

# के मू ए अ प्र सं के रेशम समाचार CMERTI SERICULTURE NEWS



CENTRAL MUGA ERI RESEARCH & TRAINING INSTITUTE,

CENTRAL SILK BOARD,

Ministry of Textiles : Govt. of India

LAHDOIGARH : JORHAT : ASSAM

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## RESEARCH NEWS

### *In-situ conservation of muga silkworm*

Deforestation and consequent loss of habitat is primarily responsible for the depletion of the wild muga silkworm population and its fragmentation. From survey, the Garo Hills of Meghalaya with moderate climatic conditions and availability of food plants found to be the most potential for the conservation of wild muga silkworms.

Efforts are under way for *in-situ* conservation of the wild genetic resources of muga silkworm in the Balpakram National Park and its vicinity, South Garo Hills, Meghalaya through release of disease free layings. So far, more than 2200 disease free layings of four different stocks viz. RMRS Aa00-1, RMRS Aa00-2, RMRS Aa00-3 and RMRS Aa00-4 have been released. During 1<sup>st</sup> week of June 2013, more than 20,000 worms (100 dfls) of a promising accession of muga silkworm originally collected from South Garo Hills, Meghalaya and under *ex-situ* maintenance at RMRS, Boko, Kamrup, Assam were released at Rewak, Rongchekgre and Balkal Rongrengpal in the vicinity of Balpakram National Park, Meghalaya for *in-situ* conservation with the active participation of the local people and the Garo Students Union under the dynamic leadership of Mr. Prosper S. Marak.

Balpakram National Park is located (90.20° E to 91° E longitude and 25.20° N to 25.30° N latitude) in the extreme South Garo Hills, Meghalaya at 909 meter ASL at a distance of 167 km away from Tura,

West Garo Hills. The Garo Students Union, approached through Mr. Marak to extend their help in conserving the wild muga silkworm genetic resources in Garo Hills, Meghalaya by way of motivating the local people and community participation. In addition, efforts were made to sensitize the local people in the Balkal Bazar area to conserve the forests as a whole for their tomorrow.



*Deforested Garo Hills of Meghalaya*



*Release of muga silkworm breeding material at Balkal, South Garo Hills of Meghalaya*



*Conservation Awareness Programme at Balkal Bazar, S. Garo Hills, Meghalaya.*

*(Report: Dr. A. K. Sahu)*



## SPECIAL EVENTS

**Research Advisory Committee meeting :** RAC was held on 4<sup>th</sup> February, 2013 (25<sup>th</sup>) to review the progress of research and developmental activities of the institute under the chairmanship of Prof. Krishnamoorthy Kannan, University of School of Biotechnology, Guru Gobind Singh Indraprastha University of New Delhi and Former Vice Chancellor of Nagaland University. Dr. M.V. Samson, former Director of CSB; Prof. P. Pathak, Assam Agricultural University, Jorhat and Shri Jayanta Patra, Muga Farmer, Bor Ahom Gaon, Jorhat, Assam participated in the meeting as members. Dr. A. Bhattacharya, Scientist-C, representative of Joint Secretary (Tech), RO, CSB, Guwahati was present in the meeting as an invitee. Dr. K. Giridhar, Director of the institute informed the house about 3 concluded and 24 on-going research projects of the institute. In addition, he informed that 4 new projects were proposed and the institute has given more emphasis in taking up collaborative research projects funded by DBT / DST / ICAR etc.



The committee reviewed the progress of research projects and other programmes of the institute. The Chairman informed that he was very much impressed about the research, extension and training programmes being undertaken by the institute.

**Extension Officers' Meeting:** EOM was held on 26<sup>th</sup> April, 2013 to review the R & D activities other than research projects of different extension units of the institute.

**Vanya Reshom Krishimela:** The institute organized "Vanya Reshom Krishimela" on 8<sup>th</sup> March, 2013 at the institute's premises. More than 250 farmers including SHGs, and entrepreneurs participated in the occasion. Sri Ramananda Phukan,

