

**MINUTES OF THE 57<sup>th</sup> MEETING OF RESEARCH COUNCIL HELD ON  
20<sup>th</sup> MARCH 2015 AT CSR&TI, MYSORE**

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The 57<sup>th</sup> meeting of the Research Council of CSR&TI, Mysore was held on 20<sup>th</sup> March 2015 to review the new project proposals submitted by the scientists, outcome of concluded research projects and to take stock of the progress of on-going project/ programmes of the Main Institute and its nested units. The meeting was presided over by Dr. V. Sivaprasad, Director of the Institute and the Chairman, Research Council (RC). The list of the participants is appended at Annexure-I.

Dr. S. K. Ashwath, Scientist-D (DC, PMCE) welcomed Dr. V. Sivaprasad, Director and the Chairman, RC and all participant scientists of the Institute & nested units attending the meeting. He also welcomed the invitees, Dr. P. Jayaramaraju, Sc-D, RCS, CSB, Dr. A.K. Awasthi, Sc-D, SBRL, Dr. Ravindra Singh, Sc-D, SSTL, Bangalore and Dr. Ponnuvelu, Sc-D, SBRL, Bangalore. He requested the Chairman, RC for his opening remarks and sought permission to take up the agenda points.

Thereafter, agenda-wise discussions were held as follows:

**ITEM NO. 1: CONFIRMATION OF THE MINUTES OF THE 56<sup>th</sup> MEETING HELD ON 30 & 31<sup>st</sup> JULY, 2014**

As no comments were received from any of the members, the minutes of the 56<sup>th</sup> RC meeting were confirmed.

**ITEM NO. 2: REVIEW OF THE FOLLOW UP ACTION TAKEN ON THE DECISIONS OF PREVIOUS MEETINGS**

**A. Follow up action taken on the decision of the 56th meeting of research council held on 30 – 31st, July 2015.**

With reference to the IPR committee in the Institute, Chairman suggested that the meeting will be held during 1<sup>st</sup> week of May 2015. Further he advised all the scientists of main institute and nested units that before submission of patent applications to NRDC, they should be thoroughly discussed with the inventors as well as divisional heads so that all aspects of the application are fulfilled.

**[Action: DC, PMCE and All Scientists]**

**B. FOLLOW UP ACTION TAKEN ON THE DECISION OF THE 38th MEETING OF RAC HELD ON 26.09.14**

Regarding the new innovations adopted for uzifly control by Sri. K.Y. Shivanandaiah, Farmer from Tumkur, the Chairman advised the scientists of PML to visit farmer and collect the details of innovation for validation.

**[Action: Scientist-D, PML]**

All the concerned scientists were advised to resubmit the revised follow up action taken on the suggestions of 38<sup>th</sup> RAC for placing before 39<sup>th</sup> RAC.

**[Action: All the concerned Scientists]**

## REVIEW OF ONGOING PROJECTS & CONCLUDED PROJECTS

The Chairman informed that the progress of ongoing projects and outcome of concluded research projects are being reviewed and reported periodically to CO on monthly and quarterly basis and hence detailed review and discussions were held on the following new project proposals.

## REVIEW OF NEW PROJECTS PROPOSED FOR CONSIDERATION

*1. Identification of Hardy bivoltine silkworm hybrids suitable for tropical conditions utilizing exotic & indigenous genetic resources employing MAS (3 years)*

**Decision:** As similar project is being taken up by CSRTI, Pampore for developing robust bivoltine breeds for northern region, same strategy can be adopted for developing breeds for the southern region. It was suggested to include BmNOX marker for NPV tolerance also along with other markers during the screening process. Dr. K.M. Ponnuvel, Sc-D, SBRL, to be included as one of the investigators.

**[Action: Dr. Manthira Moorthy, Sc-D, SWBG]**

*2. Evolution of hardy bivoltine silkworm breeds from silkworm hybrids imported from other countries.*

**Decision:** The Chairman briefed about the concept and suggested the scientists of Silkworm breeding laboratory to formulate the project incorporating the silkworm hybrids to be imported from China and Brazil.

