

Follow up action on the decisions of 44th Research Advisory Committee meeting held on 22nd July 2019 at CSRTI, MYSURU

Decision	Follow up action
REVIEW OF CONCLUDED PROJECTS	
<p>The Chairman, RAC advised the scientists to prepare a two page synopsis on the concluded projects and circulate in advance to the committee along with agenda notes to know the status and interact more effectively in the future meetings.</p> <p align="right">(Action: All the Scientists)</p>	
<p>AIB-3534: Development of improved Cross breeds of silkworm suitable to south India.</p> <p>Decision: The committee suggested to analyze the data using Duncan’s Multiple Range Test (DMRT) in the final report.</p> <p align="right">(Action: Dr. K.B. Chandrashekhar, MBL)</p>	
<p>AIB 3509: Development of productive bivoltine silkworm breeds/ hybrids tolerant to BmNPV.</p> <p>Decision: The committee suggested to incorporate comparative analysis of the selected BmNPV breeds under the projects with similar existing breeds tolerant to BmNPV in the concluded project report.</p> <p align="right">(Action: Dr. S. Manthiramoorthy, BBL)</p>	
<p>AIB 3561: Identification of robust bivoltine silkworm hybrids suitable for high temperature and high humidity conditions.</p> <p>Decision: The committee suggested to include the relative humidity and temperature data during spinning in the concluded report.</p> <p align="right">(Action: Dr. S. Purushottam, RTI)</p>	
<p>AIP 3568: Development of value added product from spent pupae of mulberry silkworm</p> <p>Decision: The committee suggested to include the techno-economics of the technology for utilization by the entrepreneurs in order to take up commercialization.</p> <p align="right">(Action: Dr. Y. Thirupathaiah, SW Physiology)</p>	
<p>PRP 3567: Assessing the efficacy of recommended chemicals in insect/disease/weed management and their impact on soil biota of mulberry ecosystem in mulberry.</p> <p>Decision: The members informed that most of the chemicals used in the study shall be banned by 2022, hence alternative chemicals may be identified for control of pests /diseases in future.</p> <p align="right">(Action: Sci-D, PML/Mulberry Pathology)</p>	
<p>MOE 3621: Impact of CPP on Socio-Economic and Communication aspects of Women Beneficiary</p> <p>Decision/Observations: The committee observed that the most effective ECP component was farmer’s day and group discussion and these may be given priority in the future action plans.</p> <p align="right">(Action: Dr .G.S. Geetha, SEEM)</p>	
<p>PPA 3552: Development of Technology for Production of Organic Silk</p> <p>Decision: The committee suggested popularizing the</p>	

<p>organically produced silk package in the field. (Action: Agronomy section)</p>	
<p>PPS 3553: Carbon sequestration in mulberry cultivation and strategies to enhance carbon sequestration Decision: The committee suggested to include the findings of the study in the recommended package of practices. (Action: Agronomy section)</p>	
<p>New Projects</p>	
<p>Identification of probiotic consortium to improve the productivity in mulberry silkworm, <i>Bombyx mori</i> . Decision: The committee approved the project with a suggestion to include authorized breeds/ hybrids in the project. Suggested to revise the review of literature after referring to the work conducted at CSRTI, Berhampore and at CTRTI, Ranchi on similar lines. (Action: Dr. Y. Thirupathaiah, SW Physiology)</p>	
<p>Biological control of root rot disease of mulberry using antagonistic rhizosphere bacteria. Decision: The committee critically reviewed the proposal and suggested recording observation on soil pH, organic carbon, soil moisture and soil temperature as they play important role on soil microbes. Committee approved and advised to submit the proposal by incorporating the above suggestions. (Action: Dr.Pratheesh Kumar,P.M. Mulberry Pathology)</p>	
<p>Development of a knowledge base on the silkworm diseases and their management. Decision: The committee approved the proposal with a suggestion to specify the target group in the proposal. (Action: Dr.Mary Josepha A.V. Silkworm Pathology)</p>	
<p>1. Review of progress of ongoing Projects</p>	
<p>PIP 3592: Identification of indices for abiotic stress tolerance in mulberry with special reference to moisture and alkalinity stress. Decision: The committee observed that the suggestions of previous RAC was partially taken and advised to finalize the selection index for interpretation of observation and present the results accordingly in the next RAC. (Action: Dr. Gayathri, T., Mulberry Physiology)</p>	
<p>PRP-3591: Identification of resistance in mulberry germplasm for root knot nematode disease. Decision: The committee critically reviewed the progress and suggested to clearly indicate the future course of action utilizing the identified accessions. (Action:Dr. Arunakumar G.S,Molecular Biology Lab- I)</p>	
<p>PIB 3633: Evolution of highly productive and widely adapted mulberry using exotics and wild germplasm. Decision: The committee noted the progress and advised to change the title of the projects as “Development of highly productive and widely adapted mulberry using exotics and wild germplasm”. (Action:Dr.Arunakumar G.S, Molecular Biology Lab- I)</p>	

