

### निदेशक के मेज से

सेरी आनुवंशिक संसाधन अपार मूल्य हैं और रेशम उत्पादन की समृद्धि तथा राष्ट्रीय भावी पीढ़ियों के लाभ हेतु उनके मूल वर्णों को सही रूप से संरक्षित किया जाना आवश्यक है। सेरी - जैव विविधता के संरक्षण के उद्देश्य के लिए संग्रह, लक्षण वर्णन, मूल्यांकन, संपोषण और अनुसंधान संस्थानों द्वारा फसल के सुधार कार्यक्रमों में प्रजनन के सामग्री की आपूर्ति के लिए शहतूत तथा रेशमकीट आनुवंशिक संसाधन के अनिवार्य गतिविधियों के साथ केन्द्रीय रेशम बोर्ड ने के रे ज सं के, होसूर की स्थापना की। राष्ट्रीय निकायों एन बी पी जी आर तथा एन बी ए आई आई द्वारा इस केन्द्र को शहतूत तथा रेशमकीट जननद्रव्य के लिए नेशनल एक्टिव जर्मप्लाजम साइट के तौर पर मान्यता प्रदान किया गया है।

हाल ही में के रे बो, बेंगलूर द्वारा आयोजित शहतूत रेशमकीट प्रजनक बैठक इस केंद्र के लिए एक उपयुक्त अवसर था, जहां पिछले दो दशकों से किए गए इस केंद्र के अनुसंधान कार्यों तथा सहयोगी परियोजनाओं के विस्तृत प्रस्तुति को प्रदर्शित किया गया। इस केन्द्र में मूल्यांकन किए गए उदीयमान रेशमकीट अभिगम को मैसूर, बरहामपुर, पंपोर, तथा एपीएसएसआरडीआई हिन्दुपुर के अनुसंधान एवं विकास के संस्थानों में, प्रजनन की परियोजनाओं में प्रजनन के संसाधन सामग्री के रूप में जोड़ा गया है। के रे बो के विभिन्न अनुसंधान एवं विकास के संस्थानों में और राज्य / विश्वविद्यालय के अनुसंधान केन्द्रों में संरक्षित जननद्रव्य की जानकारी को अपलोड करके के रे ज सं के को रेशमकीट तथा शहतूत के जननद्रव्य हेतु एक नोडल केंद्र / भंडार के रूप में बनाने के लिए प्रयास किए जा रहे हैं। राष्ट्रीय स्तर पर रेशम उत्पादकता को बढ़ावा देने के लिए राष्ट्रीय स्तर पर संरक्षित सेरी आनुवंशिक संसाधनों का विवरण फसल के सुधार कार्यक्रमों में अंतिम उपयोग हेतु किसी भी हितधारक के लिए उपलब्ध है।

#### " आमंत्रित "

नव रेशमकीट तथा शहतूत जननद्रव्य का पंजीकरण

विभिन्न संस्थाओं के तहत विकसित नरेशमकीट / शुद्ध शहतूत को बौद्धिक संपदा अधिकार की रक्षके लिए के रे ज सं के में जननद्रव्य के पंजीकरण हेतु आमंत्रित किया है।

### From Director's Desk

The Seri genetic resources are of immense value and needs to be preserved as true to their original characters for the benefit of sericulture prosperity and national posterity. CSGRC, Hosur was established with objective of conservation of seriodiversity with mandated activities of collection, characterization, evaluation maintenance and supply of mulberry and silkworm genetic resource for research as breeding material in crop improvement programmes by research institutes of Central Silk Board. The centre is recognized as National Active Germplasm Site for mulberry and silkworm germplasm by national bodies NBPGR and NBAII.

The Mulberry Silkworm Breeders meet organized by CSB, Bangalore recently was the opportune moment for the centre, where the detail presentation of research work carried out for past two decades by the centre and through various collaborative projects were presented. The promising silkworm accessions which were evaluated are now added in the breeding projects of R & D Institutes at Mysore, Berhampore and Pampore and APSSRDI, Hindupur as breeding resource materials. Efforts are on to make CSGRC, Hosur as a nodal centre/repository for germplasm of silkworm and mulberry by uploading the information on the germplasm conserved at various R&D Institutions of CSB and State/University research centres. The details of the seri genetic resources conserved at national level would enable the accessibility to any stakeholder for ultimate utilization in crop improvement programmes to boost the silk productivity at national level.

