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## CSIR-NEERI IN SOCIAL MEDIA

### Quarterly Bulletin

OCT. 2016 – DEC. 2016





# धुएं से छुटकारा दिलाएगा 'नीरधुर'

नागपुर। 1 अक्टूबर। लोस सेवा

ग्रामीण इलाकों में चूल्हे पर खाना पकाया जाता है। इससे जहरीला धुआं लोगों के स्वास्थ्य पर बुरा असर डाल रहा है। इसे ध्यान में रखते हुए राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान (नीरी) ने घर के भीतर वायु प्रदूषण को कम करने

वाला चूल्हा 'नीरधुर' विकसित किया है। यह बहुईंधन उन्नत चूल्हा है। यह चूल्हा वायु प्रदूषण पर अंकुश लगाने के साथ ही उच्च उष्मीय क्षमता, ईंधन की खपत में कमी, उत्सर्जनों में कमी, खाना बनाने में सुगम, सुरक्षा मानकों के अनुकूल है। यह चूल्हा उपले, लकड़ी, कोयला, लकड़ी के चिप्स से जल सकते हैं।

खास बात यह है कि भारतीय मानक ब्यूरो (बीआईएस 2013) के उत्सर्जन मानकों पर यह चूल्हा खरा उतरा है। इतना ही नहीं नीरधुर को नवीन व नवीकरणीय ऊर्जा मंत्रालय ने मान्यता भी प्रदान की है। ऊष्मीय क्षमता के मानकों के अनुरूप नीरधुर की गणना

» शेष पेज 5 पर...

## धुएं से छुटकारा ...

सर्वश्रेष्ठ चूल्हों में की जा रही है।

नीरी की ओर से जारी बयान में बताया गया है कि नीरधुर के 50 प्रोटोटाइप का वितरण नागपुर जिले के दो गांवों में किया गया। इसके परिणाम सकारात्मक हैं। उसी प्रकार नीरधुर से संबंधित पेटेंट व छह डिजाइनों को पंजीकृत कराने के लिए भी आवेदन किया जा चुका है। गांवों, झुगियों में रहने वाले, सड़कों पर पकवानों के ठेले लगाने वाले इस उन्नत चूल्हे का उपयोग कर सकते हैं। नीरी के निदेशक डॉ. राकेश कुमार ने बताया कि नीरधुर से संबंधित हस्तांतरण प्रक्रिया व लाइसेंस जारी करने के लिए संभावित उद्यमियों से आवेदन मंगाए गए हैं। यह चूल्हा सीएसआईआर 800 कार्यक्रम के

## नीरी के इन वैज्ञानिकों ने विकसित किया चूल्हा

नीरधुर को विकसित करने वाली टीम में ई. एस. एस. वाघमारे, ई. एम. एन. वी. अनिल, संदीप चिदमलवाड़ और डॉ. साधना रायलु का समावेश है। इसे विकसित करने में सीएसआईआर 800 कार्यक्रम के समन्वयक डॉ. नितिन लामसेटवार और अक्षित गुप्ता का अहम योगदान रहा। डॉ. लामसेटवार ने बताया कि विभिन्न गांवों के लिए 100 से अधिक चूल्हे जल्द ही विकसित किए जाएंगे।

अंतर्गत तैयार किया गया है। यह कार्यक्रम उन करोड़ों लोगों के लिए है, जो सुविधाओं से वंचित हैं।

स्रोत: लोकमत समाचार  
02 अक्टूबर 2016



स्रोत: लोकमत  
02 ऑक्टूबर 2016

## 'नीरधूर' रोखणार प्रदूषण

नागपूर : उद्योग कारखान्यांसोबतच स्वयंपाकाकरातील चूल तसेच 'स्टोव्ह'मुळे वायू प्रदूषणात भरच पडते. विशेषतः ग्रामीण भागात तर महिलांना स्वयंपाक बनविणे ही एक कसरतच असते. हीच बाब लक्षात घेऊन 'नीरी'च्या वैज्ञानिकांनी कमी इंधनाचा वापर व नियंत्रित वायू उत्सर्जन असलेली चूल तयार करण्याचा संकल्प केला. अनेक महिन्यांच्या अथक प्रयत्नानंतर 'नीरधूर' ही 'इको-फ्रेंडली' चूल करण्यात यश आले आहे.



