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अर्धवार्षिकी आर एण्ड डी न्यूज बुलेटिन [केरेउअवप्रसं-बहरमपुर]
Half Yearly R&D News Bulletin [CSRTI-Berhampore]

दिसंबर, 2021
December 2021

Editorial

Greetings! Happy New Year!!!



Six months ago, like other agriculture sectors, sericulture too in the region witnessed the aftermath effects of Covid pandemic second wave. Due to imbalance in the demand-supply chain, all the activities involved in the silk value chain got affected. Severe disruptions happened in the availability of inputs, cocoon and silk prices, raw silk production & marketing of the silk goods. Due to non-availability of

buyers, farmers/reelers were forced to sell their produce at a very low price. Many of the farmers temporarily gave up sericulture and shifted to the other cultivations due to the constraints faced by them amidst the pandemic situation. But, later when the situation improved with lesser infections and normalcy was restored, seri-activities also slowly recovered. Fortune was on the side of farmers during Aghrayani crop, as they got higher cocoon prices ever in the region bringing back smile on their face. The rise in the price has come as a boon, and instrumental in shooting up farmer's confidence to place indent for large no. of dfls to graineurs for the forthcoming Falguni crop.

During this period, CSRTI, BHP made considerable achievements under R&D, Extension and HRD by way of developing need based technologies for the benefit of the sericultural farmers of E & NE regions. Under CBT, various training programmes were conducted for the stakeholders and PGDS (2020-21 batch) which was virtual sofar was made offline before completion of the course. Fresh batch with 26 participants enrolled for PGDS (2021-22). More & more efforts made for creating awareness of farmers on the latest technologies available through ECPs. All the 6 SRCs worked actively and 600 farmers were imparted training. A NABARD funded project on establishment of two Seri-business CRC's commissioned successfully at Mallickpur and Bankipur in Murshidabad Dist.(WB). Few collaborative research works have been proposed with DST-JSPS, DBT-BIRAC, DBT-NE & SERB. **Major achievements during the period:** Under silkworm improvement; **BV-DH: BHP3.2 x BHP8.9** with 10-12% shell improvement and two Congenic silkworm breeds **28RY** (MV @ 0.224 shell) & **29RND** (BV @ 93% survival), an eco-friendly bed disinfectant- **SERI-WIN** for reducing the disease incidence. Under mulberry improvement: AICEM-IV plantation done at 8 test centers with 3 test genotypes; FYT studies- leaf yield improvement in PPY-8, PPY-10 & PPY-24 @ >20% and MLT studies of Cold tolerant genotypes, C-11 & C-01 @ 34-35% leaf improvement.



एक कदम स्वच्छता की ओर

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Visit of Dignitaries

Shri U.P Singh, IAS, Secretary, MoT visited shillong, Meghalaya on 17/18.12.21. The Hon'ble Secretary inspected the Megtex showroom and weaving training centre complex of DoS&W. Shri Frederick Roy K. IAS, Commissioner of Textiles & Dr. Pooja Pandey, IAS, Secretary DOT, Govt. of Meghalaya were present. The team visited the Eri farm at Nongpoh and held discussions with Smt. Rosetta Mary. K. IAS, DC, Ri Bhoi and Smt. Cynthia B. Sangma, Director, DOS & W. They inspected the constructions under progress for the Craft Tourism complex at Nongpoh funded by Govt. of India and advised to complete the constructions as per the approved plan so that the facility created would attract visitors and improve the sales of the products developed by the state artisans and weavers. Shri Singh also visited the Design Innovation Resource Centre (DIRC) Diwon and held discussions with DOS, various SHGs and weavers Co-operative society. The Hon'ble Secretary, also presided over the convocation held at the National Institute of Fashion Technology, Shillong and delivered the convocation address. He handed over awards and degree certificates to 156 students of 2020 & 21 batches.



Shri R. R Okhandiar, Member Secretary, CSB, Bengaluru visited Nagaland from 30th Nov to 4th Dec, 2021 along with officials of CSB and DoS of Nagaland. The team extensively visited Dimapur, Kohima, Wokha and Mokokchung districts of Nagaland, met a number of beneficiaries to take stock of the progress and achievements on implementation of NERTPS. On 2nd Dec, 2021, the PIMC meeting in respect of Nagaland was held at Kohima which was chaired by Shri Orenpomo Kikon, Commissioner and Secretary to the Govt. of Nagaland, Dept. of Sericulture in presence of Hon'ble Member Secretary, CSB; Mr. Zhaleo Rio, IAS (Retd.), Hon'ble Adviser of Sericulture, Excise, Minority Affairs etc. to the Govt. of Nagaland, officers from DOS and CSB including Dr. K. Neog, Sci-D, REC-Dimapur attended meeting. The progress of the on-going and concluded projects under NERTPS in the state of Nagaland was thoroughly reviewed by the committee and put forward valuable suggestions and recommendations for holistic development of sericulture industry in the state. A MoU was also signed in the meeting between DoS, Nagaland and CSB for implementation of **SAMARTH** schemes in the state.



