

**Minutes of 51<sup>st</sup> Meeting of Research Council  
(3<sup>rd</sup> Sept 2019 at CSRTI-Berhampore, West Bengal)**

51<sup>st</sup> Research Council meeting of CSR&TI, Berhampore was held on 3<sup>rd</sup> Sept 2019 under the Chairmanship of Dr. V. Sivaprasad, Director (CSRTI-Berhampore) in the Institute.

Dr. D. Pandit, Scientist-D (PMCE) welcomed Dr. V. Sivaprasad (Director & Chairman of RC), scientists and other participants. At the outset, Dr. V. Sivaprasad in his introductory remarks highlighted execution plans to achieve the R&D targets for 2019-20 and thrust areas of sericulture. He also encouraged the scientists to make team efforts for the development sericulture in the zone. Later, agenda-wise items were taken up for discussion. List of participants is appended in **Annexure – I**.

**ITEM NO.1: Confirmation of the minutes of 50<sup>th</sup> meeting of Research Council (RC) held on 29<sup>th</sup> April, 2019 at CSRTI-Berhampore.**

As, no comments were received from any of the members, the minutes were confirmed.

**ITEM NO. 2: Review of follow-up action taken on the recommendations/ decisions of 50<sup>th</sup> meeting of Research Council (RC) held on 29<sup>th</sup> April, 2019.**

Regarding powder formulation of Morizyme-B, the concerned are advised to take necessary steps in developing and present the results in front of the house at the earliest.

**[Action: Dr. Anil Pappachan and Dr. Deepika, K. U, Sci-Bs]**

The PI is advised to modify the project proposal entitled **Final Yield Trial of newly identified mulberry genotypes** as per the suggestions in the last RC and submit to CSB at the earliest.

**[Action: Dr. Suresh, K., Sci-C & Shri. D. Chakravorty, Sci-D, MBG]**

Regarding the concept note entitled **Identification & improvement of resistance against whitefly in mulberry**, the PI is advised to prepare a reply in response CO comments for reconsideration of the concept note at the earliest.

**[Action: Shri Yallappa H., Sci-B & Shri. D. Chakravorty, Sci-D, MBG]**

Regarding the concept note entitled **Improvement of leaf longevity of mulberry in E & NE India**, the PI is advised to submit the detailed reply in response to CO's comments for necessary approval of the same.

**[Action: Dr. Deepika K. U., Sci-B & Shri. D. Chakravorty, Sci-D, MBG]**

Regarding the concept note entitled **Mulberry crop schedule for optimal silk productivity in West Bengal**, the PI is advised to submit the full proposal as pilot study to CO for immediate initiation.

**[Action: Dr. Suresh, K., Sci-C, MBG & Shri. D. Chakravorty, Sci-D, MBG]**

Regarding the concept note **Reclamation of acidic soils for improved leaf & cocoon productivity in Assam**, the PI is advised to wait for the CO response and accordingly take necessary action.

**[Action: Ms. Immanuel C H, Sci-B, Agronomy & Soil]**

Regarding the approved concept note entitled **Improvement of Nistari lines for survival & silk productivity**, the PI is advised to submit the full proposal for referees comment immediately.

**[Action: Dr. T. Ranjita Devi, Sci-B & Dr. A.K Verma, Sci.-D, SBG]**

Regarding the approved concept note entitled **Identification of high humidity tolerant silkworm breeds for E & NE India**, the PI is advised to submit the full proposal for referees comment at the earliest.

**[Action: Dr. Raviraj V.S., Sci-B & Dr. V. Lakshmanan, Sci.-D, SBG]**

Regarding the concept note **Development of an Aptamer based technique for the detection of *Nosema bombycis* infection in silkworm**, the PI is advised to prepare the detailed concept note with desired reviews and submit the CSB for international collaboration cum extramural fund.

Regarding TOT project entitled **Silkworm disease monitoring of seed and commercial crop rearing of Eastern & North Eastern states**, the PI was advised to submit the detailed proposal to CO for necessary approval.

**[Action: Dr. K. Rahul and Dr. M. Rabha, Sci- B, SW. Pathology]**

The concept note entitled **A Novel rapid, simple and inexpensive method for assessment of soil biological health**, the PI is advised to wait for the CO response and accordingly take necessary action.

**[Action: Dr. Aparna Kopperapu, Sci-B, Biotechnology]**

The concept notes entitled **Impact assessment of sericulture technologies in West Bengal** and **Empirical analysis on disparities of sericulture development in E & NE India** were submitted to Dr. R S Deshpande, RCC member (Expert in Social Science) for his valuable suggestions and accordingly, the PIs are advised to take necessary action.

**[Action: Dr. Manjunatha G. R., Sci-C, PMCE and Dr. P. Naik J., Sci-B, Training]**

The concept note entitled **Development of Integrated Farming System Model for Livelihood Security of Farmers in the hilly regions of Kalimpong District**, the PI is advised to submit the proposal in collaboration with KVK to CO for necessary approval.