'नीरी'च्या वैज्ञानिकांचे संशोधन :  
कमी इंधनाचा वापर, नियंत्रित उत्सर्जन

### इंधनाच्या प्रमाणात अर्ध्याहून अधिक घट

पारंपरिक चुलीरी तुलना केली असता 'नीरधूर'मध्ये अर्ध्याहून कमी इंधन लागते. याची रचना अशी करण्यात आली आहे की जास्तीत जास्त ऊर्जा निर्माण होते. सर्वात महत्वाचे म्हणजे 'एमिशन कंन्ट्रोल प्रोसेस'ला अधिक प्रभावी करण्यात आले आहे. इंधन व आर्गॅसोबत प्राणवायुचा जास्तीत जास्त संपर्क होईल, अशी रचना यात करण्यात आली आहे. त्यामुळे उत्सर्जनाचे प्रमाण अर्ध्याहून कमी झाले आहे. महत्वाचे म्हणजे भारतीय मानक ब्युरोच्या मानकांवर ही चूल खरी उतरत आहे, अशी माहिती अंकित गुप्ता यांनी दिली. ही चूल सुरक्षित असून सहजपणे एका ठिकाणाहून दुसऱ्या ठिकाणावरदेखील नेता येते, असेदेखील त्यांनी सांगितले.

ग्रामीण भागासाठी लाभदायक / २

## ग्रामीण भागासाठी लाभदायक 'नीरधूर' रोखणार प्रदूषण

नागपूर : साधारणतः ग्रामीण तसेच दुर्गम भागांमध्ये स्वयंपाकासाठी आजदेखील चुलीचा मोठ्या प्रमाणात वापर होतो. यात इंधन म्हणून लाकूडफाटा, कोळसा, वाळलेले तणस किंवा गोवऱ्या वापरण्यात येतात. संपूर्ण स्वयंपाकासाठी इंधन जास्त लागते. शिवाय यातून मोठ्या प्रमाणात धूर निघतो. या धुरात प्रामुख्याने 'कार्बन मोनोऑक्साईड' तसेच 'पीएम'चा (पार्टिक्युलेट मटेरिअल) समावेश असतो. हे बारीक कण नाकातोंडावाटे थेट शरीरात जाण्याचा धोका असतो व यामुळे फुफ्फुस तसेच श्वसनसंस्थेशी निगडित आजार होतात. ग्रामीण भागात या आजारांचे प्रमाण जास्त आहे. 'भारतीय मानक ब्युरो'तर्फे उत्सर्जनासंदर्भात मानके ठरविण्यात आली आहेत. या मानकांनुसार या चुलींमधून प्रचंड प्रदूषण होते.

त्यामुळे 'भारतीय मानक ब्युरो'च्या मानकांवर खरे उतरणारे व कमी इंधनात जास्त ऊर्जा देणारी 'इको-फ्रेंडली' चूल बनविणे हे 'नीरी'च्या वैज्ञानिकांसाठी आव्हानच होते. 'सीएसआयआर-८००' या उपक्रमांतर्गत 'नीरधूर' ही चूल तयार करण्यात आली. डॉ.नितीन लाभसेटवार व अंकित गुप्ता यांच्या नेतृत्वातील 'टीम'ने ही चूल तयार

### देशातील सर्वश्रेष्ठ चूल

'नीरी'तर्फे तयार करण्यात आलेल्या 'नीरधूर'चे देशात अनेक ठिकाणी सादरीकरण करण्यात आले. केंद्र शासनाच्या नवीन व नवीकरणीय ऊर्जा मंत्रालयातर्फे या चुलीला मान्यता मिळाली आहे. ऊर्जेची क्षमता व उत्सर्जन यांच्या आधारावर ही देशातील सर्वश्रेष्ठ चूल असल्याचे प्रमाणित करण्यात आले आहे. या चुलीसंदर्भात 'नीरी'ने 'पेटंट'साठी अर्ज केला आहे. ही प्रणाली जाणून घेण्यासाठी उद्योजक तसेच 'स्टार्टअप' संपर्क साधू शकतात, असे आवाहन 'नीरी'चे संचालक डॉ.राकेश कुमार यांनी केले आहे. विविध गावांत १०० 'नीरधूर' चुलींचे वाटप करण्यात येणार असून तेथील प्रदूषणाचा अभ्यास करण्यात येईल, अशी माहिती डॉ. नितीन लाभसेटवार यांनी दिली.

केली. या 'टीम'मधील वैज्ञानिकांत एस.एस.वाघमारे, एम.एन.व्ही.अनिल, संदीप चिदमलवाड, डॉ.साधना रायलू यांचा समावेश होता.(प्रतिनिधी)





Source: Lokmat Times  
02 OCT 2016

## Neeri develops 'Neerdhur' for controlling indoor air pollution

LOKMAT NEWS NETWORK  
NAGPUR, OCT 1

In rural areas, respiratory diseases have been frequently associated with indoor air pollution from solid biomass fuels and use of conventional inefficient cookstoves. World Health Organisation (WHO) has identified rural indoor pollution responsible for significant health burden in India. Therefore, to combat this situation in the country, CSIR-Neeri has developed a novel domestic natural draft multi-fuel improved cookstove 'Neerdhur' inheriting innovative technological know-how for high thermal efficiency, reduced fuel consumption, reduced emissions, reduced cooking time, safety and portability, informed a press release from Neeri.

