

CSIR in Media



News Bulletin

CSIR help for cyclone Fani victims



Science as saviour

19th May, 2019



Tackling the recent cyclone Fani has brought many laurels to the country and some valuable lessons. The robust demonstration of science and technology (S&T) behind all aspects of preparedness, and consequent administrative action to save people and property, has indeed been highly laudable. This has also brought our abilities to deal with natural calamities into sharp focus in the international arena. The accurate prediction of cyclonic storm, mapping its trajectory and predicting the likely affected areas with high accuracy have been possible through painstaking collection of meteorological data and its computational modelling.

Another important aspect of mitigating effects of a cyclonic storm is to facilitate and achieve the ability of mass movement of people to safer areas at a short notice. Typically, safer areas are made up of buildings or shelters, which are resistant to high winds, storm surges and rains and where the velocity of swirling winds gradually diminishes. Floods that accompany cyclonic storms in coastal areas are usually responsible for the majority loss of human lives. It is apparent that design of the shelter buildings should be such that they not only withstand high winds, but also storm surges and flooding. CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, pioneered the design of multi-purpose cyclone shelter in 1996-97. In the past, lack of appropriately designed buildings had been one of the factors causing high casualties. CSIR-SERC partnered with the Indian Red Cross Society to deploy the cyclone-resistant shelters across Odisha.

It is estimated that these shelters have saved lives of lakhs of people during cyclone Phailin in 2013, and recently during cyclone Fani. The “cyclone shelters”, designed by CSIR-SERC, are typically constructed on stilts keeping in view the floods accompanying the cyclonic storms. The buildings are rectangular structures, but rounded at the corners (aerodynamically shaped) with a view to achieving a smooth air flow (with reduced vortices) and thus enabling the buildings to withstand the intensity of the gusty winds. Moreover, the rooftops are also rounded, with upwards curving. Finally, the design of the buildings is tested in one of the most significant steps, which is to carry out the design in an Atmospheric Boundary Layer Wind Tunnel. The wind tunnel is a highly specialised facility available in only a few places in the country such as CSIR-SERC, Chennai, and IIT-Kanpur etc. It provides an opportunity to test a model building in simulated atmospheric wind flow conditions, where the model is subjected to various wind speeds, and many different parameters are monitored in order to estimate as well as minimise the wind-induced loading. These results also form the basis of developing guidelines for wind load evaluation to be adopted in the Indian Codes of Practice. Research has played a key role in saving lives of millions of people in cyclone Fani. All the scientific fraternity of the country—university researchers, IITs, IISc, India Meteorological Department and the national laboratories such as the CSIR—deserve applause. It is correctly said that scientific discoveries are made anywhere around the globe, but technological advances are made for the local needs. Challenges remain in other areas of tackling natural calamities, but considering the strength of scientific community in India across CSIR laboratories, universities and other academic institutions, and the creative technological solutions that they are capable of evolving, there is no doubt that these challenges will be handled effectively in future.

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[The New Indian Express](#)

CSIR labs played a key role during Cyclone Fani: DG

CSIR

20th May, 2019



‘It was a war-like situation and our labs helped in disaster management’

It was not just the Union Ministry of Earth Sciences and the Indian Meteorological Department (IMD) which played a key role in tackling the recent Cyclone Fani which hit Odisha, but several labs of the Council of Scientific and Industrial Research (CSIR) too pegged in. “The cyclone was very devastating and apart from predictions, and where it would hit, these were done fantastically. But, what do you do before and after it hits? This is where our institutions played a key role which has been missed by many,” said CSIR Director General Shekhar C. Mande on Friday.

It begins with vulnerable sections shifted to 200 sturdy cyclone shelters built by the CSIR’s Structural Engineering Research Centre (SERC) in Chennai and implemented by the Indian Red Cross which could house up to 4,000 people at a time and keep them safe.

After the cyclone passed, it left behind a trail of death and destruction and there were many people seeking potable water and food. Here too, the CSIR institutions contributed their mite. “The mobile water purification bus developed by Bhavnagar-based Central Salt and Marine Chemicals Research Institute (CSMCRI) housing a water purification and desalination system generating 4,000 litres per hour moved into all the affected villages,” he said. The water purification vehicle could purify any kind of contaminated water, including silt-laden left by floods, and brackish water along coastal areas to make it potable by removing viruses and bacteria, explained Mr. Mande.

Similarly, the Central Food Technological Research Institute (CFTRI), Mysuru, and the Institute of Himalayan Bioresource Technology (IHBT) too joined the relief and rehabilitation efforts in supplying lakhs of food packets which could be stable for some time.

“It was a war-like situation and our labs helped in disaster management,” added Dr. Mande.

Published in:
[The Hindu](#)

CSIR-IHBT

13th May, 2019

Scientists prepare 20 tonnes of food, energy bars for cyclone Fani victims

TNN | May 13, 2019, 12.51 PM IST



DHARAMSHALA: Scientists in Himachal Pradesh at CSIR-Institute of Himalayan Bio-resource Technology (CSIR-IHBT), Palampur near here are going to supply one lakh units of ready to eat canned food and high energy and protein bars of 20 tonnes for distribution to the victims of Cyclone Fani hit areas in Odisha.

Dr Sanjay Kumar, Director of CSIR-IHBT, informed that institute has technologies for preparation of ready to eat foods of global standards and in such tragic circumstances it is the duty of national institutes to come forward and support the affected population with their need based technologies and products.

He further stated that similar support of ready to eat food products was extended to the victims of during Kerala floods in August 2018.

"One lot of the energy bars and food canes has been dispatched to the affected areas, other will be sent by this week" added Kumar.

The institute as part of R&D program has developed technologies for commercial production of several ready to eat traditional food products and functional foods targeting malnutrition and life-style related disorders such as energy bars, high protein drink mixes, Spirulina and Shiitake based food and value added Tea products, crispy fruits and many others that are commercialized and available for interested entrepreneurs.

The severe cyclonic storm named Cyclone Fani had recently made a landfall impact on May 3, 2019 in coastal areas of Odisha and around one million people have been evacuated there.

Published in:
[Times of India](https://timesofindia.indiatimes.com)

IMMT brings its expertise to help Fani victims

Sandeep Mishra | TNN

Bhubaneswar: The research and development institutions under Council of Scientific Industrial Research (CSIR), New Delhi, has come forward to help the people living in Cyclone Fani-hit areas with its technological products and expertise while CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar, got the job of coordinating the relief work here.

The products include a consignment of 15 tonnes of ready to eat and instant food items produced by the Central Food Technological Research Institute (CSIR-CFTRI), Mysore. Of these, 2.5 tonnes (around 85 boxes) of ready to eat packets have been handed over to



The mobile water purification unit at work in Kakatpur, Puri district

the Konark Notified Area Council on May 7. The officials said it could be distributed to around 2,500 families in the cyclone-affected areas in and around Konark.

