest of the ceremony, underlined the role of technology in social development and stressed the need for consistent work in identification and resolution of social problems in order to make the life of the people comfortable. IIT Jodhpur Director Santanu Chaudhury said the institution now offers 44 degree programmes and has attained the enrolment strength of 1,472 students this year with 97 permanent faculties. "Faculty members of IIT Jodhpur have achieved significant research outcomes in the areas of water treatment, cancer therapy, neuro-sciences and organic devices in collaboration with AIIMS," Chaudhury said.

The institution has now been focusing on more flexible academic mechanism, wherein the focus will be accorded to churning out students who are not job seeker but job provider by focusing on exploration, imagination, creation and innovation.

"We want our students to pursue any curricular activity for self expression and creation. We also want them to develop sensitivity towards the issues of food, water and environment by injecting design thinking in them," he said.

**Published in:**

[Outlook](#)



CSIR-CBRI

3<sup>rd</sup> August, 2019

# पीसी रे की वर्षगांठ पर कार्यक्रम आयोजित

**डॉ अतुल अग्रवाल ने कहा, विज्ञान में करियर की असीम संभावनाएं हैं**

उत्तर भारत लाइव ब्यूरो

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रुड़की। जिज्ञासा विद्यार्थी-वैज्ञानिक संयोजन कार्यक्रम के तहत केंद्रीय भवन अनुसंधान संस्थान, रुड़की के वैज्ञानिकों ने केंद्रीय विद्यालय न. 1, में जागरूकता कार्यक्रम का आयोजन किया। कार्यक्रम के दौरान सीबीआरआई के वैज्ञानिकों ने कक्षाओं में जाकर विद्यार्थियों से वार्तालाप किया और एक शिक्षक की भांति उन्हें विज्ञान के तथ्यों और विज्ञान के विभिन्न विषयों में किए जा रहे नवीनतम कार्यों व तकनीकियों के बारे में जानकारी प्रदान की।

डॉ अतुल कुमार अग्रवाल, वरिष्ठ प्रधान वैज्ञानिक एवं जिज्ञासा कार्यक्रम संयोजक ने आचार्य सर प्रफुल्ल चंद्र रे के जन्म की 158 वीं वर्षगांठ के अवसर पर विद्यार्थियों को रसायन विज्ञान के क्षेत्र में उनके योगदान से परिचित कराकर प्रेरित



किया। उन्होंने बताया कि भारत की पहली दवा कंपनी, बंगाल केमिकल्स एंड फार्मास्यूटिकल्स के संस्थापक आचार्य सर प्रफुल्ल चंद्र रे भारत में रासायनिक विज्ञान के जनक के नाम से जाने जाते हैं। एक महान वैज्ञानिक के साथ ही वे एक महान गुरु भी थे जिन्होंने मत्येन्ट नाथ बोस, मेघनाद

साहा, ज्ञानेंद्र नाथ मुखर्जी और ज्ञान चंद्र घोष जैसे भारत के महान वैज्ञानिकों का मार्गदर्शन भी किया था।

विद्यार्थियों से वार्तालाप करते हुए, डॉ अतुल कुमार अग्रवाल ने विज्ञान में आजीविका के अवसर विषय पर व्याख्यान प्रस्तुत करते हुए

विद्यार्थियों को विज्ञान, वाणिज्य, कला, समाजशास्त्र, मानविकी, चिकित्सा, इंजीनियरिंग आदि सभी क्षेत्रों में करियर के विषय में जानकारी प्रदान की और उन्हें अपने पसंद के विषय को चुनने तथा उसी में अपना करियर बनाने और पूरी निष्ठा और जनन के साथ उसमें कार्य

करने की सलाह दी। डॉ. अग्रवाल ने विद्यार्थियों को सीएसआईआर और सीबीआरआई के गौरवशाली इतिहास और उपलब्धियों के विषय में बताया। उन्होंने कहा कि वनस्पति से वांतरिक्ष तक, भवन निर्माण से भू-विज्ञान तक, स्वास्थ्य, रसायन, ऊर्जा आदि जीवन के हर पहलु, हर क्षेत्र के उद्धान में सीएसआईआर ने अपना योगदान दिया है।

