

## **CENTRAL SERICULTURAL RESEARCH & TRAINING INSTITUTE (CSRTI), MYSURU**

### **MINUTES OF 41<sup>st</sup> RESEARCH ADVISORY COMMITTEE MEETING HELD ON 20<sup>th</sup> & 21<sup>st</sup> APRIL, 2017**

The 41<sup>st</sup> Research Advisory Committee meeting of CSRTI, Mysuru was held on 20<sup>th</sup> & 21<sup>st</sup> April 2017 at CSRTI, Mysuru for reviewing the progress of R&D activities of the Institute and its nested units (July, 2016 to March 2017) and to consider new project proposals for consideration. Prof. K. Narayana Gowda, Hon'ble Former Vice-Chancellor, University of Agricultural Sciences, Bengaluru chaired the meeting. The list of members and participants who attended the meeting is appended herewith in **Annexure-I**.

Dr. V. Sivaprasad, Director welcomed the Chairman, the members of RAC and all the Scientists of CSRTI and its nested units for the meeting. Prof. K. Narayana Gowda, Chairman, RAC in his opening remarks expressed satisfaction over the progress made by the Institute and congratulated the Director and scientists for their progress of work during the reporting period. Further, he emphasized the importance of R&D on best use of water for mulberry, drought mitigation measures thorough tree mulberry plantation, reduction of labour by mechanization and minimization of cost of production in sericulture, integrated nutrient management. He also said in traditional areas like Kolar, Bangalore rural and Ramanagaram districts the ground water level is alarming and advised all DOS and extension officers to promote tree mulberry plantation, wherever new plantations are taken up, old plantations to be replaced and also better management practices for promoting bivoltine technology. He also suggested CSB authorities to take up programmes in concerned areas as alternative crop for replacement of tobacco grown in Hunsur and other taluks ( $\geq 10,000$  hectares) with mulberry tree plantation and bivoltine for the benefit of farmers.

#### **ITEM NO. 1: CONFIRMATION OF THE MINUTES OF 40<sup>th</sup> RAC MEETING ON 26<sup>th</sup> SEPTEMBER 2015**

The RAC committee confirmed the minutes of the previous meeting as no comments were received from any member.

#### **ITEM NO. 2: REVIEW OF FOLLOW-UP ACTION TAKEN ON DECISIONS OF RAC IN 40<sup>th</sup> MEETING**

The report on the follow-up actions taken on decisions of 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 RAC. RAC Chairman appreciated the scientists who have received CSB award. DOS, Karnataka representative informed house that Sericulture FPO will be officially inaugurated during May 2017 in Koppa (Maddur Tq) and requested the institute for coordinating the required forward and backward linkages and provide business models available in sericulture for the FPO. RAC Chairman suggested DOS, Tamil Nadu to utilize fallow lands available in Virudhunagar, Ramanathapuram and Thoothukudi Districts for promoting Sericulture through tree mulberry plantation.

#### **ITEM NO. 3: DIRECTOR'S REPORT**

The highlights of progress achieved by the Institute and its nested units during 2016-17 were presented by Dr. V. Sivaprasad covering the aspects of Mulberry & Silkworm Production, Protection, Extension & Training activities. The Chairman and members appreciated the R&D achievements of CSRTI-Mysore through team efforts of Scientists and Director. RAC Chairman appreciated the collaborative work of value added products with NIANP, Bangalore and suggested that NIANP scientists can simultaneously generate information on utilization of spent pupa for sheep rearing.

## 5. REVIEW OF CONCLUDED PROJECTS

The following research projects concluded during the reporting period were reviewed by the committee.

