

E. Manufacturing of footwear and allied products

The skilled development training program on manufacturing of footwear and allied products was provided at Tezpur of district Sonitpur



Trainees undergoing training for production of footwear and allied products

F. Training on Low dust Chalk, Banana fibre, Liquid Deodorant Cleaner, Solid Deodorant and wood care formulation

Five (5) nos of training programmes were organized under CSIR-800 (Project RSP-4052) on production of Low dust Chalk, Banana fibre, Liquid Deodorant Cleaner, Solid Deodorant and wood care formulation for the entrepreneurs of different places of Assam and other NE states. More than 1100 beneficiaries were benefited by the trainings.



Training program on Banana Fibre extraction organized on 10 November, 2016 at CSIR-NEIST Branch Lab Itanagar.



2-day training program held on wood care technology and Banana fibre extraction held during 22-23 March, 2017 at CSIR-NEIST branch lab., Imphal

G. Post training intervention for initial financial assistance and business link-up for the weaving activities

As a part of the post training intervention, the trained weavers were provided the financial linkages through a NABARD (National Bank for Agriculture and Rural Development) scheme, where JLGS (Joints Liability Groups) are framed by completing all the legal formalities and loans are provided to the JLGS. Out of the 55 weavers trained, 35 weavers willing to avail the bank loan facility to improved their production and accordingly 7 JLGS are formed. The remaining 20 weavers willing to start the commercial production by their own investment. In the first installment, the loan amount is Rs. 30000.00 (rupees thirty thousand) per weaver i.e. Rs. 150000.00 (rupees one lakhs fifty thousand) per JLGS has been approved and sanctioned. In the month of March, 2017 each JLG is producing approximately 300 nos of “Gamuchas” and selling price to the dealers is Rs. 150.00 per Gamucha. The total sales value in a month by all the group is Rs. 315000.00 (Rupees three lakhs and fifteen thousand). Therefore sales per weaver per month is = Rs. 9000.00 (rupees nine thousand) when the cost of raw material is Rs. 2000.00 (rupees two thousand) and thus the net income is Rs. 7000.00 (rupees seven thousand) per weaver per month. It is to be noted that there was no income to these weaver before the interventions of CSIR-800.

A brand has been launched in the registered name of “Mohura” and presently all the products are produce under this brand name and sales in the local market. The photograph of the brand “Mohura” is shown on the right:



H. Post training intervention for initial financial assistance and business link-up for the footwear manufacturing activities

The successful trainees are linked with the existing scheme of Department of Industries and Commerce Center (DICC). In this process, they can form some groups under some legal binding and can formally register the group with DICC for make them eligible for the existing schemes.

Out of the trainees completed training successfully on footwear manufacturing under CSIR-800 during 2015-16, one group has successfully registered under DICC, Sonitpur district of Govt. of Assam and started commercial production under the brand mane of “Sangway footwear”. For further development and increasing productivity they have applied under the scheme “Sarothi” for a loan amount of Rs. 5,00,000.00 the group is presently producing children's school show under ladies open footwear. Approximate earning is Rs. 5000-7000/- per person in the group of 5 persons



I. Program on post training intervention for initial financial assistance and business link-up for beneficiaries of CSIR-NEIST technologies

CSIR-NEIST Branch Lab., Itanagar organized a brainstorming meet on 'Post training intervention for initial financial assistance and business link-up' at its premise on 28 March, 2017. The main objective of the program was to set up a business link-up and initial financial assistance to start or implementing CSIR-NEIST technologies by potential entrepreneurs and beneficiaries. It is to be mentioned that under the CSIR 800 program, CSIR-NEIST has been promoting and disseminating few simple technologies suitable for the micro-scale sector of the industry which are simple, easy to operate with low skill and minimum land, labour and capital, and are meant for the unskilled or semi-skilled entrepreneurs. About 60 nos. of farmers, villagers, beneficiaries from different parts of Arunachal Pradesh and North Lakhimpur Assam attended the day-long program along with important personalities from various organizations. Notable among them were Mr Bamang Mangha, Chairman, State Council of Science & Technology, Itanagar; Talo Potom, ADM cum CEO, Itanagar capital Complex; Mr G Angu, Dy Director, Directorate of Industries, Govt. of Arunachal Pradesh; Mr S K Das, Chief Manager, Canara Bank, Itanagar Branch; Dr Debajit Mahanta, Scientist, State Council of Sc & Technology, A.P and Mr B P Saikia, Extension Officer, DIC, Itanagar, Assam, besides CSIR-NEIST fraternity.



A view of the meeting in progress.

Activities under Vermicompost production

CSIR-NEIST branch lab, Itanagar extended training and technical guidance on vermicompost production to a large number of beneficiaries from Arunachal Pradesh and Assam during the period. In order to assist them in the initial stages of production, the branch lab also provided vermiculture to potential entrepreneurs/beneficiaries. Due to the branch lab efforts, three enterprises have started producing vermicompost for commercial purposes.



Vermicompost product selling in three local agencies namely i) PAHARI Organic Fertilizer Centre, Naharlagun, Arunachal Pradesh ii) HARI Om Organic Fertiliser Agency, NLG, A.P. iii) M/S OMMI Enterprises; supplied by the entrepreneurs which was technically support by CSIR-NEIST Branch Itanagar.

Supply of Vermiculture



Dr Pinaki Sengupta, Chief Scientist & Coordinator, Branch lab, handing over vermiculture to an interested beneficiary for installation of commercial vermicompost production unit at Laluk in the post training intervention program organized at NEIST Branch Itanagar on 28 March, 2017

Installation of Mushroom Production Unit

Under technical guidance of CSIR-NEIST Branch, Itanagar, 3 nos. of mushroom production units were set up in different parts of Assam and Arunachal Pradesh. The beneficiaries earned Rs 35,000.00 to 75,000.00 by producing and selling of fresh mushroom during the year 2016-2017. Besides, a new spawn production and Mushroom cultivation unit was established at CSIR-NEIST branch, Itanagar.



Mushroom production unit installed by "ASHWASH" - the ray of hope, Azad, North Lakhimpur, Assam.



Mushroom production unit installed by Sri Ramen Borah at Laluk.

Supply of Mushroom spawn



Dr Pinaki Sengupta, Chief Scientist & Coordinator, Branch lab., handing over mushroom spawn to potential mushroom growers of Naharlagun locality during post training intervention program (CSIR-800 prog.) organized at NEIST Branch Lab Itanagar on 28 March, 2017.

Other training programs organized

Training on cultivation of aromatic plant & distillation technology under CSIR-800 program

Training and awareness program on cultivation of aromatic plant and distillation technology under the CSIR-800 program was organized at NEIST Branch Lab Itanagar premise on 7 March, 2017. About 40 nos. of farmers/villagers/beneficiaries from different part of Arunachal Pradesh and North Lakhimpur Assam attended the program.



Trainees of the program along with branch lab staff

Training on Organic Farming At Branch Lab, Imphal



Demonstration of organic manure preparation



Training program on organic farming on 18 March, 2017 under CSIR-800

Fellowships/Awards

Fellowships

Fellow of the Prestigious National Academy of Sciences (NASI)



Dr D Ramaiah, Director, CSIR-NEIST has been elected Fellow of the Prestigious "National Academy of Sciences (NASI)", India, for his important contributions in synthesizing NIR absorbing squarines, porphyrins, chlorins and aza-BODIPY dyes for studying these as sensitizers and photodynamic therapeutical (PDT) applications.

Awards

Bharat Gaurav Award 2016



Dr H B Singh, Principal Scientist & Scientist-in-Charge, CSIR-NEIST Branch Laboratory, Imphal has been awarded 'Bharat Gaurav Award 2016' by India International Friendship Society, New Delhi on 13 Aug, 2016 for his extraordinary contributions in the field of science, development & communication.

Distinguished Scientist 2016

Dr H B Singh, Principal Scientist & Scientist-in-Charge, CSIR-NEIST Branch Laboratory, Imphal has been awarded "Distinguished Scientist 2016" by Venus International Foundation, Chennai on 3 December, 2016 for his extraordinary contribution in the field of science, development & communication.

Prof. R. C. Tripathy Memorial award



Dr Pitambar Patel, Scientist, CSIR-NEIST, Jorhat has been awarded "Prof. R. C. Tripathy Memorial award" by Orissa Chemical Society (OCS) during 30th Annual conference of Orissa Chemical Society held on 24-25 December, 2016, at KIIT University, Bhubaneswar, Odisha for his contribution in transitions metal catalyst and synthetic methodology development.

Dr R P Bhatnagar Award



Dr B K Saikia, Scientist, CSIR-NEIST, has been awarded the "R P Bhatnagar Award 2015-16" on 20 September, 2016 by the Mining, Geological and Metallurgical Institute of India, Kolkata, for his outstanding contribution in mineral beneficiation during last five years including the current year of award.