इसी दिशा में जीवन के तीन मूलभूत आवश्यकताओं में से एक आवास के क्षेत्र में सीबीआरआई नित नवीन तकनीकों का विकास करने में अग्रसर है। इसके साथ इससे पूर्व केंद्रीय विद्यालय न. 1, रुड़की के प्रधानाचार्य विपिन त्यागी ने विद्यार्थियों को सम्बोधित करते हुए उन्हें सीबीआरआई के वैज्ञानिकों के साथ खुलकर वार्तालाप करने और अपने संशयों को दूर करने हेतु उचित प्रश्न पूछने के लिए प्रोत्साहित किया।

इस अवसर पर विद्यालय के लगभग 100 विद्यार्थियों ने अपने शिक्षकों श्रीमती अंजु सिंह, श्री प्रवेश त्यागी के संग प्रतिभागिता की तथा अपने संशयों को दूर किया।

**Published in:**

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## Hyderabad: International conference held at IICT

CSIR -IICT

2<sup>nd</sup> August, 2019

**Hyderabad:** A two day international conference on 'Advances in Catalysis: Industrial Outlook' (ACIO- 2019) was inaugurated on Thursday at Indian Institute of Chemical Technology (IICT).

Director CSIR-IICT, Dr S Chandrasekhar presided over the inaugural function of the conference which was attended by over 200 delegates from across the country. Head of the Catalysis and Fine Chemicals, IICT, Dr Pravin Likhar said the conference was organised to provide a platform to discuss and deliberate on scientific innovations in the area of catalysis and their practical industrial applications which have relevance in society and work on sustainable development.

Keynote lecture was addressed by Dr Ajit Sapre, group president of Reliance Industries, where he stressed the need of catalytic technologies in meeting the future energy challenges. Prominent speakers from India and international speakers from Germany, Japan, Australia and South Korea will be sharing their important innovations during this conference. Dr N Lingaiah, convener of the conference, presented concluding remarks, the press release added.

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[Telangana Today](#)



## Pact to bring entrepreneurial opportunities signed at varsity

### CSIR-AMPRI



CSIR-(Council of Scientific and Industrial Research)—AMPRI (Advanced Materials and Processes Research Institute), Bhopal, and Lovely Professional University (LPU) signed an MoU to bring entrepreneurial opportunities for LPU students. Using AMPRI technologies, students will be apprised of how to make wealth from the waste. The MoU has been signed to undertake joint 'Research and Academics' pursuits in various areas related to nation-building. CSIR-AMPRI's Director Dr A K Srivastava and Registrar, LPU, Dr Monica Gulati signed the MoU on behalf of their respective institutions. CSIR-AMPRI is one of the best institutes known for its

1<sup>st</sup> August, 2019 cutting-edge R and D knowledge base in diverse 'Science and Technology' areas. The MoU will promote LPU scientists, PhD scholars and the students of different streams to work with the institutes and enhance their industrial entrepreneurship skills. Apprising of the latest research and development endeavours at CSIR, Dr Srivastava informed that at present works are also going on for hybrid composites from fibres and waste particulates.

In order to save the trees and environment; he suggested the usage of waste materials with properties, much better than 'teak-wood', bamboo wood and more. He informed that newly researched products have long-standing, great thermal resistance and are also produced without any useless by-products. Principal Dr Asokan informed that hybrid composites are future generation's stronger and sustainable green materials with lot of recycling opportunities. Informing about more than 50 types of solid and liquid wastes, he advised to work for



“Clean India”, become innovative entrepreneur, earn and create jobs for many other people also. Dr Asokan also talked about ‘Sisal Plant Fibres’ which have potential for employment and income generation. In fact, Sisal (*Agave sisalana*) is a hard fibre extracted from the leaves of sisal plants.

LPU Chancellor Ashok Mittal said the MoU will enable students to get the benefits from the expertise and guidance of eminent scientists of AMPRI. He advised agriculture department of the university to grow Sisal plants in area under its control.

Prior to MoU, CSIR-AMPRI’s four-member team led by Director Dr Srivastava, including Senior Principal Scientists Dr Asokan P, Dr SKS Rathore; and Principal Technical Officer Dr Edward Peters had held important collaborative discussions with Executive an Senior Deans, and HoDs, including Dr Sanjay Modi, Dr Lovi Raj Gupta, and Chief Engineer Atul Singla.

**Published in:**  
[The Tribune](#)



CSIR-IICT

1<sup>st</sup> August, 2019

# IICT director gets award at Niper



Indian Institute of Chemical Technology, Hyderabad, director S Chandrasekhar received AstraZeneca Research Endowment Award

**Mohali:** S Chandrasekhar, director at the Indian Institute of Chemical Technology, Hyderabad, received the AstraZeneca Research Endowment Award for the year 2018 during a ceremony at National Institute of pharmaceutical Education and Research (NIPER) on Wednesday. The award is bestowed upon eminent researchers who work in the field of neglected

and communicable diseases.