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Chawki Rearing – An attractive Seri-Business Enterprise

In recent past chawki rearing of silkworms has emerged as a successful avocation. The concept involves rearing of young age silkworms under recommended conditions up to end of 2nd moult and selling them with a margin. The concept standardized as a business model and has emerged as a profitable business venture. With an objective of replicating commercial CRC model in WB, a joint effort was made by CSRTI-Berhampore with the financial assistance of NABARD. Two CRCs were established with a brushing capacity of 5000 dfls each and during Agrahyani crop (Oct-Nov.2021) 6000 dfls were reared. The worms were sold to 65 farmers who harvested an average yield of more than 50 kg/100 dfls as compared to 42 kg/100 dfls through direct brushing thus increasing the income at farmers level. This has created enthusiasm for more and more farmers to place indent for chawki reared silkworms during the forthcoming Falguni crop.

**राजभाषा कार्यक्रम**

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान, बहरमपुर में माह सितम्बर के दौरान दिनांक 01.09.2021 से 04.09.2021 तक विविध प्रतियोगिताओं (शब्दावली, निबंध, सुलेख व श्रुतिलेख तथा हिंदी टिप्पण व आलेखन) का सफल आयोजन कर दिनांक 14.09.2021 को संस्थान के निदेशक डॉ. किशोर कुमार, सी.एम. की अध्यक्षता में हिन्दी दिवस/पखवाड़ा का मुख्य समारोह आयोजित किया गया ताकि पदधारियों में राजभाषा हिन्दी के प्रति प्रेरणा व प्रोत्साहन की भावना संचारित हो तथा राजभाषा प्रावधानों के सम्यक अनुपालन व कार्यान्वयन और भी गति आ सके। इस अवसर पर, मुख्य अतिथि के रूप में पधारे श्री मोअज्जम एकबाल सिद्दीकी प्राध्यापक, केंद्रीय विद्यालय, बहरमपुर तथा निदेशक महोदय द्वारा संस्थान के अनुभागों तथा इसके संबद्ध केन्द्रों को वर्ष 2020-21 के दौरान राजभाषा नीति तथा इसके प्रावधानों के कार्यान्वयन में उत्कृष्ट योगदान हेतु क्षेउअके, कालिमपोंग, कोरापुट, अगरतला को राजभाषा चलशील्ड एवं प्रशस्ति-पत्र समेत आयोजित कुल 04 (चार) प्रतियोगिताओं के विजेता प्रतिभागियों को क्रमशः प्रथम, द्वितीय, तृतीय और सांत्वना पुरस्कार प्रदान कर प्रोत्साहित व पुरस्कृत किया गया।



अनुसंधान विस्तार केंद्र (अविके), दिमापुर, नागालैंड में 01 सितंबर से 14 सितंबर 2021 तक हिन्दी पखवाड़ा का अनुपालन किया गया। सर्वप्रथम, 01 सितंबर को केन्द्र-प्रभारी डॉ. कार्तिक नियोग, वैज्ञानिक-डी द्वारा सरकारी कार्यालयों में हिन्दी के प्रयोग की महत्ता पर सविस्तार चर्चा कर इसकी उपयोगिता से सभी कर्मचारियों को अवगत कराया गया। सभी से हिन्दी का प्रयोग बढ़ाने तथा राजभाषा नीति व प्रावधानों को गंभीरता से अनुपालन सुनिश्चित करने हेतु अनुरोध किया। तत्पश्चात, प्रभारी द्वारा सभी तकनीकी सहायक को कम्प्यूटर पर हिन्दी में कार्य करने के ब्यवहारिक रूप भी दिखाया गया। पखवाड़ा के दौरान हर दिन हिन्दी में काम, मासिक/तिमाही/बार्षिक रिपोर्ट, नोटशिट, कार्यालय आदेश आदि जैसे विषयों को कैसे हिन्दी में लिखना है, इसकी भी जानकारी दी गई। हिन्दी पखवाड़ा के अंतिम दिन अर्थात 14 सितंबर 2021 हिन्दी दिवस के रूप से मनाया गया और इस अवसर पर माननीय सदस्य सचिव, केंद्रीय रेशम बोर्ड का सदेश पाठ भी किया गया। साथ ही, दिनांक 14 सितंबर 2021 में सभी कर्मचारी के लिए पत्र-प्रारूपण प्रतियोगिता का आयोजन किया गया था जिसमें सभी तकनीकी सहायक उपस्थित हुए।



2 केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्था
न्यूज एंड व्यूज, दिसंबर, 2021

Hands on Training(REC, Agartala)

REC-Agartala has organized five days training (20.12.2021 to 24.12.2021) on latest rearing technologies with 20 sericulture farmers at Dukli sericulture Cluster Office, Tripura with the active co-operation of DHHS, Govt. of Tripura.