#### "INVITED"

**REGISTRATION OF NEW SILKWORM AND MULBERRY GERMPASM**

**New silkworm / mulberry pure breeds developed under different institutions are invited for registration of germplasm at CSGRC, Hosur to protect Intellectual Property Rights.**

### Survey and exploration in Goa for collection of mulberry germplasm

Survey and exploration was undertaken in Goa and adjoining places during November 20 to December 2, 2012 by Scientists Shri M.M. Borpuzari and Dr. A. Ananda Rao, CSGRC, Hosur for collection of mulberry genetic resources and collected 10 mulberry germplasm samples representing 3 *Morus* species (*Morus indica*-8 collections, *Morus alba* one collection and *Morus laevigata* one collection). The Margao collection belongs to *M. indica* with 0-7 lobed leaves and having sweet fruits. The survey team recorded more than fifty trees in the entire village and being used extensively as fencing material and for fruit purpose. The Curcholem collection belongs to *Morus alba* with short styles, spreading stigma and it is being used as fodder. The collection from Mangur hills belongs to *M.laevigata* with broad ovate, multilobed, rough leaves. The forest areas covering Siroda, Ponchavadi, Bandoli and Bhagawan Mahaveer Nation park , Cancona, Cotigao wild life sanctuary was also surveyed.



*M.indica* at Mapusa



*M.indica* at Muddavadi Saligam



*Morus indica* at Margao



*M.laevigata* at Mangor hills



*M.indica* at Salcete

### Collection of silkworm genetic resources

The centre added eleven Bivoltine silkworm races (CSRTI, Berhampore-2, CSRTI, Pampore 4 & APSSRDI, Hindupur 5) and three Multivoltine races from APSSRDI, Hindupur for enriching collections in silkworm gene bank, in addition to one multivoltine Pure Mysore (Mutant) collected earlier from SSTL, Kodathi



which is introduced to germplasm bank after quarantine rearing. One introduction / quarantine rearing of the newly added races is completed.



### Supply of silkworm and mulberry germplasm

Supply of silkworm genetic resources was made to indenters for PG Research, All India Evaluation Programme and as breeding resource material. Supplied 40 MV to 9 indenters in 10 spells and 177 BV accessions to 16 indenters in 21 spells.

Ten Mulberry fruit yielding accessions were supplied to Bangalore Environment Trust, Bangalore for popularization as avenue tree plantation and greening the eco-system in public parks and extensions.

### Feed back information on supply of mulberry and silkworm germplasm

The centre formulated a comprehensive format to collect feed back information on utilization of serigenetic resources against supply effected by the centre. The data on feed back information collected including earlier supplies made are analysed to assess the utility of germplasm material. The indenters are informed to validate the utility by acknowledgements in publications. The list of publications are uploaded at CSGRC website. The analysis on supply and utilization for mulberry and silkworm germplasm is as follows:

Sl. No.	Purpose	Mulberry	% utilisation *
1	Research	735	74.92
2	Fruit	118	12.03
3	Germplasm Maintenance	110	11.82
4	Others **	12	1.22
	Total	981	100.00

\* Repeat supply; \*\* Others includes biomass and timber

Total no. of mulberry accessions in the FGB	1254
No of accessions utilised through supply of mulberry germplasm	494
Percentage of utilisation	39.4

Sl.No.	Purpose	Silkworm	% utilisation *
1	Research	1184	95.17
2	Maintenance	60	4.83
	Total	1244	100.00

\* Repeat supply

Total no. of silkworm accessions in the Gene Bank	443
No of accessions utilised through supply of silkworm germplasm	237
Percentage of utilisation	53.50



### Field Day

Sericulture field day was organized by M/S. Sanjeevi Trust, Hosur based NGO involved in the Intensive Sericulture Cluster Promotion Programme sponsored by National Bank for Agriculture and Rural Development (NABARD) at Madam Samparasanapalii village of Shoologiri taluk on 25/07/2012. Shri.S.Palanichamy the managing trustee of M/s. Sanjeevi Trust, Hosur welcomed the dignitaries and the sericultural farmers from nearby villages. The demonstration plot of Shri.Venkatesh of the village was shown to the 100 sericultural farmers of the Shoologiri and Berikai areas where all the organic farming practices were done in comparison with the normal package of practices. Dr.A.Manjula Director, CSGRC, Hosur the chief guest of the function addressed the sericulturists on the latest and improved package of practices to be practiced by the sericultural farmers for successful cocoon production and the need for bivoltine sericulture. Shri. Chidambaranathan, Deputy General Manager NABARD, Krishnagiri narrated the role of NABARD in the upliftment of rural people through its various schemes. Shri.Theerthagiri, AD, DOS, Hosur explained the support and incentives from the Govt. of Tamil Nadu for taking up sericulture. The District Lead bank manager from Indian Bank also spoke about the credit facilities available for sericulture activities. Shri. N. Balachandran and Dr. K. Jhansilakshmi Scientist-Cs' of CSGRC Hosur also participated in the field day. The financial assistance from NABARD was handed over to the lead farmer for coming forward and extending his farm for the demo-farm for the programme. Shri. R.Durai the faculty of M/S. Sanjeevi trust proposed the vote of thanks.