NASI Young Scientist Platinum Jubilee Award-2017



Dr Ram Awatar Maurya, Scientist, CSIR-NEIST has been awarded the prestigious "NASI-Young Scientist Platinum Jubilee Award-2017" by the National Academy of Sciences (NASI), Allahabad, India during 86th Annual Session and Symposium on, "Science, Technology and Entrepreneurship for Human Welfare in the Himalayan Region" held at Uttarakhand Technical University, Uttarakhand on 4 December, 2016 for his contributions in the area of chemical sciences.

Official language Implementation Award



Mr Ajay Kumar, Hindi officer, CSIR-NEIST has been awarded for outstanding performance in the field of official language implementation by the Department of Official Language under the Union Ministry of Home Affairs.

44th SSBMT Zonal Tournament (Indoor)-2016 Award

Awardee(s)



Miss Puspa Das,
Technician (I)

Event
Carrom Women
Doubles
Award
Runners-Up



Miss Himadri Das,
Research Fellow

Best Paper/Poster/Oral Presentation Awards

Best Oral Presentation Award

Awardee(s)



Dr Lakshi Saikia, Scientist

Award

Best Oral Presentation Award

Theme Title

"Green Chemistry and Nanocatalysis"

Venue & Date

"7th Asia Pacific Congress on Catalysis" held at hotel The Lalit, Mumbai during 17- 21 January, 2017 by Institute of Chemical Technology, Mumbai and Catalysis Society of India.

Best Poster Award



Dr Swapnali Hazarika,
Senior Scientist



Miss Indumoni Das,
Research Fellow

Award

Best Poster Award

Poster Title

"Role of organic solvents for synthesis of G0 PAMAM dendrimer"

Venue & Date

National Seminar on Recent Developments in Synthesis and Catalysis (RDSC) 2017 held at Dibrugarh University during 10-11 March, 2017 sponsored by UGC-SAP

Best Paper Award

Awardee(s)



Dr Prasenjit Saikia,
Scientist



Dr Binoy Kumar
Saikia, Scientist



Miss Jyotilima Saikia,
Research Fellow

Award

Tamotia Award- IIME Best Paper presented on Environmental Issues related to Mineral Processing

Paper Title

“Ambient air quality and emission characteristics in and around a non-recovery type coke oven using high sulphur coal”

Venue & Date

Indian Institute of Mineral Engineers (IIME) on 01 February, 2017

Membership in Reputed Journals/Association/Forums/Bodies



Member

Dr D Ramaiah, Director, CSIR-NEIST

Membership Details

Editor of Journal of Photo-chemistry and Photobiology B: Biology with effect from 1 April, 2016.



Member

Dr Binoy Kumar Saikia, Scientist, CSIR-NEIST

Membership Details

“Guest Editor” of a special issue on “Indian coal” published by International Journal of Coal Science & technology (Springer).



Member

Dr Prasenjit Saikia, Scientist, CSIR-NEIST

Membership Details

Member of Executive Council of National Environmental Science Academy, New Delhi for period of three years from 16th October, 2016 to 15th October, 2019.



Member

Dr Raju Khan, Senior Scientist, CSIR-NEIST

Membership Details

Expert Member on Scientific Panel, Food Safety and Standards Authority (FSSAI), Govt. of India for the year 2017-2020.

Personal Achievements

- Certificate of honour was conferred to Dr M J Bordoloi for his phenomenal research contribution made in the field of natural products chemistry by the organizing committee of the International Conference on Global Biodiversity, Climate Change and Sustainable Development (ICBCS-2016) held on 15-18 October, 2016 at Rajiv Gandhi University, Rono Hills, Doimukh-791112, Itanagar, Arunachal Pradesh.
- A radio serial entitled “Chinjak oina ishinggi thawai panbashing – edible aquatic animals” written by Dr H B Singh Scientist & in-charge Branch Lab, Imphal under the sponsorship of AIR, New Delhi (13 episodes) was repeat broadcasted by AIR, Imphal w.e.f. Dec 6, 2016 (on weekly basis at 6.40 am).
- An interview of Dr H B Singh on the subject Contributions/service of CSIR-NEIST for the state of Manipur recorded by AIR, Imphal under Science Magazine program was broadcasted from AIR, Imphal on Dec 20, 2016 at 7.00 am.
- Dr B K Saikia, Scientist was recognized as a Reviewer of “Netherlands Organization for Scientific Research”, Netherlands.

Visits Abroad



Dr Jatin Kalita, Scientist visited University of Sri Jayawardenepura, Colombo, Srilanka to participate as a resource person in Farmers Programmes held during 06-11 March, 2017.



Dr Dipanwita Banik, Scientist visited Biomelecular Technology Group, Hawthorn Building HBI.12, De Monfort University, The Gateway, Leicester, LE1 9BH, UK



Dr Archana Moni Das, Scientist visited University of Ontario Institute of Technology, Canada during 15 July 2016 - 22 January, 2017



Dr S P Saikia, Sr Scientist visited University of Sri Jayawardenepura, Colombo to participate as a resource person in Farmers Programmes held during 06-11 March, 2017.



Dr Manash R Das, Scientist visited Nikolaev Institute of Inorganic Chemistry, Novosibirsk, Russia during 09-22 November, 2016.



Dr Pinaki Sengupta, Chief Scientist visited Nikolaev Institute of Inorganic Chemistry, Novosibirsk, Russia during 09-22 November, 2016.



Dr Saurabh Baruah, Sr. Principal Scientist & Head GSTD, visited Directorate of Geology and Mines, Ministry of Economic Affairs, Royal Government of Bhutan, Thimphu to participate in the workshop on "Understanding seismic hazard and Risk Reduction Initiatives in Bhutan" sponsored by World Bank during 21-25 November, 2016.



Ms Gitashree Darabdhara, successfully participated in the 9th HOPE Meeting with Nobel Laureates held at Tokyo International Forum, Tokyo, Japan from 26 February – 2 March, 2017 and organized by Japan Society for the Promotion of Science (JSPS). She is amongst nine other Indian participants selected to take part in the meetings.

Fellowship

Sl. No	Name of staff	Name of fellowship received	Name of awarding body/org.	Purpose	Duration
1.	Dr Diapnwita Banik	DBT's Overseas Associateship	Department of Biotechnology, Govt. of India	For Post Doctoral research	1 year
2.	Dr Archana Moni Das	DBT's Overseas Associateship	Department of Biotechnology, Govt. of India	For Post-Doctoral Research	6 months from July, 2016 -January, 2017
3.	Dr Satyabrat Gogoi	National Post Doctoral Fellow	(SERB-DST)	R&D	2 Year & 1 Year expendable
4.	Dr Madhulekha	National Post Doctoral Fellow	(SERB-DST)	R&D	2 Year & 1 Year expendable

Training Attended

Sl. No	Title of Programme	Organizers details & duration / date	Name, Designation & Department of the staff
1	Training on Socio-Economic Input Assessment of R&D outcomes	CSIR-Human Resource Development Centre, Ghaziabad during 26-28 April, 2016.	Mr Dipankar Neog, Sr. Scientist, ESTD
2	Geo-informatics in earthquake Studies (MoES Sponsored)	Dept of Earth Science & Dept of Earthquake Engineering, IIT-Roorkee during 1-5 November, 2016	Mr Gautam Boruah ,Project Assistant (L-II), GSTD
3	Geo-informatics in earthquake Studies (MoES Sponsored)	Dept of Earth Science & Dept of Earthquake Engineering, IIT-Roorkee during 1-5 November, 2016	Mr Devakrishan Gogoi, Project Assistant (L-II), GSTD
4	Hands on training and workshop on “Biological Applications of Next Generation Confocal Laser Scanning Microscopy”	Carl Zeiss India Ltd., IIT Guwahati during 17-18 November, 2016	Dr C Chikkaputtaiah, Senior Scientist, BSTD
5	Induction Training Program for Scientist at CSIR-HRDC	CSIR-HRDC, Ghaziabad during Feb 6-15, 2017	Dr P Yuvaraj, Scientist, Branch Lab Imphal
6	Induction Training Program for Scientist at CSIR-HRDC	CSIR-HRDC, Ghaziabad during Feb 6-15, 2017	Dr Natarajan Velmurugan, Scientist, Branch Lab Itanagar
7	Induction Training Program for Scientist at CSIR-HRDC	CSIR-HRDC, Ghaziabad during Feb 6-15, 2017	Mr Dhanjit Das, Scientist, ESTD

