CENTRAL SERICULTURE RESEARCH & TRAINING INSTITUTE (CSRTI), MYSURU MINUTES OF 42nd RESEARCH ADVISORY COMMITTEE MEETING 27th & 28th NOVEMBER, 2017

The 42nd Research Advisory Committee meeting of CSRTI-Mysuru was held on 27th & 28th November 2017 at CSRTI-Mysuru for reviewing the progress of R&D activities of the Institute and its nested units (April, 2017 to October 2017) and new project proposals for consideration. The meeting was presided over by Prof. S.R. Niranjana, Vice Chancellor, Gulbarga University and the Chairman of newly constituted Research Advisory Committee (RAC). The list of members and participants who have attended the meeting is appended herewith in **Annexure-I**.

The Chairman and Members of the newly constituted Research Advisory Committee (RAC) visited all the laboratories and mulberry gardens before commencement of the meeting in the forenoon. The activities undertaken by different labs of the institute and facilities available in the institute were informed to the RAC.

Dr. V. Sivaprasad, Director welcomed the newly constituted RAC Chairman and the members with flower bouquets on behalf of the CSB and CSRTI-Mysuru for the meeting and also welcomed the Scientists of CSRTI-Mysuru and its nested units for the meeting.

Prof. Niranjana, RAC Chairman in his opening remarks expressed thanks to CSB for identifying as RAC Chairman and recalled his close association with CSRTI-Mysuru scientists as Professor at University of Mysore for the last 25-26 years in the area of Botany/Bio-technology. He further informed the house that he attended the RCC meeting at CSB-Bangalore along with Director. Three-tier approval system *i.e.*, RC, RAC and RCC would be adopted by CSB for undertaking new projects in future and RAC would work in line with the system approved by RCC. He also said that research projects should be application-oriented; however, molecular approaches need to be undertaken to understand the basic mechanisms at work in silkworm and mulberry. He advised the Scientists to publish research papers in reputed journals which have impact factor and identify such journals in sericulture.

RAC-Chairman also informed that RCC opined that scientists need to formulate externally funded projects for strengthening the infrastructure required for development of the laboratories in CSRTI-Mysuru. He appreciated the efforts of CSRTI-Mysuru in developing good technologies/products for the benefit of farmers including commercialization and patents.

Later, all the participants introduced themselves to the RAC chairperson and members.

CONFIRMATION OF THE MINUTES OF 41st RAC MEETING HELD ON 20th & 21st APRIL 2017

The RAC confirmed the minutes of the previous meeting as no comments were offered by

any of the members.

REVIEW OF FOLLOW-UP ACTION TAKEN ON DECISIONS OF RAC IN 41st MEETING

The follow-up actions taken on decisions taken in the previous meeting was presented by Dr.

V. Sivaprasad, Director. The committee expressed satisfaction regarding the follow up action taken

on the decisions and suggestions of previous RAC. The following suggestions were made by the

committee:

On the incidence of non-spinning larvae at the field level, the committee suggested

undertaking EM studies on the status of spinnerets in spinning larvae.

[Action: SW Pathology, CSRTI-Mysuru]

With regard to the development of silkworm rearing models for hot and dry and hot and

humid areas, the committee suggested developing silkworm rearing house models suitable

for all sessions or which can be inter-convertible as per the climatic conditions.

[Action: SED, CSRTI-Mysuru]

With regard to the development of custom-hire centers for seri-equipments, the committee

suggested to work in coordination with KVKs, which are already implementing similar system

for agriculture equipments/machines.

[Action: SEEM, CSRTI-Mysuru]

HIGHLIGHTS OF RESEARCH PROGRESS

The highlights of research progress made by the Institute and its nested units during the

reporting period was presented by Dr. V. Sivaprasad covering all the areas of Mulberry & Silkworm

Production, Protection, Extension & Training activities. The team-effort of Scientists and Director on

the R&D achievements of CSRTI-Mysuru was appreciated by Chairman and members.

REVIEW OF CONCLUDED PROJECT

During the reporting period, one research project was concluded and the same was

reviewed by the committee.