'Neerdhur' is approved and certified by Ministry of New and Renewable Energy (MNRE), Govt. of India to meet the emission



standards of Bureau of Indian Standards (BIS 2013). It has been rated as one of the best cook stoves in terms of thermal efficiency and emissions. 'Neerdhur' has been demonstrated in the field and over 50 prototypes have been distributed in two villages of the Nagpur district.

The Institute has already applied for its patent and registration of its six designs. 'Neerdhur' can be used by rural households, slum-dwellers, street vendors and others using conventional domestic cooking devices.

CSIR-Neeri director Dr Rakesh Kumar stated that

the Institute has sought willingness from potential entrepreneurs and start-ups for obtaining licenses for the transfer of know-how related to 'Neerdhur' for its commercial exploitation, which will also reduce the health burden in rural households. CSIR-Neeri developed this cook stove under its CSIR-800 programme, which aims to benefit the underprivileged people in the country.

The CSIR-Neeri team involved in the development of 'Neerdhur' include Er SS Waghmare, Er MNV Anil, Sandeep Chidmalwad, Dr S Rayalu, led by Dr Nitin Labhsetwar and Er Ankit Gupta. Dr Nitin Labhsetwar, who is coordinating CSIR 800 programme at Neeri informed that another 100 cook stoves will be soon distributed in different villages, while Neeri will also be working on various other activities for the benefit of rural people under this programme.

Source: Hitvada  
03 OCT 2016

## NEERI develops 'Neerdhur' multi-fuel cookstove to control indoor air pollution

- NEERI develops the cookstove under CSIR-800 programme that aims at benefitting the underprivileged people in the country
- Already, 50 prototypes of the cookstove have been distributed in two villages of Nagpur district, and 100 more will be distributed soon
- NEERI has applied for patent and registration of six designs of 'Neerdhur'

### ■ Staff Reporter

CSIR-National Environmental Engineering Research Institute (NEERI) has developed a domestic natural draft multi-fuel cookstove 'Neerdhur' that may be helpful in controlling indoor air pollution.

In rural areas, respiratory diseases have been found to be associated with indoor air pollution from solid biomass fuels and use of conventional inefficient cookstoves. World Health Organisation (WHO) has identified rural indoor pollution responsible for significant



'Neerdhur' multi-fuel cookstove developed by NEERI.

health burden in India. To combat this situation in India, CSIR-NEERI has developed the novel improved cookstove 'Neerdhur'.

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Dr Rakesh Kumar, Director of CSIR-NEERI, stated that NEERI sought willingness from potential entrepreneurs and start-ups for obtaining licenses for transfer of know-how related to 'Neerdhur' for its commercial exploitation, which will also reduce health burden in rural households.



## Indoor Air Pollution

# NEERI's Develops 'NEERIDHUR' Multi-fuel Cook Stove to Control Indoor Air Pollution

**The Hitavada** THE PEOPLE'S PAPER

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### NEERI develops 'Neerdhur' multi-fuel cookstove to control indoor air pollution

Source: The Hitavada Date: 03 Oct 2016 10:43:20



Staff Reporter,

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<http://thehitavada.com/Encyc/2016/10/3/NEERI-develops-%E2%80%98Neerdhur--multi-fuel-cookstove-to-control-indoor-air-pollution.aspx>

**PUBLISHED BY KNOWLEDGE RESOURCE CENTER, CSIR-NEERI, NEHRU MARG, NAGPUR**



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<http://thehitavada.com/Encyc/2016/10/3/NEERI-develops-%E2%80%98Neerdhur--multi-fuel-cookstove-to-control-indoor-air-pollution.aspx>



# NEERI's Stove Reduces Smoke, Promises Better Rural Health



News » City News » Nagpur News » Neeri

## Neeri's stove reduces smoke, promises better rural health

Manka Behl TNN | Updated: Oct 4, 2016, 12:32 IST



World Health Organisation

NAGPUR: With World Health Organisation (WHO) identifying indoor pollution being significantly responsible for the declining rural health and high mortality rate in India, National Environmental and Engineering Research Institute (Neeri) has developed 'Neerdhur', a novel multi-fuel domestic cooking stove.