List of various Skill Development Training Imparted

Sl.No	Title of training	No of beneficiaries/ participants and their affiliation	Salient features	Organized by and date	Funding agency
1	Training programme on 'cultivation of mushroom'	22	Demonstration and hands-on training on cultivation practice	CSIR-NEIST Branch, Itanagar on 10 June, 2016	----
2	Teachers training program on chemistry	33 teachers from Manipur Govt. schools.	Techniques of chemistry education	In collaboration with Royal Chemistry India Foundation, Bengaluru during Jul 21-22, 2016	Royal Chemistry India Foundation, Bengaluru
3	Training programme on 'Vermiculture and vermicompost production'	10	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 05 Aug, 2016	---
4	Training programme on 'Vermiculture and vermicompost production'	10	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 10 Aug, 2017	
5	Training programme on 'cultivation of mushroom'	46	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 20 Aug, 2016	----
6	Training programme on 'cultivation of mushroom'	60	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 23 Aug, 2016	----
7	Training programme on 'cultivation of mushroom'	30	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 02 Oct, 2016	----
8	A project on 'Earthquake Alarming System'	3 Nos of students, Pragati ME School, Titabar	24 th National Children Sciences Congress (NCSC)	By GSTD 06 Oct, 2016	----

9	Training programme on 'cultivation of mushroom'	12	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 02 Nov, 2016	-----
10	Training programme on 'cultivation of mushroom'	8	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 11 Nov, 2016	-----
11	Training programme on 'cultivation of mushroom'	20	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 06 Dec, 16	-----
12	Training programme on 'cultivation of mushroom'	31	Demonstration and hands-on training on cultivation practice	Organised jointly by CSIR-NEIST Branch Itanagar & 'ASHWASH' – the ray of hope, Azad on 17 Dec, 2016	-----
13	Training programme on 'cultivation of mushroom'	20	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 30 Dec, 16	-----
14	Training programme on 'cultivation of mushroom'	15	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 17 Jan, 2017	-----
15	Training programme on "cultivation of mushroom"	11	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 18 Jan, 17	-----
16	Training on 'Mushroom Spawn preparation & Cultivation Technology', UNDER CSIR-800 prog.	61	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 09 Feb, 17	-----

17	Training programme on 'Vermiculture and vermicompost production'	56	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Itanagar on 10 Feb, 2017	-----
18	Training programme on Organic farming	40 Nos. of progressive farmers	Demonstration and hands-on training on cultivation practice	Organised by CSIR-NEIST Branch Imphal on Mar 18, 2017	CSIR
19	Training programme on Aroma sector & banana fibre	67 Nos. of farmers / artisans	Techniques of lemongrass, citronella cultivation	Organised by CSIR-NEIST Branch Imphal during 22-23 Mar, 2017	CSIR
20	Summer Training	121 Nos. of students from various Govt/Pvt Institutions.	Hands-on training on R&D activities	CSIR-NEIST	-----
21	Winter Training	80 Nos. of students from various Govt/Pvt Institutions.	Hands-on training on R&D activities	CSIR-NEIST	-----
22	Apprenticeship Training	25 Nos of Students of ITI, Govt. Of Assam	One Year Practical Training on Different Trades	CSIR-NEIST	-----

Projects Undertaken (Externally Funded)

SI No.	PI & Title	Project code with Funding Agency	Contract Value(Rs in Lakhs)
1	Dr U N Gupta Feasibility study on High Pressure Catalytic Conversion of Non-Coking Coals to produce Synthetic Coking Coal.	No. CLP0287 Tata Steel Ltd Jamshedpur, Jharkhand	19.420
2	Dr H B Singh Development of green campus in schools of Manipur, Northeast India	No. GPP0310 G B Pant Institute of Himalayan Environment and Sustainable Development	9.845
3	Dr R M Devi(WOS-A) Tectonic evolution of mishmi thrust in mishmi metamorphic complex in the eastern syntaxial bend with reference to with reference to morphotectonic and neotectonic implications in Arunachal Himalaya	No. GPP0311 Min. of Science & Technology	26.850
4	Dr Mohan Lal Characterization and Chemical Composition of High Yielding Varieties of Amada Haldi (Curcuma zedoaria Rose) and Kali Haldi (Curcuma caesia Roxb): Endangered High Value Medicinal Plants'	No. GPP0312 National Medicinal Plants Board (hereinafter referred to as NMPB), Ministry of AYUSH, Government of India	29.766
5	Dr Ram Awatar Maurya Green, sustainable and flash chemistry using flow Microreactors	No. GPP0313 SERB(DST), Min of Science & Technology	6.235
6	Dr S P Saikia Process development and optimization for production of in-situ generated Vitamin-D fortified mushrooms	No. GPP0314 BCIL(DBT), Min. of Science & Technology	38.290
7	Dr Biswajit Saha Catalytic Evaluation of Cooperative and Red-Ox Non-Innocent Metal-Complexes in Organic Transformations	No. GPP0315 SERB(DST), Min of Science & Technology	29.370
8	Dr Manash Ranjan Das Reduced Graphene Oxide Nanosheets Decorated with Metallic/Bimetallic Nanoparticles: A Multifunctional Materials for Photothermal Therapy of Cancer Cells	No. GPP0316 Biotech Consortium India Limited,	50.270

9	Dr B S Bhau Application of DNA barcoding to detect contamination and substitution from different herbal products available in the market	No. GPP0317 Food Safety & Standards Authority of India(FSSAI), Ministry of Health and Family Welfare, Govt Of India	50.000
10	Dr Raju Khan Nanoparticles Supported Self Assembled Conducting Polymer Monolayer based Platform for Rapid Detection of Monosodium Glutamate in Food Products.	No. GPP0318 Biotech Consortium India Limited,	54.400
11	Dr D Ramaiah Development of novel NIR absorbing sensitizer and their Nanoconjugates for multimodal cancer imaging and therapy	No. GPP0319 Biotech Consortium India Limited	61.080
12	Dr Subrata Ghosh Nanobot: A mechanical -drug Technology based dendritic drug for cancer treatment	No. GPP0320 SERB(DST), Min of Science & Technology	35.260
13	Dr Lakshi Saikia Novel magnetically separable 2D graphitic carbon nitride nano composite for photocatalytic degradation of dyes for environmental remediation of textile industry effluent	No. GPP0321 SERB(DST), Min of Science & Technology	23.069
14	Dr H P Dekaboruah Potentially novel carbohydrases (Cellulose and related enzymes) for waste management from functional metagenome library of North East biodiversity hotspot.	No. GPP0322 Biotech Consortium India Limited	33.360
15	Dr N Velmurugan Expanding endophytes of paris polyphylla as a model to study co-evolution relationships with emphasis on functional metabolites production.	No. GPP0323 SERB(DST), Min of Science & Technology	43.790
16	Dr C Chikkaputtaiah Development of multiple abiotic and biotic stress resistance in Tomato (Solanum lycopersicum L.) crop model through dual-gene multiplex CRISPR/ Cas9 Genome Editing System.	No. GPP0324 SERB(DST), Min of Science & Technology	36.500

Projects Completed (Externally Funded)

SI No.	Project code with Funding Agency	P.I Name & Project Title	Project Cost (in lakhs)
1	No. CNP0470 Numaligarh Refinery Limited	Mr Sanjay Deori Soil investigation work for LPG Mounded Bullets.	35.011
2	No. GAP0739 Min of Science & Technology	Ms Sukanya Bezboruah INSPIRE Fellowship program for pursuing full time doctoral(Ph.D) program in CSIR-NEIST, Jorhat	3.500
3	No. GPP0274 Min. of Science & Technology	Mr Chandan Tamuly, Sc Exploration & utilization of wild edible plants consumed by ST people of Arunachal Pradesh for socio economic development of the State.	15.222
4	No. GPP0278 Min. of Science & Technology	Dr Dipak Kumar Dutta Potential Rhodium complexes of functionalized phosphines and nitrogen donor ligands: Synthesis, reactivity and catalyst carbonylation of alcohols	34.500
5	No. GPP0279 Min. of Science & Technology	Dr Pulok J Bhuyan Sustainable chemistry in the synthesis of some novel functionalized coumarines and assay for their potential biological activity.	30.100
6	No. GPP0281 Min. of Science & Technology	Dr Sonali Roy Correlation of cellular thiol balance and oxidative/hypoxic apoptosis in liver damage: Regulatory mechanism underlying denovo glutathione synthesis mediated by gcl gene expression.	25.000
7	No. GPP0282 Min. of Science & Technology	Dr Jatin Kalita, JS Motivational programme for talented school students.	13.742
8	No. GPP0284 Min. of Science & Technology	Sri Sanjay Deori, SS Performance evaluation of river Brahmaputra bed materials for use in construction of road embankment, sub-grade and sub-base.	23.752

9	No. GPP0292 Min. of Science & Technology	Dr Ratul Saikia, SS Mining the Metagenome for Bacterial Diversity in Extreme Areas of North East India.	32.120
10	No. GPP0295 Min. of Science & Technology	Mr Sanjay Deori Development of methodology for manufacturing modular bricks from river Brahmaputra River bed material.	No. GPP0295 Min. of Science & Technology

Projects Ongoing (Externally Funded)