ARP-3597: Standardization and validation of LAMP (Loop mediated isothermal amplification

reaction) technique for the detection of Nosema bombycis infection in silkworm

The committee reviewed the performance of LAMP technique to detect pebrine and

suggested to verify the technology in eri, muga and tasar silkworms. Further, RAC suggested to

undertake large scale field trials of LAMP technique as a TOT project.

[Action: SW Pathology, CSRTI-Mysuru]

NEW RESEARCH PROJECT PROPOSALS FOR APPROVAL

The following new project proposals presented by the concerned scientists were critically

reviewed by the committee on the basis of uniqueness of the proposal, research component and

relevance of the project in mulberry sericulture.

1. Evaluation of superior triploid genotypes for yield and adaptability under varied agro-climatic

conditions

Dr. T. Mogili, Sci-D and PI presented the project proposal along with referee's comments

(referees recommended for implementation of the project). The committee reviewed the proposal

critically and approved the project, since it is a follow-up of a previously concluded project with the

following modifications/suggestions:

To include evaluation of identified variety as one of the objective

To document the pest and disease incidence during the evaluation and involve a plant

pathologist and entomologist

In addition to yield and other contributing factors, to record periodically data on soil

properties like physical, chemical and biological components for correlation with other

components to minimize error component.

Screening of plantation materials for root rot and root knot diseases should be integral part

of the experiment.

Suggested to undertake paired-row plantation for optimal conditions and tree cultivation

system under sub-optimal conditions.

[Action: Dr. T. Mogili, Sci-D, MBG, CSRTI-Mysuru]

2. Primary Yield evaluation for identification of superior hybrids with improved yield and adaptability from the progenies raised using drought adaptive traits under suboptimal irrigation

conditions

Dr. Tanmoy Sarkar, Sci-B & PI presented the project proposal along with referee's comments

(referees recommended for project implementation). The committee approved the project proposal,

the project is the need of the hour for climate change to develop drought resistant variety and also

as it is a follow-up of previously concluded project with the following suggestions:

To utilize available molecular markers for categorizing and short-listing of mulberry

genotypes

Accordingly, to revise the budget for implementation of modified work plan

[Action: Dr. Tanmoy Sarkar, Sci-B, MBG, CSRTI-Mysuru]

3. Evolution of highly productive and widely adopted mulberry using exotic and wild germplasm

Dr. Vaijayanthi, Sci-B & PI presented project proposal and the Committee discussed the referees

comments received on the project and approved the project, which involves new breeding

programme for development of highly productive and widely adopted mulberry variety with the

following suggestion:

To restrict the current proposal upto hybridizations only for a period of 5 years, which later

can be continued further as PYT.

[Action: Dr. Vaijayanthi, Sci-B, Mol. Bio. Lab-1, CSRTI-Mysuru]

4. Development of multivoltine breeds with improved silk quality, utilizing indigenous and exotic

bivoltine breeds

Dr. K.B. Chandrashekar, Sci-D & PI presented the project proposal based on the recommendations of

Breeders meet and also presented the referees comments received on the project. The committee

reviewed critically and approved the project, which aims to develop improved crossbreed to

produce above 3A grade silk, which is the need of the hour as 80% of Indian silk production is still

crossbreed-oriented with the following suggestions/modifications:

To include grainage performance of evolved lines over generations in general (emergence

pattern and egg yield), floss percentage as well as uniformity in shell thickness and silk

quality parameters

[Action: Dr. K.B. Chandrashekar, Sci-D, MBL, CSRTI-Mysuru]

5. Industry sponsored project: Ultra-Phen, a phenolic compound for effective disinfection in

Sericulture

Dr. Mary Josepha, Sci-D & PI presented the industry sponsored research proposal and the

Committee discussed project and approved the proposal as the entire cost is funded by the industry

sponsor, which is useful for sericulture industry and farmers with the following

modifications/suggestions:

To verify the Ultra-Phen efficacy along with cost-effectiveness and user-friendliness