<p>AIB 3537: Improvement of silkworm breeding in India and Bulgaria</p> <p>Decision: The committee appreciated the improvement in silk ratio percentage and renditta in the selected hybrids. The selected hybrid should be included in On Station Trials (OST).</p> <p>(Action: Dr. S. Manthiramoorthy, BBL)</p>	
<p>AIT 3628: Assessment of SNP variation in silkworm (<i>Bombyx mori</i> L) by genotyping by sequencing and genome-wide association mapping of important commercial traits". Collaborative project with RVCE, Bangalore (Funded by DBT)</p> <p>Decision: The committee suggested to present the data of frequency distribution in histogram instead of bar diagram. Proper grouping of breeds is essential to draw right conclusions.</p> <p>(Action: Dr. S. Manthiramoorthy, BBL)</p>	
<p>AIT 3593: Transcriptome analysis of silkworm for identification of molecular markers for improvement of silk quality.</p> <p>Decision: For validating the markers identified for improvement of silk quality, the committee recommended extension of the project period up to December, 2019. PI to present the concluded project report in the next RAC.</p> <p>(Action: Dr. Kusuma L., BBL)</p>	
<p>PIC 3615: Mapping QTLs for alkalinity tolerance in Mulberry (<i>Morus spp</i>).</p> <p>Decision: The committee advised to present all the QTLs projects together in the next RAC.</p> <p>(Action: Bhavya, M. R., Molecular Biology Lab - I)</p>	
<p>PIN 3563: Evaluation of improved mulberry genotypes for yield potential, nutrient uptake and use efficiency under varied cultivation practices.</p> <p>Decision: The Director informed that the project has not made much progress except raising of the plantations due to resignation of PI and requested RAC to extend the project period up to March, 2022 RAC consented to extend the project period up to March, 2022.</p> <p>(Action: Dr. Dhaneshwar Padhan, Agronomy)</p>	
<p>General Points</p>	
<p>The committee suggested to document all presentations for future reference.</p> <p>(PMCE Section)</p>	
<p>The committee also advised to submit a brief note (2-3 pages) on the status of milestones/ achievements made in the concluded/on-going projects to the committee for reference</p> <p>(Action: All scientists)</p>	

Follow-up actions taken on the suggestions / recommendations of the 63rd RCC of Central Silk Board held during 25th and 26th July 2019.