Sl No.	Project code with Funding Agency	P.I Name & Project Title	Project Cost (in lakhs)
1	No. CLP0285 Min of Micro, Small & Medium Enterprises.	Mr Jayanta Jyoti Bora Development of appropriate product by studying the possible use of coir dust in oil industry with reference to North East India for absorption of oil spill.	53.130
2	No. CLP0286 Min of Micro, Small & Medium Enterprises.	Dr Jatin Kalita Development of commercial bioformulation of Plant Growth Promote Rhizobacteria (PGPR) using coir pith as carrier.	22.149
3	No. CLP0287 Tata Steel Ltd Jamshedpur, Jharkhand	Dr U N Gupta Feasibility study on High Pressure Catalytic Conversion of Non-Coking Coals to produce Synthetic Coking Coal.	19.420
4	No. CNP0468 Numaligarh Refinery Limited	Dr Mantu Bhuyan Butterfly and plant interaction studies in NRL Butterfly Valley at Township.	14.540
5	No. CNP0469 Promak Technologies & Services, Jorhat	Mr. Dipankar Neog, Sc Design of superstructure for rural sanitation solutions made of HDPE/LLDPE/Similar materials.	0.565
6	No. CNP0470 Numaligarh Refinery Limited	Mr Sanjay Deori Soil investigation work for LPG Mounded Bullets.	35.011
7	No. GAP0200 DBT, Bioinformatics Division, New Delhi.	Dr Ratul Saikia, SS Creation of Bioinformatics infrastructure facility (BIF) for the promotion of biology teaching through bioinformatics (BTBI) a scheme of BTISnet.	35.890
8	No. GAP0214 Min. of Science & Technology, DSIR, New Delhi.	Mr Dipankar Neog, Sc Technopreneur Promotion Programme (TePP) Outreach Centre (TUC)-(11 FYP). Promoting innovations in individuals, startups and MSMES (PRISM)-(12-FYP).	26.240
9	No. GAP0232 Min. of Science & Technology	Mr Dipankar Neog, Sc Council of Science and Technology for Rural India Centre at NEIST, Jorhat (CSTRI Centre-NEIST.	40.020

10	No. GAP0246 Biotech Consortium India Limited	Dr Ratul Saikia, SS Establishment of Institutional Biotech Hubs (IBThubs) by DBT under special programme for North Eastern States of India.	39.000
11	No. GPP0274 Min. of Science & Technology	Mr Chandan Tamuly, Sc Exploration & utilization of wild edible plants consumed by ST people of Arunachal Pradesh for socio economic development of the State.	15.222
12	No. GPP0275 North East Council	Dr Saurabh Baruah, SPS Seismic Vulnerability Assessment of Major Cities in North-Eastern India	184.250
13	No. GPP0276 Min. of Science & Technology	Dr(Mrs) Swapnali Hazarika Development of Molecular Gate Membrane for CO ₂ Separation.	33.318
14	No. GPP0277 Min. of Science & Technology	Dr SB Wann, PS Comparative antimicrobial activity and molecular characterization of Clerodendrum species of Thailand & India.	8.850
15	No. GPP0278 Min. of Science & Technology	Dr Dipak Kumar Dutta Potential Rhodium complexes of functionalized phosphines and nitrogen donor ligands: Synthesis, reactivity and catalyst carbonylation of alcohols	34.500
16	No. GPP0279 Min. of Science & Technology	Dr Pulok J Bhuyan Sustainable chemistry in the synthesis of some novel functionalized coumarines and assay for their potential biological activity.	30.100
17	No. GPP0280 Min. of Science & Technology	Dr SC Nath, CS Economic and bio geographic evaluation of the Cinnamomum Species in some selected parts of India through morphological, chemical and molecular biology studies	54.800
18	No. GPP0281 Min. of Science & Technology	Dr Sonali Roy Correlation of cellular thiol balance and oxidative/hypoxic apoptosis in liver damage: Regulatory mechanism underlying de novo glutathione synthesis mediated by gcl gene expression.	25.000

19	No. GPP0282 Min. of Science & Technology	Dr Jatin Kalita, JS Motivational programme for talented school students.	13.742
20	No. GPP0283 Min. of Science & Technology	Mr Dipankar Neog, Sc Setting up of A Common Facility Centre (CFC) on Weaving and Textile Product manufacturing.	127.692
21	No. GPP0284 Min. of Science & Technology	Sri Sanjay Deori, SS Performance evaluation of river Brahmaputra bed materials for use in construction of road embankment, sub-grade and sub-base.	23.752
22	No. GPP0286 Min. of Science & Technology	Dr(Mrs) Archana Moni Das Sustainable and biodegradable hybrid nanocomposites as bio-integrated materials for advanced functional applications.	27.500
23	No. GPP0290 Min. of Science & Technology	Dr BG Unni, CS Isolation and characterization of antifungal peptides from Muga Silkworm <i>Antheraea assamensis</i> Helfer.	10.800
24	No. GPP0291 Min. of Science & Technology	Dr Ratul Saikia, SS DNA Fingerprinting of Lignocellulose degrading microbes isolated from protected forest areas of Assam and Mizoram.	41.832
25	No. GPP0292 Min. of Science & Technology	Dr Ratul Saikia, SS Mining the Metagenome for Bacterial Diversity in Extreme Areas of North East India.	32.120
26	No. GPP0293 Min. of Science & Technology	Dr Pranjal Gogoi, Sc Tandem Suzuki cross-coupling reactions: Synthesis of fused heterocycles and carbocycles.	14.000
27	No. GPP0294 Min. of Science & Technology	Dr Saurabh Baruah, SPS Setting up of the Multiparametric Geophysical Observatory for monitoring of Earthquake precursor in Mikir Hills Plateau, Assam.	405.243
28	No. GPP0295 Min. of Science & Technology	Mr Sanjay Deori Development of methodology for manufacturing modular bricks from river Brahmaputra River bed material.	26.008

29	No. GPP0296 Min. of Science & Technology	Dr R L Goswamee Small Community Level Low Cost Process from Local Biomass for Iron and Flouride Removal from Bore Well Water of Assam (LOCAL-Mass).	30.332
30	No. GPP0297 Min. of Science & Technology	Mrs A Sengupta An investigation into intellectual property management practices at research institutes and universities of NE India and preparation of a wish-list of technologies required for North East	5.000
31	No. GPP0298 Min. of Science & Technology	Dr Kalpataru Dutta Mudoi Raising of clonal microgarden and validation of microclones of Assam Teak (<i>Phoebe goalparensis</i> Hutchinson) through multilocal trials in selected areas of NE Region.	9.730
32	No. GPP0299 Min. of Science & Technology	Dr Pallab Pahari Studies towards the synthesis of spirocyclic natural products.	27.860
33	No. GPP0300 Min. of Earth Sciences	Ms Sangeeta Sharma Estimation of ground motion parameters in Shillong Mikir Hills Plateau from acceleration time history of earthquake events originated in NE India.	8.900
34	No. GPP0301 Min. of Science & Technology	Dr Manash Ranjan Das Metal nanoparticles on graphene, h-BN and low dimensional (2D) transition metal chalcogenides.	16.868
35	No. GPP0302 Min. of Science & Technology	Dr Santanu Baruah Crustal Anisotropy studies for Shillong-Mikir Plateau with subsequent determination of velocity structure of NE India.	8.640
36	No. GPP0303 Min. of Science & Technology	Dr Sanjib Gogoi Transition metal catalyzed C-H bond activation and functionalization for the synthesis of N, O, P and S containing heterocycles.	23.280
37	No. GPP0304 Min. of Science & Technology	Dr Mohan Lal Genetic improvement in Java Citronella (<i>Cymbopogon winterianus</i> Jowitt.) A commercially prospective plant species for superior oil yield and quality.	23.040

38	No. GPP0306 Min. of Science & Technology	Dr Rupak Kumar Sarma Linking plant-microbe interactions to understand sediment denitrification function of eutrophic urban wetland ecosystem.	38.600
39	No. GPP0307 Min. of Science & Technology	Dr Krishnamoorthy Ganesan Design of a photoresponsive chitosan nanogel to regulate CXCR4 signalling through slow release of SDF-1 in the myocardium	36.700
40	No. GPP0308 Min. of Science & Technology	Dr Manoj Kumar Phukan Site Characterization and Seismic Vulnerability Studies of Greater Shillong.	19.800
41	No. GPP0310 G B Pant Institute of Himalayan Environment and Sustainable Development	Dr H B Singh Development of green campus in schools of Manipur, Northeast India	9.845
42	No. GPP0311 Min. of Science & Technology	Dr R M Devi(WOS-A) Tectonic evolution of mishmi thrust in mishmi metamorphic complex in the eastern syntaxial bend with reference to with reference to morphotectonic and neotectonic implications in Arunachal Himalaya	26.850
43	No. GPP0312 National Medicinal Plants Board (hereinafter referred to as NMPB), Ministry of AYUSH, Government of India	Dr Mohan Lal Characterization and Chemical Composition of High Yielding Varieties of Amada Haldi (Curcuma zedoaria Rose) and Kali Haldi (Curcuma caesia Roxb): Endangered High Value Medicinal Plants'	29.766
44	No. GPP0313 SERB(DST), Min of Science & Technology	Dr Ram Awatar Maurya Green, sustainable and flash chemistry using flow Microreactors	6.235
45	No. GPP0314 BCIL(DBT), Min. of Science & Technology	Dr S P Saikia Process development and optimization for production of in-situ generated Vitamin-D fortified mushrooms	38.290
46	No. GPP0315 SERB(DST), Min of Science & Technology	Dr Biswajit Saha Catalytic Evaluation of Cooperative and Red-Ox Non-Innocent Metal-Complexes in Organic Transformations	29.370
47	No. GPP0316 Biotech Consortium India Limited,	Dr Manash Ranjan Das Reduced Graphene Oxide Nanosheets Decorated with Metallic/Bimetallic	50.270