**[Action: Dr. N. Mal Reddy, Sc-D, SWBG]**

*3. RAD sequencing of indigenous and commercially exploited silkworm breeds/hybrids*

**Decision:** It was suggested to submit the project to CSB for funding.

**[Action: Dr. Manthira Moorthy, Sc-D, SWBG]**

*4. Proteomics of Silk quality (3 years) – in collaboration with IISc, Bangalore)*

**Decision:** The Chairman briefed about the concept and suggested the Scientists of Molecular Biology laboratory, Silkworm breeders and PCT scientists to discuss the issue in-house and later with IISc, Bangalore for formulating the project by the end of June 2015.

**[Action: Dr. Virendra Kumar, Sc-D, Mol. Biol. Lab.]**

*5. Introgression of wild genes for disease tolerance and reproductive efficiency from wild silk moth, B. mandarina*

**Decision:** The Chairman briefed about the concept and suggested the project will be initiated after detailed discussions with the scientists of NIAS, Japan.

*6. Multi-trait association in mulberry by RAD sequencing and development of climate resilient varieties. ( 5 years)(CSRTI, Berhampore & Pampore)*

**Decision:** It was suggested that the project period can be reduced to 3 years addressing only the objective of identification of sequences associated with productivity and tolerance to abiotic stress. Development of climate resilient varieties can be taken up in the next phase.

**[Action: Dr. V. Girish Naik, Sc-D, Mol.Biol.Lab.]**

7. *Foliar spray for the mulberry leaf moisture retention (2 years)(DRDO, Mysore)*

**Decision:** It was suggested to study the physiological parameters and take up bioassay during young age and late age rearings at model CRC and TVDC of the Institute, respectively.

[Action: Dr. M.G. Sabitha, Sc-D, Mulberry Physiology ]

8. *Development of soil moisture stress tolerant and productive transgenic mulberry by MAS (5 years) (UAS, Bangalore)*

**Decision:** It was suggested to submit the project to DBT for funding after finalization in the working group constituted by DBT on mulberry.

[Action: Dr. Gandhi Doss, Sc-D, MBG]

9. *Genetic analysis of mulberry growth vigour & development of variety responsive to repeated shoot harvest.*

**Decision:** As growth vigour is a complex trait, it was suggested to initially characterize the phenotypic and molecular parameters associated with the trait. The project could be discussed in the working committee group constituted by DBT. Depending on the results, the varietal development can be taken up subsequently in the second phase.

[Action: Dr. V. Girish Naik, Sc-D, Mol. Biol.]

10. *Evaluation of spacing with reference to plant geometry for sustainable mulberry leaf production (3 years)*

**Decision:** The PI was advised to collect the full details of 20 farmers, each adopting wider spacing in Chikabalapur, Ramnagra and Kolar districts and incorporate the same in the project and submit by June 2015.

[Action: Sri. Vinod Kumar Yadav, Sc-C, Agronomy]

11. *Development of package of practices for organic silk production (4 years)*

**Decision :** The PI was advised to collect the information on the permissible limits of chemicals used during mulberry cultivation, disinfection, reeling process etc. from the authorized certification agencies and submit the revised project within 30<sup>th</sup> April 2015.

[Action: Dr. Dasappa, Sc-D, Agronomy]

12. *Field evaluation of identified endophytic bacterial formulations for suppression of root rot in mulberry (3 years)*

**Decision:** The PI was suggested to submit the project of DBT for funding. In addition, it was advised to formulate a project on agronomical aspects related to Carbon sequestration including the scientists of Soil science lab.