"The unique thing of the stove is that apart from wood, other fuel

like coal, cowdung and agricultural residue can also be used in it. It also saves 50% fuel and has high thermal efficiency," said Nitin Labhsetwar, the senior principal scientist (Environmental Materials Division), who started developing the project around three-four years back. He added that the Neerdhur reduces cooking times and is super efficient.

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Explaining how the stove came about, he added, "Between 2008 and 2012, Neeri surveyed some 100 rural households and found that there were high emission from traditional stoves. People had poor awareness about their health, and so Neeri felt that there was a need for a stove that can use any biomass."

Explaining how it is different from the traditional brick-based stoves, scientist Ankit Gupta, who was a part of this project, said, "As the existing stoves being used by rural women are tightly packed by bricks, there is insufficient air supply to facilitate proper combustion. This results in higher emissions and lower thermal efficiency."

Source: Times of India, 4 OCT 2016



### NEERI's Stove Reduces Smoke, Promises Better Rural Health

Where Neerdhur scores is that it has provisions for increased air supply. "The volatile substances which usually do not get burnt in the traditional stoves are taken care of in Neerdhur which has combustion chamber," said Gupta.

Neerdhur has chambers at the top where small wood chips can be inserted to facilitate cooking in limited quantity. In traditional stoves, women use wooden logs even when cooking for a short time. "As per our observation, this would result in fuel wastage. Neerdhur's efficiency level is 33.33% while that of the traditional stove is 12-15%. Wood usage is halved and helps save the pressure on environment," said Labhsetwar.

By using Neerdhur, rural women can hope for better health. "Most suffer from respiratory diseases as they are directly exposed to the smoke. Studies have shown that death rates in India are more due to indoor pollution in rural areas," said Gupta, adding that even slum-dwellers and street vendors can use the stove.

Over 50 stoves were distributed in two villages of Nagpur district more than a year ago. "We have been constantly monitoring and also incorporated modifications as suggested by the villagers," said Gupta, adding that another 100 would be distributed soon.

Neeri's stove has been approved and certified by ministry of new and renewable energy ([MNRE](#)) and meets the emission parameters of Bureau of Indian Standards (BIS). "The institute has applied for its patent and registration of six designs of Neerdhur," said Neeri director Rakesh Kumar. The institute is now looking at starting commercial production. "We have called for expression of interest from entrepreneurs and start-ups who can obtain license from us," added Kumar.

Neeri expects the cost of Neerdhur to be around Rs 1200 after getting subsidised by MNRE.

Source: <https://timesofindia.indiatimes.com/city/nagpur/Neeris-stove-reduces-smoke-promises-better-rural-health/articleshow/54665243.cms>



## State Signs MoU with NEERI Regarding 'Swachh Maharashtra'

# The Hitavada

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## State signs MoU with NEERI regarding 'Swachh Maharashtra'

Source: The Hitavada Date: 14 Oct 2016 10:26:53



Staff Reporter,

### • CM honours 9 civic bodies from Nagpur Divn over ODF success

Maharashtra Government, on Thursday, signed a Memorandum of Understanding (MoU) with Nagpur-based National Environmental Engineering Research Institute (NEERI) regarding implementation of Swachh Maharashtra Abhiyan.

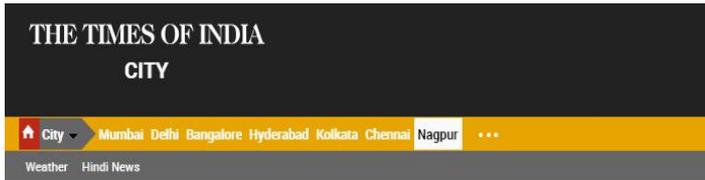
The MoU was signed in a function held at National Centre for Performing Arts in Mumbai on Thursday. Devendra Fadnavis, Chief Minister, graced the occasion. In the same function, Fadnavis honoured civic chiefs and Chief Officers of nine municipal councils from Nagpur Division over their success in becoming open-defecation free (ODF).

These municipal councils from Nagpur Division included Khapa, Kalmeshwar, Mouda, and Narkhed from Nagpur district alone; and Bhandara, Tumsar, Paoni, Pulgaon, and Deoli from other parts of the division. Abhijit Chaudhari, District Collector of Bhandara district, also was felicitated. Deepak Kesarkar, Minister of State for Home (Rural); Swadhin Kshatriya, Chief Secretary; Manisha Mhaiskar, Secretary, Urban Development Department; Virendra Singh, Commissioner for Municipal Administration also shared the dais on this occasion.