To quantify the minimum and effective concentration of disinfectant

• To include Chlorine Dioxide and Decol as controls

[Action: Dr. Mary Josepha, Sci-D, SW Pathology, CSRTI-Mysuru]

TOT Projects

1. Popularization of G4 mulberry variety in South India

The Committee discussed the TOT project presented by Dr. B.T. Srinivas, Sci-D & PI as the

continuation programme of Mulberry Variety Authorization Programme (G4 was authorized for

commercial exploitation in South zone on 25th Oct. 2017) by CSB. The proposal aims establishing

sufficient G4 seed gardens with CSB/DoSs and popularizes G4 variety in southern states, which was

approved by the committee and appreciated for the faster implementation.

[Action: Dr. B.T. Srinivas, Sci-D, FMS, CSRTI-Mysuru]

2. Demonstration and popularization of pheromone trap against silkworm uzi fly, Exorista

bombycis (Collaboration with NBAIR-Bangalore)

The Committee discussed the TOT project presented by Mr. J.B. Narendra Kumar, Sci-D & PI

based on the outcome of the recently concluded project for large scale evaluation of the technology

developed for the management of perennial uzi problem in mulberry sericulture. The committee

approved the project with the following suggestions/modifications:

· To specify important parameters in the methodology for evaluation such as number of

crops/rearing house, trap location, size of the trap, colour of the trap, height of placing trap,

dispense rate etc.

• Advised to keep the cost of trap in comparison to similar traps in other horticultural crops

such as mango

• To record observations on spent Uzi flies and categorization of trapped uzi flies into male

and female

• To include an objective for the product commercialization and estimate cost-benefit ratio

[Action: Mr. J.B. Narendra Kumar, Sci-D, CSRTI-Mysuru]

3. Evaluation of new bivoltine hybrid, TT 21 x TT 56 at farmers level during summer season in

southern states

The Committee discussed the TOT project presented by Dr. S. Manthira Moorthy, Sci-D & PI based

on the outcome of recently concluded project for development of robust bivoltine hybrids of silkworm

tolerant to high temperature environment in the tropics through DNA marker assisted selection. The

committee approved the project with the following suggestion:

To calculate leaf-cocoon ratio, record data on disease incidence and environmental

conditions during each crop

[Action: Dr. S. Manthira Moorthy, Sci-D, BBL, CSRTI-Mysuru]

REVIEW OF PROGRESS OF ONGOING PROJECTS

The committee reviewed the progress of the following on-going projects and suggested the

investigator to continue the projects as per milestones:

1. PIB-3457: Development of disease resistant and productive mulberry genotypes with special

reference to root rot and root knot diseases suitable for seri-zones of south India

The committee suggested to include photographs concerned with the observations on

project, while presenting the concluding report and analyse data statistically.

[Action: Dr. S. Gandhi Doss, Sci-D, MBG, CSRTI-Mysuru]

2. ARP-3519: Silkworm Disease Monitoring of Seed and Commercial Crop Rearing of South Indian

States

The committee commented that the presentation is not exactly good and suggested to

present the compiled data year-wise with seasonal effects and for graphical representation of data

with conclusive statements.

[Action: Dr. Mary Josepha, Sci-D, SW Pathology, CSRTI-Mysuru]

3. PPA-3549: Evaluation of modified spacing with special reference to planting geometry for

sustainable mulberry leaf

The committee observed and suggested to present statistically analyzed data.

[Action: Mr. V.K. Yadav, Sci-C, Agronomy, CSRTI-Mysuru]

4. PRE 3546: Identification, characterization, synthesis and field evaluation of sex pheromone of the mulberry leaf roller, *Diaphania pulverulentalis* (Lepidoptera : Pyralidae) [In collaboration with NBAIR, Bangalore]

The committee noted the field evaluation data and advised to present the final data with photographs while presenting the concluding report.