[Action: Dr. V. Gunashekar, Sc-C, Agronomy]

13. *Development of sex pheromone based trap for management of mulberry leaf roller (Diaphania pulverulentalis) (2 Years) – in collaboration with NBAIL, Bangalore.*

**Decision:** The PI was advised to prepare the project and submit before June 2015.

[Action: Sri. J.B. Narendra Kumar, Sc-D, PML]

14. *Insect-Pathogen interactions through 3D- Microvilli (silk scaffolds) ( 3 years) - in collaboration with IIT, Kharagpur.*

**Decision:** The Chairman briefed about the concept and suggested Silkworm Pathology Section to formulate the project.

**[Action: Dr. Mary Josepha, Sc-D, SW Pathology]**

15. *Demonstration of Automated Disinfection process for silkworm rearing house ( 2 Years)*

**Decision:** Dr. Naramiha naik, Sc-D was advised to prepare a project incorporating the installation and demonstration of the automated disinfection devices at all RSRs and submit the same before May 2015.

**[Action: Dr. A.R. Narasimha Nayaka, Sc-D, SW Pathology]**

16. *Custom-hire ED programme for rotary mountages (2 years) (DOS, Karnataka; NABARD)*

17. *Custom-hire ED programme for cocoon harvesters (2 years) (DOS, Karnataka; RDC)*

**Decision:** Sc-E, SED was advised to prepare the two project proposals and submit the same before May 2015.

**[Action: Dr. Satish Verma, Sc-E, SED]**

18. *Techno economic evaluation of new mulberry genotypes and cultivation technology (4 years)*

**Decision:** Chairman suggested modifying the title of the project and resubmitting by the end of May 2015.

19. *Development of value added products from spent pupae of mulberry silkworm, Bombyx mori. (4 years)- in collaboration with NIANP, Bangalore & Sericare, Bangalore)*

**Decision:** Chairman suggested formulating the project and submitting by the end of April 2015.

20. *Development of silk hydrogels and films for medical and cosmetic applications ( 3 years) – In collaboration with IIT, Guwahati*

**Decision:** Chairman suggested formulating the project and submitting by the end of May 2015.

**[Action: Dr. M. Munirathnam Reddy, Sc-D, SW Physiology]**

21. *Crop weather model for prediction of mulberry leaf yield using empirical statistical technique.*

**Decision:** Chairman suggested formulating the project and submitting by the end of May 2015.

**[Action: Dr. Mahima Santhi, Sc-C, Extension]**

22. *Phytoremediation of heavy metal contaminated soil using mulberry as tree plantation.*

**Decision:** Chairman suggested exploring the possibility of funding through Pollution control board, to discuss and collaborate with BBMP, Bangalore and finalize the project by the end of May 2015.

**[Action: Dr. P. K. Ambika, Sc-D, RSRS, Kodathi]**

23. *Evaluation of the Bivoltine hybrids (CSR16 x CSR17), (CSR27x CSR46) x (CSR4 x CSR26) and G11 x G19 at farmers' field with Tree mulberry blended with AMIT, under rainfed condition of Chamarajanagar.*

**Decision:** Chairman suggested discussing with scientists of silkworm breeding laboratory regarding the hybrids to be evaluated and only authorized breeds to be included and accordingly revise the project and submit by the end of May 2015.

**[Action: Dr. S.N. Pallavi, Sc-C, RSRS, Chamarajanagara]**

**General points:**

The Chairman informed that as per the decision of CSB, all RSRS units should have a minimum of one CSB coded research project. Accordingly he advised RSRS, Kodathi and Ananthapur to propose new projects immediately.

**[Action: Sc-D, RSRS, Kodathi & Ananthapur]**

For reaching the set targets in future, a clear road map has to be drawn for which Vision document for short term (2020) and long term (2030) has to be prepared by the Institute. In this regard, all the scientists of the Institute were advised to provide the inputs in their respective disciplines before May 2015 for preparation of the Vision Document.

**[All In charge officers of RSRS, DCs and Sectional Heads of Institute]**

The meeting ended with vote of thanks.