<http://thehitavada.com/Encyc/2016/10/14/State-signs-MoU-with-NEERI-regarding-%E2%80%98Swachh-Maharashtra-.aspx>



## NEERI to Plan City's Solid Waste Management, Sewage Treatment



News » City News » Nagpur News » Neeri to plan city

### Neeri to plan city's solid waste management, sewage treatment

Manka Behl TNN | Updated: Oct 15, 2016, 09:24 IST



(Representative image)

**NAGPUR:** In a first-of-its-kind agreement, the state government has signed a Memorandum of Understanding (MoU) with the National Environmental Engineering Research Institute (Neeri) under the Swachh Maharashtra initiative. In Nagpur, Neeri's main focus area will be solid waste management and sewage treatment, apart from bio-medical waste

management, rejuvenation of lakes and other environment related issues.

Neeri will now provide technical guidance on various developmental aspects of Smart cities including solid waste management, sanitation, urban planning, health, water supply and sewage treatment.

**NAGPUR:** In a first-of-its-kind agreement, the state government has signed a Memorandum of Understanding (MoU) with the National Environmental Engineering Research Institute (Neeri) under the Swachh Maharashtra initiative. In Nagpur, Neeri's main focus area will be solid waste management and sewage treatment, apart from bio-medical waste management, rejuvenation of lakes and other environment related issues.

Neeri will now provide technical guidance on various developmental aspects of Smart cities including solid waste management, sanitation, urban planning, health, water supply and sewage treatment.

According to chief minister Devendra Fadnavis, open defecation continues to be the biggest challenge for the state. "We have suffered a lot due to non-planning of cities. We are determined to make all cities open defecation free by 2017 but it is possible only when Swachh Maharashtra becomes a people's movement," said Fadnavis in a recent function in Mumbai. He had also stressed that future development projects should be planned taking into consideration environmental aspects.

Neeri director Rakesh Kumar said that technologies of other developed countries would also be adopted. "With our headquarters here, Nagpur is very special for us and we will be chalking out a management plan for solid waste management and sewage treatment along with the civic body. From now on, Neeri will prepare the city's Environment Status Report (ESR) every year," said Kumar.

<https://timesofindia.indiatimes.com/city/nagpur/Neeri-to-plan-citys-solid-waste-management-sewage-treatment/articleshow/54859051.cms>



### NEERI to Plan City's Solid Waste Management, Sewage Treatment

Kumar added that the development plans will be site-specific, depending on the key problems of different cities of the state. "Nagpur is still better than cities like Pune and Mumbai when it comes to air pollution. We will also focus on developing surrounding rural areas from where cities get their basic resources," he said.

Neeri has also established a Centre for Strategic Urban Management (C-SUM), which aims to involve urban local bodies and stakeholders for building smart sustainable cities. "We are communicating with local authorities and will prepare management plans after collecting and analysing data," said Kumar.

As reported by TOI earlier, Neeri has also signed a MoU with NMC for protecting environment under the [Smart City](#) project. "For ensuring efficient planning, we are inviting NMC officials to work with us," Kumar said.



वाइट पेपर से समस्या और समाधान

# वाइट पेपर से समस्या और समाधान

नीरी प्लेटिनम  
जयंती पर  
सेठी ने कहा

महानगर संवाददाता  
नागपुर. आईआईटी मुंबई  
के प्राध्यापक डा. वीरेंद्र  
सेठी ने कहा कि जैसे-  
जैसे विकास हो रहा है,  
वैसे ही परिवर्तन की भी  
जरूरत है. यही बदलाव  
संस्थाओं और संगठनों में  
भी होना चाहिए. शैक्षणिक व औद्योगिक  
सहयोग, केंद्रीय प्रदूषण नियंत्रण मंडल और  
राज्य प्रदूषण नियंत्रण मंडलों के सहयोग से  
'नीरी' लोगों की आवाज बन सकता है.  
प्रत्येक कार्य के बाद 'वाइट पेपर' जारी



विजेता  
छात्रों को  
पुरस्कार

स्पर्धा  
विजेता छात्रों व  
पुरस्कृत किए  
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श्रेणी में पोद  
इंटरनेशनल  
स्कूल, भवन्  
श्रीकृष्णनगर अ  
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हिस्सा लेने से छात्रों को नई तकनीकी ज्ञान