### 1. AIB 3456: Development of Productive polyvoltine breeds of the silkworm *Bombyx mori* L. tolerant to high temperature and BmNPV

The committee noted the performance of the hybrids identified and suggested further evaluation of the hybrids through OST/OFT. [Action: MBL, CSRTI-Mysuru]

### 2. MOE 3525: A study on the impact of Pest and Disease Management practices in Sericulture among the farmers under Cluster Promotion Programme (CPP) in South India

The committee noted the findings of the study and observed that bio-control measures were not being adopted in Maharashtra. It was suggested to make use of the facilities available at KVK, Baramathi and other colleges in the area for the production and supply of bio-control agents and also to conduct awareness programmes under TOT activities. [Action: Dr. B. Gangadhar, Sc-D]

### 3. MOE 3523: Study on Drought Management practices in Mulberry Sericulture

The committee suggested organizing extension communication programmes and intensive educational activities such as training, demonstration, seminars, exhibitions, field days and exposure visits. The Chairman also suggested providing saplings through kisan nurseries and temperature tolerant breeds and mulberry varieties to the farmers. Further, it was suggested to have demonstration plots with all the drought management practices at field based units of RSRs/RECs. The Committee also suggested that NSSO, Bengaluru should plan for the production of suitable silkworm breeds. [Action: Dr. A. Mahima Santhi, Sc-D]

### 4. AIB 3536: Development of new bivoltine silkworm hybrids for commercial exploitation

The committee noted the performance of the hybrids identified and suggested further evaluation of the hybrids through OST/OFT and also advised to make arrangements for testing the selected hybrids at CSRTI-Berhampore and CSRTI-Pampore under intimation to CO.

[Action: Dr. C. M. Kishor Kumar]

### 5. AICEM: All-India coordinated experimental trial for mulberry PHASE - III

It was observed by the committee members that the performance of all the test varieties across all the seasons was poor at REC-Rayachoty and it was opined that this might be due to the soil nature prevailing at the test center. Further, it was suggested to include soil suitability test in the future of AICEM programmes. [Action: Dr. T. Mogili, Sc-D]

### 6. ARE 3526: Investigation on semio-chemicals of the silkworm uzi fly, *Exorista bombycis*

The committee noted the performance of the identified Pheromone based trap and suggested to take up validation trials through OST/OFT. [Action: Mr. J.B. Narendra Kumar, Sc-D]

### 7. PRE 3527: Survey & Surveillance of major pests and their natural enemies in mulberry eco-system

The committee felt that, the work to be continued as a regular activity of the institute and nested units in order to obtain data on pest and diseases status in the field, which should form basis for making forewarning/forecasting calendars of pest and diseases and to identify any new pest/natural enemies in the field. [Action: Mr. J.B. Narendra Kumar, Sc-D]

### 8. PRP 3530: Development of a broad spectrum formulation for effective management of mulberry root rot disease

The committee noted the results and future plan of action for the product developed. It was informed to the house that the product is under patenting process with NRDC.

[Action: Dr. Pratheesh Kumar, P.M, Sc-D]

**9. PRP 3535: Popularization of Nemahari - A bionematicide for management of root knot disease in mulberry**

The committee opined that the product needs to be subsidized during the popularization of the technology for the benefit of the farmers.

[Action: Dr. Pratheesh Kumar, P.M, Sc-D]

**10. APR 3529: Design and development of silkworm rearing house models for hot & dry and hot & humid (non-traditional) areas of peninsular India**

The committee noted the outcome of the study and suggested to integrate various rearing house models along with temperate tolerant hybrids for validation.

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

**11. PPF 3500: Development of Seri-Lac culture model for income augmentation**

The committee enquired about the availability of local market facility for the lac. The chairman advised to grow mulberry and lac culture to replace the tobacco in Mysuru.

[Action: RSRS, Chamarajanagara]

**12. PPA 3551: Determination of yield potential of newly developed hybrids under tree type mulberry plantation**

It was observed by the committee the SR% for the bivoltine hybrids was very low and it was suggested to look into the data while submitting the conclusion report. RAC also suggested that tree plantation economics to be worked out along with package of practices.

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

**13. AIB 3528: Evaluation of G11 x G19: A new bivoltine double hybrid silkworm for sub-optimal conditions**

The committee noted the large scale performance of the hybrids in field level and suggested to popularize the hybrid after HAC authorization.