		Nanoparticles: A Multifunctional Materials for Photothermal Therapy of Cancer Cells.	
48	No. GPP0317 Food Safety & Standards Authority of India(FSSAI), Ministry of Health and Family Welfare, Govt Of India.	Dr B S Bhau Application of DNA barcoding to detect contamination and substitution from different herbal products available in the market	50.000
49	No. GPP0318 Biotech Consortium India Limited,	Dr Raju Khan Nanoparticles Supported Self Assembled Conducting Polymer Monolayer based Platform for Rapid Detection of Monosodium Glutamate in Food Products.	54.400
50	No. GPP0319 Biotech Consortium India Limited,	Dr D Ramaiah Development of novel NIR absorbing sensitizer and their Nanoconjugates for multimodal cancer imaging and therapy	61.080
51	No. GPP0320 SERB(DST), Min of Science & Technology	Dr Subrata Ghosh Nanobot: A mechanical -drug Technology based dendritic drug for cancer treatment	35.260
52	No. GPP0321 SERB(DST), Min of Science & Technology	Dr Lakshi Saikia Novel magnetically separable 2D graphitic carbon nitride nano composite for photocatalytic degradation of dyes for environmental remediation of textile industry effluent	23.069
53	No. GPP0322 Biotech Consortium India Limited	Dr H P Dekaboruah Potentially novel carbohydrases (Cellulose and related enzymes) for	33.360
54	No. GPP0323 SERB(DST), Min of Science & Technology	Dr N Velmurugan Expanding endophytes of paris polyphylla as a model to study co-evolution relationships with emphasis on functional metabolites production.	43.790
55	No. GPP0324 SERB(DST), Min of Science & Technology	Dr C Chikkaputtaiah Development of multiple abiotic and biotic stress resistance in Tomato (Solanum lycopersicum L.) crop model through dual-gene multiplex CRISPR/ Cas9 Genome Editing System.	36.500
56	No. GPP0327 G B Pant Institute of Himalayan Environment and Sustainable Development	Dr H B Singh Anthropogenic impacts and their management options in different ecosystems of the Indian Himalayan Region.	33.770

TECHNOLOGIES/PROCESSES DEVELOPED

High yielding variety of Citronella (Jor Lab C-5)



Citronella plantation at CSIR-NEIST experimental farm

Citronella or Java Citronella (*Cymbopogon winterianus*, Jowitt) is a perennial grass belonging to the family Poaceae. The plants are 2-2.5 m in height, perennial herbs with fibrous root system. The Citronella oil is used extensively as a source of perfumery chemicals such as citronellal, citronellol and geraniol. These chemicals find extensive use in soap, candles and incense, perfumery, cosmetic and flavouring industries throughout the world.

High yielding variety of Lemongrass (Jor Lab L-8)

Lemongrass (*Cymbopogon flexuosus*) is one of the traditional essential oil bearing plant belonging to the family poaceae. The oil is obtained from certain species of grasses of the genus Cymbopogon. The genus consists of about 80 species, 10 to 12 of which are known to occur in India. The value of Lemongrass oil depends entirely upon its citral content. Lemongrass is a plant of the humid tropics. Lemongrass oil is one of the important essential oils used in fragrance and flavour industries. The oil has high market demand in India and abroad.



Lemongrass plantation at CSIR-NEIST experimental farm

Herbal Mosquito Repellent Candle



Mosquito repellent candle developed by CSIR-NEIST

Mosquito repellent candle is another product developed by CSIR-NEIST which is effective in repelling mosquitoes and as well as produces subtle fragrance while burning. oil has high market demand in India and abroad. This is a 3 in 1 product which provides light, fragrance and helps in repelling mosquitoes. The candles can be used in indoor and outdoor conditions. The Potential customers may include Bio-pesticide companies, MSME and other interested companies

Technology for extraction and purification of Oxyresveratrol



Oxyresveratrol

Oxyresveratrol is an important organic compound with multi-faceted uses. It is naturally found in the bark of *Artocarpus lakoocha* Roxb. Oxyresveratrol has potential anti-cancerous as well as neuroprotective properties against neurodegradation in Alzheimer's disease. It can be used as skin brightener. CSIR-NEIST has developed a process for production of oxyresveratrol as trans isomer with a purity of 99%. The process involves use of indigenously developed membrane and a green solvent. It is cost effective and environmentally benign process. It is a well known fact that high purity products (Trans-isomers) has greater demand in chemicals and pharma market.

Modular Brick from Brahmaputra River Bed Sand



*Modular Bricks from
Brahmaputra River bed sand*

Modular bricks are generally used in construction of building structures, boundary wall and foundations, etc. They can be used as an alternative building material in place of traditional burnt clay bricks. CSIR-NEIST has developed a unique process for production of modular bricks using Brahmaputra River bed sand. The process utilizes Brahmaputra River bed sand as main constituent and Ordinary Portland Cement (OPC) as binding material. The process is fuel saving [process and it does not require any coal and wood for burning unlike traditional burnt clay bricks. The bricks have high compressive strength, heat resistant, light weight and less water absorption. The Potential customers may include Brick manufacturing companies, construction companies and other interested companies

TECHNOLOGIES/PROCESSES RELEASED TO THE INDUSTRY

Know-how	Party/Industry
1. Herbal Anti-Arthritis Formulation	<ul style="list-style-type: none"> • M/s Kudos Laboratories India, New Delhi • M/s Multani Pharma Ltd, New Delhi • M/s Altis Life Sciences, Himachal Pradesh
2. Liquid Deodorant cleaner Technology.	<ul style="list-style-type: none"> • M/s DSP Agrofoods & Chemical Industries, Bhubaneswar.
3. Herbal Mosquito Repellent Wax candle.	
4. Wood Care Formulation.	
5. Solid Deodorant cleaner Technology	

TECHNOLOGY TRANSFER AGREEMENTS SIGNED

CSIR-NEIST transferred herbal Anti-Arthritis technology for commercial production



Dr D Ramaiah, Director, CSIR-NEIST handing over the Know-how package on herbal Anti-Arthritis formulation to Mr G C Goomar, Kudos Laboratories India, in presence of officials from Kudos Laboratories and CSIR-NEIST.



Dr D Ramaiah, Director, CSIR-NEIST handing over the Anti-Arthritis technology package to Mr Rajnish Jha, General Manager, M/s Altis Life Sciences, Himachal Pradesh (left) and to Mr Sanjay Kumar, Chief Manager, Multani Pharma Ltd., New Delhi (right) flanked by CSIR-NEIST team.

CSIR-NEIST transferred four technologies for commercial production



Dr D Ramaiah, Director, CSIR-NEIST handing over the wood care technology package to Mr Dileswar Pradhan, CEO, M/s DSP Agro-foods & Chemical Industries, Bhubaneswar, in presence of the technology team members. Mr Dileswar Pradhan took 4 technologies namely Woodcare Formulation, Solid Deodorant & Freshener, Liquid Deodorant & Cleaner and Herbal Mosquito Repellent Wax Candle from CSIR-NEIST in 2016.