**Sd/-  
Director and Chairman, Research Council**

**Annexure-I**

**List of participants attended the Research Council meeting held on 30<sup>th</sup> & 31<sup>st</sup>  
July 2014 at CSRTI, Mysore**

#	Name	Designation	Section/Unit
1.	Sivaprasad. V. (Dr.)	Director, CSRTI, Mysore	Chairman, Research Council
2.	Jayaramaraju. P. (Dr.)	Scientist-D	RCS, CO, Bengaluru
3.	Ravindra Singh (Dr.)	Scientist-D	SSTL, Kodathi
4.	Ponnuvelu.(Dr.)	Scientist-D	SBRL
5.	Awasthi A.K. (Dr.)	Scientist-D	SBRL
6.	Chikkanna (Dr.)	Scientist-D & I/C	RSRS,Salem
7.	Rajanna.K.L (Dr.)	Scientist-D & I/C	RSRS, Kodathi
8.	Satyanarayana Raju Ch.	Scientist-D & I/C	RSRS, Ananthapur
9.	Srikantaswamy K.S. (Dr.)	Scientist-D & I/C	RSRS, Chamrajanagar
10.	Ashwath, S. K. (Dr.)	Scientist-D & DC (PMCE/ SW	CSRTI, Mysore
11.	Vindhya, G. S (Dr.)	Scientist-D & DC (Extension)	CSRTI, Mysore
12.	Satish verma (Dr.)	Scientist-E & DC ( SED)	CSRTI, Mysore
13.	Thippeswamy, T. (Dr.)	Scientist-D & DC (Host Plant)	CSRTI, Mysore
14.	Sharma, S. D. (Dr.)	Scientist-D & DC (Training)	CSRTI, Mysore
15.	Ambika P.K.. (Dr.)	Scientist-D	RSRS Kodathi
16.	Balasaraswathi, S. (Dr.)	Scientist-D	REC, Krishnagiri
17.	Balavenkatasubbaiah, M.(Dr.)	Scientist-D	CSRTI, Mysore
18.	Bhagya, R. (Dr.)	Scientist-D	CSRTI, Mysore
19.	Choudary, N. B. (Dr.)	Scientist-D	REC, SU, Giddalur
20.	Dasappa (Dr.)	Scientist-D	CSRTI, Mysore
21.	Dayananda (Dr.)	Scientist-D	CSRTI, Mysore
22.	Gandhi Doss, S. (Dr.)	Scientist-C	CSRTI, Mysore
23.	Gangadhar, B. (Dr.)	Scientist-D	CSRTI, Mysore
24.	Geetha, G. S.	Scientist-C	CSRTI, Mysore
25.	Girish Naik, V. (Dr.)	Scientist-D	CSRTI, Mysore
26.	Gnanakumar Daniel, A.	Scientist-D	REC, Samayanallore
27.	Gopinath, O. K.	Scientist-C	REC, SU, Vaniyambadi
28.	Gunasekhar,V. (Dr.)	Scientist-C	CSRTI, Mysore
29.	Gururaj, R.	Scientist-D	SSBS,Coonor
30.	Hemanthraj,M.T. (Dr.)	Scientist-D	REC,Chitrdurga
31.	Ishwar	Scientist-C	REC, SU, Bidar
32.	Kalpana, G. V. (Dr.)	Scientist-D	P4 BSF, Hassan
33.	Kariyappa (Dr.)	Scientist-D	CSRTI, Mysore
34.	Kasi Reddy, B. (Dr.)	Scientist-D	RSRS,Anatapur
35.	Kishore Kumar C.M. (Dr.)	Scientist-D	CSRTI, Mysore
36.	Kulkarni, S. B.	Scientist-C	CSRTI, Mysore
37.	Mahiba Helen, S. (Dr.)	Scientist-C	RSRS, Salem
38.	Mahima Santhi, A. (Dr.)	Scientist-C	CSRTI, Mysore
39.	Mal Reddy, N. (Dr.)	Scientist-D	CSRTI, Mysore
40.	Manthira Moorthy, S. (Dr.)	Scientist-D	CSRTI, Mysore
41.	Mary Flora, C. A.	Scientist-C	RSRS, Salem
42.	Mary Josepha, A.V. (Dr.)	Scientist-D	CSRTI, Mysore
43.	Masilamani, S. (Dr)	Scientist-C	REC, Krishnagiri
44.	Mohan B.	Scientist-C	REC Srivilliputtur
45.	Mukund V. Kirsur	Scientist-D	CSRTI, Mysore
46.	Munikrishnappa, H. M.	Scientist-C	CSRTI, Mysore
47.	Muniratnam Reddy, M. (Dr.)	Scientist-D	CSRTI, Mysore
48.	Murthy, B. N. (Dr.)	Scientist-D	REC, Madakasira