[Action: BBL, CSRTI-Mysuru]

**14. ARP 3550: Validation trials of Automated Disinfection of silkworm rearing house**

The committee appreciated the efforts of farmer, who has invented the model for his rearing house due to non-availability of labour. It was felt that the cost of the refined model is high. It was advised to fine tune the model and reduce the cost of production and it should be made economical in large scale production for the benefit of farmers.

[Action: Dr. A. R. Narasimha Nayaka]

**REVIEW OF TRAINING/ EXTENSION & OTHER ACTIVITIES**

Mr. Rajashekar K, Sci-D presented the Training activities carried out by CSRTI-Mysore and its attached units. The committee appreciated the various training programmes conducted by the main institute and RSRS units during the period and also suggested to include content on cocoon sorting and quality testing in the training programme.

Mr. S. B. Nagaraja, Sc-D, presented the progress of CPP, IVLP and Extension activities carried out by CSRTI-Mysore and its attached units and the committee noted the progress.

Dr. Gnanesh Nanjappa, Ramanujam Fellow has presented the activities of carried out under Ramanujam Fellowship programme and the committee appreciated the work.

**RSRS Activities:** The achievements and activities of RSRSs of Kodathi, Chamaraja Nagar, Anantapur and Salem are presented by the respective unit heads to the RAC. The presentations explained about the CPP/IVLP activities, collaborative research programmes with main institutes, programmes of continuous nature such as pest/disease surveillance etc., OST/OFTs of newly developed silkworm hybrids, various extension educational programmes.

## **7. NEW RESEARCH PROJECT PROPOSALS FOR APPROVAL**

The following new projects presented by the scientists were reviewed by the committee.

### **1. Social inclusion of women through sericulture - Lessons from Cluster Promotion Programme**

The committee felt that the project proposal needs further review of the work undertaken at different institutions and suggested to consult UAS extension experts and come out with clearer aim and clarity on the out come of the project and get the approval of Chairman-RAC for further processing. [Action: Dr. G. S. Geetha, Sc-B]

### **2. Mapping QTLs for alkalinity tolerance in mulberry**

The committee approved the project as the alkalinity is the major problem in costal areas, therefore such study can be taken up immediately. [Action: Dr. Vaijayanthi P.V., Sc-B]

### **3. Entrepreneurship development in Silkworm rearing house disinfection and Cocoon harvesting (Funded by NRDC)**

The committee appreciated the proposal which aims to focus on development of customize centers of machineries developed by this institute for the benefit of the stakeholders. The proposal is approved which is already agreed by NRDC for funding. [Action: Dr. Satish Verma, Sc-E]

### **4. TOT Project: Popularization of Rot- fix for management of root rot disease of mulberry among sericulture farmers of southern states**

The committee approved the project with a suggestion to add the state of Telangana in the study. [Action: Dr. Pratheesh Kumar, P. M, Sc-D]

### **5. DNA Barcoding of Silkworm Breeds using Single Nucleotide Polymorphism (SNP) Genotyping (Multi-Institutional Net work Project)**

The Committee approved the project as the study is well conceptualized and such studies are the need of the hour. [Action: Dr. Kusuma, L, Sc-B]

### **6. Indo-Japanese Collaborative Research Project on Sericulture "Development of climate resilient productive bivoltine silkworm breeds/hybrids and new products using silk fibroin (Multi-Institutional Collaborative Project)**

The committee has approved the proposal with a suggestion to explore the possibility of funding from international agencies. [Action: Dr. Manthira moorthy, Sc-D]

### **7. Engineering photosynthesis in Mulberry for resilience to climate change: A C4 approach**

The committee thoroughly reviewed the proposal and approved as an ambitious and challenging proposal and advised to transform triploid variety instead of G4.

[Action: Dr. Tanmoy Sarkar, Sc-B]

## **REVIEW OF PROGRESS OF ONGOING PROJECTS**

Director informed the committee that at present, 24 projects are being implemented and the progress of projects is as per the milestones.

