

**CENTRAL TASAR RESEARCH AND TRAINING INSTITUTE  
RANCHI - 835 303, JHARKHAND**

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**MINUTES OF THE 52<sup>ND</sup> MEETING OF RESEARCH ADVISORY  
COMMITTEE (RAC) OF CTR&TI HELD ON 20<sup>TH</sup>- 21<sup>ST</sup> June, 2023 AT  
CTR&TI, RANCHI**

The 52<sup>nd</sup> meeting of Research Advisory Committee (RAC) of CTR&TI, Ranchi was convened on 20<sup>th</sup>- 21<sup>st</sup> June, 2023. Dr. K. Sathyanarayana, Director & Member Convener of RAC extended a warm welcome to the RAC Chairman, Dr. Onkar Nath Singh, Hon'ble Vice Chancellor, BAU, Ranchi, Dr. A. Venugopal, Director, BTSSO, Bilaspur, Dr. S. Periyasamy, Director, CSTRTI, Bengaluru, Dr. P.K. Mishra, Retd. Director (Tech), Central Silk Board, Bengaluru, Dr. A.K. Yadav, Dos, Uttarakhand, Dr. Rajesh Baghel, Additional Director (Sericulture), Chhattisgarh and other RAC members, representatives from DOSs, Producer Institutions/ NGOs and Scientists of the Institute. The list of participants is appended as **Annexure-1**.

Director, CTR&TI, Ranchi presented the scientific strength vis-à-vis projects handled, Research Highlights along with the activities & achievements of the institute since the last RAC. Director informed the Committee that the Institute has been submitted Patent application submitted to NRDC, New Delhi viz., •Process to mass produce *Cordyceps militaris* on Vanya silkworm refuses. (NRDC/IPR/PC/22075/2022), Cocoonase enzyme variant based cocoon processing to get value added tasar silk ((NRDC/IPR/PC/22074/2022) and Method for obtaining purified Sericin protein from tasar cocoon cooking water (NRDC/IPR/PC/22076/2022), whereas 02 technologies have been commercialized (PVS with Biosafe Hygiene & LSM with NRDC)&01 technology is under commercialization (Egg washing cum disinfection machine with NRDC). Further, informed that during the period, 06 Research projects have been approved from CO, CSB viz., 01.APR04015CN, 02.ARP04016MI, 03. AIB04017MI, 04.AIB04018MI, 05. AIB04019MI, 06. AIB04020MI and 03 projects presented before TEC-DBT on 28.4.23 for DBT funding. The Committee expressed its concern on many of the scientific posts being vacant at institute and at majority of nested units and called for filling up the same to meet the set objectives.

The Chairman RAC congratulated CTR&TI, Ranchi on the occasion of conducting 52<sup>nd</sup> meeting of RAC and appreciated CTRTI team on the tremendous and evident improvements that took place during last one year not only in research, technology dissemination, extension & training but also in infrastructure creation.

Later, Dr. Jitendra Singh, Scientist-C, PMCE Division initiated the proceedings as per the agenda.

### **Agenda No. 1: Confirmation of minutes of 51<sup>st</sup> meeting of RAC held 20<sup>th</sup> – 21<sup>st</sup> November 2022.**

As no comments were received from any of the members, minutes of 51<sup>st</sup> meeting of RAC held on 20<sup>th</sup>-21<sup>st</sup> November 2022 at CTR&TI, Ranchi, were confirmed.

### **Agenda No.2: Follow up Action on the General Recommendation/ Decisions of the last RAC Meeting.**

The follow-up actions on the general recommendation/ decisions of last RAC meeting were discussed. The Committee reviewed the action taken on the decisions made during the last RAC and expressed its satisfaction on the follow-up

### **Agenda No.3: Follow up Action Taken on the Project Specific Recommendation/Decisions of the Last RAC Meeting**

The follow-up actions on the recommendation/decisions of last RAC with respect to projects were discussed along with the progress and findings of the projects.

