

Minutes of 62nd meeting of Research Council held on 05.12.2022 at CSR&TI Berhampore, West Bengal

62nd Research Council meeting of CSRTI-Berhampore was held on 5th December, 2022 under the Chairmanship of Dr. C. M. Kishor Kumar, Director, CSRTI-Berhampore.

At the outset, Dr. Dipesh Pandit, Scientist-D, PMCE welcomed Chairperson RC, Scientists and other participants and requested for brief & crispy presentation and healthy interaction for improvement of the presentation.

Director in his opening remark emphasized and advocated the scientists to bring some noticeable impact in field for promotion of sericulture Eastern and North Eastern region. He also discussed on the views of the RCC clearly. It was also advised to the scientists for improvement in research publication, particularly the abstracts presented in the recent conferences or seminars to be converted into full length research papers for publication in reputed scientific journals. He further stressed upon submission of new concept notes to meet the target of initiating 8 new projects. Later, agenda-wise items were discussed. List of participants is appended in **Annexure - I**.

Since there were no comments received from anybody, minutes of the 61st RC meeting were approved by the house and proceeding was taken forward further as per agenda.

Review of Concluded research project/ OSTs/OFTs/Routine activities:

AIC02004CN: 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*)

The project was concluded. PI was advised to explore Techno-economic feasibility of designed antimicrobial peptides for commercial exploitation.

Submission of New Projects: Nil

Review of Ongoing research project/ OSTs/OFTs/Collaborative projects/ Routine activities:

Mega Project-1:

MOE 02015 MI (C-I): Evaluation of high yielding & bacterial leaf spot resistant mulberry variety C2070

The progress of the component of this Mega project was as per mile stones.

[Action: Dr. Deepika K. U., Sci-C, MBG]

MOE 02015 MI (C-II): Evaluation of high yielding and low temperature stress tolerant varieties C-2060 & C-2065

Progress of the component of this Mega project was found as per milestones.

[Action: Dr. Suresh K., Sci-C, MBG]

MOE 2015 MI (C-III): Low-cost drip fertigation for mulberry

PI was suggested to check leaf yield data across the centers and also Drum kit compared to drip tape fertigation system. If possible, application of liquid fertilizer through drip may also be explored under the project.

[Action: Dr. Yallappa H., Sci-C, MBG]

MOE 02015 MI (C-IV): Evaluation of Eco-friendly silkworm rearing bed disinfectant SERIWIN

Progress of the component of this Mega project was found as per milestones.

[Action: Dr. Rabha M., Sci-C, Silkworm Pathology]

Mega Project-2:

MOE 02014 SI(C-I): Popularization of New Mulberry Varieties (C-2038, Tr-23/BC₂59 & C-2028)

Progress on the establishment of nursery and distribution of C2038 saplings by the nested units is inadequate. PI was advised to send one more letter to this effect, while seeking clarification of the earlier letter

[Action: Dr. K. Suresh, Sci-C, MBG]

MOE 02014 SI (C-II): Popularization of Bio-Control Agents (BCA) for the management of mulberry pests

PI was advised to achieve the target in time since pest incidence is season bound

Action: Mr. Khasru Alam, Sci-C, Mulberry Crop Protection]

MOE 02014 SI (C-III): Popularization of eco-friendly disinfectant, NIRMOOL

MOE 02014 SI (C-V): Popularization of Sampoorna

The progress was found as per milestones; however PI was advised to consider yield/100dfis while presenting the data in future

Action: Dr. Rabha M., Sci-C, Silkworm Pathology]

MOE 02014 SI (C-IV): Popularization of Chawki, Shoot/Shelf rearing & Plastic collapsible mountages.

Progress of the component-IV of Mega project was as per milestones, however, achieving the target in time at the nested unit may be followed up.

[Action: Dr. Shafi Afroj, Sci-C, SEEM]

Projects:

PIB 02007 SI: Improvement of mulberry leaf longevity in E & NE states of India

The progress of the project was as per milestones; PI was advised to present the data using bar graphs instead of line graphs. PI was also advised to present normal leaf senescence data along with data recorded by NDVI in future.

[Action: Dr. Deepika K. U., Sci-C, MBG]

PPA 02005 SI: Optimization of spacing and nutrient dose for the newly developed high yielding mulberry variety (C2038) under irrigated condition.