**[Action: Dr. Harish Babu S., Sci-B, RSRS-KPG]**

Regarding conclude project **PPA 3588: Evaluation of low cost drip fertigation systems on yield and quality of mulberry leaves**, the PI is advised to conclude the project as per the prescribed format, as it was concluded in March 2019.

**[Action: Dr. R. Mahesh, Sci-C, Agronomy & Soil Sci.]**

Regarding conclude project **AIB3577: Evaluation of multivoltine germplasm to identify potential parents for developing cross breeds suitable for S & E India**, the PI is advised to conclude the project as per the prescribed format, as it was concluded in March 2019.

**[Action: Mr. G C Das, Sci-D, Extension]**

Regarding continuous activities of SBG (germplasm) and Entomology (pest survey) sections, the concerned in-charge/ PIs are advised to submit the concluded report for further necessary action at the earliest.

**[Action: Smt. Radha, MB, Sci-B, Entomology,  
Dr. A K Verma, Sci-D and Dr. V. Lakshmanan, Sci-D, SBG]**

### **ITEM NO. 3: APPROVAL OF NEW RESEARCH PROJECTS**

The following new research proposals/concepts were presented by the concerned scientists and RC critically reviewed the proposals. The decisions are as follows:

**1. Title:** Identification of superior Bivoltine foundation cross as a male component to improve productivity in E & NE India

**Duration:** 3 years

**Observation/Suggestion:** The PI is advised to consider survival percentage as one of the trait. Focus the proposal with target characters (cocoon & shell weight) for specific purpose/ season. Clear cut breeding plan should be highlighted in the methodology.

**Decision: Approved** and advised to revise the proposal & submit the concept note as per prescribed format to CSB for necessary approval.

**[Action: Dr. V. Lakshmanan, Sci-D, SBG]**

**2. Title:** Biology and feeding efficacy studies of *Cheilomenes sexmaculatus* and *Chrysoperla zastrowi sillemi* predator for the eco-friendly management of mulberry whitefly (*Aleroclava pentatuberculata*, *Dialeuropora decempuncta*)

**Observation/Suggestion:** The PI is advised to modify the title & objectives covering the improvement of mass multiplication procedure. Proposal needs detailed review work (including CSB studies) and prepare in collaboration mode with ICAR-National Bureau of Agricultural Insect Resources, Bangalore.

**Decision: Approved (2 years)** and advised to revise the proposal as suggested & submit the concept note as per prescribed format to CSB for necessary approval.

[Action: Smt. Radha, M B, Sci-B, Entomology]

**3. Title:** Development of Seri-Extension Model for West Bengal

**Duration:** 4 years

**Observation/Suggestion:** The PI is advised to highlight features of new-model & its role vis-a-vis existing extension models; as the emphasis should be stand alone model how new model would fit in?; involve CSB-Bankers-DoS-CRCs & show their roles clearly; include digital services and estimate economic benefits from the proposed model with 500 beneficiaries.

**Decision: Approval kept pending in current form**, however, it would be re-considered, provided proposal should come-up with the clear-cut aims & execution plans, as discussed in the meeting.

[Action: Mr. Shafi Afroz, Sci-C, Extension]

#### ITEM NO. 4: Review of Concluded Projects/ Activities

The following research projects/ activities which have concluded during the period were discussed.

**1. Activity:** Adarsh Swachh Resham Gram at Mallikpur-Diara

**Suggestions:** The PI is advised to relook the data presented pertaining to cocoon weight & gross income, as it found to be upper side and accordingly data range should be incorporated in concluded report and submit the same to PMCE for further necessary action at the earliest.

[Action: Dr. N Chandrakanth, Sci-C, SBG & Dr. T D Biswas, Sci-D, Extension]

#### ITEM NO. 5: REVIEW OF PROGRESS OF ON-GOING PROJECTS/ PILOT STUDIES/ ACTIVITIES:

Following on-going projects/pilot studies/ activities of the main institute were discussed in brief and the PIs/ concerned were advised to achieve the milestones as per approved project proposals/ target of the activities as per the annual action plan. Further, the concerned were advised to conclude projects/ pilot studies as per time frames without any extension.

