

निस्ट न्यूज NEIST NEWS

सी एस आई आर-उत्तर पूर्व विज्ञान तथा प्रौद्योगिकी संस्थान, जोरहाट
CSIR-NORTH EAST INSTITUTE OF SCIENCE & TECHNOLOGY, JORHAT

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Connecting Science & Technology for a Brighter Tomorrow

CSIR-NEIST DEVELOPS MODULAR BRICKS FROM BRAHMAPUTRA RIVER BED SAND



Modular bricks developed at CSIR-NEIST

An alternative brick from the river bed sand of the famous Brahmaputra River has been developed by CSIR-NEIST for use as building material in civil construction. The process developed by the Institute involves an eco-friendly compressed stabilized based technique with air drying and water curing, unlike the conventional burnt clay bricks which involves coal burning in brick kilns thereby causing air pollution. This indigenous technology is aimed at maximum utilization of local resources with minimum effect on long term basis that makes the process a sustainable one. Manufacturing of the bricks is easy which requires a simple machinery to be operated manually or by electrical means and can

be manufactured in all seasons. The modular bricks can be used for construction of building structure, boundary wall, foundation, etc. and the main advantage is that the bricks are lighter than the conventional ones with better quality, shape and size which will give an esthetic look to the finished structure.

The bricks are suitable for earthquake resistant construction and are cost efficient which is another added advantage. Developed at large scale level (24 lakhs bricks per annum), the technology is ready for transfer to potential clients/customers for commercialization.

CSIR-NEIST ORGANIZED MOTIVATIONAL PROGRAM FOR SCHOOL STUDENTS

With an objective to motivate students towards basic science, CSIR-NEIST organized a week-long motivational program during 7-12 April, 2016 at its premise. A total of 43 students of class XII

(science stream) along with 9 teachers from different schools of Assam, Mizoram and Nagaland attended the program. The program started off with an inaugural program held on 7 April, 2016



(Left) Dr D Ramaiah, Director, CSIR-NEIST addressing the students in the inaugural session. Seated on the dais are (from left) Dr B K Sarmah, Director, DBT centre, AAU-Jorhat and Dr P Sengupta, Chief Scientist, CSIR-NEIST present as Guests of Honour. (Right) Student participants and their teachers with Director, CSIR-NEIST and organizers of the program..

presided over by Dr D Ramaiah, Director, CSIR-NEIST. Dr B K Sarmah, Director, DBT Centre, Assam Agricultural University (AAU)— Jorhat and Dr P Sengupta, Chief Scientist, CSIR-NEIST were present as Guests of Honour. The week-long program included popular science talks, hands-on project work by students under the supervision of CSIR-NEIST scientists, Face-to-Face with scientists, elocution competition, visit to places of historical importance in Sivasagar district and visit to AAU. The

program concluded with a short Valedictory program held on 12 April, 2016 presided over by Dr D Ramaiah. Certificates were distributed to the participants and winners of elocution competition were awarded with prizes during the program. The program received high appreciation and acknowledgement from the participants. The program was catalyzed and supported by RVSP, DST, Govt. of India.

RESIDENTIAL SALTERS' CHEMISTRY CAMP AND TEACHERS' TRAINING WORKSHOP OF ROYAL SOCIETY OF CHEMISTRY INDIA HELD AT CSIR-NEIST



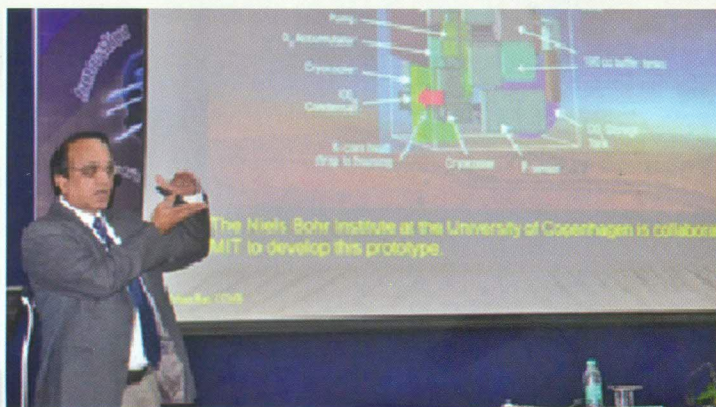
Student participants of the Salters' Chemistry Camp held at CSIR-NEIST.