[Action: Mr. J.B. Narendra Kumar, Sci-D, PML, CSRTI-Mysuru]

5. PIP 3592: Identification of indices for abiotic stress tolerance in mulberry with special reference to moisture & alkalinity stress

The committee noted the presentation and advised to undertake experiments to achieve the proposed objectives as per milestones.

[Action: Dr. T. Gayathri, Sci-B, MBG, CSRTI-Mysuru]

6. PRP 3591: Identification of resistance in mulberry germplasm for root knot nematode disease

The committee appreciated the systematically prepared presentation and suggested to continue the good work to achieve the proposed objectives as per milestones.

[Action: Dr. G. S. Arunkumar, Sci-B, Mol. Biol. I, CSRTI-Mysuru]

7. AIT: 3593: Transcriptome analysis of silkworm for identification of molecular markers for silk quality

The committee noted the presentation and advised to follow-up with the out-sourcing agency for transcriptome data and analyze for achieving the proposed objectives.

[Action: Dr. L. Kusuma, Sci-B, Mol. Biol.II, CSRTI-Mysuru]

8. MOE 3595: Development of business models for enterprises in pre-cocoon sector of Sericulture

The committee appreciated the presentation and suggested to present comparative chart of economical models for better understanding of the business models being proposed.

[Action: Ms. Joycy Rani, Sci-B, SEEM, CSRTI-Mysuru]

9. AIP-3568: Development of value added products from spent pupae of mulberry silkworm, *Bombyx mori* L (In collaboration with NIANP)

The committee noted the presentation and progress of the project and suggested to use the infra-structure facilities available at IOE-Univ. of Mysuru for characterizing the oil and proteins.

[Action: Dr. Y. Thirupataiah, Sci-B, SW Physiology, CSRTI-Mysuru]

Other On-going projects:

With regard to the on-going research projects on silkworm breeding, the committee advised

the investigators to present the research progress as on date to Dr. Chandrashekharaiah, RAC

Member & Expert on Silkworm breeding for critical review and suggest further follow-up action. The

committee noted the progress achieved on the remaining on-going projects and advised the

investigators to adhere to the proposed objectives and milestones.

[Action: All the Concerned PIs, CSRTI-Mysuru]

REMARKS OF RAC MEMBERS & CHAIRMAN

Director, CSTRI-Bangalore suggested undertaking projects on improvement of filament length in

silkworm breeds/hybrids, which would take care of size deviation for silk quality improvement

in bivoltine hybrids. He also requested for communicating information on newly developed

hybrids/ breeds developed by the institute.

RAC-Chairman appreciated the presentations made by the investigators and suggested to

interact with each other and work for undertaking multi-disciplinary research projects in future.

- As a whole, the RAC members suggested that the investigators should properly compile and

statistically analyze the data and improve the project presentations.

The committee advised all the PI's of new research and ToT projects to prepare the full projects

as per proforma keeping in view of suggestions/modifications suggested by the committee for

further processing by CSB and RCC.

- The RAC observed that less-efforts have been made by the scientists to publish the research

works carried out. The filing of patents and commercialization of technologies/products is also

equally important to utilize the research outcomes.

The meeting ended with vote of thanks to the chair.

Sd/-

CHAIRMAN

LIST OF MEMBERS ATTENDED 42nd RAC MEETING HELD ON 27th & 28th NOVEMBER 2017

#	Name of the Member	
1	Prof. S .R. Niranjana, V C, Gulbarga University	Chairman
2	Dr. V. Sivaprasad, Director, CSRTI-Mysuru	Member Convener
3	Dr. Chandrasekharaiah, Director (Rtd.), APSSRDI-Hindupur	Member
4	Dr. A. Ramesh Sundar, Scientist, ICAR, Coimbatore	
5	Dr. K. C. Narayanaswamy, UAS, GKVK, Banaglore	
6	Dr. K. Mandal, Director (Tech), CSB, Bengaluru	
7	Dr. P. Jayarama Raju, Sci-D, RCS, CSB	
8	Dr. V. Subhas Naik, Director CSTRI, Bengaluru	
9	Mr. Narayana Swamy, DD, Mysuru (Rep Commissioner DOS, Karnataka)	
10	Smt. P. Arul Mani, DD (Seed) (Rep DOS, TN)	
11	Dr. P. J. Raju. Director, APSSRDI, Hindupur (Rep DOS, AP)	
12	Sri. Pratap Goud, Farmer, Telangana	
	Members who sought leave of absence	
13	Prof. Ranganathan Ramani, Director (Rtd.) (IINRG)	
14	The Commissioner of Rural Development, Govt. of Kerala	
15	The Commissioner of Sericulture, Govt. of Madhya Pradesh, Bhopal	
16	The Director DOS , Maharashtra, Nagpur	