- **PIB 3576:** Evaluation of new mulberry GRs for improvement in productivity & quality
- **PIB 3505:** Development of drought tolerant mulberry variety for rainfed sericulture
- **PIB 3610:** Preliminary evaluation of newly evolved mulberry genotypes for mulberry improvement
- **PIB 3627:** Development of superior mulberry genotypes through Polyclonal Seed Orchard
- **PIE 02002SI:** Evaluation of performance of mulberry genotypes C-9 under red and laterite soil
- **PRP 08002MI:** Identification of candidate genes based powdery mildew resistance for utilization in disease resistance breeding in mulberry [Coll. of SBRL, Kodathi]
- All India Co-ordinated Experimental Trial for Mulberry Varieties **AICEM-Phase IV**
- **PPS 3600:** Soil health card preparation for mulberry growing soils in E & NE India
- **PRP 02003SI:** Studies on the management of mulberry root rot disease in Eastern and North Eastern India
- **AIB3602:** Development of thermotolerant Bivoltine Breeds / Hybrids of Silkworm, through MAS
- **AIB 3617:** Identification of region specific bivoltine hybrids suitable for highly fluctuating and seasonally variable climatic conditions of E & NE India
- **AIB 3616:** On farm trial of the multivoltine silkworm breeds/ hybrids developed for high shell percentage and neatness of silk filament
- **AIB 3619:** Development of silkworm congenic breeds from a gene pool with higher genetic plasticity

- **ARP3605:** Validation of the DNA markers in silkworm breed developed by introgression of DNA markers associated with NPV resistance using MAS breeding and large scale field trial of the breed [DBT funded Coll. SBRL, B'lore, CSR&TI-Mysore & Pampore]
- **AIB3578:** Evaluation of exotic by silkworm breeds to identify promising parental genetic resources [Coll. with CSGRC-Hosur, CSRTI-Mysore & Pampore]
- **ARP 3590:** Studies on the efficacy of phototrophic bacterial extracts as feed supplement for management of diseases in silkworm
- **ARP 3630:** Evaluation of new room and silkworm bed disinfectants
- **PRE3589:** Assessment of designed antimicrobial peptides for mulberry protection against brown leaf spot and root rot: a biotechnological approach
- **AIC 02004CN:** Molecular characterization and assessment of the efficacy of low molecular weight peptides isolated from mulberry leaf against flacherie disease of silkworm (in coll. with UNB Siliguri)
- **Pilot study:** Studies on the effect of preservation of dried cocoon on reeling efficiency and yarn quality parameters
- **TOT prog.:** Mass multiplication and maintenance of bio-control agent – *Scymnus pallidicollis* and its popularization at farmers' level
- **Seri Model Village (SMV), CPP, CBT, Extension and Other continuous activities**

The meeting was ended with the vote of thanks.

Date: 20-9-2019

(Dr. V. Sivaprasad)  
Director & Chairperson  
Research Council  
CSRTI-Berhampore

#### ANNEXURE -I

#### **LIST OF SCIENTISTS/PARTICIPANTS IN THE 51<sup>ST</sup> MEETING OF RESEARCH COUNCIL (RC) HELD ON 03.09.2019 AT CSR&TI, BERHAMPORE, WEST BENGAL**

#	Name	Designation
1.	Dr. V. Sivaprasad	Director
2.	Dr. T. Dutta (Biswas)	Scientist-D, Extension & Pub. Division
3.	Dr. V. Lakshmanan	Scientist-D, SBG Section
4.	Dr. S. Chattopadhyay	Scientist-D, Biotechnology/Training Division
5.	Dr. A. K. Verma	Scientist-D, SBG Section
6.	Dr. Dipesh Pandit	Scientist-D, PMCE Division
7.	Shri D. Chakravarty	Scientist-D, Moriculture Division
8.	Shri Goutam Mitra	Scientist-D, R & S Division
9.	Dr. S. Sarker	Scientist-D, Training Division
10.	Shri G.C.Das	Scientist-D, Extension & Pub. Division
11.	Dr. Manjunatha, G. R	Scientist-C, PMCE Division
12.	Dr. N. Chandrakanth	Scientist-C, SBG Section
13.	Dr. Suresh K	Scientist-C, MBG Section
14.	Dr. V. Vijay	Scientist-C, Agronomy and Soil Sci. Section
15.	Ms. P. Makwana	Scientist-C, Biotechnology Division
16.	Dr. R. Mahesh	Scientist-C, Agronomy and Soil sci. Section
17.	Mr. Shafi Afroz	Scientist-C, Extension & Pub. Division
18.	Dr. Anil Pappachan	Scientist-B, Mulberry Pathology Section
19.	Dr. K. Rahul	Scientist-B, Silkworm Pathology Section
20.	Dr. Mihir Rabha	Scientist-B, Silkworm Pathology Section
21.	Ms. Immanuel Chongboi Haokip	Scientist-B, Agronomy and Soil sci. Section
22.	Dr. Raviraj V.S.	Scientist-B, SBG Section
23.	Dr. Thangjam Ranjita Devi	Scientist-B, SBG Section
24.	Dr. Aparna Kopparapu	Scientist-B, Biotechnology Division
25.	Dr. Parameswara Naik.J.	Scientist-B, Training Division
26.	Dr. Deepika Kumar Umesh	Scientist-B, MBG Section
27.	Smt. Radha M B	Scientist-B, Entomology Section