Sl. No	Suggestions/ Recommendations	Follow-Up actions to be taken by
General Suggestions		
1	During the next meeting, full detail of the scientists posted in different disciplines may be presented to work out the future requirements	
2	CSB may approach KVKs for extension activities of CSB as KVKs have more experience and facilities for transfer of technologies	
3	The reason for non-completion of research projects may be analyzed and appropriate action to be taken to complete the projects to its logical conclusion	
4	Utilize the vision document as the reference document and work to achieve the target	
5	Institute-wise data on number of projects, involvement of scientists as PI and Co-PI, percentage of contribution by each scientist, total budget allotted and expended to be presented in the next meeting onwards	
6	While presenting data, statistical analysis showing inter and intra group variations and their significance to be presented	
7	Exchange of Germplasm by CSB Institutes may be made with the knowledge of CSGRC, Hosur and approval of the National Biodiversity Authority, wherever necessary.	
8	Exchange of genetic materials among CSB Institutes and other National Institutes/Universities may be taken up in collaborative project mode after signing appropriate documents	
9	Institute wise technology developed, patented, commercialized, popularization and penetration among the stakeholder / market to be presented from next meeting	
10	Institutes may constitute a publication committee to facilitate publication of research outputs in accredited journals and all publications should be routed through the committee. Develop a system of providing a unique identification Number to each publication coming from the institute	
11	RACs may review the project proposals, the ongoing projects and the concluded projects thoroughly and submit a 2-3 page write-up on their observations to the RCC	
12	Research Project reports and publications may be showcased in the Institute	
13	Meeting of the Research Council may be convened once in every quarter to consider new project proposals and monitoring the progress of research projects and ToT activities	

14	By-product utilization and value added marketing of silk and silk products need to be strengthened. Pupae as food needs a fillip, packaging and preservation may be considered as one of the main areas of research on by-product utilization	
15	Research results may be presented in quantified manner. In cases where trend is to be presented, the actual data with percentage of increase/decrease to be indicated.	
16	Scientists may be provided with training on new R&D developments and techniques	
17	Explore the possibility of engaging Sericulture graduates in CSB on contract basis	
18	Use Agro textiles and geo-textiles for changing the micro environment of silkworm for better silk production	
Specific to CSRTI, Mysuru		
1	PPA 3552: The techno-economics of the packages to be worked out	
2	PPS 3553: Compare the carbon sequestration ability of mulberry with other plants for drawing proper utility of the project output	
3	PRP 3567: As DDVP has already been banned from 2009 in India, its use should not be encouraged and other alternative chemicals to be identified and promoted	
4	AIP3568 : The recommendations / technology from the project may be taken to the stake holders with utmost care and the silkworm pupae meal may be given only to milking cow	
5	Use electronic media for better penetration of technology among the farmers	
6	A survey on prevalence of DNV in different seasons to be made to assess the crop loss and the result to be presented in the next meeting	

FORMAT FOR RAC AGENDA AND EXPLANATORY NOTE PREPARATION

**AGENDA AND EXPLANATORY NOTES FORRAC MEETING OF
INSTITUTE**

AGENDA NO. 1: CONFIRMATION OF LAST RAC MEETING MINUTES

**AGENDA NO. 2: FOLLOW UP ACTION ON THE GENERAL RECOMMENDATION/
DECISIONS OF THE LAST RAC MEETING**

#	RECOMMENDATION/ DECISIONS	FOLLOWUP ACTION TAKEN
1		
2		

**AGENDA NO. 3: FOLLOW UP ACTION TAKEN ON THE PROJECT SPECIFIC
RECOMMENDATION/ DECISIONS OF THE LAST RAC MEETING**

#	Project code and Title	RECOMMENDATION/ DECISIONS	FOLLOWUP ACTION TAKEN
1			
2			

AGENDA NO. 4: REVIEW ON CONCLUDED PROJECTS

#	CONCLUDED PROJECTS	DETAILS
1.	Project code and title:	
A	Investigators involved (PI & Co-I's)	
B	Project period :	
C	Objectives:	
D	Progress achieved:	
E	Utility of outcome / Future course of action	
F	Budget and expenditure :	
G	Suggestion of last RAC meeting:	
H	Follow-up action taken on last RAC meeting:	
	<i>Repeat for additional projects</i>	