## **CONCLUDING REMARKS OF MEMBERS**

The Chairman, RAC while thanking the experts for their interventions during the meeting, requested the expert members to express their specific and general remarks on deliberations. He also requested the farmer and reelers members to give their remarks and feedback.

Dr. A.N. Shylesha, Senior Scientist, NBAIL-Bengaluru: The multiplication of bio-control agents needs to be taken up at main institute and supply to the extension units for the distribution to stake holders. In this context Chairman suggested that, a letter may be send to DOSs of different states to get the prior requirement and supply to farmers.

Dr. H.K. Basavaraja, Retd. Scientist, Mysuru: He congratulated all the scientists of main institute, RSRs, RECs and DOS for their efforts in achieving the set target of bivoltine silk production in the country. Further, he expressed that the credit goes to the all the major breeds/hybrids and technologies developed by this institute which made farmers to shift from CB to bivoltine hybrid rearings.

Prof. Chinnaswamy, UAS, Bengaluru: He informed that institute has achieved tangible progress and expressed his satisfaction about the progress made during the period. The outcome of the project results of the concluding projects needs to be properly utilized for the benefit of the stakeholders. He also suggested for a consortium approach for developing bio-technological breeding programmes rather than the individual approach.

Dr. S. Shivashankar, Senior Scientist IIHR-Bengaluru: He appreciated all the scientists of the institute for carrying out the projects which are very challenging and advised to work with caution to come out with best results. Development of drought resistant/tolerant mulberry varieties is an important issue which is going to help sericulture industry in future. Water scarcity and drought management needs to be taken on priority. He also advised to reduce the use of chemicals considerably in mulberry crop. Further, he opined that in case of tree mulberry plantation, canopy management is very important and needs to be promoted.

Dr. Katti, DC (Seri), KSSRDI, Bangalore: He raised the issue of non-spinning larvae being reported from farmers and this needs to be addressed. Director, CSRTI-Mysuru informed house that Institute has already began working on the issue to determine the reasons/factors for non-spinning larvae.

Mr. S. P. Palani Durai, Principal, Training School Hosur (Rep Commissioner DOS, Tamil Nadu): He opined that the studies taken up should have social application. Intensive Bivoltine technologies should be intensified in field. Further, he informed to the house that the Tamil Nadu sericulture farmers are happy as they are getting more profit for cocoons. He also assured the chairman that the issue will be taken up with the state authorities regarding mulberry plantation in fallow lands of Virudhunagar, Ramanathapuram and Thoothukudi Districts.

Mr. P. M. Chougule, SDO, DOS Maharashtra representative: He informed that the cocoon market problem needs to be solved in Maharashtra at the earliest. Cost of production is higher in Maharashtra which should be reduced by implementing mechanization with marginal farmers. It was

also informed to the house that the farmers from Maharashtra are facing problem in Ramanagara Cocoon market as there is delay in the payment.

Mr. M. Nagarangaiah, ADS (Rep DOS, AP): He informed that emphasis may be given to tree plantation of mulberry as drought conditions are prevailing in AP and the package of practices may be developed for the same. Further he requested that, the CRC owners may be guided /educated to supply bivoltine dfls which are purchased from NSSO, depending on area and season. Further, he informed that the traditional zone of Rayalaseema where temperature goes up to 40-45° C for which suitable mulberry variety and silkworm breeds may be suggested. In addition, he also requested for area specific and season wise rearing house models. G11xG19 may be supplied to AP as the higher temperature is noticed and CPP programme may be continued in the state.

Mr. V. Ramesh, DD (Insp.), Regional Office, Mumbai, Maharashtra: He informed to the house that the cocoon market will be opened by the end of July 2017 in Maharashtra to support the farmers.

Sri. T. Jeevanantham, Farmer (TN): He informed the house that a Rot-fix material is to be made available to farmers in the state. He also opined that automated disinfection system is not covering the top of the rearing house for complete disinfection of the rearing house this need to be addressed.