PI was advised to present the leaf yield and growth attributes data year wise and then collective data. PI was suggested to utilize unspent budget to prevent underutilization of budget.

PIE 02013 SI: Final Yield Trial of newly identified mulberry genotypes for leaf productivity and quality

The progress was found as per milestones

PIB 03013 SI: Development of high yielding quality mulberry (*Morus* spp.) genotypes under subtropical conditions of Northern India (*Collaborative project with RSRS Jammu*)

The progress of the project with RSRS, Jammu was as per milestones.

[Action: Dr. Yallappa H., Sci-C, MBG]

PIE13001MI: All India Coordinated Trial for Mulberry Varieties (AICEM): Phase IV

The progress of the project was as per milestones. Availability/Survivability of plants in some blocks of AICEM plot at RSRS, Jorhat is less as informed by the center in charge and the same may be looked into by the PI

PIE 02002SI: Evaluation of performance of mulberry genotypes C-9 under red and laterite soils

Progress of the project was as per milestones

PIB02010SI: Final yield trial of promising high yielding mulberry genotypes for Eastern and North-Eastern India

Progress of the project was as per milestones

[Action: Dr. K. Suresh, Sci-C, MBG]

APS02020MI: Improvement of seed crop productivity in West Bengal

PI was advised to discuss with DoS regarding selection of bivoltine farmers from Birbhum district in the forthcoming Seed Committee meeting with DoS on 9.12.2022. PI should explore the possibilities of making a distinction between seed and commercial farmers if possible.

[Action: Dr. Satadal Chakraborty, Sci-D, Farm Management]

ARE01028MI: Recommendation of novel fungicidal and insecticidal applications for mulberry (coll. with CSR&TI, Mysore)

The project was just initiated and progress was found as per milestones.

[Action: Mr. Khasru Alam, Sci-C, Mulberry Crop Protection]

AIB01009MI: Evaluation of New Bv Double Hybrid, TT21 x TT56 at Farmers Level for Authorization for Commercial Exploitation (*Coll. with CSRTI, Mysore*)

Progress was found as per milestones however PI was advised to check the data on the shell content as it was very high in some cases

AIE02018SI: Identification of superior Bivoltine foundation cross as a male component to improve cross breed productivity in E & NE India

Progress was found as per milestones

[Action: Dr. N. Chandrakanth, Sci-C, SBG]

AIB02006MI: Improvement of Nistari lines for survival and silk productivity

The progress was found as per milestones. PI was advised to revise the budget upto Rs.8.0 lakhs including some amount in contingency head.

[Action: Dr. Ranjita Devi, Sci-C, SBG]

AIT08005MI: Development and evaluation of Bidsenovirus resistant silkworm hybrids developed from marker assisted breeding lines-Phase-II (*Coll. of SBRL, Kodathi*)

Progress was found as per the milestones

Routine programme: Silkworm disease monitoring of seed and commercial crop rearing of Eastern & North Eastern states

The programme was found as per milestones. It was advised the concerned to be in close contact with DoS and nested units for obtaining regular data.

With regard to the pilot programme, **Extraction of pharmaceutical grade sodium copper chlorophyllin from silkworm feculae**, PI was advised to make a detailed report on the findings of the LC-MS & NMR analysis obtained from C-CAMP which showed lot of impurities in the extracted sample, therefore, extraction of pharmaceutical grade product in project mode may not be economically feasible.

[Action: Dr. M. Rabha, Sci-C, SWP]

AIT 02012CI: Characterization of mulberry silkworm, *Bombyx mori* L. mutants for tolerance to flacherie syndrome through genome editing tools (DST-SPS project)

The progress of the project was as per milestones.

[Action: Dr. Pooja Makwana, Sci-C, Biotech]

AIT02008SI: Identification of high humidity tolerant silkworm breeds/hybrids for Eastern & North-Eastern India

Progress of the project was found as per the milestone. However, PI was advised to incorporate survival data along with cocoon and associated parameters while making presentation

AIB02019MI: Development of bivoltine double hybrids suitable for different regions of India

Progress was found as per the milestones.

[Action: Dr. Raviraj V.S., Sci-C, Biotech]

MOE 02011 EF: Development of Seri-Entrepreneurship in Chawki rearing (MDB-WB) (NABARD funded)

The progress of the project was found satisfactory and as per milestones.