AGENDA NO. 5: NEW RESEARCH PROJECTS FOR APPROVAL

#	NEW RESEARCH PROPOSAL	DETAILS
1.	Project title :	
A	Investigators involved (PI & Co-I's)	
B	Objectives:	
C	Current status of the problem:	
D	Methodology & work plan:	
E	Expected outcome and utilization:	
F	Budget:	
G	Observation / recommendation of RCS, Bengaluru:	
H	Observation of Referees and follow up action taken:	
	<i>Repeat for additional proposals</i>	

AGENDA NO. 6: REVIEW OF THE PROGRESS OF ON-GOING PROJECTS

#	ON-GOING PROJECTS	DETAILS
1.	Project code and title:	
A	Investigators involved (PI & Co-I's)	
B	Project period :	
C	Objectives:	
D	Progress achieved:	
E	Specific outcome:	
F	Budget and expenditure :	
G	Suggestion of last RAC meeting:	
H	Follow-up action taken on last RAC meeting:	
	<i>Repeat for additional projects</i>	

AGENDA NO. 7: R&D HIGHLIGHTS OF THE INSTITUTE UPTO20....

AGENDA NO. 8: Trial of Technologies (OSTs/ OFTs)

On Station Trials (for validation of technology at CSB institutes/ RSRs/ DoS units etc.)

Sl. No	Name of the Technology	Unit Cost (Rs.)	At CSB institutes	RSRs	DOS Units	Total
1						
2						
3						

On Farm Trials (for demonstration of Technologies at farmers' level)

Sl. No	Name of the Technology	Unit Cost (Rs.)	No. of locations	No. of stakeholders
1				
2				
3				

AGENDA NO. 9: EXTENSION (ECP) AND OTHER PROGRAMMES

#	Programme	Target for the year 20.....-20...			Achievement for the year 20.....-20...		
		Phy (No.)	Beneficiary (No.)	Fin (Rs.)	Phy (No.)	Beneficiary (No.)	Fin (Rs.)
1	Krishimela / Reelers mela cum exhibition						
2	Farmers Field days						
3	Awareness programmes						
4	Tech. demonstrations / Enlightenment programmes						
5	Workshops/ Seminars/ Conferences						
6	Field Visits						
7	Other activities (Please specify, if any)						
	Total	0	0	0	0	0	

AGENDA NO. 10: TRAINING (CBT) AND OTHER PROGRAMMES

#	Training / Course	Target for the year 20.....-20...			Achievement for the year 20.....-20...		
		Physical (Nos.)	Beneficiaries (No.)	Financial (Rs. In lakhs)	Physical (Nos.)	Beneficiaries (No.)	Financial (Rs. In lakhs)
I.	Structured Training Course						
1	PGDS #						
2	Intensive Bivoltine & Silkworm race maintenance Training						
	Sub Total (I)						
II.	Farmers Skill Training (Training batches from 2 to 15 days duration)						
1 days programme						
2 days programme						
3 days programme						
	Sub Total (II)						
III.	Exposure visit for technology awareness (1 to 5 day Exposure visit)						
IV.	Technology Orientation Programme (Batches for non-farmers participants for Technology based training)						
V.	Training under Post Cocoon Sector						
VI.	Management Development Programme under STEP						
VII.	Information Education & Communication (IEC)						
VIII.	Training Impact Assessment						
IX.	Sericulture Resource Centre (SRC) (No. of SRC to be established giving details of location and No. of farmers to be trained)						
X.	Training for Adopted Seed Rearers (ASRs)						
XI.	Training to Private Graineurs						
XII.	Other Need Based Training Programme (if any, please indicate)						
	Total (I to XII)						
VII.	Non CSB Funds						
1	Training Programme funded by agency other than CSB						
2	Training on Seed Act						
	Total (VII)						
	Grand Total						

AGENDA NO. 11: ANY OTHER POINTS FOR DISCUSSION

AGENDA NO. 12: CONCLUDING REMARKS FROM RAC MEMBERS