ACS, Director of Sericulture, Assam, participated in the Krishimela as Chief Guest while Shri Chandan Basera, Director of Sericulture, Nagaland and Sri J. Deuri, Director of Sericulture, BTC, Kokrajhar participated as Guests of Honour. Dr. B.G. Unni, Chief Scientist of NEIST, Jorhat; Dr. L.K. Hazarika, OSD, AAU, Jorhat; Dr. L.C. Dutta, Professor, Department of Sericulture, AAU, Jorhat; Sri M. Bora, Principal, STI, Titabor, Assam; Dr. R. Bora, Chief Scientist, RFRI, Jorhat and DOS officers of different districts of Assam graced the event. An exhibition on different technologies and diversified products of muga and eri was organized in connection with Krishimela. Sri Phukan, DoS, Assam encouraged muga farmers to adopt proper technologies. Sri Basera, DoS, Nagaland stated that wild muga are available in the forest areas of Nagaland which need to be collected and maintained in the research institute. Progressive farmers namely, Sri Hema Gogoi of Golaghat, Sri Jiten Gogoi, Sri Rabin Bharali, and Smt. Kalyani Gogoi of Sivasagar deliberated lecture and appealed the Directors of Sericulture to provide required assistance for developing muga and eri culture. In the technical session, lectures on different topics related to improved eri and muga culture were delivered to the farmers through audiovisual aids by scientists of the institute.



(Report: D. Mech and Dr. (Mrs) U. Hazarika)

**Eri Reshom Krishimela:** RERS, Mendipathar organized "Eri Reshom Krishimela" at Chhaygoan, Kamrup on 2<sup>nd</sup> March, 2013 where 186 nos. of eri farmers participated. Sri P. N. Borogohain, Sc.-C of RERS, in his welcome



address, threw a light on the glorious history and tradition of ericulture, its present status and future prospects in NE Region. He also focused on the factors responsible for the development of ericulture towards socio-economic upliftment of ethnic group of rural people. Sri Paban Dutta, OSD, State Sericulture Deptt., Khanapara, Guwahati presided over the Inaugural Session of the Krishirmela. Speaking on the occasion as a chief guest, Dr. P. Jayaprakash, Sc.-D of MSSO, Guwahati expressed that increase of productivity will lead to expansion and development of the eri industry and availability of perennial food plants will definitely increase rearing capacity of the eri rearers. He called upon the farmers to increase their systematic plantation of eri host plants like Kesseru, Payam etc. so as to conduct rearing throughout the year. Dr. A. K Sahu, Sc.-D of RMRS, Boko opined that it is necessary to increase quality of eri products and its diversification to catch the world market. He hoped that constant & sincere effort of the eri farmers will definitely bring all-round development of the culture. Dr. B. K Singh, Sc.-D of MSSO, Guwahati stated that it is very much essential for the eri rearers to maintain systematic plantation as sufficient quantity of eri seed has been produced by CSB, to cater the needs of the farmers of NE states. Mrs. Mamoni Sahu, Sc.-C of ESSPC, Azara expressed that surplus quantity of quality eri seed has been made available for the rearers to meet their demand so that they can take up maximum crop in a year making ericulture more profitable. Dr. A. Bhattacharya, Sc.-C of R.O., Guwahati put forth about the various sericultural schemes presently being implemented under states & central govt. sectors.



Progressive farmers namely, Sri Narayan Bora, Triluson and Sri Promod Rabha expressed that since last 10 years they have been associated with ericulture and maintaining their families through marketing of eri products. A documentary film on ericulture was shown to the farmers.

*(Report: P. N. Borogohain)*

**National Workshop-cum-Training on "Advanced techniques and technologies in sericulture" sponsored by DBT, New Delhi:** The institute organized the Workshop-cum-Training from 19<sup>th</sup> to 21<sup>st</sup> March, 2013 at the institute. Young faculty members, research scholars and post graduate students from IIT, Guwahati, AAU, Jorhat; Institute of Advanced Studies of Science & Technology, Guwahati; Gauhati University; RFRL, Jorhat; J. B. College, Jorhat, Bahona College, Jorhat, V. G. Shivdare Arts, Commerce and Science College, Solapur (Maharashtra), B.B.A.U Luchnow; CSIR-NEIST, Jorhat etc. participated in the workshop. Dr. Utpal Borah, Assoc. Professor of IIT, Guwahati and Dr. B.S. Bhau, Scientist-E of NEIST, Jorhat delivered special lectures. Dr. Paran Baruah, Scientist-G, CSIR, NEIST, Jorhat took part as Chief Guest in the inaugural session. Prof. K. M. Bujarbaruah, VC, AAU, Jorhat inspired the participants with his illuminating talk in the valedictory session of the event. Dr. K. Giridhar, Director of the institute, in his welcome address informed about the research areas and facilities together with mandate of the institute. He expressed that CMER&TI has special role in sericulture sector specially being the only institute in the country for doing research and developmental activities in muga and eri silkworms. Dr. K. Das, Convener of the programme elaborated the objective of the programme. The participants were informed about the provision of subsidies to procure reeling machines, dfls, seedlings etc. Laboratory and field visits were arranged and the trainees were exposed to first hand experience on modern tools.