### **Agenda No.4: Review on Concluded projects**

**1. BPC 04005SI] Tasar waste to wealth by *Cordyceps*** (March 2020- Feb 2023) [PI: K. Jena, Scientist- D, CTR&TI, Ranchi]

Dr. P.K. Mishra suggested for commercialization of the *Cordyceps*, as patent has already been filed. Committee suggested PI to submit the final report in RMIS10 within stipulated period.

[Action: Dr. K. Jena, Scientist- D & PI]

**2. [BPS 01013 CN] Utilization and diversification of silkworm pupae products for human & animal consumption and composting** (Oct, 2020 - Sept, 2022, extended up to March, 2023) [PI: K. Jena, Scientist- D, CTR&TI, Ranchi]

Chairman appreciated the outcome of the project, especially the publication of two papers in high impact journal. Committee suggested PI to submit the final report in RMIS10 within stipulated period.

[Action: Dr. K. Jena, Scientist- D & PI]

### **Agenda No.5: Concept Notes of New Research Projects for approval**

**1. CSB/CTR/RCN 216: Identification of suitable package of practices for establishment of *Lagerstroemia speciosa* (Jarul) for quality leaf production** (Dec., 2023- Nov, 2028) [PI: Ms. Susmita Das, Scientist-D, CTRTI, Ranchi]

Smt. Susmita Das, Scientist-D presented the proposal along with referee comments and action taken report. The committee made the following suggestions

- Layout shall be included in the proposal
- Pest and disease data should also be recorded
- Estimation of NPK in leave shall be done

The committee called the proposal as need of the hour. The proposal has been approved with the above suggestions

[**Action:** Ms. Susmita Das, Scientist-D& PI]

#### **Agenda No.6: Review of the progress of ongoing research projects**

Total 19 research projects (including 2 collaborative) were discussed and RAC recommended/suggested as mentioned below:

##### **A. Main Institute:**

**1. [PIB 04009 SI] Evaluation of identified hybrids of *Terminalia arjuna* × *T. Tomentosa* and drought tolerant accessions of *T. arjuna* for their suitability in different tropical tasar silkworm rearing regions (Oct. 2021 – Sept. 2027) [PI: Dr. Aparna K, Scientist-C, CTR&TI, Ranchi]**

PI presented the progress and expressed the constraints in raising the saplings of hybrids and accessions and also requested for mid-term corrections. The committee opined that the corrections requested are justified and the request may be put forth for the approval of the RCS. The committee also suggested to repeat the survival assay for the hybrids so that the hybrids with lower propagation efficiency can be eliminated.

[**Action:** Dr. Aparna K, Scientist-C& PI]

**2. [PPA04010CN] Region and season specific selection of pruning and brushing schedule for tasar food plants and silkworm protection (Feb2022 – January 2025)[PI: Dr. Jitendra Singh, Scientist- C, CTR&TI, Ranchi]**

Dr. Jitendra Singh, Scientist – C, presented the progress of project and RCS, Bengaluru suggested to PI for developing the trend of temperature and rainfall in different agro-climatic zone based on long term historical weather data. RAC member suggested PI to used standard protocol for calculation of accumulated GDD model.

[**Action:** Dr. Jitendra Singh, Scientist- C& PI]

**3. [ARP04012SI] Developing ectomycorrhizal bio-inoculants for improving survival and leaf yield of *Terminalia arjuna* and *Terminalia tomentosa* (Feb 2022 – January 2025) [PI: Dr. Aparna Kopparapu, Scientist-C, CTR&TI, Ranchi]**

PI presented the progress & requested for inclusion of purchase of a refrigerator with the amount available in non-recurring head. The committee supported the request and suggested to obtain the approval of the RCS.

[Action: Dr. Aparna Kopparapu, Scientist-C& PI]

**4. [APS04003SI] Studies on the Reproductive Potential of Tasar Silkworm, *Antheraea mylitta* D with Special Reference to Nutritional and Mechanical Indices** (March 2020-February 2023 Extended up to August 2022) [PI: Dr. K. Jena, Scientist- D, CTR&TI, Ranchi]

Committee suggested PI to see the impact of nutrients, and different oviposition devices in fecundity of tasar silkworm.