Mr. D. Kirubakaran, Joint. Secretary (Tech), RO, CSB, Chennai (TN): He requested to conduct more awareness programmes in non-CPP area to encourage the farmers as CPP areas have performed well. He also opined that tree plantation needs to be popularized in drought areas. Success stories in CPP area is also covered as advised by MOT. He also informed house that the issue of mulberry plantation in fallow lands in Virudhunagar, Ramanathapuram and Thoothukudi Districts of Tamil Nadu will be take up with the state authorities.

The RAC Chairman Dr. K. Narayana Gowda appreciated the projects being carried out by the scientists of the Institute and suggested to document the success stories of farmers and publish in regional languages to reach maximum number of farmers. He also thanked the Director of the Institute for immediate arrangement of field and lab visit for the benefit of RAC members and invitees. He suggested minimizing the labour cost by introducing mechanization in various activities of cocoon production. Further, the chairman opined that the extension and training activities carried out by CSRTI-Mysuru could as well be reviewed in the Research Council in future. He also expressed his happiness with regard to the higher rates of cocoons, which is encouraging the new farmers to take up sericulture activities and might result in the increased silk production towards achieving self-sustainability. The Chairman suggested that three-tier extension strategy should be adopted for promoting tree species of mulberry along with bivoltine cocoon production during tobacco replacement efforts.

Dr. S.B. Nagaraj, Sci-D and Dr. Dasappa, Sci-D who are due for retirement were felicitated during this occasion. The chairman of RAC and other members appreciated the services rendered by these scientists in Central Silk Board.

The meeting ended with vote of thanks by Mr. S.B. Nagaraja Scientist-D.

Sd/-  
CHAIRMAN  
(Prof. K. Narayana Gowda)

**LIST OF MEMBERS AND INVITEES WHO ATTENDED 41<sup>th</sup> RAC MEETING  
HELD ON 20<sup>th</sup> & 21<sup>st</sup> APRIL 2017**

#	Name of Members and Invitees		
1	Prof. K. Narayana Gowda, Former VC, UAS, GKVK, Bengaluru	Chairman	
2	Dr. V. Sivaprasad, CSRTI-Mysuru	Member Convener	
3	Dr. Anil Kumar, Principal Scientist, NBSS & LUP, Bengaluru	Members	
4	Prof. K P. Chinnaswamy, GKVK, Bengaluru		
5	Dr. S. Shivashankar, IIHR, Bengaluru		
6	Dr. H.K. Basavaraja, Retd. Scientist, Mysuru		
7	Dr. A.N. Shylesha, NBAIL, Bengaluru		
8	Dr. S.R. Katti (Seri) & (Rep Director, KSSRDI)		
9	Mr. K. S. Venkata Rao, DD, (Rep Commissioner DOS, Karnataka)		
10	Mr. S. P. Palani Durai, Principal, Trg. School Hosur (Rep DOS, TN)		
11	Mr. M. Nagarangaiah, ADS (Rep DOS, AP)		
12	Dr. K. Mandal, Director (Tech), CSB, Bengaluru		
13	Dr. P. Jayarama Raju, Sci-D, RCS, CSB		
14	Mr. Ashwath Reddy, Sci-D, (Rep Director, CSTRI, Bengaluru)		
15	Dr. G. V. Kalpana, Sci-D (Rep. NSSO, CSB, Bengaluru)		
16	Dr. Veerannagouda, Sci-D (Rep Director CSGRC, Hosuru)		
17	Dr. K. M. Ponnuvel, Sci-D, ( Rep. Director, SBRL, Bengaluru)		
18	Sri. T. Jeevanatham, Farmer, Tamil Nadu		
19	Sri. C.M. Ramesh, Silk Reeler, Tamil Nadu		
20	Dr. Shanthan Babu, Scientist-D, RSRS, Anantapur		
21	Dr. Jalaja S Kumar, Sc-D, RSRS, Kodathi, Bengaluru		
22	Dr.K. Srikantaswamy (Retd), Special invitee		
23	Dr. S. N. Pallavi, Scientist-D, RSRS, Chamarjanagr		
24	Dr. S. Rajkumar, Scientist-D, RSRS, Salem		
25	Dr.Vasanth Thimkapura, Agricultural Scientist, Mysuru - Special Invitee		
26	Mr. V. Ramesh, DD (Insp.), Regional Office, Mumbai, Maharastra		
27	Mr. S. N. Shariff, DST (Regional Office, Hydrabad)		
28	Mr. D. Kirubakaran, Jt. Secretary (Tech), RO, CSB, Chennai, TN		
29	Mr.P. M. Chougule, SDO (Rep. Director DOS, Maharashtra)		
	<b>Members and Invitees who sought leave of absence</b>		
1	Dr. K. Siddeswaran, TNAU, Tamil Nadu		
2	Director, APSSRDI, Andhra Pradesh		
3	Dr. K. C. Narayanaswamy, UAS, GKVK, Banaglore - Special Invitee		
5	The Commissioner of Rural Development, Govt. of Kerala		
6	The Commissioner of Sericulture, Govt. of Madhya Pradesh, Bhopal		
7	Sri. Peddi Ravindar, Silk Reeler, Andhra Pradesh		
8	Sri. Satyanarayana Reddy, Bivoltine Farmer, Andhra Pradesh		
9	Sri. Syed Ziyauulla, Silk Reeler		
10	Dr. Kantipudi Nirmal Babu, Indian Institute of Spice Research, Kerala		
11	Sri. K. Shivanandaiah, Farmer, Karnataka		