#	Name	Designation	Section/Unit
49.	Nagaraj, S. B.	Scientist-D	CSRTI, Mysore
50.	Narasimha Nayaka, A. R.	Scientist-C	CSRTI, Mysore
51.	Narendra Kumar, J. B.	Scientist-D	CSRTI, Mysore
52.	Nishitha Naik, V. (Dr.)	Scientist-D	CSRTI, Mysore
53.	Noble Morrison, M. (Dr.)	Scientist-D	REC, Madivala
54.	Pallavi, S. N.	Scientist-C	RSRS ChamaraJanagr
55.	Paramwshwar C	Scientist-C	CSRTI, Mysore
56.	Philomena K.L.	Scientist -D	RSRS Kodathi
57.	Prasad G.V. (Dr.)	Sicentist-D	Palamner
58.	Pratheesh Kumar, P. M. (Dr.)	Scientist-D	CSRTI, Mysore
59.	Punithavathy	Sicentist-D	REC Udumalpet
60.	Radhalakshmi, Y. C. (Dr.)	Scientist-D	CSRTI, Mysore
61.	Raghunath M.K. (Dr.)	Scientist-D	REC SU Ranebennur
62.	Rajakumar, S.	Scientist-D	RSRS, Salem
63.	Rajashekar, K.	Scientist-D	CSRTI, Mysore
64.	Ravikumar, J. (Dr.)	Scientist-D	RSRS, Salem
65.	Raghuaathi M.(Dr.)	Scientist-D	RSRS,Anathapur
66.	Santha, P. C. (Dr.)	Scientist-C	CSRTI, Mysore
67.	Sarala, K.	Scientist-C	REC, Palakkad
68.	Shanthan Babu, M. A.	Scientist-C	RSRS, Anathapur
69.	Sharmila, K. K. (Dr.)	Scientist-D	CSRTI, Mysore
70.	Shivashankar, N.	Scientist-C	RSRS Kodathi
71.	Sibayan Sen	Scientist-C	CSRTI, Mysore
72.	Sivasubramaniyan	Scientist-C	REC Samayanallur
73.	Somaprakash, D. S. (Dr.)	Scientist-D	CSRTI, Mysore
74.	Soudamini, P. V.	Scientist-C	REC, SU, Kalpetta
75.	Srinivas Rao, T.V.S. (Dr.)	Scientist-D	REC SU, Chebrolu
76.	Sudhakar, P. (Dr.)	Scientist-C	RSRS, Kodathi
77.	Sudhakar rao, P. (Dr.)	Scientist-C	RSRS, Kodathi
78.	Srinath, B. (Dr.)	Scientist-D	REC, Vikarabad
79.	Vedavyasa K.	Scientist-D	REC SU Tumkur
80.	Venkateswara Rao, M. (Dr.)	Scientist-D	REC, Eluru
81.	Venkatachalapathy, M. (Dr.)	Scientist-D	REC, Raychoti
82.	Vijayakumar R	Scientist C	RSRS Salem
83.	Vineet Kumar (Dr.)	Scientist-D	CSRTI, Mysore
84.	Vinod Kumar Yadav	Scientist-B	CSRTI, Mysore