[Action: Dr. K. Jena, Scientist- D& PI]

**5. [AIE 04004 CN] Study on existence of tropical tasar silkworm ecoraces and their subsist places with the help of geospatial technology** (March 2020-February 2023 Extended up to February 2025) [PI: Dr. I. G. Prabhu, Scientist- C, CTR&TI, Ranchi]

The committee recommended utilizing a student internship offered by Prof. C. Jeganathan, Dean, Remote Sensing, BIT Mesra, to conduct a survey of *A. mylitta* eco races' cocoons and host plants' canopies using drones equipped with multispectral cameras. The budget for the student internships can be covered by the unfilled Project Assistant positions allocated to the RSRS unit in Warangal. The virtual meeting has to be arranged with the collaborator NESAC, Umiam, regarding the mutual discussion of ongoing research work.

[Action: Dr. I.G.Prabhu, Scientist- C & PI]

**6. [ARE 04006CN] Management of Important Pests of Tasar Silkworm *Antheraea mylitta* (D) Through Botanical Repellents** (April 2021- March 2024 Extended up to September, 2023) [PI: Dr. H. S. Gadad, Scientist- C, CTR&TI, Ranchi]

• PI of the project presented the progress and based on the discussion between project investigators and scientists from NBAIR, Bengaluru, held on 25.04.2023 at NBAIR, Bengaluru, PI requested to include the work on development of slow releasing formulations of effective botanicals in ongoing project. Committee suggested that based on the field studies of ongoing project, phase-II of the project may be proposed.

[Action: Dr. H.S. Gadad, Scientist- C& PI]

**7. [BPC 04008EF] Mass level extraction of sericin from tasar cocoon cooking waste water for its prospective utilization** (March 2021-Feb 2024)[PI: Dr. K. Jena, Scientist- D, CTR&TI, Ranchi]

Dr. K. Jena, Scientist – D presented the progress of the project and inform the house regarding not receiving II & III year fund from DBT and also requested for six month extension of the project period. Further to achieved the milestone Committee recommended to incurred the expenditure from GI of the Institute and adjust it after receiving fund from DBT.

[Action: Dr. K. Jena, Scientist- D & PI]

**8. [ARE04011MI] Species diversity, assessment of potential loss and management of predatory wasps in tasar ecosystem** (February 2022-January 2025)[PI: Dr. Hanamant Gadad, Scientist-C& PI]

- PI requested to include Dr. Vishal Mittal, Scientist-D as a CI in place of Dr. A.H. Naqvi as he is retired and Dr. Selvraj, Scientist-C In-charge of BSMTC, Kharswan in place of Dr. B. T Reddy, Scientist-C since he has been transferred. Committee considered the request.
- Dr. N.B. Chowdary opined that the wasp has become one of the major menace for tasar industry and advised to record morpho-metric data of male and female if possible.

[Action: Dr. Hanamant Gadad, Scientist-C& PI]

**9. [CYR 04013 MI] Studies on storage practices of tropical tasar cocoons for better cooking efficiency, reeling parameters and yarn quality** (February 2022- January 2024)[PI: Mr. Debasis Chattopadhyay, Scientist -D]

Mr.D. Chattopadhyay, Scientist – D presented the progress of the project and requested for six month extension of the project period due to transfer of PI to RSTRS, Malda. Committee suggested PMCE to considered Mr.Ashu Kumar, Scientist – B as PI and Mr.D. Chattopadhyay, Scientist – D, RSTRS, Malda as CI of the ongoing project.