The programme was inaugurated on 20.12.2021 by Shri N. Murasingh, Deputy Director, DHHS, Govt. of Tripura. Shri S. Gangopadhyay, STA, highlighted the aim of the training. The Deputy Director in his address appreciated the initiative of REC, CSB to organize the training programme and urged the trainees to learn attentively the recent technologies of rearing developed by CSR&TI-Berhampore (WB). He encouraged the farmers to take-up silkworm rearing for increasing the silk production in the state.

Practical training on different technologies i.e. incubation, black boxing, brushing of eggs, moulting care, bed cleaning procedure, spacing of silk worms etc. were demonstrated to the trainees. The training was conducted maintaining all COVID-19 protocol. Upon successful completion of the training programme certificate was given to each participant along with a group photograph.

**ECP (REC-Mothabari)**

REC, Bagmara, Mothabari conducted farmers training on Chawki silkworm rearing from 14th to 18th December, 2021. Shri Abhijith Goswami, Deputy Director, DoS, Malda, Mr. Sourav Majumda, Sci-D(R&S), RSTRS, CSB, Malda, Dr. Vijay Naidu, Sci-D, Motabari coordinated in the training programme.

**ECP (REC-Dimapur)**

REC, Dimapur, Nagaland conducted three AW Programmes and three Technology Demonstration(TD) programmes during Nov and Dec, 2021. A total of 233 farmers were sensitized in three different places on 23.11.21, 30.11.21 and 03.12.21.



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TD Programmes (REC-Shillong)

REC-Shillong, Meghalaya organized a Technology Demonstration(TD) programme in coordination with Department of Sericulture & Weaving, West Jaintia Hills district, Govt. of Meghalaya at Ummulong village on 13.10.2021. Dr. N. Balachandran Sci-D and Mr. R. Synjri DSO, West Jaintia Hills and Mr. Bhashai Sericulture Inspector attended the programme in which twenty women farmers of the nearby villages participated. The advantages of the newly developed silkworm bed disinfectant “**Seri-Win**” by CSRTI-Berhampore was demonstrated. The advantages of this eco-friendly bed disinfectant, method of application and dosages required for each instar and were explained. The validation studies on Seri-Win bed disinfectant were conducted along with the existing bed disinfectant, Labex as control. The farmers were very keen to know about the new bed disinfectant being evaluated during the Autumn crop.



Another Technology Demonstration Programme was organized by REC-Shillong in coordination with Department of Sericulture & Weaving, Govt. of Meghalaya at Mookyndur village on 16-10-2021. Dr. N. Balachandran Scientist-D, REC-Shillong and Mr. R. Synjri District Sericulture Officer, West Jaintia Hills district and Mr. Bhashai Sericulture Inspector, Mr. Yu, Mrs. Gloria and Mrs. Harjena of DOS Govt. of Meghalaya participated in the programme. Twenty women farmers of nearby villages participated in the programme. The advantage of the **Sampoorna** (A phyto-ecdysteroid hormone) recommended for uniform spinning of silkworm was demonstrated to the participant farmers. The dosage and method of application were also demonstrated to the participants. The OFT studies on Sampoorna which will help in uniform maturation of silkworm within 24 hours of ingestion of Sampoorna sprayed leaves.

**ECP (RSRS-Jorhat)**

RSRS-Jorhat, Assam conducted a farmer's Field Day programme at an adopted village Dhundermukh, Sivsagar Dist. on 25.11.2021 in which a total of 51 farmers were participated. The latest technologies on chawki rearing, late age rearing and moulting care in silkworm rearing, moutage usage were demonstrated. The participating farmers were motivated to take up mulberry sericulture integrated with Eri & Muga silkworm rearing. Besides, the farmers were distributed 600 saplings of C-2028 and demonstrated plantation technology with 3'x3' spacing.



RSRS-Jorhat, Assam conducted six Extension Communication programmes at Lahing village of Jorhat district on 20.09.21, at Natun Chapori, Dergaon, Golaghat district on 22.09.2021, at Baphella, Jorhat on 6.10.21, at Mahkhuti village, Majuli district on 13.10.21, at Rangagoraghat, Golaghat on 25.10.21 and at Dhundermukh, Sivsagar district on 25.11.21. A total of 305 farmers and State DoS officials actively participated in all the programmes by following all precautionary measures of SOP of COVID-19 pandemic situation.