*(Report: Dr. M.Chutia and Dr. (Mrs.) U. Hazarika)*

### **Awareness Programmes**

➤ **Farmers Awareness Programmes on Eri and Muga Silk organized by the institute and**



sponsored by CCS National Institute of Agriculture Marketing (NIAM), Ministry of Agriculture, Govt. Jaipur (Rajasthan)

✓ **Awareness Programme at Block Development Office, Titabor, Assam** was organized on 25<sup>th</sup> February, 2013. Shri K.K. Gogoi, ACS, SDO (Civil), Titabor as Chief Guest, Dr. Ramesh Mittal, Deputy Director, NIAM as Guest of Honour and Dr. K. Giridhar, Director, CMER&TI graced the programme. Scientists of CMER&TI, officers and officials of state departments of Agriculture and Sericulture, women eri silk rearers, spinners and fabric producers participated in the programme where five pedal cum motorized eri spinning machines were distributed to women SHG members free of cost under DST Women Scientist Fellowship project.



✓ **Awareness Programme at Conference hall of Garmur Saru Satra, Majuli** was organized on 27<sup>th</sup> February, 2013. Ms. Laya Madduri, IAS, SDO (Civil), Majuli as Chief Guest, Dr. Ramesh Mittal, DD, NIAM as Guests of Honour, Dr. K. Giridhar, Director, CMER & TI, Shri B.N. Sonar, SDO (Agriculture), Shri K. Gogoi, Supdt. of Sericulture, Majuli, Scientists of CMER&TI along with 110 women eri silk rearers cum fabric producers participated in the programme. The programme created awareness on the improved technologies, improvement in eri silk through use of machine, marketing strategies and approaches, diversified use of ericulture in textile industry, food and medicine for their sustainable rural livelihood.



✓ **Awareness Programme at District Sericulture Officer, Jowai, Meghalaya** was organized on 21<sup>st</sup> May, 2013. Dr. R.P. Meena, IAS, Director General, NIAM as Chief Guest, Shri B.C. Hajong, DoS, Meghalaya, Shri S. Deori, Joint Secretary (Tech.), RO, CSB, Guwahati, Dr. B.K. Singh, Scientist-D,

MSSO, Guwahati and Dr. K. Giridhar, Director, CMER&TI graced the programme. Dr. Meena, DG, NIAM was impressed with large gathering of women farmers and their involvement in eri silk sector. He was pleased to know that there is a scope for four fold value addition from cocoon producers to fabric producers' level. He urged farmers to participate in the forthcoming Buyer-Seller Meet to be held at Agartala during September, 2013. Shri Sarat Deori, Jt. Secretary (Tech.) highlighted the present status of silk industry in North Eastern Region and different farmer oriented programmes implemented by CSB in the region. Shri B.C. Hajong, Director of Sericulture as Guest of the Honour spoke on the status of eri and muga silk industry in Meghalaya. Dr. B.K. Singh highlighted the role of CSB with regard to R&D support in development of vanya silk sector in North East India. In technical session, CSB scientists, Dr. Reena Choudhury, Dr. B.K. Singh, Shri A. Bhattacharyya, Shri S.A. Ahmed, Dr. Collin, and Smt. Mamata B Sharma delivered their talk on diversified topics related to muga and eri silk sectors.



✓ **Awareness Programme at Dimapur, Nagaland** was organized on 1<sup>st</sup> June, 2013. Dr. Ramesh Mittal, DD, NIAM, Dr. K. Giridhar, Director, CMER&TI, Shri P. Demo, Joint Director (Sericulture), Nagaland, Shri S.A. Ahmed, Scientist, CMER&TI, state govt. officers and officials and 102 eri farmers from three districts of Nagaland viz., Dimapur, Peren and Kohima participated in the event. The programme created awareness among more than 400 women eri and muga farmers on the improved technologies, improvement in eri silk through use of machine, marketing strategies and approaches, diversified use of ericulture etc.