[Action: Mr. Ashu Kumar, Scientist –B & PI]

**10. [ARP04016MI] Tasar Silkworm Disease Monitoring and Management** (March,2023-Feb,2028) [PI: Dr. J.P. Pandey Scientist-D]

Dr. J.P. Pandey Scientist-D presented the progress of project and committee appreciated the efforts made by project team and advised the investigator to compile the disease monitoring report of various tasar growing states and submit to institute.

[Action: Dr. J.P. Pandey Scientist-D, Scientist-C& PI]

**11.[AIB04017MI]Recurrent Selection and Multiplication of Thermo-Tolerant Line(s) of Tropical Tasar Silkworm**(March,2023-Feb,2026)[PI:Dr. I. G. Prabhu, Scientist-C]

The PI of the project presented the research progress and the committee noted it.

[Action: Dr. I. G. Prabhu, Scientist-C& PI]

**12. [AIB 04018 MI]: In situ Conservation of Modal Ecorace of Tasar Silkworm in Odisha**(March,2023-Dec,2027) [PI:Dr. I. G. Prabhu, Scientist-C]

The committee suggested the DOS, Odisha to ensured availability of Modal cocoons at a lower price than approved by SERIFED. The committee also suggested involving the NGOs, CRPs, and local community people in the conservation of Modal ecorace.

[Action: Dr. I. G. Prabhu, Scientist-C& PI]

**13.[AIB 04019 MI]: In situ Conservation of RailyEcorace of Tasar Silkworm in Chhattisgarh**(March,2023-Dec,2027) [PI: Dr. H. S .Gadad, Scientist-C]

Committee suggested to discuss with the DoS, Chhattisgarh and Chhattisgarh State Forest department regarding the feasibility of selected locations to take up the conservation activities. Based on that camp locations may be decided and subsequently MoU between CTRTI, Ranchi, DoS, Chhattisgarh and State Forest Dept. Chhattisgarh can be entered for effective implementation of the Project.

[Action: Dr. H. S. Gadad, Scientist-C& PI]

**14. [AIB 04020 MI]: In situ Conservation of Sarihan Ecorace of Tasar Silkworm in Jharkhand**(March,2023-Dec,2027) [PI: Dr. S. Giri, Scientist – D]

Committee suggested to discuss with the DoS, Jharkhand and Jharkhand State Forest department regarding the feasibility of selected locations to take up the conservation activities. MoU between CTRTI, Ranchi, DoS, Jharkhand and State Forest Dept. Jharkhand can be entered for effective implementation of the Project.

[Action: Dr. S. Giri, Scientist – D, RSRS, Dumka& PI]

**15. [MOE 0414 MI] Evaluation and popularization of improved technologies developed in the field of tasar sector for central and north India (On Station/Farm Trials of CTRTI)**(February 2022- January 2024)[PI: Dr. Jagadajyoti Binkadakatti, Scientist-C]

Regarding the technologies under validation, the committee suggested the following:

Evaluation of cocoonase variant: Repeat the trail at CTRTI & compare it with field location trails and Collect the feedback from the stakeholders

Evaluation of IPM for Gall fly: Committee suggested to conduct trail under On Farm Trial (OFT) during 2023-24 since results are encouraging.

Evaluation of chemical trap for control of Ichneumon wasp: Suggested to revisit the trial of the technology, since results are not encouraging.

Evaluation of Egg washing & dis-infection machine: Committee suggested to continue/repeat the trail during 2023-23 & advised to collect the feedback from the stakeholders for refinement of the technology.

Evaluation of new cooking package developed for 03 eco-races: Committee suggested for conducting 03 eco-race trails at CTRTI, Ranchi and advised to compare with field trials data.