Patents

Granted India

1.	Title	A Process for making Reactive Pozzolana for Use as a Mineral Admixture in Cement
	Patent No	277961
	Inventors	Prakash Chandra Borthakur, Dipak Bordoloi
	Date of Grant	07/Dec/2016
2.	Title	An Improved Process for the Preparation of Phenylacetic Acid and its Ester From Benzyl Alcohol Using Rhodium Carbonyl Complexes containing Nitrogen Donor Ligands
	Patent No	274996
	Inventors	Dipak Kumar Dutta, Manab Sharma, Pratap Chutia
	Date of Grant	17/Aug/2016
3.	Title	Process for the Preparation Of 4-(4-Hydroxyphenyl)Butan-2-One From Phenol and 4 -Hydroxybutan-2-One Using Solid Acid Clay Catalyst
	Patent No	274752
	Inventors	Dipak Kumar Dutta, Madan Gopal Pathak
	Date of Grant	08/Aug/2016
4.	Title	A Device for the Collection of Essential Oils from Hydro Distillation of Aromatic Plant Materials
	Patent No	272826
	Inventors	Jibon Ch Sarma Katakya, Subhan Ch Nath, Nabin Saikia
	Date of Grant	28/Apr/2016

Filled in India

1.	Title	A Method for the Preparation of Silica Mg -Al Ldh Core Shell Derived Mixed Metal Oxide Nano-Sheet Based Composite Catalyst for Decomposition of N ₂ O in Synthetic Automobile Exhaust Condition
	Application No	201611022222
	Inventors	Rajib Lochan Goswamee, Pinky Saikia, Angana Borah, Nguadi Blaise Allou
	Filling Date	29/Jun/2016

2.	Title	A New Class of NiO-Nanocellulose Hybrid Nanocomposites for their Antibacterial and Antifungal Activities
	Application No	201611009445
	Inventors	Archana Moni Das, Manash Protim Hazarika, Debjani Baruah, B S Bhau, Purnajyoti Deka Bhuyan, Bitupon Borah
	Filling Date	05/Jul/2016
3.	Title	A Process for the Synthesis of Membrane Useful for Carbon Dioxide Separation
	Application No	201611023590
	Inventors	Swapnali Hazarika, Panchali Bharali, Hirok Jyoti Borah, Indumoni Das, Somiron Borthakur, Modon Mohan Bora, Dilip Konwar
	Filling Date	11/Jul/2016
4.	Title	A Process for the Preparation of Flexible Leather Substitute From Leather Industry Waste Blended with Microbial Treated Jute Fibre
	Application No	201611029465
	Inventors	Pallav Saikia, Niren Kumar Dutta, Tridip Goswami
	Filling Date	30/Aug/2016
5.	Title	Enhancement of Production of Eri Silk Aided by Spherical Gold Nanoparticles
	Application No	201611031948
	Inventors	Mantu Bhuyan, Rakhi Paul Bhattacharjee, Priyanka Bhuyan, Lakshi Saikia, Sanjoy Kumar Chanda, Pinaki Sengupta, Dipak Kumar Dutta
	Filling Date	20/Sep/2016
6.	Title	Membrane Based Process for Separation And Purification of Edible Natural Dyes
	Application No	201711001422
	Inventors	Modon Mohan Bora, Somiron Borthakur, Swapnali Hazarika, Danaboyina Ramaiah
	Filling Date	13/Jan/2017
7.	Title	A Process for the Preparation of Blue-Fluorescence Emitting Carbon Dots (Cdts) from Sub-Bituminous Tertiary High Sulfur Indian Coals
	Application No	201711007354
	Inventors	Binoy Kumar Saikia, Tonkeswar Das, Sonali Roy, Bardwi Narzary, Hari Prasanna Deka Boruah, Manobjyoti Bordoloi, Jiumoni Lahkar, Dipankar Neog, Danaboyina Ramaiah
	Filling Date	02/Mar/2017

Filled in Foreign Countries

1.	Title Application No Inventors Filling Date	A Process for the Preparation of Resin Coated Bauxite Proppants 15/109,147 Dipak Kumar Dutta, Pinaki Sengupta, Kokil Saikia, Podma Pollov Sarmah, Ankana Phukan 30/Jun/2016
2.	Title Application No Inventors Filling Date	An Eco -Friendly Process for the Preparation of Vanillin From Ipomea Carnea PCT/IN2017/050064 Archana Moni Das, Manash Protim Hazarika, Monmi Goswami 16/Feb/2017
3.	Title Application No Inventors Filling Date	A NiO -Nanocellulose Hybrid Nanocomposites for their Antibacterial and Antifungal Activities PCT/IN2017/050099 Archana Moni Das, Manash Protim Hazarika, Debjani Baruah, B S Bhau, Purnajyoti Deka Bhuyan, Bitupon Borah 18/Mar/2017

Papers Published

International

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Visitors

1. Dr Mrs Primerose R Sharma, IFS, Ambassador of India to Portugal (ex) visited the Branch Laboratory, Imphal for discussion on bioresource mobilization and herbal garden in Ukhrul district, Manipur on 18 May, 2016.
2. Dr Ch Mohan Rao, Former Director, CSIR-Centre for Cellular and Molecular Biology, Hyderabad visited and delivered the Technology Day Lecture on 11 May, 2016.
3. Mr P R Guishinang, Vice Chairman, Autonomous District Council, Tamenglong, Manipur visited the Branch Laboratory, Imphal for Discussion on sustainable management of bioresources in Tamenglong district, Manipur on 24 Oct, 2016.
4. Mr N Praveen Singh, IAS, Director, Education Dept, Manipur visited the Branch Laboratory, Imphal on the occasion of 2-day teachers training program at the BLIM during 21-22 Jul, 2016.
5. Mr Uttam C Laisram, Director, Science & Technology, Manipur Govt. visited the Branch Laboratory, Imphal on the occasion of 2-day teachers training program at the BLIM during 21-22 Jul, 2016.
6. Dr Lokho Puni, IFS, Chief Conservator of Forest, Govt of Manipur visited the Branch Laboratory, Imphal for consultation for formation of projects on 15 September, 2016.
7. Padma Shri Prof Goverdhan Mehta, FNA, FRS, President of International Union of Pure and Applied Chemistry visited and delivered the Foundation Day Lecture 24 September, 2016.
8. Mr Ksh Bhabananda Singh, President, BJP Manipur State (presently MP, Rajya Sabha) visited the Branch Laboratory, Imphal for discussion for possible development of Manipur in bioresource sector on 8 November, 2016.
9. Bharat Ratna Professor C N R Rao, National Research Professor, Linus Pauling Research Professor & Honorary President, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore visited CSIR-NEIST on 21 December, 2016 and delivered a special lecture on '*Photochemical and thermochemical splitting of water*' at Dr J N Baruah auditorium.
10. Mr Srinivas Lanka, a thought leader in the field of Pharmaceuticals in India and mentor to various In-dustrialists, Corporate Boards and Government of India Initiatives visited CSIR-NEIST during 4-6 January, 2017.
11. Dr P G Rao, Vice Chancellor, University of Science & Technology, Meghalaya (USTM) & Dr R Ravi, Air Commodore, Air Force Hospital, Jorhat visited CSIR NEIST as Chief Guest and Guest of Honour respectively and delivered on National Science Day Lecture on 28 February, 2017.
12. Dr R K Nimai, IAS, Consultant, Govt of Manipur visited the Branch Laboratory, Imphal as chief

guest in “Awareness program on development of green campus in schools” organized on 7 March, 2017.

13. Dr Y Pandey, Assistant Director/Head, Regional Centre of Organic Farming, visited the Branch Laboratory, Imphal and attended a training program on organic farming on 18 March, 2017.
14. Padma Bhushan Dr T Ramasami, former Secretary, Department of Science & Technology, Ministry of Science & Technology, Govt. of India and former DG-CSIR visited CSIR NEIST and delivered 56th CSIR-NEIST Foundation Day Lecture on 20 March, 2017.
15. Mr Th Mahendra Pratap Singh, Chief Conservator of Forest, Govt of Manipur, Govt. of Manipur visited the Branch Laboratory, Imphal and attended a training program on aroma sector and banana fibre on 22 March, 2017.
16. Dr A Guneshwor Sharma, State AYUSH Officer / Member Secretary, Manipur State Medicinal Plants Board visited the Branch Laboratory, Imphal and attended a training program on aroma sector and banana fibre on 22 March, 2017.

Personnel

Dr D Ramaiah

Director, CSIR-NEIST

S.No.	Name	Designation
1	Ms Jiumoni Lahkar	Technical Assistant
2	Mr Manash Jyoti Borah	Technician
3	Mr Sandipon Ghosh	Junior Stenographer
4	Mr Bipin Chandra Dutta	Lab Attendant
5	Mr Mantu Sharma	Lab Attendant
6	Mr Dinaram Boruah	W/Man
7	Mr Prodip Bordoloi	Driver

Biological Science & Technology Division (BSTD)

Medicinal, Aromatic & Economic Plant Group

S.No.	Name	Designation
1	Dr B S Bhau	Dr B S Bhau, Principal Scientist & Head
2	Dr Siddhartha Proteem Saikia	Senior Scientist & GL
3	Dr Mantu Bhuyan	Senior Scientist
4	Dr Dipanwita Banik	Scientist
5	Dr Mohan Lal	Scientist
6	Ms Purnajyoti Deka Bhuyan	Senior Technical Officer
7	Dr Rumi Kotoky	Senior Technical Officer
8	Dr (Mrs) Kalpataru Dutta Mudoi	Technical Officer
9	Mr Sanjoy Kumar Chanda	Technical Officer
10	Mr. Mukibur Rahman	Senior Technical Officer & In-Charge Herbal Drug Processing Unit
11	Mr Himangshu Lekhak	Technical Assistant
12	Mr Dineswar Saikia	Lab. Assistant
13	Mr Jiten Chandra Mohrang	Lab. Assistant
14	Mr Nomal Chandra Dutta	Lab. Assistant
15	Mr Prodip Kumar Das	Non Tech
16	Mr Sushil Gayan	Non Tech
17	Mr Lenti Ao	Non Tech