(Report: S.A.Ahmed)



➤ **Technology Awareness Meet on ericulture organized by RERS, Mendipathar:** Awareness Meet was organized at Gohalkona Community Hall of Kamrup district on 22<sup>nd</sup> January, 2013. 77 eri rearers and 12 dignitaries took part in the programme. Sri C.K. Bora, TA, briefed about the aim & object of the programme. Sri P. N. Borgohain Sc.-C briefed on various aspects of scientific know-how involved in ericulture and economics of eri culture. Sri G.K. Choudhury, Head Master of Golhalkona High School



in his guest lecture appealed eri rearers to come forward to take-up eri culture in a scientific way to make it more productive and remunerative. Mr. Albert D. Shira, Ex-teacher and a social activist, Sri U. Talukdar, F.O. representing state sericulture deptt, Assam, Sri Sanakya Mazumdar, teacher of Golhalkona High School encouraged eri growers to exploit this cottage industry for generation of more income. Smt. Caroline N. Sangma, in her presidential address, expressed hope that farmers will put more interest in ericulture for generation of their family income and concerned state and central govt will render proper support to them.

(Report: P. N. Borgohain)

### विभागीय हिन्दी प्रशिक्षण

अंशकालिक हिन्दी शिक्षण केन्द्र, उत्तरपूर्व विज्ञान तथा प्रौद्योगिकी संस्थान (निस्ट), जोरहाट, असम में मई २०१३ के सत्र में आयोजित होनेवाली हिन्दी परीक्षा यथा ग्राह्य व प्रवीण में संस्थान के अधीनस्थ इकाईयों के निम्नलिखित अधिकारी तथा कर्मचारियों ने भाग लिया।

1. श्री सरत चन्द्र शर्मा, वैज्ञानिक-सी, अ वि के, लखीमपुर
2. श्री जी. के. भराली, तक. सहायक, अ वि के, तुरा
3. श्री गजेन टाव, क्षेत्र सहायक, अ वि के, तुरा.
4. श्रीमती विमला गोगोई, तक सहायक, अ वि के, लखीमपुर
5. मों समीन हुसैन, क्षेत्र सहायक, शे मू अ के, बोको
6. श्री चतुमणि हानरिका, क्षेत्र सहायक, उप केन्द्र, कोकराझार

(Report: G. Teye and Dr. (Mrs.) U. Hazarika )

### Training Programmes

#### ➤ Resource Development Programme

Shri B. Choudhury, Scientist-D, Zonal Training Co-ordinator under C&ED Cell of CSB organized a Resource Development Programme for state govt. officers of NE states at Guwahati from 18<sup>th</sup> to 25<sup>th</sup> March, 2013.



#### ➤ Empowerment Programme under CDP

✓ Training programmes on muga & eri culture technologies were organized at Jorhat, Dibrugarh, Tinsukia, Lakhimpur, Jonai & Dhemaji of Assam, Likabali, Sille, Balijan, Daporijo & Changlang of Arunachal Pradesh and Umden of Meghalaya during January-June, 2013 covering 545 & 465 numbers of beneficiaries under muga and eri respectively.



✓ Training programmes on eri culture was conducted from 12<sup>th</sup> to 16<sup>th</sup> March, 2013 for the farmers of Kanpur district, from 20<sup>th</sup> to 23<sup>rd</sup> March, 2013 for the farmers of Fatehpur and Unnao district of Uttarpradesh. 80 farmers participated in the training programmes.





✓ One day training programme on muga and eri culture was organized on 14<sup>th</sup> May, 2013 for the farmers sponsored by DRDA, under National Rural Livelihood Mission (NRLM), Sivasagar. 64 farmers participated in the training programme.



(Report: Mrs R. Das)

➤ Core training programme on “value addition and marketing management of ericulture” sponsored by CCS National Institute of Agricultural Marketing, Ministry of Agriculture, Govt. of India, Jaipur

✓ 1<sup>st</sup> batch of training was organized from 27<sup>th</sup> to 30<sup>th</sup> May, 2013 at Kokrajhar. 25 field level officers and officials nominated by DoS, BTC, Kokrajhar from four districts of BTC participated in the programme.



Resource persons from different parts of the country imparted training on research and development, value addition and marketing. The inaugural function was attended by Shri Arun Kumar Basumatary, Secretary of DoS, BTC, Shri Jogesh Deuri, Director of Sericulture, BTC, Shri Brajen Choudhury, Sc.-D and Shri Siddique Ali Ahmed, Sc.-B of the institute. Shri A.K. Basumatary, Secretary emphasised on taking up projects and schemes under Rashtriya Krishi Vikash Yojana (RKVY) of Ministry of Agriculture, Government of India.