नवभारत - 18 अक्टूबर 2016



समय-समय पर परिवर्तन आवश्यक : प्रो. सेठी

## समय-समय पर परिवर्तन आवश्यक : प्रो. सेठी

### ■ नीरी ने मनाया स्थापना दिवस

नाम प्रतिनिधि। नागपुर. जैसे-जैसे हम आगे बढ़ते जाते हैं उसी प्रकार समय परिवर्तन की आवश्यकता पड़ती है। ठीक ऐसा ही संस्थानों एवं संगठनों में भी होना चाहिए। देश के भारतीय प्रौद्योगिक संस्थान (आईआईटी) उदाहरण हैं, हमें कुछ जोखिम उठाते हुए कुछ नया करने की आवश्यकता है। यह बात मुख्य अतिथि के रूप में भारतीय प्रौद्योगिकी संस्थान बॉम्बे, पर्यावरण विज्ञान एवं अभियांत्रिकी, प्राध्यापक डॉ. वीरेंद्र सेठी ने सोमवार को सीएसआईआर-राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान (नीरी) के 75वें स्थापना दिवस (प्लेटिनम जयंती) पर सोमवार, 17 अक्टूबर को नीरी सभागार में आयोजित कार्यक्रम में कही।

डॉ. सेठी ने कहा कि संपोषणियता के लिए आवश्यक विकास से संबंधित सर्वांगी संरचना देश में उपलब्ध नहीं है और शैक्षिक एवं औद्योगिक सहयोग, केन्द्रीय प्रदूषण नियंत्रण मंडल, राज्य प्रदूषण नियंत्रण मंडलों के सहयोग से नीरी के लोगों की आवाज बन सकता है। उन्होंने कहा कि प्रत्येक कार्य के बाद वाइट पेपर जारी किया जाना चाहिए,



ताकि समस्याओं और उनके समाधानों की जानकारी मिल सके। मंच पर विशेष अतिथि के रूप में श्री मथुरादास मोहतो विज्ञान महाविद्यालय प्राचार्य, डॉ. एस.जी. चरलवार, नीरी निदेशक डॉ. रकेश कुमार, मुख्य वैज्ञानिक डॉ. जे.एस. पांडेय एवं वरिष्ठ प्रधान वैज्ञानिक डॉ. प्रकाश कुंभारे उपस्थित थे। डॉ. चरलवार ने कहा कि पांच वर्ष बाद भारत में औसत आयु 29 वर्ष हो जाएगी, जिसका फायदा भारत को मिलेगा। उन्होंने कहा कि विद्यार्थियों को अनुसंधान में जाने की आवश्यकता है। स्वागत भाषण में डॉ. कुमार ने कहा कि वैज्ञानिक विकास समाज के आखिरी वर्ग तक पहुंचना चाहिए। इस अवसर पर 16 विद्यालयों के 17 सौ विद्यार्थियों ने संस्थान का दौरा किया। विज्ञान मॉडल एवं प्रदर्शनी प्रतियोगिता का आयोजन किया गया। इसमें

पांचवीं से सातवीं कक्षा के विद्यार्थियों में पोद्दार इंटरनेशनल स्कूल को प्रथम, भारतीय विद्या भवन एवं श्रीकृष्ण नगर को द्वितीय व व टी कान्वेंट को तृतीय पुरस्कार दिया गया। आठवीं से दसवीं कक्षा के विद्यार्थियों में नारायणा विद्यालय प्रथम, साँदिपनी व हजारीपहाड़ द्वितीय एवं देशमुख स्कूल को तृतीय पुरस्कार दिया गया। ग्यारहवीं से बारहवीं कक्षा के विद्यार्थियों में केन्द्रीय विद्यालय को प्रथम, भारतीय विद्या मंदिर एवं श्रीकृष्णनगर व टाटा पारसी गर्ल्स जूनियर कॉलेज को तृतीय पुरस्कार प्रदान किया गया। साथ ही 25 वर्ष पूर्ण करने वाले कर्मचारियों एवं सेवानिवृत्त कर्मचारियों का सम्मान किया गया। मास्टर आदित्य बिनवाले, मास्टर वेदाल वासनिक, अनुकृति सिंह, शौनक भानाटकर एवं रोशन को भी पुरस्कृत किया गया।

दैनिक भास्कर - 18 अक्टूबर 2016



## NEERI Should Become Voice of India: Dr Virendra Sethi

# NEERI should become Voice of India: Dr Virendra Sethi

■ Staff Reporter

"NEERI can become the voice of people of India in association with the academic and industrial partners, Central Pollution Control Board and State Pollution Control Boards to control pollution and make country green and sustainable, said Dr Virendra Sethi, Professor, Centre for Environmental Science and Engineering, Indian Institute of Technology-Bombay (IIT-Bombay), Mumbai while delivering a lecture on 'Futures to Unfold' at NEERI on Monday.

Citing the example of Indian Institute of Technology (IITs) in the country, Dr Sethi said, we should not follow the replication model which is not risked. He opined that a systemic structure for articulating the developmental needs for sustainability is not available in the country. He said that every activity should be supported by 'White Paper' which is a persuasive document that usually describes problems and how to solve them.