### Research Advisory Committee Meeting

The 31<sup>st</sup> RAC meeting was held on December 29, 2012 and was chaired by the chairman Dr.K.C.Bansal, Director, NBPGR, New Delhi; and attended by RAC members, Invitees and Scientists. The progress / highlights of various research activities and the follow-up-action taking by the centre since the last RAC was briefed by the Director.



The chairman and members of RAC expressed happiness over the progress of the centre and chairman gave suggestions for formulating quality projects to improve silk development in the country and to garner funds from CSB and other S & T organizations for the diversification of the activities of the centre.

The RAC Committee felicitated Dr.S.M.H.Qadri, Director, CSRTI, Mysore and Sri.H.V.Vijaya kumar, Scientist-D, CSGRC, who will be superannuating before the next RAC.

### Human Resource Development Programme

Sri. R.Radhakrishnan, Scientist-C and Dr.S.R.Ramesh Scientist-C were deputed for training on "Integrated Scientific Project Management for Middle Level Scientists" sponsored by Department of Science & Technology, Government of India held at Centre for Organization Development, Hyderabad during November 19-23,2012. The objective of the training was to acquaint the participants of conceptual inputs on effective scientific project management and to provide exposure to tools and techniques on integrated project management.

### Hindi Pakhwada and Hindi Diwas

Celebrated Hindi Pakhwada during September 14-29,2012 to promote use of Hindi as official language. The staff of sister units of CSB viz. SSPC & ESSPC, Hosur actively took part in the programme.



Hindi Diwas was celebrated on September 14, 2012 as a part of Hindi Pakhwada. The variety of competitions like debate, essay writing, poem reading, script reading, antakshari,

glossary, quiz, songs & jokes presentation were organized and staff participated very enthusiastically. The closing ceremony was organized on 29.09.2012, presided over by Dr. A. Manjula, Director and presented prizes to winners of the competitions.

### Hindi workshop

The centre organized two workshops on 28 September and 31 December 2012 for effective implementation of Hindi as official language. Smt. Neetha Sharma, Hindi Teacher, SDA



School, Hosur and Ms. Sheeba V.S. Jr.Translator (Hindi) conducted sessions on Hindi grammar respectively which were actively participated by the staff and facilitated for effective and simple ways to increase the use of Hindi in day to day official works.

## VISITORS GALLERY

### Member Secretary, Central Silk Board visits CSGRC, Hosur

Smt. Ishita Roy, I.A.S, Member Secretary of Central Silk Board visited CSGRC on December 7, 2012. Dr.A. Manjula, Director, CSGRC briefed on seribiobiodiversity and Research activity of the centre. Further laboratory facilities, Herbarium maintained at the centre were shown to the Member Secretary who evinced keen interest and appreciated the efforts on conservation of Mulberry and Silkworm germplasm maintenance.



### National Productivity Council (NPC) Team Visit

Dr.K.P.Sunny, Group Head (Economic and Support services), National Productivity Council, Ministry of Commerce & Industries, New Delhi visited the centre on August 24, 2012 to conduct evaluation of R & D activities during XI Plan under centrally sponsored schemes and central sector schemes of CSB.



### Other Visitors

The Bio-diversity and conservation technologies practiced successfully by the centre in maintenance of rich collection of serigenetic resources attracts wide range of researchers, school/college students, farmers, NGO's and policy makers.

School children from Shemford school, Karnataka & Tamil Nadu on their orientation training programme visited the centre along with escorts from Department of Sericulture, Government of Karnataka & Tamil Nadu.



The visitors had the glimpse of rich collection of silk related specimens, samples, books & bulletins and artefacts. Further as a novel approach to bring up awareness on seribiobiodiversity and to promote improvement of ecosystem, the Director made arrangements for distribution of saplings of fruit yielding mulberry varieties to the visitors for planting in their school premises and as avenue trees.

### Superannuation



The Centre bid farewell to **Dr. G.K. Srinivasa Babu, Scientist-D**, who retired on September 29, 2012.



**Smt. R.L.Veenakumari, Assistant** took voluntary retirement on September 1, 2012.



**Shri. Mehaboob Basha, Skilled Worker** resigned on August 31, 2012.

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To