✓ 2<sup>nd</sup> batch of training was organized at Dimapur from 3<sup>rd</sup> to 6<sup>th</sup> June, 2013 for 25 state govt. officials of 11 districts of Nagaland. The inaugural session was attended by Shri Chandan Basera, Director

of Sericulture, Nagaland, Shri B. Choudhury, Scientist-D, CMER&TI, Dr. Ramesh Mittal, DD, NIAM, Shri S.A. Ahmed, Scientist-B and Dr. M.C. Samah, Scientist-C of the institute.



✓ 3<sup>rd</sup> batch of training was organized at Dimapur from 7<sup>th</sup> to 10<sup>th</sup> June, 2013 where 25 officials nominated by state department of Sericulture, Nagaland participated. In the inaugural programme, Smt. N. Hushili Sema, IAS, Deputy Commissioner, Dimapur emphasised on market led extension, design and product development. Dr. K. Neog, Scientist-C, Shri G. Rajkhowa, Scientist-C, Shri S.A. Ahmed, Scientist-B and Smt. Mamata B Sharma, Executive, Silk Mark Organization of India, Guwahati imparted training on various aspects as resource persons.



(Report: S.A. Ahmed)

### Demonstration Programmes

✓ Demonstration on “Mother moth examination for detection of Pebrine in muga silkworm” was organized by the scientists of Muga Silkworm Seed Technology section of the institute in coordination with the Department of Sericulture, govt. of Assam at private muga graineurs of Jajali Panch Ali Garchuk Habi gaon of Banamali and Garia Siga gaon



of Sapekhati, Sivasagar, Assam on 5<sup>th</sup> June, 2013.

(Report: G. Rajkhowa)



✓ Demonstrations on Agronomical practices in Kesseru and Platform rearing of eri silkworm were organized at Deogharia and Borhola of Jorhat district on 17<sup>th</sup> May, 2013. Shri Utpal Kumar Hazarika, Silk Demonstrator,



Dr. M.C. Sarmah, Scientist-C, Shri B.N. Sarkar, Scientist-B and Shri S. A. Ahmed, Scientist-B took part in the programmes. 76 farmers participated in the programmes and showed keen interest on demonstration programmes.



(Report: Dr. M.C. Sarmah)

### Exhibitions

On the annual event of "Rythu Chaitanya Yatra" on 10<sup>th</sup> May, 2013 organized by the government of Andhra Pradesh at Mahabubnagar, RERS, Shadnagar structured an exhibition to disseminate information on various aspects of ericulture in castor growing areas.



District Collector, local MLAs and various district officers along with large number of farmers visited the exhibition. The exhibition provided an opportunity to the farmers to understand the entire process of silk production cycle. In the exhibition, cultivation packages of food plants, varieties of food plants, eri silkworm types, variations in larvae and cocoons, rearing practices, mounting methods, grainage operations, yarn of different counts etc. were displayed for making the farmers familiar with the entire gamut of ericulture. Besides eri, yarn samples of other kinds of silks were displayed.

(Report: Dr. C. Srinivas)

## EXTENSION AND TRAINING

Training Programmes (January-June, 2013)	Persons trained
Muga culture technologies	731
Eri culture technologies	906
Muga grainage technologies	179
Muga post cocoon technologies	137
Eri post cocoon technologies	98

  

Technology demonstration	Number of demos.	Farmers covered
Control of Stem borer	17	340
Control of Uzi fly	26	520
LAHDOI against muscardine	23	460
Mother moth examination	22	440
Phytoplighton against blight	7	140
Early stage muga silkworm rearing technology	11	227
Use of Bamboo moutage	21	410
Agronomical practices for kesseru	10	230
Improved eri silkworm	26	390
Platform rearing technology	31	465
Cocoon drying chamber	5	252
Shoot feeding in mulberry	5	140
Chawki rearing in mulberry	5	127

(Report: Dr. N.J.Dhar & D.Mech)

## VISITORS

20 PGDS students of CSTRI, Ranchi visited the institute on 17<sup>th</sup> April, 2013.

### Delicious muga dishes

Muga pupa fry and Muga pupa with chilli are two recently popularized dishes among the tribal people of Assam because of nutritional value.