The Royal Society of Chemistry India (RSC) in association with CSIR-NEIST and Kaziranga University, Jorhat organized Teachers' Training Workshop and Residential Salters' Chemistry Camps in July, 2016 at CSIR-NEIST campus. The Salters' Chemistry Camp was held during 11-13 July, 2016 wherein 67 students of std IX from 17 government/less-privileged schools of Jorhat participated. The main objective of the program was to encourage the young minds towards basic science and especially in the chemistry subject by providing them a platform to experience hands-on lab experiments, which they generally don't experience in schools. The program also offered them a chance to meet like-minded students and help in exchange of ideas and knowledge.

This was followed by a two-day Teachers' Training workshop held during 14-15 July, 2016 for government school teachers at CSIR-NEIST. The teachers' training program was also held at CSIR-NEIST branch labs in Itanagar and Imphal during 18-19 July, 2016 and 21-22 July, 2016 respectively. Altogether 33 teachers from 25 different schools of Jorhat participated at the program at CSIR-NEIST while 30 teachers from 27 schools and 33 teachers from 31 schools participated at the programs held at Itanagar and Imphal respectively.

The teachers' program was held with an aim to provide them an opportunity to learn new techniques and skills to teach science in an engaging and exciting manner. The programs were coordinated by Mr Partha Paul, Scientist, CSIR-NEIST and Ms Bhakti Dhamdhare and Mr Ershad Abubacker from the RSC.

**OTHER IMPORTANT EVENTS HELD
NATIONAL TECHNOLOGY DAY 2016**



(Left) Dr Ch Mohan Rao, Former Director, CSIR-Centre for Cellular & Molecular Biology, Hyderabad, delivering Technology Day Lecture 2016 at CSIR-NEIST. (Right) CSIR-NEIST Annual Report 2015-16 released by the Chief Guest in presence of Dr D Ramaiah.

CSIR-NEIST celebrated National Technology Day 2016 with a special program held at Dr J N Baruah Auditorium on 11 May, 2016. Dr Ch Mohan Rao, Former Director, CSIR-Centre for

Cellular and Molecular Biology, Hyderabad graced the occasion as Chief Guest and delivered the Technology Day Lecture on the topic, 'Science & Technology for Social Good'.

CSIR-UGC NET EXAM HELD AT JORHAT

CSIR-UGC NET exam was held for the first time in Jorhat on 19 June, 2016. Held at J B College, the exam was conducted in two sessions and an overall 71.07% of the registered candidates appeared for the exam from the subject areas viz., Life Science, Physical Science, Chemical Science, Math Science and Earth

Physical Science, Chemical Science, Math Science and Earth Science. It may be mentioned that Jorhat has been included as an exam centre w.e.f 2016 with CSIR-NEIST as the Coordinator.

SOCIETAL ACTIVITIES

CSIR-NEIST IMPARTS TRAINING ON MUSHROOM CULTIVATION



Trainees from 5 Air Force Hospital, Jorhat (left) and student trainees of AcSIR (right).

Under CSIR 800 project titled, "Rural Entrepreneurship and Skill Development through Demonstration and Training of Appropriate Technologies of CSIR-NEIST", CSIR-NEIST organized a series of training program on Mushroom cultivation during the month. Altogether 13 nominated personnel of 5 Air force Hospital, Jorhat received the training held at CSIR-NEIST premise on 3 May, 2016. This was followed by two programs held on 10.05.2016 and

21.05.2016 wherein 9 AcSIR students received the training as a part of their academic curricula concerned with societal/rural issues. The training covered detail demonstration on cultivation practice and knowledge dissemination about the health benefits of Mushroom and processing of the same to produce value added products. The programs were coordinated by Dr S P Saikia, Senior Scientist & PI of the project.