About 2 tonnes of food packets were handed over to

the block development officer (BDO) of Satyabadi in Puri on May 8 for around 2,000 families. The CSIR-CFTRI has despatched 11 tonnes of ready to eat food packets, which will arrive here soon.

Besides, a mobile water pu-

rification unit — a water bus by the Central Salt and Marine Chemicals Research Institute (CSIR-CSMCRI) Bhavnagar, Gujarat, — has been sent to Kakatpur in Puri to provide RO grade purified drinking water from surface water resources. The water bus, using an indigenous membrane technology, could transform 4,000 litres of brackish water and 1,000 litres of seawater into potable drinking water in an hour.

"The unit is completely self-sustainable and does not require any external power for its functioning. The complete system runs on the power generated by the vehicle itself, which is coupled with a generator transmitting power to run the unit. The water bus has been stationed at Kakat-

pur for the supply of drinking water," said IMMT Director Suddhaswata Basu.

He said more than 2,000 villagers living across 10 to 12 villages around Kakatpur area were given safe drinking water. "The rural water supply and sanitation bodies have co-ordinated with the CSIR-CSMCRI and CSIR-IMMT teams for the successful distribution of potable water to the affected people," the director said.

IMMT officials told **TOI** that the CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, will send 1,00,000 cans (425 gram each) of ready to eat meals while IMMT itself will despatch 500 Terafil Water Filters.

Meanwhile, the scientists at IMMT has developed a user friendly green technology — TERAFIL — for the purification of both surface and ground water at minimal cost. It can be used exclusively for removal of excess iron, turbidity and bacteriological contamination through filtration in an easy and affordable way.

Sources said two other CSIR institutes — Structural Engineering Research Centre in Chennai and Central Building Research Institute in Roorkhee — have also come forward to provide technological know-how for constructing cyclone resistant buildings and tower structures as well as deploy units for mass evacuation during disasters like flood and cyclone.

CSIR-IMMT

12th May, 2019

‘ପଣି’ ବିପନ୍ନଙ୍କୁ ବିଶୁଦ୍ଧ ଜଳ ଯୋଗାଉଛି ଅତ୍ୟାଧୁନିକ ଜଳ ବିଶୋଧନ ଗାଡ଼ି



ଭୁବନେଶ୍ୱର, ୧୧/୫ (ଭୁ ପ୍ର): ପଣି ବାତ୍ୟାର ତାଣ୍ଡବ ପରେ ପାଣିତଳ ନିକଟରେ ଆଧୁନିକ ଜ୍ଞାନକୌଶଳ ସହିତ ପହଞ୍ଚିଛି ଭାରତୀୟ ପଦାର୍ଥ ବିଜ୍ଞାନ ଅନୁଷ୍ଠାନ (ଆଇଏମ୍‌ଏମ୍‌ଟି) । ବାତ୍ୟା ପରେ ବିଶୁଦ୍ଧ ପାନୀୟ ଜଳ ପାଇବା ପାଇଁ ଲୋକଙ୍କ ମଧ୍ୟରେ ରୋଷ ଦେଖା ଦେଉଥିବା ବେଳେ ଏହି ସମୟରେ ଆଇଏମ୍‌ଏମ୍‌ଟି ଦ୍ୱାରା ନିର୍ମିତ ଅତ୍ୟାଧୁନିକ ଭ୍ରମ୍ୟମାଣ ଜଳ ବିଶୋଧନ ଗାଡ଼ି ବାତ୍ୟା ପ୍ରଭାବିତ ଲୋକଙ୍କର ଏହି ଆବଶ୍ୟକତା ପୂରଣ କରୁଛି । ପୋଖରୀ ଗାଡ଼ିଆ ଭଳି ମଇଳା ପାଣିକୁ ସମ୍ପୂର୍ଣ୍ଣ ସଫା କରି

ବୈଜ୍ଞାନିକଙ୍କ କହିବା ଅନୁସାରେ ଏହି ଭ୍ରମ୍ୟମାଣ ବିଶୋଧନାଗାର ନଦୀ, ନାଳ, ପୋଖରୀ, ଗାଡ଼ିଆ ସମେତ ସମ୍ପୂର୍ଣ୍ଣ ଭାବେ ମଇଳା ପାଣିକୁ ବୈଜ୍ଞାନିକ ପଦ୍ଧତିରେ ସଫା କରି ପାରୁଛି । ଗାଡ଼ିରେ ଲାଗିଥିବା ମେସିନ୍ ଚାଲିବା ପାଇଁ ଏହା ନିଜସ୍ୱ ଶକ୍ତି ବ୍ୟବହାର କରିଥାଏ । ତେଣୁ ଯେକୌଣସି ସ୍ଥାନରେ ଏହା କାମ କରି ପାରିବ । ଏଥିରେ ମଇଳା, ଜୀବାଣୁ ସମେତ କ୍ଷାରୀୟତା ଦୂର କରାଯାଇ ପାରୁଛି ବୋଲି ସେ କହିଛନ୍ତି । ସେହିପରି ଆଇଏମ୍‌ଏମ୍‌ଟି ବାତ୍ୟା ବିପର୍ଯ୍ୟୟ ପାଇଁ ଯୋଗାଇ ଥିବା ଖାଦ୍ୟ ବି ଆଧୁନିକ ଉପାୟରେ ପ୍ରସ୍ତୁତ ହୋଇଛି ।

ପାଳମପୁରରୁ ଆସୁଛି ୧ଲକ୍ଷ ପ୍ୟାକେଟ୍ ସ୍ୱତନ୍ତ୍ର ଖାଦ୍ୟ

ପାରିବ । ଅପରପକ୍ଷେ ଆଇଏସ୍‌ବିଟି ପାଳମପୁରରୁ ଏକ ଲକ୍ଷ ଖାଦ୍ୟ ପ୍ୟାକେଟ୍ ଆସି ପହଞ୍ଚିବାର ଅଛି ।

ନୂଆଦିଲ୍ଲୀ ସ୍ଥିତ ବୈଜ୍ଞାନିକ ଏବଂ ଔଦ୍ୟୋଗିକ ଅନୁସନ୍ଧାନ (ସିଏସ୍‌ଆଇଆର) ଦ୍ୱାରା ପରିଚାଳିତ ଏମ୍‌ଏମ୍‌ଟି ପକ୍ଷରୁ ବାତ୍ୟା ପ୍ରପାତିତଙ୍କ ପାଇଁ ସହାୟତା ପ୍ରଦାନ କରାଯାଉଛି । ତେବେ ସବୁଠାରୁ ଉପାଦେୟ ହୋଇଛି ଜଳ ବିଶୋଧନ ଗାଡ଼ି । ଗୁଜରାଟର ଭାବନଗରସ୍ଥିତ ସିଏସ୍‌ଏମ୍‌ସିଆରଆଇ ପକ୍ଷରୁ ସମ୍ପୂର୍ଣ୍ଣ ଭାବେ ସ୍ୱଦେଶୀ ଜ୍ଞାନକୌଶଳରେ ନିର୍ମିତ ଏହି ବିଶୋଧନ ଗାଡ଼ି ଘଣ୍ଟା ପ୍ରତି ୩ ରୁ ୪ ହଜାର ଲିଟର ପାଣି ସଫା କରି ପାରୁଛି । ଏହି ଗାଡ଼ି ପ୍ରଥମେ କାକଟପୁର ଓ ବର୍ତ୍ତମାନ ସତ୍ୟବାଦୀ ଅଞ୍ଚଳରେ ଲୋକଙ୍କୁ ପାନୀୟ ଜଳ ଯୋଗାଣ କରୁଛି । ଏହାର ଜଣେ