[**Action:** Dr. Jagadajyoti Binkadakatti, Scientist-C& PI]

**16. APR04015CN: Documentation and Validation of Indigenous Technical Knowledge (ITKs) in Tropical tasar Zone**(December-2022 - November-2025) [PI: Dr. Jagadajyoti Binkadakatti, Scientist-C]

- Committee suggested to speed up the documentation of the ITKs
- Advised to validate the ITKs documented so far at CTRTI, Ranchi for its feasibility

[**Action:** Dr.Jagadajyoti Binkadakatti, Scientist-C& PI]

**17. [MOE 04007EF] Establishment of Biotech-KISAN Hub at Professional Assistance for Development Action (PRADAN), Deoghar, Jharkhand for three Aspirational Districts of Jharkhand (Godda, Dumka and Pakur)** (April,2021 – March 2023 extended upto September, 2023) [PI: Dr. J.P.Pandey, Scientist- D, CTR&TI, Ranchi]

Dr. J.P. Pandey Scientist-D presented the progress of project and committee took note the progress of project. As the second year grant of the project not yet received from DBT New Delhi. The PI requested for 1 year (till August

2024) extension of project period. Advised to send a request letter to DBT, New Delhi for consideration.

[Action: Dr. J. P. Pandey, Scientist- D &PI]

## **B. Collaborative projects:**

**18.[AIT 08006 EF] Development of lateral flow assay (LFA) kit for diagnosis of pebrine disease in silkworms**(March 2021- August 2022 extended up to December 2023) DBT funded project of SBRL in Collaboration with Bhat Biotech Pvt Ltd, Bangalore B Project period: A) [Co-PI:Dr. HanumantGadad, Scientist-C CTRTI, Ranchi]

Committee suggested to validate and demonstrate the developed kit in tasar sector in order to know its accuracy and feasibility.

Dr. N.B. Chowdary, Scientist –D, BTSSO, Bilaspur suggested PI to develop non-destructive method for identification of pebrine disease.

[Action: Dr. H. S. Gadad, Scientist- C&PI,]

**19. [MOE9001MI:Test verification of seed preservation technology developed for Tasar silkworm (*Antheraea mylitta*, D)** [PI: Dr. J. P. Pandey, Scientist- D, CTR&TI, Ranchi]

Dr. J.P. Pandey, Scientist-D presented the progress and committee advised the PI of project SSTL to organise online meeting with all Co-investigators and visit the trial places with the Co-investigators of CTRTI Ranchi and BTSSO Bilaspur during the rearing at various trial places.

[Action: Dr. J. P. Pandey, Scientist- D &PI]

## **Agenda No.7: R&D Highlights of the Institute from last RAC to till date**

R&D Highlights of the Institute from last RAC to till date was presented by Dr. K. Sathyanarayana, Director, CTR&TI, Ranchi before the RAC. The salient points of the research highlights of the Institute are as below:

- 1) During the period, 06 Research projects have been approved from CO, CSB viz., 01.APR04015CN, 02.ARP04016MI, 03. AIB04017MI, 04.AIB04018MI, 05. AIB04019MI, 06. AIB04020MI
- 2) 3 projects presented before TEC-DBT on 28.4.23 for DBT funding
- 3) Patent application submitted to NRDC, New Delhi
- 4) Process to mass produce *Cordyceps militaris* on Vanya silkworm refuses. (NRDC/IPR/PC/22075/2022)
- 5) Cocoonase enzyme variant based cocoon processing to get value added tasar silk ((NRDC/IPR/PC/22074/2022))
- 6) Method for obtaining purified Sericin protein from tasar cocoon cooking water (NRDC/IPR/PC/22076/2022)