**List of Participant Scientists from CSRTI, Mysuru and its nested units from 41<sup>st</sup> RAC**

1	Dr. V. Girish Naik, Sci-D, CSRTI, Mysuru	53	Ms. Joyc Rani, Sci-B, CSRTI, Mysuru
2	Dr. Dasappa, Sci-D, CSRTI, Mysuru	54	Dr. R. Sumathi, IO, BIC, CSRTI, Mysuru
3	Dr. K. Satya Prasad, Sci-D, CSRTI, Mysuru	55	Ms. Sobhana, V., Sci-B, CSRTI, Mysuru
4	Dr. B.T. Srinivasa, Sci-D, CSRTI, Mysuru	56	Ms. P. Sowmaya, SRF, CSRTI, Mysuru
5	Dr. K. PraveenKumar, Sci-D, RSRS, Shadnagar	57	Dr. P.S. Reddy, Sci-D, REC Suryapet
6	Dr. J. Ravikumar Sci-D, RSRS, Salem	58	Dr. N. Dhahira Beevi, Sci-D, RSRS Salem
7	Dr. Mahima Santhi, A., Sci-D, CSRTI, Mysuru	59	Ms. K. Sarala, Sci-D, REC Palakkad
8	Dr. Sharmila, K. K., Sci-D, Darmapura	60	Dr. R. Meenal, Sci-D, RSRS Chanarajanagar
9	Ms. Soundamini, P.V. Sci-C, CSRTI, Mysuru	61	Dr. K. B. Chandrashekar, Sci-D, CSRTI, Mysuru
10	Dr. P.K. Ambika, Sci-D, RSRS, Kodathi	62	Dr. Satish, L., CSRTI, Mysuru
11	Dr. Santha, P.C. Sci-D, CSRTI, Mysuru	63	Mr. B. Vijaya Naidu, Sci-D, RSRS Ananthapur
12	Dr. Ravindramatigatti, Sci-D, REC-SU, Kudlagi	64	Dr. A. Venugopal, Sci-D, REC Rayachoty
13	Dr. H. Jayaram, Sci-D, REC-SU, Kanakapura	65	Dr. Ramesh Kumar S, Sci-C, REC-SU Bidar
14	Dr. A.R.N. Nayaka Sci-D, CSRTI, Mysuru	66	Dr. Purushotham, Sci-D, CSRTI, Mysuru
15	Dr. Somaprakash, D.S., Sci-D, CSRTI, Mysuru	67	Dr. Tanmoy Sarkar, Sci-B, CSRTI, Mysuru
16	Dr. B. Mohan, Sci-D RSRS, Coonoor	68	Dr. Thirupathiaha, Sci-B, CSRTI, Mysuru
16	Dr. Vinodkumar Yadav, Sci-C, CSRTI, Mysuru	69	Dr. Madhushdhan, Sci-C, CSRTI, Mysuru
18	Dr. Vineet Kumar Sci-D, CSRTI, Mysuru	70	Dr. Gnanesh Nanjappa, Ramanujam Fellow, CSRTI, Mysuru
19	Ms. Rekha, A.D. CSRTI, Mysuru	71	Dr. Mallikarjuna G, Sci-B CSRTI, Mysuru
20	Mr. Rajashekar, K., Sci-D, CSRTI, Mysuru	72	Dr. Arun Kumar G.S., Sci-B, CSRTI, Mysuru