ମହାଶୂର ସ୍ଥିତ ସେଣ୍ଟ୍ରାଲ ପୁଡ଼ ଟେକ୍ନୋଲୋଜିକାଲ ରିସର୍ଚ୍ଚ ଇନ୍‌ଷ୍ଟିଚ୍ୟୁଟ୍ (ସିଏସ୍‌ଟିଆରଆଇ)ର ପରୀକ୍ଷାଗାରରେ ସ୍ୱତନ୍ତ୍ର ଭାବେ ପ୍ରସ୍ତୁତ ହୋଇଥିବା ଖାଦ୍ୟ ପୁଡ଼ିଆରେ ଚପାତି, ପୋହା, ଉପମା ରହିଛି । ଏପରି ପ୍ରାୟ ୫୦ ହଜାର ପ୍ୟାକେଟ୍ ବଣ୍ଟନ କରାଯାଇ ଥିବା ବେଳେ ଆଇଏସ୍‌ବିଟି, ପାଳମପୁରରୁ ଆଉ ଏକ ଲକ୍ଷ ଖାଦ୍ୟ ପ୍ୟାକେଟ୍ ଆସି ଦୁଇଦିନ ଭିତରେ ପହଞ୍ଚିବ । ଆଇଏମ୍‌ଏମ୍‌ଟି କର୍ତ୍ତୃପକ୍ଷଙ୍କ କହିବା ଅନୁସାରେ ପାଳମପୁରରୁ ଆସୁଥିବା ପ୍ୟାକେଟ୍‌ରେ ଭାତ, ଡାଲି, ତରକାରୀ ରହିଛି, ଯାହା ଅନେକ ଦିନ ପର୍ଯ୍ୟନ୍ତ ସଂରକ୍ଷିତ ହୋଇ ରହି ପାରିବ । ଏହାକୁ ଦୂରନ୍ତ ଭୋଜନ କରାଯାଇ ପାରିବ । ଆଇଏମ୍‌ଏମ୍‌ଟି, ଭୁବନେଶ୍ୱର ନିର୍ଦ୍ଦେଶକ ପ୍ରଫେର ସୁଜାସନ୍ ବାସୁଙ୍କ ପ୍ରତ୍ୟକ୍ଷ ତତ୍ତ୍ୱାବଧାନରେ ରିଲିଫ୍ କାର୍ଯ୍ୟ ପରିଚାଳିତ ହେଉଛି ।

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Swaraj

CSIR-IHBT

11th May, 2019

Palampur institute to supply canned food to Fani-hit

OUR CORRESPONDENT

PALAMPUR, MAY 10

For supporting the victims of cyclone Fani in Odisha, the CSIR Institute of Himalayan Bio-resource Technology, Palampur, is in the process of supplying 1 lakh units of ready-to-eat canned food (dal rice aloo mix) and protein bars weighing around 20 tonnes.

The institute is preparing these foods, which would be dispatched to the affected areas by this weekend. "There is a need to prepare nutritious and ready-to-eat food products for such people," Dr Sanjay Kumar, director of the institute, said.

"The institute has technologies for preparing such foods and in such tragic circumstances, it is the duty of national institutes to come forward and support the affected people. Support was extended to the victims during Kerala floods too," he added. The institute is known for its research in various areas such as agro-technology, bio-technology, natural product chemistry, food & nutraceutical technology and high-altitude biology. It has developed technologies for the commercial production of several ready-to-eat traditional food products.

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Tribune

CSIR-SERC, CBRI

11th May, 2019

‘फनी’ तूफान : सी.एस.आई.आर. की प्रौद्योगिकी से बची हजारों की जान

नई दिल्ली, 10 मई (एजेंसियां): वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद (सी.एस.आई.आर.) की 2 प्रयोगशालाओं की प्रौद्योगिकियों से ओडिशा तथा आंध्र प्रदेश में गत दिनों आए ‘फनी’ तूफान समेत पिछले 10 सालों में आए कई चक्रवाती तूफानों में हजारों लोगों की जान बचाई जा सकी है।

सी.एस.आई.आर. के महानिदेशक शेखर सी. मांडे ने बताया कि वर्ष 1977 और 1999 में



ओडिशा में आए चक्रवाती तूफानों में तकरीबन 10-10 हजार लोग काल के शिकार हो गए थे लेकिन पिछले कुछ समय में आए तूफानों में यह संख्या 20-30 या कभी-कभी इससे भी कम रही है। इसमें सी.एस.आई.आर. की प्रयोगशालाओं की भवन निर्माण प्रौद्योगिकियों का काफी योगदान रहा है।

उन्होंने बताया कि स्ट्रक्चरल इंजीनियरिंग रिसर्च सेंटर, चेन्नई और सेंट्रल बिल्डिंग रिसर्च इंस्टीच्यूट, रुड़की ने भवन निर्माण की जो तकनीकें विकसित की हैं उनके आधार पर करीब 10 साल पहले भुवनेश्वर में मॉडल बिल्डिंग बनाई गई थी। ओडिशा में सी.एस.आई.आर. ने उस समय 75 ऐसे भवन बनाए थे जो तूफान से पूरी तरह सुरक्षित हैं।

‘फनी’ से जगन्नाथ और कोणार्क मंदिर के ढांचे हुए क्षतिग्रस्त

ओडिशा में गत दिनों आए भयंकर तूफान ‘फनी’ से पुरी का ऐतिहासिक जगन्नाथ मंदिर और कोणार्क मंदिर भी प्रभावित हुए हैं और उनके ढांचे क्षतिग्रस्त हुए हैं। राज्य के मुख्यमंत्री नवीन पटनायक ने इन मंदिरों के क्षतिग्रस्त होने की खबर मिलने पर केन्द्रीय संस्कृति मंत्री महेश शर्मा का ध्यान इस ओर आकर्षित किया है।

उन्होंने शर्मा से अनुरोध किया है कि केंद्र सरकार इसके लिए एक उच्च स्तरीय दल भेजकर मंदिरों के नुकसान का आकलन करे और इसके पुनरुद्धार की कार्यवाई करे। पटनायक ने पुरी की रथयात्रा शुरू होने के मद्देनजर इन दोनों प्राचीन मंदिरों की देखभाल और मरम्मत कार्य को चुस्त-दुरुस्त करने के लिए विशेष दिलचस्पी लेनी शुरू की है।