Demonstrated the following technologies to motivate the mulberry sericulture farmers integrated with Eri & Muga sericulture: -

- Usage of plastic mountages for mounting the spinning worms
- Plantation technique of C-2038 saplings in 3'x3' spacing
- Cultural practices of mulberry plantation and crop schedule
- Chawki rearing technologies(CPP)
- Disinfection with 5% Bleaching powder solution.
- Rotary Mountage usage and Mounting care
- Bed-disinfectant Labex and Lime were distributed to the adopted farmers.
- Sampoorna a phyto-ectesteroid hormone usage was demonstrated to curtail the feeding during V age and to reduce the V age larval duration for fetching successful crop.



Awareness Programme (REC-Sille, AP)

REC-Sille, has organized an awareness programme at Serum village under the Mebo-Development Block, Arunachal Pradesh on 08.12.2021. Shri Kalam Legu, Village Head presided over the programme in which 58 mulberry seri-farmers from Serum and nearby Villages participated. Shri Lohit Sonowal, Sci-C welcomed the farmers and explained in details about the benefits of doing mulberry and non-mulberry sericulture practices as compared to other agricultural crops. Shri Kalam Legu, Head of the village advised all participants to take up mulberry sericulture and improve their economy by adopting mulberry sericulture. He also requested the State Govt./Central Govt. offices to provide suitable assistance to the farmers so that they can come forward to start the seri-practices and earn money for their self dependency. Shri Subedar Pertin, STA, Shri Prabin Dutta, FA also gave speeches about the seri-technologies available for successful crop harvest.

**Scientists Participation****Suresh, K., Sci-C:**

International Web Conference on Innovative and Current Advances in Agriculture and Allied Sciences held during 19-21st July, 2021 at Meerut, Uttar Pradesh

V. Sivaprasad, Director, V. Lakshmanan, Sci-D & Chandrakanth, Sci-C:

Brainstorming workshop on Silkworm Improvement through online mode held on 18th August, 2021 at CSRTI-BHP

G. Srinavasa, Sci-D; D. Pandit, Sci-D; Shafi Afroj, Sci-C and Parameswara Naik J., Sci-B :

Brainstorming workshop on Socio-economics of sericulture through online mode held on 24th August, 2021 at CSRTI- BHP

Parameswara Naik J., Sci-B & Yallapa Harizon, Sci-B:

National Conference on sericulture diversification for the Millennium (SEDIMI-2021) held during 25-27th Nov, 2021 at the University of Agricultural Sciences, GKVK, Bangalore

Suresh, K., Sci-C:

VIth International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2021) held during 13-15th Dec, 2021 at SKRAU-Bikaner, Rajasthan

TTP (KVKs scientists)

CSR&TI, Berhampore conducted Trainers Training Program (TTP) for Scientists of ICAR-KVKs w.e.f. 13th to 17th Sept., 2021. Eight KVK scientists across the E & NE India took part in the programme. Hands on Training sessions were conducted every day to provide a holistic knowledge and skill to the participants about sericulture farming. On day-1, Dr. Kishor Kumar C.M., Director, CSR&TI, Berhampore chaired the inauguration function and briefed about the purpose of training and importance of convergence of extension activities of CSB with KVKs-ICAR. Further he urged the trainees to make use of the training at fullest extent and transfer the same to the field. Dr. Later, Dr. K. Suresh, Sci-C discussed on soil reclamation and nutrient management in mulberry. On day-2, establishment of mulberry plantation, management of mulberry disease & pest related topics were discussed. On day-3, disinfection methods and its importance in sericulture and importance of chawki silkworm rearing were discussed. On day-4, trainers were taken to seri-villages for a practical exposure of field and an ARM unit in Mehedipur, Murshidabad to have vivid experiences on post cocoon technology. On the last day topics on "Integrated farming system in sericulture" were discussed. The training ended with valedictory session & feedback of the participant trainees.

**R & D Meetings**

- A Video Conference on 15th July, 2021 with Commissioner of Sericulture, Govt. of W.B. on Murshidabad Sericulture Development Project
- 57th Research Council meeting held on 27th July, 2021
- 53rd Research Advisory Committee held on 23rd August, 2021
- 58th Research Council meeting held on 11th Nov., 2021
- Extension officer's meeting and Zonal Bivoltine Cluster Promotion Meeting on 12th Nov., 2021

ARTICLES FOR NEWS & VIEWS

Director, CSRTI-Berhampore publishes half-yearly News Bulletin regularly on promising research findings, ToT, Field Trials, Demonstrations, Farmers' Day, Training Programmes and other important events. Officers and Staff working at main institute, RSRs and RECs of Eastern & North Eastern states are requested to communicate articles to Director, CSRTI-Berhampore, West Bengal for publication. Communication may also be made by E-mail to csrtiber.csb@nic.in / csrtiber@gmail.com

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