The CSIR Platinum Jubilee Foundation Day Celebration was organized at CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) in the NEERI Auditorium. Dr S G Charalwar, Principal, Shri Mathuradas Mohota College of Science, Nagpur was the guest of honour. Dr Rakesh Kumar, Director, CSIR-NEERI, Dr J S Pandey, Chief Scientist Science Secretary and Prakash Kumbhare, Senior Principal Scientist Head, Planning Division, CSIR-NEERI also shared



Dr Virendra Sethi addressing the gathering at NEERI while Dr Rakesh Kumar, Dr S G Charalwar, Dr J S Pandey, Prakash Kumbhare look on.

the dais.

Dr Charalwar said that students should be given a proper exposure in Research Institutes. A joint venture between NEERI and educational Institutes would be a welcome step in this regard, he added.

Dr Rakesh Kumar said that scientific developments should reach last section of the society. Science and Technology interventions should provide a better quality of life for benefiting underprivileged.

The Institute was open for general public including students. 1700 students from 16 schools visited the Institute. Science Models Exhibition-cum-Competition was organized at the Institute. Dr J S Pandey, Chief Scientist inaugurated this exhibition in the morning.

In the first category (5 th to 7 th standards), first prize of Science Models was conferred to Podar International School for presenting the model on 'Water Technology Management', second prize was given away to Bhawan's B.P Vidya Mandir, Srikrishna Nagar for the

model on 'Water Management', and third prize was handed over to V.T. Convent for model on 'Green Building'. In the second category (8 th - 10 th standards), first prize was given away to Narayana Vidyalayam for the model on 'Smart Irrigation System', second prize to Sandipani, Hazaripahad for the model on 'Parabolic Reflector', and third prize was conferred to Vinayakrao Deshmukh School for the model on 'Air Pollution'.

In third category (11 th to 12 th standards), first prize was conferred to Kendriya Vidyalaya, Vayusena Nagar for presenting model on 'Strategic Urban Management for Building Smart Sustainable Cities', second prize was given to Bhawan's B P Vidya Mandir, Srikrishna Nagar for model on 'Combating Pollution', and third prize was handed over to Tata Parsi Girls' Junior College for the model on 'Waste to Energy'. Prakash Kumbhare proposed a vote of thanks and Jaya Sabjiwale conducted the proceedings.

Hitavada-18 October 2016



## NEERI Revives Barren Land at Khapri Village

Staff Reporter,

← The **Hitavada** THE PEOPLE'S PAPER 🔍



A+ A-

- **Farmers may start reaping benefits of bamboo plantation from September 2017**

- **Heads of 10-15 nearby villages planning to set-up a small scale industry in Khapri**

### NEERI revives barren land at Khapri village

Source: The Hitavada Date: 27 Oct 2016  
10:38:20

Staff Reporter,

- **Farmers may start reaping benefits of bamboo plantation from September 2017**
- **Heads of 10-15 nearby villages planning to set-up a small scale industry in Khapri**

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) has transformed approximately one hectare of barren land at village Khapri near Kalmeshwar

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) has transformed approximately one hectare of barren land at village Khapri near Kalmeshwar through microbe-assisted green technology (MAGT) in association with farmers.

The project was initiated in March 2016 with the aim of providing livelihood to farmers. Under the project, 487 bamboo species of different varieties were planted on degraded land at the village. This is the first time in India that more than 50 varieties of bamboo collected from various regions have been planted at one place (Khapri) for the benefit of farmers as part of CSIR-800 Programme.

The scientists of NEERI, who paid a visit to the village on Wednesday, found that the growth of bamboo had reached 20 feet and the farmers would start getting benefit of the plantation from September 2017.

<http://thehitavada.com//Encyc/2016/10/27/NEERI-revives-barren-land-at-Khapri-village.html>



### NEERI Revives Barren Land at Khapri Village

Further, in a massive plantation programme organised by CSIR-NEERI in association with the farmers on Wednesday, CSIR-NEERI planted 3,200 species at Kheri village and 1,400 species at Khapri. These include bamboo and medicinal plants. Dr Rakesh Kumar, Director, CSIR- NEERI; Dr Hemant Purohit, Chief Scientist and Head, Environmental Biotechnology and Genomics Division, CSIR-NEERI; and Dr Lal Singh, Senior Scientist, who is leading this project, were present on this occasion. Prashant Adale, Sarpanch, Kheri; Dinesh Joshi and Shudodhan Patil, Gram Panchayat members, also took part in the programme along with the farmers.