इस प्रौद्योगिकी का इस्तेमाल करते हुए ओडिशा के तटीय इलाकों में बड़े पैमाने पर पिरामिड ढांचे की छत वाले भवनों का निर्माण किया गया है जिससे अब वहां चक्रवाती तूफानों में घरों और लोगों की जान का नुकसान बेहद कम होता है। आंध्र प्रदेश में भी इस तरह के मॉडल भवन बनाए गए हैं।

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जानकारी
कल पहली खेप भेजी जाएगी, आइएचबीटी के विशेषज्ञों की देखरेख में बन रही खिचड़ी

पालमपुर में तैयार हो रही ओडिशा के लिए खिचड़ी

जागरण संवाददाता, पालमपुर : ओडिशा के चक्रवाती तूफान प्रभावित जनता के लिए पालमपुर में खिचड़ी तैयार हो रही है। हिमालय जैवसंपदा प्रौद्योगिकी संस्थान में विशेष तौर अनुभवी विशेषज्ञ इसे बनवा रहे हैं। सोमवार को पहली खेप ओडिशा के लिए रवाना कर दी जाएगी। सामाजिक दायित्व को देखते हुए सीएसआईआर ने ओडिशा की जनता के लिए इसे विशेष तौर पर तैयार करवाया है।

खिचड़ी को विशेष तौर पर डिब्बों में बंद कर उसका कसाइनमेंट बनवाया जा रहा है। पालमपुर के अलावा इसे सीएसआईआर की अन्य लैबों में भी तैयार कर रहे हैं। खिचड़ी में प्रमुख तौर पर चावल, आलू और दाल को डाला गया है। इसके अतिरिक्त खनिजों से युक्त मिनरल बार



हिमालय जैव प्रौद्योगिकी संस्थान पालमपुर में बनाई गई खिचड़ी • जागरण

(चाकलेट) को भी वहां पर भेजा जाएगा। संस्थान के निदेशक

डाक्टर संजय कुमार बताते हैं कि करीबन बीस टन खाद्य सामग्री को ओडिशा भेजा जा रहा है। इस प्रकार की दुखद परिस्थितियों में राष्ट्रीय संस्थानों का दायित्व बनता है कि वे आगे आएँ और अपनी प्रौद्योगिकियों और उत्पादों से समर्थता के अनुरूप प्रभावित जनसमुदाय की सहायता करें। संस्थान में इसे प्रमुखता से तैयार किया जा रहा है। सोमवार को पहली खेप भेजी जाएगी।

केरल भी भेजी थी सामग्री

सीएसआईआर हिमालय जैवसंपदा प्रौद्योगिकी संस्थान पालमपुर ने पूर्व में भी केरल में आई बाढ़ के दौरान भी 2018 अगस्त में डिब्बा बंद भोजन को भिजवाया था। बाढ़ पीड़ितों को व्यापक मदद हुई थी क्योंकि उन्हें एकदम से खाने को सामान मिला था।

सीएसआईआर-आइएचबीटी एक प्रमुख संस्थान है, जो कि कृषि विज्ञान, जैव प्रौद्योगिकी, प्राकृतिक उत्पाद रसायन विज्ञान, खाद्य और न्यूट्रास्यूटिकल प्रौद्योगिकी, उच्च तुंगता जीव विज्ञान जैसे क्षेत्रों में अनुसंधान के लिए विख्यात है। अनुसंधान एवं विकास कार्यक्रम के रूप में संस्थान ने पारंपरिक खाद्य उत्पादों और कुपोषण और जीवन-शैली से संबंधित विकारों को लक्षित करने के लिए कई रेडी-टू-ईट खाद्य पदार्थों की व्यवसायिक उत्पादन के लिए प्रौद्योगिकियां विकसित की हैं, जिनमें एनर्जी बार, उच्च प्रोटीन पेय मिश्रण, स्मिथिलिना और शिटाके आधारित खाद्य और मूल्यवर्धित चाय उत्पाद, क्रिस्पी फ्रूट आदि प्रमुख हैं जो कि इच्छुक उद्यमियों के लिए व्यवसायिक उत्पादन के लिए उपलब्ध हैं।

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ओडिशा : बड़े पैमाने पर पिरामिड ढांचे की छत वाले भवनों का निर्माण सीएसआईआर की प्रौद्योगिकी से बची हजारों की जान

नई दिल्ली, (एजेंसी)। वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद् (सीएसआईआर) की दो प्रयोगशालाओं की प्रौद्योगिकियों से ओडिशा तथा आंध्र प्रदेश में गत दिनों आए फोनी तूफान समेत पिछले 10 साल में आए कई चक्रवाती तूफानों में हजारों लोगों की जान बचाई जा सकी है।

सीएसआईआर के महानिदेशक शेखर सी. मांडे ने बताया कि वर्ष 1977 और 1999 में ओडिशा में आए चक्रवाती तूफानों में तकरीबन दस-दस हजार लोग अकाल काल के शिकार हो गए थे। लेकिन, पिछले कुछ समय में आए तूफानों में यह संख्या 20-30 या कभी-कभी इससे भी कम रहती है। इसमें सीएसआईआर की प्रयोगशालाओं की भवन निर्माण प्रौद्योगिकियों का काफी योगदान रहा है। उन्होंने बताया कि स्ट्रक्चरल इंजीनियरिंग



रिसर्च सेंटर, चेन्नई और सेंट्रल बिल्डिंग रिसर्च इंस्टीट्यूट, रुड़की ने भवन निर्माण की जो तकनीकें विकसित की हैं उनके आधार पर करीब 10 साल पहले भुवनेश्वर में मॉडल बिल्डिंग बनाए गए थे। ओडिशा में सीएसआईआर ने उस समय 75 ऐसे भवन बनाए थे, जो तूफान से पूरी तरह सुरक्षित हैं। इस प्रौद्योगिकी का इस्तेमाल करते हुए ओडिशा के तटीय इलाकों में बड़े पैमाने पर पिरामिड ढांचे की छत वाले भवनों का निर्माण किया गया है, जिससे अब वहां चक्रवाती

पानी साफ करने के लिए भेजा है विशेष वाहन

ओडिशा में पिछले दिनों आए फोनी तूफान से प्रभावित इलाकों में सीएसआईआर ने पानी को साफ करने वाला एक विशेष वाहन भेजा है जो किसी भी प्रकार के पानी को पीने लायक बनाता है। यह वाहन परिषद् की सेंट्रल सॉल्ट एंड मरीन केमिकल्स रिसर्च इंस्टीट्यूट (सीएसएमसीआरआई) द्वारा विकसित पानी साफ करने की प्रौद्योगिकी पर तैयार किया गया है। इसी आधारित रिवर्स ऑस्मोसिस (आरओ) प्रौद्योगिकी पर काम करने वाला यह वाहन एक घंटे में दो हजार लीटर पानी को साफ कर सकता है। खास बात यह है कि इसके लिए बाहर से बिजली आपूर्ति की जरूरत नहीं होती। जब बस का इंजन चल रहा होता है उसी से उत्पन्न बिजली से बस में लगा उपकरण पानी को साफ करता है।