[Action: Dr. Shafi Afroj, Sci-C, SEEM]

MOT 02016 EF: Seri-Entrepreneurship development in aspirational districts of NE India (DBT funded)

Progress of the project was found as per the milestone. PI was advised to explore E-Procurement of reeling machines and obtaining non-availability certificate for the same from GEM.

Progress of the activities of Training Division was presented and was found satisfactory and as per milestones.

[Action: Dr. P. Naik., Sci-C, Training Division]

Follow up action of RSRS, Kalimpong

MTL 02017 CN: Study on sericulture based IFS in hilly region of West Bengal

While reviewing the project it was observed by the house that PI has not prepared any slides for presentation before the house. Critical review revealed that progress of the project is not as per the milestone though PI reported in Monthly report that "it is as per milestone". PI was advised to come up with the interview schedule for interview data of the farmers within 10 days without any further delay and the same may be monitored strictly. Any further deviation in the running of the project will be viewed seriously.

Further, reduction of an amount of Rs. 50000/- i.e. expenditure kept under KVK budget was dropped (as per discussion with Director of Research Dr. Pal of UBKV) and the same will be borne by the RSRS-Kalimpong by revision of budget through reallocation of its components. Thus, total budget of the project will be Rs.4.10 Lakh instead of Rs.4.6 Lakh. of the project.

PI was further advised to finalize the draft MoU for necessary signature of the concerned Authority of both the Institute.

[Action: Dr. Harish Babu., Sci-C, RSRS-Kalimpong]

RSRS should take a note on the preparatory works to be done for replenishment programme of Germplasm stock rearing during February 2023.

[Action: Sci-D, In-charge, RSRS-Kalimpong]]

Follow up action of RSRS, Koraput

Date of organizing RKM during February may be finalized in consultation with SEEM

[Action: Dr. Dip Kr. Gogoi., Sci-D]

Follow up action of RSRS, Jorhat

New concept: Improvement of BV seed cocoon productivity in NE region.

- CRC component under project **MOE02014SI (C-IV)** may be included at RSRS.


Scientist-D & incharge, RSRS Jorhat may take up project with NABARD without hampering all other assigned activities at RSRS level.

Dead plants in the AICEM plots may be replaced with saplings at the earliest.

[Action: Dr. K. Neog, Sci-D & In-charge, RSRS-Jorhat]

The meeting ended with the vote of thanks.

Date: 26th Dec., 2022


(Dr. Kishor Kumar C.M.)
Director & Chairperson
Research Council
CSRTI-Berhampore

ANNEXURE-I

List of Scientists/Participants in the 62nd Meeting of Research Council (RC) held on 05.12.2022 at CSRTI-Berhampore, West Bengal

#	Name	Designation
01.	Dr. Kishor Kumar C.M.	Director
02.	Dr. G. Srinivasa	Scientist-D, SEEM
03.	Dr. A.R. Pradeep	Scientist-D, Biotechnology
04.	Dr. Dipesh Pandit	Scientist-D, PMCE
05.	Dr. Satadal Chakrabarty	Scientist-D, Farm Management
06.	Dr. K. Suresh	Scientist-C, MBG
07.	Dr. Pooja Makwana	Scientist-C, Biotechnology
08.	Dr. N. Chandrakanth	Scientist-C, SBG
09.	Dr. Shafi Afroz	Scientist-C, SEEM
10.	Mr. Yallappa Harijan	Scientist-C, MBG
11.	Dr. Deepika Kumar Umesh	Scientist-C, MBG
12.	Dr. Thangjam Ranjita Devi	Scientist-C, SBG
13.	Dr. Mihir Rabha	Scientist-C, Silkworm Protection
14.	Dr. Parameswara Naik J.	Scientist-C, Training
15.	Mr. Khasru Alam	Scientist-C, Mulberry Protection
16.	Dr. Raviraj, V.S.	Scientist-C, Biotech
17.	Dr. S. Harish Babu	Scientist-C, RSRS-Kalimpong
18.	Dr. Zakir Hossain	Scientist-D, RSRS-Kalimpong
19.	Dr. Dip Kr. Gogoi	Scientist-D, RSRS-Koraput
20.	Dr. K Neog	Scientist-D, RSRS-Jorhat
21.	Y.S. Devi	PA, Biotech
22.	Md. Shahin Hossain	JRF, Plant Protection
23.	Susmita Devi	PA, Training
24.	Anowar Hossain	PA, SBG