Chandrasekhar also inaugurated the new academic session at the institute. A total of 268 students have joined NIPER in the session 2019-20. He spoke on 'Molecules that Changed Life' also discussing about targeted therapy. He also talked about old and new drug compounds which have proved to be the 'wonder molecules'. TNN

**Published in:**  
Times of India



CSIR-CDRI

1<sup>st</sup> August, 2019

## CDRI takes part in health awareness programme

PIONEER NEWS SERVICE ■ LUCKNOW

Central Drug Research Institute stepped out to Fakharpur village in Bahraich to participate in the outreach and health awareness programme for women.

The health awareness programme has been taken up in Bahraich under the Aspirational Districts Programme of NITI Aayog launched by the Prime Minister in January.

CDRI senior scientist Sanjeev Yadav said the aspirational districts programme aimed at quickly and effectively transforming the selected districts.

"The government is committed to raising the living standards of its citizens and ensuring inclusive growth for all. To enable optimum utilisation of their potential, this programme focuses closely on improving the ability of people to participate in the burgeoning economy," he said.

The CDRI senior scientist said health and nutrition, education, agriculture and water resources, financial inclusion, skill development, and basic infrastructure were the core focus areas of this programme.

Bahraich district figures in the bottom 20 districts with composite rank 96 out of 101 districts.

To fulfil the scientific social responsibility (SSR) of the institute, CDRI regularly organises health awareness programmes in villages on different disease areas related to health as per its mandate.

"This time, CDRI, Lucknow stepped out 140 kilometres to Bahraich to contribute in the Aspirational Districts Programme. A health awareness programme and

free health check-up camp was organised at Fakharpur in Bahraich in association with CARE India to sensitise the villagers on health, education and cleanliness," Dr Yadav said.

A nine-member team led by Dr Yadav and including Sharad Sharma, Ritu Trivedi, PR Mishra and research scholars Ashish K Tripathi, Divya Rai, Priya Gupta, Geeta Dhaniya and Shahzad Jalal went to Fakharpur village and interacted with the villagers so spread health awareness and offered free health check-up.

Programme manager, Girls Education, Care India, UP, Vandana Mishra and her team arranged the interaction with villagers. More than 120 villagers participated in the programme.

"The CDRI team received overwhelming response from the villagers. The objective of the programme was to spread awareness among the villagers about the menstrual hygiene and bone health," Mishra said

During the programme Dr Yadav explained the objectives of the programme and activities of CDRI while Dr Trivedi discussed the causes, symptoms and basic precautions for prevention of bone health disorders like osteoporosis and arthritis. She also discussed in detail about menstrual hygiene and its related complications.

Dr Mishra talked about importance of healthy food and causes and consequences of anaemia. Dr Sharad Sharma provided the free medical consultancy to villagers and asked those ill to contact their nearest community/primary health centre (CHC/PHC) or government hospital.

**Published in:**

The Pioneer



CSIR-CDRI

1<sup>st</sup> August, 2019

## 'माहवारी के दौरान स्वच्छता पर दें खास ध्यान'



■ **एनबीटी, लखनऊ** : सीएसआईआर-सेंट्रल ड्रग रिसर्च इंस्टिट्यूट (सीडीआरआई) के वैज्ञानिकों ने बुधवार को बहराइच जिले के फकरपुर गांव जाकर महिलाओं को माहवारी स्वच्छता और अस्थि स्वास्थ्य के बारे में जानकारी दी। इस मौके पर फ्री हेल्थ चेकअप किया गया। सीडीआरआई के वैज्ञानिक संजीव यादव ने बताया कि नीति आयोग की आकांक्षी जिलों में कार्यक्रम योजना के तहत चयनित 101 जिलों में से संस्थान ने बहराइच जिले में स्वास्थ्य जागरूकता कार्यक्रम का आयोजन किया। जिला बहराइच की गिनती सबसे पिछड़े 20 जिलों में होती है, जिसकी कंपोजिट रैंकिंग चयनित 101 जिलों में से 96वीं है। यह कैंप केयर इंडिया के सहयोग से आयोजित किया गया। कैंप में डॉक्टर और वैज्ञानिकों की नौ सदस्यीय टीम ने महिलाओं को माहवारी स्वच्छता के टिप्स दिए।

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