Biotechnology Group

S.No.	Name	Designation
1	Dr Hari Prasanna Deka Boruah	Principal Scientist & GL
2	Dr Sawlang Borsingh Wann	Principal Scientist

3	Dr Ratul Saikia	Principal Scientist
4	Dr. Channakeshavaiah Chikkaputtaiah	Senior Scientist
5	Dr Jatin Kalita	Scientist
6	Dr Anil Kumar Singh	Scientist
7	Dr Yumnam Silla Devi	Scientist
8	Ms Archana Yadav	Technical Officer
9	Ms Polakshi Bordoloi	Technical Officer
10	Dr Prasenjit Manna	Ramalingaswami Fellow
11	Dr Mintu Pal	Ramanujan Fellow

Chemical Sciences & Technology Division (CSTD)

Natural Product Chemistry Group

S.No.	Name	Designation
1	Dr Manab Jyoti Bordoloi	Senior Principal Scientist & Head
2	Dr Archanamoni Das	Senior Scientist & GL
3	Dr Subrata Ghosh	Senior Scientist
4	Dr. Gokul Baishya	Scientist
5	Dr. Preetismita Borah	Technical Assistant
6	Mr. Jugal Bori	Technical Assistant
7	Mrs. Rumi Borah	Technician
8	Mr. Biren Chandra Borah	Lab. Assistant
9	Mr. Romen Saikia	Lab. Assistant

Analytical Chemistry Group

S.No.	Name	Designation
1	Dr Raju Khan	Senior Scientist & GL
2	Dr Prakash Jyoti Saikia	Scientist
3	Mr O P Sahu	Principal Technical Officer
4	Mr P P Khound	Technical Officer
5	Ms Ankana Phukan	Technical Assistant
6	Mrs Kongkona Gogoi	Technical Assistant
7	Mr Jayanta Madhab Boruah	Senior Technician
8	Mr Debajit Sarmah	Lab. Assistant
9	Mr Chandra Kanta Pathak	Lab. Assistant

Applied Organic Chemistry Group

S.No.	Name	Designation
1	Dr Pulak Jyoti Bhuyan	Senior Principal Scientist & GL
2	Dr Pranjal Gogoi	Scientist

3	Dr. Sanjib Gogoi	Scientist
4	Dr Pallab Pahari	Scientist
5	Dr Ram Awatar Maurya	Scientist
6	Dr Arup Roy	Scientist
7	Dr Harsha Narayan Borah	Principal Technical Officer
8	Mr Kushal Chandra Lekhok	Senior Technical Officer
9	Mr Ram Nath Das	Senior Technical Officer
10	Mr Gaurav Kumar Rastogi	Technical Assistant
11	Mr Debeswar Borah	Lab. Assistant

Engineering Sciences & Technology Division (ESTD)

Chemical Engineering Group

S.No.	Name	Designation
1	Dr Dr Pranab Barkakati	Chief Scientist & Head
2	Dr Swapnali Hazarika	Senior Scientist & GL
3	Mr Bipul Das	Scientist
4	Dr Ashutosh Namdeo	Scientist
5	Sri Ravi Kumar Lingam	Scientist
6	Dr Madan Mohon Bora	Principal Technical Officer
7	Mr Samiran Borthakur	Principal Technical Officer
8	Er Tobiul Hussain Ahmed	Technical Assistant
9	Mr Rajen Chandra Dutta	Lab. Assistant

Applied Civil Engineering Group

S.No.	Name	Designation
1	Mr Sanjay Deori	Principal Scientist & GL
2	Mr Tapas Das	Senior Scientist
3	Mr Dipak Basumatari	Senior Scientist
4	Mrs Anjumoni Bharali	Principal Technical Officer
5	Mr Nibir Pran Borah	Technical Assistant
6	Mr Rajib Das	Technical Assistant
7	Mrs Ranju Borah	Senior Technician
8	Mr Lobo Bora	Lab. Assistant

General Engineering Group

S.No.	Name	Designation
1	Subudh Chandra kalita	Senior Principal Scientist & GL
2	Jayanta jyoti Bora	Principal Scientist
3	Dipankar Neog	Senior Scientist
4	Dhanjit Das	Scientist
5	Ashok Kalita	Technical Assistant

6	Rameswar Saikia	Senior. Technician
7	Manash Hazarika	Technician
8	Archana Changmai	Technician
9	Jintu Bora	Technician
10	Chiranjeet Bora	Technician
11	Chandan Saikia	Technician
12	Domai Rohi Das	Lab. Assistant
13	Robin Chandra Bhuyan	Lab. Assistant
14	Atul Bora	Lab. Assistant
15	Arup Neog	Lab. Assistant

Geo-Sciences & Technology Division (GSTD)

S.No.	Name	Designation
1	Dr Saurabh Baruah	Senior Principal Scientist & Head
2	Dr Manoj K. Phukan	Scientist
3	Dr Sangeeta Sharma	Scientist
4	Mr Bijit Kumar Choudhury	Scientist
5	Dr Santanu Baruah	Scientist
6	Mr Mukul Borkataky	Principal Technical Officer
7	Mr Keshab Chandra Deori	Principal Technical Officer
8	Mr Bharat Buragohain	Technical Officer
9	Mr Paresh Kalita	Technical Officer
10	Mr Pradip Dutta	Technical Officer
11	Mr Sausthov Maunash Bhattacharyya	Technical Assistant
12	Mr Ajit Kumar Hazarika	Senior Technician
13	Mr Dilip Kumar Phathak	Senior Technician
14	Mr Arup Saikia	Technician

Material Sciences & Technology Division (MSTD)

Advanced Materials Group

S.No.	Name	Designation
1	Dr Pinaki Sengupta	Chief Scientist & Head
2	Dr Rajib Lochan Goswamee	Senior Principal Scientist & GL
3	Dr Manash Ranjan Das	Scientist
4	Dr Lakshi Saikia	Scientist
5	Dr Biswajit Saha	Scientist
6	Mrs Dipa Rajbongshi Kochari	Technical Assistant
7	Mr Priyamjyoti Bora	Technician
8	Mr Poranjyoti Kalita	Technician
9	Mr Krishna Prasad Sarma	Group D (Non tech.)

Cellulose Pulp and Paper Group

S.No.	Name	Designation
1	Dr Tridip Goswami	Principal Scientist & GL
2	Dr Dipul Kalita	Senior Scientist
3	Dr Ajit Singh	Scientist
4	Mr Partha Majumdar	Scientist
5	Dr Dipanka Dutta	Technical Assistant
6	Ms Puspa Kumari Das	Technician

Polymer Petroleum and Coal Chemistry Group

S.No.	Name	Designation
1	Dr Binoy K Saikia	Scientist
2	Dr Prasenjit Saikia	Scientist
3	Dr U N Gupta	Scientist
4	Mr A Sarma	Senior Technical Officer
5	Mr Tonkeswar Das	Technical Assistant
6	Mr R C Bohra	Technical Assistant
7	Mr Hari C Dutta	Senior Technician

Extension Centers

Branch Laboratory, Itanagar

S.No.	Name	Designation
1	Dr Jagat C. Borah	Principal Scientist & Scientist In Charge
2	Dr Chandan Tamuly	Senior Scientist
3	Dr N Velmurugan	Scientist
4	Dr B C Baruah	Senior Technical Officer
5	Mr Jayanta Bora	Senior Technical Officer
6	Mr Amar Jyoti Gogoi	Technical Assistant
7	Ms Moushumi Hazarika	Technical Assistant
8	Mr Raju Kumar	Junior Stenographer
9	Mr H P Rai	Technician
10	Mr Tame Rajen	Lab. Assistant
11	Punya Yaro	Gr. C (M/T)
12	Mr Lilaram Gandhia	Gr. C(M/T)

Branch Laboratory, Imphal

S.No.	Name	Designation
1	Dr HB Singh	Principal Scientist & Scientist In Charge
2	Dr P Yuvaraj	Scientist
3	Mr Somananada Thokchom	Technical Assistant
4	Mrs N Abem Devi	Technical Assistant
5	Mr K Kumar Singh (<i>retired on 31/12/2016</i>)	Assistant (S&P)
6	Mrs C Buansing	Technician
7	Mr Ram Bahadur Thapa	Lab. Attendant
8	Rajit Gogoi (transferred to Jorhat on 12/11/2016)	Lab. Attendant
9	Mr Kh Ibochou Singh	Gr D (Non-tech)
7	Mr S Binudhar Singh	Staff Car Driver

Research Planning & Business Development Division**R&D Support (PPM Group)**

S.No.	Name	Designation
1	Dr A Sengupta	Senior Principal Scientist & Head
2	Dr Kalyani Medhi	Scientist
3	Mr Rajib Deka	Scientist
4	Mr Debabrata Das	Scientist
5	Mr Madhujya Saikia	Technical Officer
6	Mr Atul Chandra Gayan	Lab. Attendant

R&D Support (HRD Group)