List of Participant Scientists CSRTI, Mysuru and its nested units for 42nd RAC

Dr. Satish Verma Dr. Vineet Kumar Dr. Vineet Kumar Dr. Scientist-D Dr. Sreenivas, B. T Dr. M. A. Shanthan Babu Scientist-D Dr. S. Rajakumar Dr. S. Rajakumar Dr. Jalaja S. Kumar Dr. K. Praveen Kumar Dr. Mogili, T. Dr. B. Mohan Dr. B. Mohan Dr. B. Mohan Dr. A. Scientist-D Dr. A. Seientist-D Dr. B. Mohan Dr. B. Mohan Dr. Scientist-D Dr. Seientist-D Dr. Seientist-B Dr. Seientist-D Dr. Seientist-B Dr. Seienti	Name	Designation	Section/Unit
Dr. Sreenivas, B. T Dr. M. A. Shanthan Babu Scientist-D RSRS Anantapur Dr. S. Rajakumar Dr. Jalaja S. Kumar Dr. K. Praveen Kumar Dr. Mogili, T. Dr. B. Mohan Dr. B. Mohan Dr. Mary Josepha, A.V. Anuradha H Jingade Dr. Scientist-D Dr. Rosrti, Mysuru Dr. Santha, P. C. Munikrishnappa, H. M. Dr. R. Balasaraswathi Dr. S. Balasaraswathi Dr. S. Mahiba Helen Dr. S. Mahiba Helen Dr. S. Mahiba Helen Scientist-D RSRS Salem Scientist-D REC, SU-Avinashi CSRTI, Mysuru Dr. RREC, SU-Avinashi CSRTI, Mysuru Dr. S. Balasaraswathi Dr. CSRTI, Mysuru Dr. S. Mahiba Helen Dr. S. Scientist-D Dr. S. Mahiba Helen Scientist-D RSRS Salem Dr. S. Mahiba Helen Scientist-C Kruthika, H. S. Ph.D. Scholar CSRTI, Mysuru Dr. P. V. Vaijayanthi Dr. Gayatri, T. Scientist-B Dr. Santi, Mysuru Dr. Ranjini M.S. Scientist-D CSRTI, Mysuru Dr. P. V. Vaijayanthi Dr. Ranjini M.S. Scientist-B CSRTI, Mysuru Dr. Ranjini M.S. Scientist-D CSRTI, Mysuru Dr. Sondamini Dr. S. Scientist-D Dr. SRRS, Ch.nagara Dr. S. Scientist-D Dr. SCRTI, Mysuru Dr. Scientist-D Dr. Scientist-D Dr. SCRTI, Mysuru Dr. Scientist-D Dr. SRRS, Ch.nagara Dr. S. Scientist-D Dr. SCRTI, Mysuru Dr. Scientist-D REC,SU,Kudalgi Dr. Sumathy, R. Info. Officer CSRTI, Mysuru	Dr. Satish Verma	Scientist-E	CSRTI, Mysuru
Dr. M. A. Shanthan Babu Scientist-D RSRS Anantapur Dr. S. Rajakumar Scientist-D RSRS Salem Dr. Jalaja S. Kumar Scientist-D RSRS Kodathi Dr. K. Praveen Kumar Scientist-D RSRS Shadnagar Dr.Mogili, T. Scientist-D CSRTI, Mysuru Dr.Gandhi Doss, S. Scientist-D CSRTI, Mysuru Dr. B. Mohan Scientist-D REC,SU-Avinashi Dr.Mary Josepha, A.V. Scientist-D CSRTI, Mysuru Dr.Santha, P. C. Scientist-D CSRTI, Mysuru Dr.Santha, P. C. Scientist-D CSRTI, Mysuru Dr.R.Meenal Scientist-D CSRTI, Mysuru Dr. Dhahira Beevi Scientist-D CSRTI, Mysuru