तूफानों में घरों और लोगों की जान का नुकसान बेहद कम होता है। आंध्र प्रदेश में भी इस तरह के मॉडल भवन बनाए गए हैं। बता दें कि एक टनल भी बनाई गई है। यह देश में इमारतों के ढांचों की मजबूती की जांच करने वाला

सबसे अच्छा विंड टनल है। सीएसआईआर की अन्य तकनीकें भी आपदा प्रभावित इलाकों में लोगों के राहत एवं पुनर्वास में मददगार हो रही हैं। तकनीक के माध्यम से लाखों लोगों की जान बची है।

सारे शिविर उच्च तकनीक से लैस

विज्ञान एवं प्रौद्योगिकी मंत्रालय के अधीन काम करने वाले सीएसआईआर के महानिदेशक ने बताया कि ओडिशा में इस समय तूफान से सुरक्षित जिले शिविर बनाए गए हैं उनमें अधिकतर की डिजाइन परिषद् की प्रयोगशालाओं द्वारा विकसित प्रौद्योगिकियों पर आधारित हैं। इस प्रकार परिषद् ने हजारों की संख्या में लोगों की जान बचाने में मदद की है। उन्होंने बताया कि स्ट्रक्चरल इंजीनियरिंग रिसर्च सेंटर, चेन्नई में एक विंड टनल स्थापित किया गया है जिसमें तूफान जैसी स्थिति पैदा कर किसी ढांचे की मजबूती परखी जाती है।

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आईएमएमटी की ओर से तूफान प्रभावित इलाकों में राहत वितरण

भुवनेश्वर. आईएमएमटी की ओर से चक्रवाती तूफान में प्रभावित इलाकों में राहत सामग्री बांटी गई. नईदिल्ली स्थित वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद (सीएसआईआर) द्वारा गुरुवार को पुरी, कोणार्क, काकटपुर, सत्यवादी इलाके के विभिन्न जगहों पर राहत सामग्री का वितरण किया गया. महीसुर स्थित सीएसआईआर-सीएफटीआरआई द्वारा लोगों के लिए आवश्यक सामान भेजा गया. उसीप्रकार भावनगर स्थित सीएसआईआर-सीएसएमसीआरआई संस्थान की ओर से काकटपुर



इलाके में सहायता प्रदान की गई है. निर्देशक प्रोफिसर एस.बासु ने सभी सीएसआईआर-आईएमएमटी के कार्य का परिचालन किया.

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ଆଇଏମଏମଟିର ରିଲିଫ ବସ୍ତୁନ



• ଭୁବନେଶ୍ୱର, ପିଏନଏସ:

ନୂଆଦିଲ୍ଲୀସ୍ଥିତ ବୈଜ୍ଞାନିକ ଏବଂ ଔଦ୍ୟୋଗିକ ଅନୁସନ୍ଧାନ ପରିଷଦ (ସିଏସଆଇଆର) ଦ୍ୱାରା ବିକଶିତ ଖାଦ୍ୟ ପଦାର୍ଥ ତଥା ପାନୀୟ ଜଳଯୋଗାଣକାରୀ ମୋବାଇଲ ଡ୍ରାଟର ବସ ପୁରୀ ଜିଲ୍ଲାର କୋଣାର୍କ, କାକଟପୁର ଏବଂ ସତ୍ୟବାଦୀ ଅଞ୍ଚଳର ବିଭିନ୍ନ ସ୍ଥାନକୁ ରିଲିଫ ବସ୍ତୁନ କାର୍ଯ୍ୟ ନିମନ୍ତେ ପଠାଯାଇଅଛି । ମହାଶୂର ସ୍ଥିତ ସିଏସଆଇଆର-ସିଏଫ ଟିଆରଆଇ ଦ୍ୱାରା ବିକଶିତ

ଏବଂ ପ୍ରସ୍ତୁତ ୪.୫ ଟନ ପ୍ୟାକେଟ ତତ୍କାଳୀନ ବ୍ୟବହାର ଉପଯୋଗୀ ଖାଦ୍ୟ ପଦାର୍ଥ ପଠାଯାଇଅଛି । ଭାବନଗର ସ୍ଥିତ ସିଏସଆଇଆର-ସିଏସଏମସିଆରଆଇ ସଂସ୍ଥାନ ଦ୍ୱାରା ବିକଶିତ ମୋବାଇଲ ଡ୍ରାଟର ବସ କାକଟପୁର ଅଞ୍ଚଳକୁ ତତ୍କାଳ ପାନୀୟ ଜଳ ଯୋଗାଣ ନିମନ୍ତେ ପଠାଯାଇଅଛି । ଏହି କାର୍ଯ୍ୟକୁ ସିଏସଆର ନିମନ୍ତେ ପଠାଯାଇଅଛି । ଏହି କାର୍ଯ୍ୟକୁ ସିଏସଆଇଆର-ଆଇଏମଏମଟିର ନିର୍ଦ୍ଦେଶକ ପ୍ରଫେସର ଏସ. ବସୁ

ତଦାରଖ କରୁଛନ୍ତି ଏବଂ ଗତ ୮ ତାରିଖରେ ଶୁଭାରମ୍ଭ କରିଛନ୍ତି । ଆଗକୁ ସିଏସଆଇଆର-ସିଏଫ ଟିଆରଆଇ ଦ୍ୱାରା ପ୍ରସ୍ତୁତ ୧୧ ଟାରିଖରେ ଖାଦ୍ୟପଦାର୍ଥ ଫର୍ମରେ କ୍ଷୟକ୍ଷତି ଲୋକମାନଙ୍କୁ ବଣ୍ଟନ ନିମନ୍ତେ ଆସୁଅଛି । ସିଏସଆଇଆର-ଆଇଏମଟିର ପଦ୍ମପୁର ମଧ୍ୟ ଏକ ଲକ୍ଷ କଏନ ପ୍ରାଥମିକ ମିଲ ପଠାଉଛନ୍ତି । ଆଇଏମଏମଟି ଦ୍ୱାରା ବିକଶିତ ୫୦୦ ଟେରାଫିଲ ଡ୍ରାଟର ଫିଲଟର ମଧ୍ୟ ଲୋକମାନଙ୍କ ପାନୀୟ ଜଳ ନିମନ୍ତେ ବଣ୍ଟନ କରାଯିବ ।

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[Pragati Vadi](#)

CSIR-IHBT

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सीएसआईआर आईएचबीटी ने भेजी फानी चक्रवात पीड़ितों को 20 टन रेडी टू ईट खाद्य सामग्री