(Report: Mrs.R.Das)

## DEGREE AWARDED

Urmimala Hazarika, Sc.-C of the institute was awarded Doctor of Philosophy (Ph.D.) degree in Botany from the Faculty of Science, Gauhati University, Guwahati, Assam. Dr. (Mrs) Hazarika carried out her research work on "Comparative performance of certain economically important cash crops as intercrops in Som, *Persea bombycina* Kost. Plantation" under the guidance of Prof. S. K. Barthakur, Dept. of Botany of the university and Dr. R. Chakravorty, Former Director of the institute.



### TALKS DELIVERED

- ❖ Sri B. Choudhury, Sc.-D delivered lecture on "Communication skills and extension management" at the institute on 2<sup>nd</sup> Jan., 2013.
- ❖ Dr. K. Das, Sc.-C delivered lecture on "Stress Management" at the institute on 6<sup>th</sup> Feb., 2013.
- ❖ Shri K. R. Kantharaju, DD (Admn.) delivered a lecture on "How to maintain files?" on 1<sup>st</sup> May, 2013.
- ❖ Dr. K. Giridhar, Director of the institute delivered lecture on "How to write a scientific paper" on 1<sup>st</sup> May, 2013.
- ❖ Mrs. R. Das, Sc.-C delivered a lecture on "Delicious dishes from mulberry leaves" on 3<sup>rd</sup> June, 2013.
- ❖ Dr. N.I. Singh, Dr. (Mrs). R. Das, Sri Z.M.S. Khan, Dr. K. Neog, Dr. R. Kumar of the institute delivered lectures on different aspects of muga and eri culture in the workshop-cum-training on Advanced techniques & technologies in sericulture organized from 19<sup>th</sup> -21<sup>st</sup> March, 2013 at the institute.
- ❖ Shri P. K. Handique, Dr. M.C. Sarmah, Sri B. Choudhury, Shri, B.N. Sarkar, Dr (Mrs) R. Das and Sri Z. M. S. Khan delivered lectures on Improved muga host plantation and management, Eri host plants and management, Muga silkworm seed rearing and seed production, Forewarning system of diseases and pests of muga and eri host plants & silkworms and Improved cooking & reeling of muga cocoon to the farmers at "Vanya Reshom Krishimela" organized on 8<sup>th</sup> March, 2013 at the institute.

### WORKSHOP/ FORUM ATTENDED

- Dr. N. I. Singh, Sc.-C and B.N. Sarkar, Sc.-B attended Brainstorming session of non-mulberry silkworm breeding held at CTR & TI, Ranchi on 28<sup>th</sup> Feb., 2013.

➤ Dr. J.C.D. Phukan, Sc.-C from REC, Tura participated in Farmers – Scientists interaction forum organized by the College of Home Science Tura, Meghalaya under the aegis of Central Agricultural University on 21<sup>st</sup> March, 2013 as a Sericulture Resource person.

➤ Dr. K. Neog, Sc-C attended Brainstorming session on Silk Proteins and their Biomaterial/ Bio-medical Applications" jointly organized by CSB, Bangalore and Department of Biotechnology (DBT) at Bangalore on 27<sup>th</sup> May, 2013.

### PAPERS PRESENTED

➤ Dr. N. I. Singh, Sc.-C presented base paper on "Current approaches in breeding of muga silkworm" on the Brainstorming session of non-mulberry silkworm breeding held at CTR&TI, Ranchi on 28<sup>th</sup> Feb., 2013.

➤ B.N.Sarkar, Sc.-B presented base paper on "Eri silkworm germplasm conservation and development of breeds/hybrids" on the Brainstorming session of non-mulberry silkworm breeding held at CTR&TI, Ranchi on 28<sup>th</sup> Feb., 2013

### MEETINGS ATTENDED BY DIRECTOR

- R.A.C at the institute on 4<sup>th</sup> Feb., 2013.
- Action Plan meeting at CSB, Bangalore on 1<sup>st</sup> & 2<sup>nd</sup> April, 2013.
- R.C.C. at CSB, Bangalore on 3<sup>rd</sup> April, 2013.
- E.O.M at the institute on 26<sup>th</sup> April, 2013.
- 68<sup>th</sup> LAC of MRMB, Sivasagar at Guwahati, Assam on 9<sup>th</sup> May, 2013.
- F.A.P. at Titabor, Assam on 25<sup>th</sup> Feb., 2013.
- F.A.P. at Majuli, Assam on 27<sup>th</sup> Feb., 2013.
- F.A.P. at Jowai, Meghalaya on 21<sup>st</sup> May, 2013.

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