Addressing the farmers, Dr Rakesh Kumar said that bamboo was a powerful ally in land restoration. “Bamboo not only protects the environment but also creates employment opportunities,” he added. He advised the farmers to link this activity with self-help groups for empowerment of women. Briefing about uniqueness of the project, Dr Lal Singh said that a capital investment of Rs 2.50 lakh had potential to give return of Rs 10 lakh to Rs 12 lakh after four years, as bamboo diversity provided products of high value such as timber, decoration materials, raw materials for paper and pulp industry, etc.

Ritesh Parwalkar, Sarpanch of Khapri, said that Sarpanch of 10-15 nearby villages were planning to set-up a small scale industry in Khapri. “This is the first time we have seen such a team of scientists working in the field in the interest of farmers,” he added.

Dr Ambrish Tharakar, organic farmer; Dr Chaware, Chief Manager, Bank of Maharashtra; S V Yete, Environmental Engineer; Atmaram Rathore, former Divisional Forest Officer; Saijal Mitra, Dr S K Singh, Dr B K Sarangi, Dr Anshuman Khardenavis, Dr Asifa Qureshi, Dr Nishant Dafle, Dr Prashant Thawale, Hemlata Jambhulkar, also took part in the plantation drive.

<http://thehitavada.com//Encyc/2016/10/27/NEERI-revives-barren-land-at-Khapri-village.html>

**PUBLISHED BY KNOWLEDGE RESOURCE CENTER, CSIR-NEERI, NEHRU MARG, NAGPUR**



## Industrial Air Pollution

### Central Constitutes Committee to Assess Impact of Industrial Pollution on Taj Mahal

THE TIMES OF INDIA  
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Weather Hindi News

News » City News » Agra News » Centre constitutes committee to assess impact of industrial pollution on Taj Mahal

## Centre constitutes committee to assess impact of industrial pollution on Taj Mahal

Aditya Devi TNN | Dec 10, 2016, 19:38 IST



AGRA: The [union environment and forest ministry](#) has constituted a five-member high-level committee comprising its advisor, National Environmental Engineering Research Institute (NEERI) director and Archaeological Survey of India (ASI) director general among others to conduct a fresh study to find

out the impact of industrial pollution on [Taj Mahal](#).

Earlier, in September this year, the ministry had decided to allow only non-polluting 'white category' new industrial units in Agra, a move vehemently opposed by Agra businessmen.

<https://timesofindia.indiatimes.com/city/agra/Centre-constitutes-committee-to-assess-impact-of-industrial-pollution-on-Taj-Mahal/articleshow/55913009.cms>

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Earlier, in September this year, the ministry had decided to allow only non-polluting 'white category' new industrial units in Agra, a move vehemently opposed by Agra businessmen.

The latest direction, passed on December 8, has come in the wake of several representations sent to the ministry by various organisations of Agra.



## Industrial Air Pollution

### Central Constitutes Committee to Assess Impact of Industrial Pollution on Taj Mahal

According to the new direction, the committee will assess level of industrial pollution as well as ambient air quality and suggest appropriate course of action based on the scientific evidence. It will also assess implementation of decisions taken on September 8 in the ministry while reviewing the status of environmental issues in the Taj Trapezium zone.

Besides, the committee will hear all the stakeholders and submit a report by December 14, 2016 to the ministry.

The ministry has appointed its advisor Manoranjan Hota as the chairman of the committee. Other members are secretaries of Central Pollution Control Board and UP Pollution Control Board, besides NEERI director and ASI chief or his representative.

The decision of the union environment and forest ministry to allow only non-polluting 'white category' new industries in the Taj Trapezium Zone (TTZ), a 10,400 sq km area around Taj Mahal, has received flak from trade and commerce associations in city. Industrialists claim that this rule has adversely impacted prime industries of the city like cold storage, footwear and marble factories and even hotels. They added that if the order is not withdrawn, they would have to down shutters soon and shift to other places.



## Industrial Air Pollution

### Central Constitutes Committee to Assess Impact of Industrial Pollution on Taj Mahal

National Chamber of Industries and Commerce (NCIC) had recently written a letter to the environment ministry, UP government and various other departments concerned to reconsider the decision. The matter was once again raised during a meeting of TTZ authority on Wednesday wherein the Chamber asked the Agra divisional commissioner, Chandrakant, who is also chairman of TTZ, to intervene and save the industries in the city.

Chandrakant had directed the NCIC to submit a detailed report on status of industries in the zone to the UP Pollution Control Board for verification of their claims. Additionally, the board was asked to find out whether these industries have any adverse effect on Taj or not before preparing a final report to be presented before the ministry seeking a reconsideration.