पालमपुर, (मनोज रत्न)। सीएसआईआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान पालमपुर अभी हाल ही ओडिशा में चक्रवात फानी प्रभावित क्षेत्रों के पीड़ितों के लिए एक लाख यूनिट डिब्बाबंद भोजन दाल, चावल, आलू, मिक्स खाने के लिए एकदम तैयार टिन रेडी टू ईट खाद्य उत्पाद तथा ऊर्जा एवं प्रोटीन युक्त बार की आपूर्ति करने जा रहा है। संस्थान इन खाद्य पदार्थों को भेजने के लिए तैयार कर रहा है जिनका कुल भार 20 टन है तथा जिन्हें इस सप्ताह के अंत तक प्रभावित क्षेत्रों में भेज दिया जाएगा। चक्रवात फानी नाम के भयंकर चक्रवाती तूफान ने हाल ही में 3 मई को ओडिशा तटीय क्षेत्रों को व्यापक स्तर पर प्रभावित किया था और लगभग 10 लाख लोगों को वहां से सुरक्षित निकाला गया था। इसलिए ऐसे विस्थापित लोगों के लिए पौष्टिक और रेडी टू ईट खाद्य पदार्थों की तत्काल आवश्यकता है। सीएसआईआर-आईएचबीटी के



निदेशक डॉ. संजय कुमार ने बताया कि संस्थान के पास वैश्विक मानकों पर आधारित रेडी टू ईट खाद्य पदार्थ तैयार करने की तकनीक है और इस प्रकार की दुखद परिस्थितियों में राष्ट्रीय संस्थानों का दायित्व बनता है कि वे आगे आएँ और अपनी प्रौद्योगिकियों और उत्पादों से अपनी समर्थता के अनुरूप प्रभावित जनसमुदाय की सहायता करें। उन्होंने यह भी कहा कि अगस्त 2018 में केरल में बाढ़ के दौरान भी संस्थान ने रेडी टू ईट खाद्य उत्पादों को भेजकर वहां के बाढ़ पीड़ितों की सहायता की थी। यह उल्लेखनीय है कि सीएसआईआर-आईएचबीटी एक प्रमुख संस्थान है जो कि कृषि विज्ञान, जैव प्रौद्योगिकी, प्राकृतिक

उत्पाद रसायन विज्ञान, खाद्य और न्यूट्रिशनल प्रौद्योगिकी, उच्च गुणवत्ता जीव विज्ञान जैसे क्षेत्रों में अनुसंधान के लिए विख्यात है। अनुसंधान एवं विकास कार्यक्रम के रूप में संस्थान ने पारंपरिक खाद्य उत्पादों और कुपोषण और जीवनशैली से संबंधित विकारों को लक्षित करने के लिए कई रेडी टू ईट खाद्य पदार्थों की व्यवसायिक उत्पादन के लिए प्रौद्योगिकियाँ विकसित की हैं, जिनमें एनर्जी बार, उच्च प्रोटीन पेय मिश्रण, स्फुरितना और शिटाके आधारित खाद्य और मूल्यवर्धित चाय उत्पाद, त्रिस्पी, फ्रूट आदि प्रमुख हैं जो कि इच्छुक उद्यमियों के लिए व्यवसायिक उत्पादन के लिए उपलब्ध हैं।

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Fani: CSIR-IHBT prepares ready-to-eat food

CSIR-IHBT

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As Fani cyclone-hit Odisha struggles with one of the worst tragedies the State has seen so far, a CSIR lab Institute of Himalayan Bio-resource Technology (IHBT) in Palampur is all set to do its bit by providing hygienically prepared nutritious “ready-to-eat food” to the affected families.

Said Dr. Sanjay Kumar, Director of CSIR-IHBT, “our institute is in the process of supplying one lakh units of ready to eat canned food (Dal ChawalAloo mix) and high energy and protein bars, total weighing around 20 tonnes for distribution.”

The ready to eat foods will be dispatched to the affected areas by this weekend. Dr Sanjay Kumar further informed that the institute has technologies for preparation of ready to eat foods of global standards and in such tragic circumstances it is the duty of national institutes to come forward and support the affected population with their need based technologies and products.

He further stated that similar support of ready to eat food products was extended to the victims of during Kerala floods in August 2018. It’s almost five days the severe cyclonic storm had made a landfall impact on May 3, 2019 in coastal areas of Odisha, and around one million people have been evacuated there. “Therefore, there is urgent need for hygienically prepared nutritious and ready to eat foods for such people,” said Kumar.

The CSIR-IHBT is a premier institute known for its state of art research in various areas such as agrotechnology, biotechnology, natural product chemistry, food & nutraceutical technology, high altitude biology.

The institute as part of R&D program has developed technologies for commercial production of several ready to eat traditional food products and functional foods targeting malnutrition and life-style related disorders such as energy bars, high protein drink mixes, Spirulina and Shiitake based food and value added Tea products,crispy fruits etc that are commercialized and available for interested entrepreneurs.

Talking about the technology, the scientist said that the products are prepared using a special manufacturing process that retainstraditional taste and flavor “The prepared products are preserved by sealing them hermetically in tin cans followed by thermal processing to attain longer shelf life,” he said.

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[The Pioneer](#)

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9th May, 2019

मदद

चक्रवात प्रभावितों को आईएचबीटी पालमपुर भेजेगा 20 टन रेडी-टू-ईट खाद्य सामग्री, दाल-चावल-आलू मिक्स और पौष्टिक बार

ओडिशा के पीड़ितों को हिमाचल से जाएगा भोजन

जयदीप रिहान – पालमपुर

ओडिशा में आए चक्रवात से प्रभावित लोगों के लिए हिमालय जैवसंपदा प्रौद्योगिकी संस्थान ने मदद के हाथ बढ़ाए हैं। पालमपुर स्थित आईएचबीटी संस्थान (इंस्टीच्यूट ऑफ हिमालयन बायोरिसोर्स टेक्नोलॉजी) फोनी चक्रवात प्रभावित क्षेत्रों में पीड़ितों के लिए 20 टन रेडी-टू-ईट डिब्बाबंद भोजन तैयार कर रहा है। इसमें दाल-चावल-आलू मिक्स उत्पाद की एक लाख यूनिट तथा प्रोटीनयुक्त बार शामिल है।



संस्थान इन पदार्थों को तैयार कर रहा है और इसी सप्ताह यह सामग्री वहां स्थित सीएसआईआर संस्थान को भेज दी जाएगी। गौर रहे कि फोनी

चक्रवात ने तीन मई को ओडिशा के अनेक तटीय क्षेत्रों को बुरी तरह प्रभावित किया था व करीब दस लाख लोगों को वहां से सुरक्षित निकाला गया

है। ऐसे में विस्थापितों के लिए पौष्टिक और रेडी-टू-ईट पदार्थों को तैयार करने की तत्काल आवश्यकता है। अनुसंधान और विकास कार्यक्रम के रूप में पालमपुर स्थित आईएचबीटी संस्थान ने पारंपरिक खाद्य उत्पादों और कुपोषण तथा जीवन शैली से संबंधित विकारों को लक्षित करने के लिए अनेक रेडी-टू-ईट खाद्य पदार्थों के व्यावसायिक उत्पादन हेतु प्रौद्योगिकियां विकसित की गई हैं, जिसमें एनर्जी बार, उच्च प्रोटीन पेय मिश्रण, स्फिरुलिना और शिटाके आधारित खाद्य और मूल्यवर्धित चाय उत्पाद