21	Mr. Ishwar, Sci-C, REC-Bidaraguppe	73	Mr. G. Churendar, Com Prg. CSRTI, Mysuru
22	Dr. Noble Morison Sci-D, REC, Madivala	74	Mr. M.N. Chandarashekar, Sci-C, CSRTI, Mysuru
23	Dr. Satishverma, Sci-E, CSRTI, Mysuru	75	Mr. B. S. Pappu, AD (Publicity), CSRTI, Mysuru
24	Mr. Narendra Kumar, J.B., Sci-D, CSRTI, Mysuru	76	Mrs. Lakshmikanthamma, Steno, SEEM, CSRTI, Mysuru
25	Dr. Nishitha Naik. V., P4, BSF, Hassan	77	Ms. Kruthika H. S., Res. Scholar, CSRTI, Mysuru
26	Dr. Geetha, G. S., Sci-C, CSRTI, Mysuru	78	Ms. Aditi H.S., Comp. Operator, CSRTI, Mysuru
27	Ms. Suma, A.S., Sci-D, Training	79	Mr. Marian Vincent Pinto, SRF, CSRTI, Mysuru
28	Dr. Kariyappa, Sci-D, Reeling, CSRTI, Mysuru	80	Mr. Avinash, Comp. operator, CSRTI, Mysuru
29	Dr. Pratheeshkumar Sci-D CSRTI, Mysuru		
30	Dr. S.M. Murthy, Sci-D, CSRTI, Mysuru		
31	Dr. C.M. Kishore Kumar, Sci-D, CSRTI, Mysuru		
32	Dr. Sibyan Sen Sci-C, CSRTI, Mysuru		
34	Dr. Gangadhar, B., CSRTI, Mysuru		
35	Dr. T. Mogili, Sci-D, CSRTI, Mysuru		
36	Dr. G. V. Prasad, Sci-D, REC Palamner		
37	Dr. S. Gandhi Doss, Sci-D, CSRTI, Mysuru.		
38	Dr. M. K. Raghunath, Sci-D, REC-SU, Ranebennur		
39	Dr. K. Vedvyas, Sci-D, REC-SU, Tumkur		
40	Dr. Dayanda Sci-D, CSRTI, Mysuru		
41	Dr. Bhagya, R., Sci-D, CSRTI, Mysuru		
42	Mr. C. Parameswara, Sci-D, CSRTI, Mysuru		
43	Mr. H.M. Munikrishnappa, Sci-C, CSRTI, Mysuru		
44	Mr. S.B. Nagaraja, Sci-D, CSRTI, Mysuru		
45	Ms. Sabitha, M. G., Sci-D, CSRTI, Mysuru		
46	Mr. Rahul Singh, Sci-D, REC Aurangabad		
47	Mr. Ramprakash, Sci-D, RED Baramati		
48	Ms. Punithavathi, Sci-D, REC Udmalpet		
49	Dr. Mary Josepha, Sci-D, CSRTI, Mysuru		
50	Dr. Vijyanthi, P. V., Sci-B, CSRTI, Mysuru		
51	Dr. Kusuma, L., Sci-B., CSRTI, Mysuru		
52	Dr. Gayatri, T., Sci-B, CSRTI, Mysuru		