

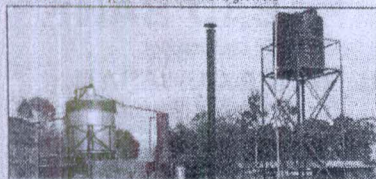


The Council of Scientific & Industrial Research (CSIR) along with its constituent establishments spread across the country is celebrating the 77<sup>th</sup> Foundation Day of CSIR on 26 September 2018. Established in the year 1942, CSIR today with a pan-India presence of 38 national institutes covers a wide spectrum of science and technology – from radio and space physics, oceanography, geophysics, chemicals, drugs, genomics, biotechnology and nanotechnology to mining, aeronautics, instrumentation, environmental engineering and information technology. Over the glorious 76 years of its existence, CSIR has provided significant technological intervention in improving the quality of lives of the people, appropriate applications to environment, health, drinking water, food, housing, energy, farm & non-farm sectors and addressing business & industry needs.

CSIR-North East Institute of Science & Technology, Jorhat (Assam) is one of the multidisciplinary laboratories of CSIR. The laboratory has a glorious existence of more than 5 decades contributing immensely to the economic, industrial and societal upliftment of the North-eastern region in particular and the country as a whole.

### CSIR Aroma Mission in the North East

- Aroma Mission programme launched in Arunachal Pradesh, Manipur and Mizoram
- Agreement signed with 12 NGOs to bring about 2000 hectares of land under aromatic plants cultivation
- Technical and infrastructural support for distillation and value addition to farmers/growers all over the NE India
- Enable effective buy-back mechanisms to assure remunerative prices to the farmers/growers



Essential Oil Distillation Unit (500 kg) installed at Imphal, Manipur

### CSIR-NEIST technologies transferred recently

- Modular Bricks from Brahmaputra River Bed Sand
- Herbal Anti-Fungal Formulation for Domestic Animal
- Herbal Anti-Arthritis Formulation
- Herbal Anti-Fungal Formulation
- Herbal Anti-Marks Formulation
- Herbal Mosquito Repellent Vapouriser
- Herbal Mosquito Repellent Ointment
- Herbal Mosquito Repellent Spray
- Herbal Lipslick with Lip Care
- OP-12 Biofertilizer
- Bio-organic Fertilizer SUFAL
- Improved Variety of Citronella (Jor Lab C-5)



Technology Transfer of Herbal Anti-Marks and Anti-Fungal formulations



Technology Transfer of Improved variety of Citronella (Jor Lab C-5)

- Improved Variety of Lemongrass (Jor Lab L-8)
- Design Know-how of Essential Oil Distillation Unit
- Natural Edible Dye- Deep Pink Colour

### Transfer-ready potential technologies of CSIR-NEIST

- Herbal Hand-wash
- Kisan Guard
- Carbon Dots from Bituminous Tertiary high Sulphur Indian Coals
- High Yielding Variety of Patchouli (Jor Lab P-1)
- High Yielding Variety of Kaempferia galanga (Brahmaputra-1)
- Herbal Anti-Mold Leather Polish
- Flexible Composite Sheet from Tannery Wastes
- Scented Decorative Candle
- Bacterial Formulation for Crop Enhancement & Yield Improvement
- TP-16 Biofertilizer
- Process Technology for Bioremediation of Crude Oil Contaminated Soil
- Solid Deodorant Freshener
- Liquid Deodorant Cleaner
- Process for Extraction of Fibres from Banana Pseudo Stem

### CSIR-NEIST activities making impact

- Basic, exploratory and applied research
- Herbal formulations
- Seismicity studies
- Dissemination of rural technologies for improvement in quality of lives
- Human resource development

### Activities in environmental sector

- Reclamation of crude oil contaminated soil
- Clean coal technologies & value added products
- Acid Mine Drainage, Monitoring and Remediation
- Water: Testing, Evaluation and Defluoridation

### Human resource development

- Skill development in weaving, fitting, plumbing, welding and footwear products
- Science motivation to school students
- Fostering research for Ph.D programme in various areas lot award by AcSIR (Academy of CSIR) and other universities like Dibrugarh University, Guwahati University, Manipur University, Rajiv Gandhi University etc.
- Imparting apprenticeship training in various trades for ITI passed students

### Major Facilities

- Field Emission Scanning Electron Microscope (FESEM)
- High Resolution Transmission Electron Microscope (HRTEM)
- High Resolution Mass Spectrometer (HRMS)
- Universal Testing Machine (Fiber & Paper)
- Universal Testing Machine (Construction & Engineering Materials)
- Confocal Microscope
- Ion Chromatography System
- Atomic Force Microscope
- Fluorescence Activated Cell Sorter & Flow Cytometer
- High Pressure Reactor
- X-Ray Photoelectron Spectrometer
- Thermal Analyser for DTA, TGA & DSC
- Co-rotating Twin Screw Extruder
- 500 MHz NMR, GC-MS, LCMS, FTIR, CHN & Sulphur Analyser

### Societal activities



Training on Vermicompost production, Banana fibre extraction, aromatic plants cultivation, Mushroom cultivation and other MSME technologies for socio-economic development

Services : CSIR-NEIST also offers various testing & analysis services to govt. agencies, private enterprises, and other user agencies, the details of which are available at [www.neist.res.in](http://www.neist.res.in).



**CSIR-North East Institute of Science & Technology, Jorhat, Assam**  
**Council of Scientific and Industrial Research**

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