प्रमुख हैं। इससे पूर्व अगस्त, 2018 में केरल बाढ़ त्रासदी के दौरान भी आईएचबीटी संस्थान ने रेडी-टू-ईट खाद्य उत्पाद भेज कर मदद की थी। डा. संजय कुमार, निदेशक, आईएचबीटी ने बताया कि संस्थान के पास वैश्विक मानकों के रेडी-टू-ईट खाद्य पदार्थ तैयार करने की तकनीक है। इस प्रकार की दुखद परिस्थितियों में राष्ट्रीय संस्थानों का दायित्व बनता है कि वे आगे आएँ और अपनी प्रौद्योगिकियों व उत्पादों से अपनी समर्था के अनुसार प्रभावित जनसमुदाय की सहायता करें।

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Divya Himachal

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सीएसआईआर चक्रवात पीड़ितों को भेजेगा डिब्बा बंद भोजन

पालमपुर (कांगड़ा)। सीएसआईआर-आईएचबीटी पालमपुर ने ओडिशा में चक्रवात फैनी प्रभावित क्षेत्रों के पीड़ितों के लिए एक लाख यूनिट डिब्बाबंद भोजन, दाल, चावल, आलू मिक्स खाने के लिए एकदम तैयार टिन रेडी टू ईट खाद्य उत्पाद तथा ऊर्जा एवं प्रोटीन युक्त की आपूर्ति करेगा। संस्थान इन खाद्य पदार्थों को भेजने के लिए तैयार कर रहा है। इनका कुल भार 20 टन है। इन्हें इस सप्ताह के आखिर में प्रभावित क्षेत्रों में भेज दिया जाएगा। आईएचबीटी के निदेशक डॉ. संजय कुमार ने बताया कि संस्थान के पास वैश्विक मानकों पर आधारित रेडी टू ईट खाद्य पदार्थ तैयार करने की तकनीक है और ऐसी दुखद परिस्थितियों में राष्ट्रीय संस्थानों का दायित्व बनता है कि वे आगे आएँ और अपनी प्रौद्योगिकी और उत्पादों से अपनी समर्थता के अनुरूप प्रभावित जनसमुदाय की सहायता करें। अगस्त 2018 में केरल में बाढ़ के दौरान भी संस्थान ने रेडी टू ईट खाद्य उत्पादों को भेजकर वहाँ के बाढ़ पीड़ितों की सहायता की थी। ब्यूरो

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Amar Ujala

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सीएसआईआर चक्रवात पीड़ितों को भेजेगा खाद्या

पालमपुर। सीएसआईआर आईएचबीटी पालमपुर ने ओडिशा में चक्रवात फैली प्रभावित क्षेत्रों के पीड़ितों के लिए एक लाख यूनिट डिब्बा बंद भोजन, दाल, चावल, तैयार टिन रेडी टू ईट खाद्य उत्पाद तथा ऊर्जा एवं प्रोटीन युक्त बार की आपूर्ति करेगा। संस्थान इन खाद्य प्रदार्थों को भेजने के लिए तैयार कर रहा है। जिनका कुल भार 20 टन है तथा जिन्हें इस सप्ताह के आखिर में प्रभावित क्षेत्रों में भेज दिया जाएगा। आईएचबीटी के निदेशक डा. संजय कुमार ने बताया कि संस्थान के पास वैश्विक मानकों पर आधारित रेडी टू ईट खाद्य पदार्थ तैयार करने की तकनीक है और इस प्रकार की दुखद परिस्थितियों में राष्ट्रीय संस्थानों का दायित्व बनता है कि वे आगे आएँ और अपनी प्रौद्योगिकियों और उत्पादों से अपनी समर्थता के अनुरूप प्रभावित जनसमुदाय की सहायता करें।

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Himanchal Dastak

CSIR-IHBT

8th May, 2019

फैनी से प्रभावित लोगों को मिलेगा रैडी टू ईट दाल- चावल-आलू मिक्स

पालमपुर, 8 मई (भृगु): ओडिशा में फैनी चक्रवात से प्रभावित लोगों के लिए डिब्बाबंद दाल-चावल-आलू मिक्स खाना भेजा जाएगा। यही नहीं पोषक तत्वों से परिपूर्ण इस खाने के साथ प्रोटीनयुक्त बार की भी आपूर्ति की जाएगी। रैडी टू ईट खाद्य पदार्थों की तकनीक विकसित कर चुके हिमालय जैव संपदा प्रौद्योगिकी संस्थान ने ओडिशा भेजने के लिए ये डिब्बाबंद खाद्य पदार्थ विशेष रूप से तैयार किए हैं। संस्थान 1 लाख डिब्बाबंद यूनिट भेजने जा रहा है। कुल 20 टन भार के ये खाद्य पदार्थ इस सप्ताह के अंत तक प्रभावित क्षेत्रों में भेज दिए जाएंगे। आई.एच.बी.टी. के निदेशक डा. संजय कुमार ने कहा कि इस प्रकार की दुखद परिस्थितियों में राष्ट्रीय संस्थानों का दायित्व बनता है कि वे आगे आएँ और अपनी प्रौद्योगिकी और उत्पादों से समर्थता के अनुरूप प्रभावित लोगों की सहायता करें।

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CSIR-CSMCRI

8th May, 2019

CSIR special bus to help make water potable in Fani hit Odisha

New Delhi, May 7 (UNI) Council of Scientific and Industrial Research's special bus will help provide safe drinking water to the cyclone affected people of Odisha.

CSIR Director-General Shekhar C Mande told UNI that safe drinking water becomes a major problem after a place gets affected by something like a cyclone and therefore CSIR's bus which has a water filtration unit will help provide potable drinking water by purifying it. It is available in the area with a capacity of treating 2000 litres of water per hour.

Mr Mande said that the speciality of the bus was that it does not need any external power source as the bus engine powers the purifier.

This will be very useful in the area as the power supply has also taken a hit pertaining to the damage done by the cyclone.

Mr Mande said that the bus is based on the technology developed by by the CSIR's Central Salt and Marine Chemicals Research Institute that specialises in membranes.

Reverse osmosis

He said that the bus will reach the affected areas by Wednesday and commence its operation going across affected villages so that potable water can be provided to people.

this bus can purify any kind of dirty water and works on special membrane based technology along with reverse osmosis.

Around 20 such buses were sent to Kerala during the floods, he said.

Mr Mande said that it was not only this bus, but other technologies developed by the CSIR have been helpful in such situations that include cyclone proof structures that were built long ago in Bhubaneswar which were taken as model bulidings to further develop cyclone proof structures that helped the state in giving shelter to affected people and saving them during such situations.

He said that around 75 buildings were built by CSIR in the state that were storm safe.

Mr Mande said that based on the structural pyramid design of these buildings many buildings have been built near the coastal areas of Odisha that are lesser prone to damage in such situations.