Dr. S. Balasaraswathi Scientist-D RSRS Salem Dr. S. Balasaraswathi Scientist-D RSRS Salem Scientist-D RSRS Salem Scientist-D RSRS Salem Scientist-D RSRS Salem Dr. S. Mahiba Helen Scientist-C RSRI, Mysuru Dr. P. V. Vaijayanthi Scientist-B CSRTI, Mysuru Dr. P. V. Vaijayanthi Scientist-B CSRTI, Mysuru Dr. Gayatri, T. Scientist-B CSRTI, Mysuru Dr. Ranjini M.S. Scientist-B CSRTI, Mysuru Dr. Ranjini M.S. Scientist-B CSRTI, Mysuru Dr. V.Nishitha Naik Scientist-D RSRS, Ch.nagara Dr. Geetha, G. S. Scientist-D RSRS, Ch.nagara Dr. Geetha, G. S. Scientist-B CSRTI, Mysuru Ravindra Mathigatti Scientist-D REC,SU,Kudalgi Dr. Sumathy, R. Info. Officer CSRTI, Mysuru Scientist-B CSRTI, Mysuru Reconstruction of the scientist-B CSRTI, Mysuru Reconstruction of the scientist-B CSRTI, Mysuru Reconstruction of the scientist-D REC,SU,Kudalgi Dr. Sumathy, R. Info. Officer CSRTI, Mysuru	Dr. Vineet Kumar	Scientist-D	CSRTI, Mysuru
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Dr. Jalaja S. Kumar Dr. K. Praveen Kumar Dr. K. Praveen Kumar Scientist-D RSRS Shadnagar Dr. Mogili, T. Dr. Gandhi Doss, S. Scientist-D SSBS, Conoor Dr. B. Mohan Scientist-D SSBS, Conoor Dr. A.M. Babu Dr. Mary Josepha, A.V. Anuradha H Jingade Dr. Santha, P. C. Scientist-D Scientist-D CSRTI, Mysuru Dr. Santha, P. C. Scientist-D CSRTI, Mysuru Dr. R. Meenal Dr. S. Balasaraswathi Dr. S. Balasaraswathi Dr. S. Balasaraswathi Dr. S. Mahiba Helen Scientist-D RSRS Salem Scientist-C RSRS Salem Dr. S. Mahiba Helen Scientist-C RSRS Salem Scientist-C RSRS Salem Dr. S. Wahiba Helen Scientist-B CSRTI, Mysuru Dr. P. V. Vaijayanthi Dr. P. V. Vaijayanthi Dr. Bhuvaneshwari, E. Dr. Ranjini M.S. P. Scientist-B CSRTI, Mysuru Dr. N. Scientist-B Dr. Sondamini Dr. Scientist-D CSRTI, Mysuru Dr. Ranjini M.S. Scientist-D CSRTI, Mysuru Dr. Ranjini M.S. Scientist-B CSRTI, Mysuru Dr. N. Soidamini Dr. Scientist-D CSRTI, Mysuru Dr. Soidamini Scientist-D CSRTI, Mysuru Dr. Soidamini Scientist-D CSRTI, Mysuru Dr. Soidamini Dr. Scientist-D CSRTI, Mysuru Dr. Scientist-D RSRS, Ch. nagara Dr. Geetha, G. S. Scientist-D RSRS, Ch. nagara Dr. Geetha, G. S. Scientist-D RSC, SU, Kudalgi Dr. Sumathy, R. Info. Officer CSRTI, Mysuru	Dr. M. A. Shanthan Babu	Scientist-D	RSRS Anantapur
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