S.No.	Name	Designation
1	Mr Jiban Jyoti Mahanta	Scientist
2	Mr Partha Paul	Scientist
3	Mr Boloram Gayan	Lab. Attendant

R&D Support (I&BD Group)

S.No.	Name	Designation
1	Ms I Ilika Zhimo	Scientist
2	Mr Paresh Saikia	Principal Technical Officer

3	Mr Rishi Raj Phukan	Technical Assistant
4	Mr Puneswar Kalita	Lab. Attendant
5	Mr Rajit Gogoi	Lab. Attendant

Clinical Centre

S.No.	Name	Designation
1	Dr Thaneswar Bora, MD	Principal Technical Officer
2	Mr Ramesh Chandra Bharali	Senior Technical Officer
3	Ms Minu Prova Pegu	Senior Technician
4	Mr Suchen Chandra Das	Senior Technician
5	Mrs Rinky Kalwar	Technician
6	Mrs Noly Niangmuanching	Technician
7	Dr Dibyajyoti Ozah	Technician
8	Mr Robin Baruah	Lab. Assistant

Essential Services (Civil engineering and maintenance)

S.No.	Name	Designation
1	Mr Vaskar Rajkhowa	Senior Technical Officer
2	Mr Manoj Kumar Das	Technical Officer
3	Mrs Jonali Saikia	Technical Officer
4	Mr Mukesh Kumar Agarwal	Technical Assistant
5	Mr Krishna Kanta Hazarika	Lab. Assistant
6	Mr Guracharan Rahidas	Lab. Assistant
7	Mr Mathura Saud	Lab. Assistant
8	Mr Rakhil Naik	Lab. Attendant
9	Mr Rohit Chandra Borah	Lab. Attendant
10	Mr Rameswar Das	Lab. Attendant
11	Mr Prodip Chandra Saikia	Non Tech
12	Mr Jiten Chandra Boruah	Non Tech
13	Mr Rajat Saikia	Non Tech

Essential Services (Electrical section)

S.No.	Name	Designation
1	Mr Dilip Mahanta	Senior Technical Officer
2	Mr Makhana Bora	Technical Officer
3	Mr Lalit Chutia	Technician
4	Mr Somenath Bora	Lab. Assistant

Essential Services (Plumbing section)

S.No.	Name	Designation
1	Mr Rohit Chandra Borah	Lab. Attendant

Essential Services (Refrigeration Section)

S.No.	Name	Designation
1	Mr Jintu Bora	Senior Technician

Information and Communication Technology Division

S.No.	Name	Designation
1	Mr Jayanta Jyoti Bora	Principal Scientist
2	Mr Khirod Buragohain	Scientist
3	Mr Prasad Hazarika	Senior Technician
4	Mr Dhiman Bhattacharjee	Technical Assistant
5	Mr Jaganath saikia	Technician
6	Mr Jogot Bora	Technician
7	Mr Chandan Boruah	Technician
8	Mr Ananda Saikia	Technician

Knowledge Resource Centre

S.No.	Name	Designation
1	Mr Jayanta Jyoti Bora	Principal Scientist
2	Ms Anamika Bora	Technical Assistant
3	Mr Prodip Hazarika	Senior Technician
4	Mr Makhan Chandra Bora	Lab. Assistant
5	Mr Chandra Bora	Lab. Attendant

General Administration

S.No.	Name	Designation
1	Mr J L Khongsai	Administrative Officer
2	Mr Jyotimoy Bhuyan	Section Officer (Bill)
3	Mr Prakash Bordoloi	PA
4	Mrs Minakhi Das	Assistant
5	Dr Debojit Kumar Sarmah	Assistant

6	Mr Kiron Saikia	Lab. Attendant
7	Mr Prodip Hazarika	Lab. Attendant
8	Mr Pritom Bordoloi	Assistant
9	Mr Amrit Kumar Saikia	Senior Stenographer
10	Mr Nageshwar Singh	Lab. Attendant
11	Ms Jiumoni Lahkar	Technical Assistant
12	Mr Manash Jyoti Borah	Technician
13	Mr Sandipon Ghosh	Junior Stenographer
14	Mr Dinaram Boruah	W/Man
15	Mr Prodip Bordoloi	Driver
16	Mr Bipin Chandra Dutta	Lab. Attendant
17	Mr Mantu Sharma	Lab. Attendant
18	Mr Ajit Chandra Goswami	S.O.(Officiating)
19	Mr Hemen K Borthakur	Assistant
20	Mr Kunja Behari Rabha	Assistant
21	Mr Bipul Chandra Boruah	Non tech
22	Mr Suresh Rana	Non tech
23	Mr Prasanna Kumar Dutta	Senior Technician
24	Mrs hema Kanti Kalita	Non Tech
25	Mr Ranjan Borah	Lab. Attendant
26	Mr B Mahrili Osanah	Assistant
27	Mr Purna Kanta Hazarika	Assistant
28	Mrs Rita Devi Patgiri	Assistant
29	Mrs Kobita Saikia	Non Tech
30	Mr Naba Kumar Dutta	Non Tech
31	Mr Ratul Saikia	Assistant
32	Mr Biren Borthakur	Lab. Attendant
33	Mr Arun Chandra Bora	Lab. Attendant
34	Mr Ajit Chandra Dutta	Assistant
35	Mr Rahul Saikia	Assistant
36	Mr Bijoy Sharma	Assistant
37	Mr Dilip Dutta	Lab Attendant
38	Mr Kamal Bahadur Pun	Non Tech
39	Mr Ajay Kumar	Hindi Officer
40	Mrs Radhika Chetri	Receptionist

Finance and Accounts

S.No.	Name	Designation
1	Mr Rama Shankar Sharma	Finance & Account Officer
2	Mrs Niroda Borah	PA
3	Mr Probin Kumar Phukan	Assistant
4	Mr Prabin Saikia	Assistant
5	Mr Khirud Phukan	Assistant
6	Mr Pranjal Sharma	Assistant
7	Ms Rinku Bora	Assistant
8	Mr Uday Kant Trivedi	Assistant
9	Mr Hiren Brahma	Junior Stenographer
10	Mr Loknath Boruah	Lab. Attendant

Stores and Purchase

S.No.	Name	Designation
1	Mr Neelambuj Shanker Prasad	Sales & Purchase Officer
2	Mr Prodip Borah	S.O(S&P)
3	Mr Laksheswar Das	PS
4	Mrs Aleya Rahman	Senior Technician
5	Mr Poresh Kumar Phukan	Assistant
6	Mr John L Ngaihte	Assistant
7	Mr Chandradhar Dutta	Assistant
8	Mr Pranjal P Gogoi	Assistant
9	Ms Anjali Hatibaruah	Non Tech
10	Mr Puneswar Borah	Non Tech
11	Mr Biren Hazarika	W/Man

Retired Staff

Sl. No.	Name	Designation	Date of Retirement
1	Mr Panchanan Baruah	Principal Technical Officer	30/04/2014
2	Dr Sekh Mahiuddin	Chief Scientist	31/05/2014
3	Mr Debeswar Borah (Sr)	Lab. Assistant	31/05/2014
4	Mr Gobin Chandra Borah	Principal Technical Officer	31/07/2014
5	Mr Apul Phukan	Assistant	31/07/2014
6	Mr Dilip Kumar Dutta	Senior Principal Scientist	31/08/2014
7	Dr Ajit Kumar Bordoloi	Principal Technical Officer	31/08/2014
8	Dr Mohan Chandra Kakoti	Chief Scientist	31/08/2014
9	Dr Arun Borthakur	Senior Principal Scientist	31/08/2014
10	Mr Moheswar Ligira	Lab. Attendant	31/08/2014
11	Mr Mohendra Nath Gogoi	Lab. Attendant	30/09/2014
12	Mr Arun Kalita	Lab. Attendant	30/09/2014
13	Dr Lohit Nath	Chief Scientist	30/09/2014
14	Mr Siba Kanta Borah	H/G	31/10/2014
15	Dr Paran Boruah	Chief Scientist	31/10/2014
16	Mr Bipin Chandra Bora	Senior Technician	30/11/2014
17	Mr Promod Kumar Goswami	Assistant	30/11/2014
18	Mr Rajani Pachani	W/Man	31/12/2014
19	Mr Ajit Chandra Kakoty	Senior Technical Officer	31/12/2014
20	Dr Dilip K Dutta	Principal Scientist	31/12/2014
21	Mr Noren Chandra Bora	S O	31/12/2014
22	Dr Bimala Prasad Boruah	Principal Scientist	31/01/2015
23	Dr Balagopalan Unni	Chief Scientist	31/01/2015
24	Mr Nilim Kumar Neog	Principal Technical Officer	31/01/2015
25	Mr Norendra Nath Borah	Senior Technician	28/02/2015
26	Dr Tarun Chandra Bora	Chief Scientist	31/03/2015
27	Mr Vakil Singh	Lab. Attendant	31/01/2015
28	Mrs Suchitra Dutta	Peon	31/10/2014