He also said that in the 'Fani' affected areas, CSIR has distributed one lakh special packets of food that have been specially prepared by Central Food Technology Research Institute. These contain nutritious food items that are ready to eat, he added.

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CSIR-CSMCRI

8th May, 2019

How Gujarat bus comes to rescue of Fani-ravaged villagers in Odisha

TNN | May 15, 2019, 09:22 AM IST



BHUBANESWAR: As Cyclone Fani paralyzed drinking water supply and contaminated many ponds and wells in worst affected Puri district, a customised bus housing a water purification and desalination plant has come to the rescue of thousands of parched villagers in the peak summer. The 40-ft-long bus was developed by the Central Salt and Marine Chemicals Research Institute (CSMCRI) at Bhavnagar in Gujarat in 2007-08.

Realizing the plight of the Fani-affected people, the CSMCRI sent the bus from Gujarat to Puri on May 7, four days after Fani devastated the coastal district.



The indigenously developed bus can purify more than 40,000 litres of drinking water per day.

Led by senior scientist Dr Sanjay Patil, the bus reached Bhubaneswar on May 8 and conducted a site survey in Puri district with the officials of Panchayati Raj and drinking water department. “We are working in coordination with the state rural water supply and sanitation (RWSS) division. Our bus is moving to affected areas as per the guidance of the RWSS. We were stationed in several villages in Kakatpur and Satyabadi areas in the district since May 9,” said Bhoumik Sutaria, a CSMCRI scientist associated with the high-tech bus.

Patil said the bus’s plant can purify contaminated turbid, brackish and saline water and make it potable and good for drinking. The bus has a reverse osmosis (RO) desalination and ultra-filtration plant and consists of thin-film composite membrane filtration that can remove viruses and bacteria from water.

“At present, we are purifying at least 4,000 litres of water from ponds per hour. The purified water is being filled in RWSS tankers for smooth supply,” Sutaria said. The bus works on 23 kilowatt power produced by generator attached to the vehicle’s engine. “We currently face power supply problem in Odisha and are using the generator. The bus has also solar panels on its roof and can draw part of the solar power to maintain basic energy needs,” he said.

Villagers at Biragobindpur where the bus was stationed on Tuesday heaved a sigh of relief after getting pure drinking water. “We are obliged to the CSMCRI for sending us the bus to our village in this crisis time. We were struggling to get drinking water as our village pond was filled with garbage, tree branches and dust,” said Subrata Mishra, a villager.

Sources said the specially designed bus was mobilized in a number of states, hit by natural calamities in the past. The CSMCRI had despatched the bus to Odisha during flash floods in 2013 and quenched the thirst of countless villagers in Ganjam, Kendrapada and Jagatsinghpur districts.

Published in:
[Times of India](#)

CSIR-CSMCRI

8th May, 2019

Gujarat water bus to Puri villages' rescue

TIMES NEWS NETWORK

Bhubaneswar: As Cyclone Fani paralysed the drinking water supply and contaminated many ponds and wells in the worst-hit Puri district, a customised bus with a water purification and desalination plant has come to the rescue of thousands of parched villagers.

The 40-feet-long bus was developed by the Central Salt and Marine Chemicals Research Institute (CSMCRI) at Bhavnagar in Gujarat in 2007-08.

To help the Fani-affected people, the CSMCRI sent the bus from Gujarat to Puri on May 7, four days after the cyclone devastated the coastal district. The indigenously developed bus can purify more than 40,000 litres of drinking water every day. Led by senior scientist Sanjay Patil, the bus reached Bhubaneswar on



People gather to collect purified water from the bus

May 8 and conducted a site survey in Puri district with officials of the panchayati raj and water supply department.

"We are working in coordination with the state rural water supply and sanitation (RWSS) division. Our bus is moving in the affected areas as per the guidance of the RWSS. The bus has been moving across several villages in Kakatpur and Satyabadi areas in the district since May 9," said Bhounik Sutaria, a CSMCRI scientist associated with the high-tech bus.

Published in:
Times of India

CFTRI to establish disaster mgmt centre

CSIR-CFTRI

6th May, 2019

The city-based Central Food Technological Research Institute (CFTRI), which supplies food items to the victims of disasters, has decided to set up a Disaster Management Centre, to supply food items immediately after any calamity is reported. CFTRI has been lending its hands, by supplying food items since many years. At present, the institution is preparing packed food items for the victims of the cyclonic storm 'Fani' in Odisha, Andhra Pradesh and West Bengal. The authorities have already by supplying food items since many years. At present, the institution is preparing packed food items for the victims of the cyclonic storm 'Fani' in Odisha, Andhra Pradesh and West Bengal. The authorities have already sent food items to Odisha. The institute had supplied food items to Kerala and Kodagu district in 2018, during floods. CFTRI has decided to establish the centre to send the food items to the affected regions, at short notice. The food will be prepared at the centre, using technology developed by CFTRI, round the year. The CFTRI has also decided to adopt a technology, which can produce food items with six months of shelf life, developed by the Institute of Minerals and Materials Technology (IMMT), Bhubaneswar. CFTRI director K S M S Raghava Rao said the institution has been sending food items to calamity-hit areas for the past several years. The staff, as well as their family members, students and volunteers, are involved in preparing the food items. Now, it takes two to three days to prepare the food items. With the launch of the new centre, it is possible to send the necessary items within no time, he said. The director said the institute has approached the Council of Scientific and Industrial Research (CSIR) to join hands for the purpose. "We have several food preparing equipment and we need more resources. Thus, we have urged the CSIR to support the cause," he said.

Published in:
[Deccan Herald](#)

CFTRI, DFRL Food To Cyclone-Hit Victims

CSIR-CFTRI



Mysuru: The two premier food research institutes in the city CSIR-CFTRI and DFRL are fully geared up to send food packets to cyclone ravaged areas of Odisha, Andhra Pradesh and West Bengal. CFTRI (Central Food Technological Research Institute) Director Dr. K.S. M.S. Raghavarao is leading the effort with staff and students fully prepared to produce about one lakh meals which will be sent to the needy places in batches. Meanwhile, the officers and staff in DFRL (Defence Food Research Laboratory) are also gearing up to supply nearly two tonnes of food to the cyclone victims of the three States.

4th May, 2019

Speaking to Star of Mysore here this morning, DFRL Director Dr. A.D. Semwal said that they have nearly two tonnes of stock of ready-to-eat, self-heating and dehydrated food that includes upma, chapatti, potato peas, suji halwa, veg pulao, chocolate bars, juice packets, biscuits to be sent to the cyclone ravaged areas.

“As soon as we get to hear from the DRDO Head Quarters in Delhi about the requirement we will be either airlifting the food by army helicopters or sending by courier in planes from Bengaluru. We always keep the food in stock as we are conducting research trials. This food is meant for the army jawans but during emergencies we divert the same food to the affected areas,” Dr. Semwal said.

Published in:
[Star of Mysore](#)

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