- 7) Technologies commercialized (PVS with Biosafe Hygiene & LSM with NRDC)
- 8) Technologies under commercialization (Egg washing cum disinfection machine with NRDC)
- 9) Total 48 research papers were published in Special Issue of Plant Archives: An international Journal
- 10) Total 18 research article has been published in Special Issue of Journal of Environmental Biology
- 11) Signed MOU/ MOA with, Banaras Hindu University (BHU), Varanasi-Uttar Pradesh, Forest Research Centre for Eco-Rehabilitation (FR CER), Prayagraj- Uttar Pradesh, Tasar Vikas Trust, Singhum- Jharkhand, Institute of Forest Productivity (IFP), Ranchi – Jharkhand, Maharaja Sriram Chandra BhanjaDeo University, Mayurbhanj- Odisha, Lucknow University, Lucknow and CSIR - Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow for teaching research and extension
- 12) Organized RashtriyaRajbhashaTachniqee Seminar on SamgraReshamUtpadan: Chunauiyan and BhawiRadniti held on 28th January 2023. Total 128 participants have been participated in said events
- 13) Four State Level Workshops on “Tasar Technology Dissemination and Experience Sharing organized in RythuVedika, KishtampetChennurTelangana [19.01.2023], Bodalkasa MTDC conference hall Gondia Maharashtra [21.01.2023], KhatraSamity Hall Khatra, Bankura West Bengal [25.01.2023] and Paidigudem village, Allurisitharamaraju District Andhra Pradesh in co-ordination with the DOSs
- 14) Published book with ISBN viz., Souvenir cum Book of Abstracts, National Symposium on Vanya Sericulture: Opportunities Galore (ISBN: 978-81-958770-0-3), Plant Archives: An international Journal, Vol.22 Special Issue (VSOG), October 2022 ISSN (online: 5281-6063 and ISSN (Print): 0972-5210, **राष्ट्रीयराजभाषातकनीकीसेमिनार: समग्रेशमउत्पादन: चुनौतियाँएवंभावीरणनीति** (ISBN : 978-81-958770-1-0), Accredited Community Resource Persons (CRPs) in Tropical Tasar Culture (ISBN : 978-81-958770-7-2), Prospectus - Post Graduate Diploma in Sericulture (Vanya Silk) (ISBN: 978-81-958770-6-5), **समग्रेशमउत्पादन : चुनौतियाँएवंभावीरणनीतिकेकार्यवाहीकीसमन्वितअनुशंसा** (आईएसबीएन : 978-81-958770-8-9) and Proceedings of the National Symposium on ‘Vanya Sericulture: Opportunities Galore’ (ISBN: 978-81-958770-2-7)
- 15) Under Capacity Building and Training (CBT-2109) 572 farmers sponsored by Dept. of Sericulture from different states were imparted training for up-gradation of their skill 23 on field training programmes organized by the extension units of the Institute

- 16) Two five-days residential "Technology Orientation Training Programme" were organized at the institute. In first batch training was organized for 25 officers/officials of Directorate of Horticulture, Government of Punjab and in second batch training was organized for 25 officers/officials from seven states viz. Jharkhand, Odisha, Chhattisgarh, Maharashtra, Uttar Pradesh, Madhya Pradesh and West Bengal
- 17) An exposure visit of 158 lead / progressive farmers of Jharkhand, Odisha, Chhattisgarh, Telangana, Maharashtra for technology awareness for Tasar farmers was organized at CTRTI, Ranchi. Farmers were exposed to tasar farm and mechanization through various demonstrations of farm machineries, besides visit to different sections of the institute, Scientists from different sections provided detailed information about latest tasar technologies to the tasar farmers. Besides, one batch of 20 lead/ progressive farmers was taken on exposure visit by RSRS, Bhimtal to Dehradun and nearby Oak tasar farms
- 18) Under Seri Resource Centre one programme each at TRCS Bhagamunda, Keonjhar, Odisha and Tasar Development Foundation, PRADAN, Deoghar, Jharkhand was conducted. These two SRCs have conducted training to 300 beneficiaries. Apart from this, a new "Sericulture Resource Centre" was established at Kuchai, District-Seraikela-Kharsawan, by "Singhbhum Sarjomba Tasar Vikas Trust" Village- Kundiyamarcha, Post- Gopidih, Block- Kuchai, District-Seraikela-Kharsawan-Jharkhand, in which total 50 beneficiaries were provided training.

### **Agenda No.8: Trial of Technologies (OSTs/OFTs)**

Total 9 technologies (7 OSTs and 2 OFTs) were discussed during the RAC meeting. The committee took note of the progress. The list of OSTs and OFTs are given below.

#### **On Station Trials**

- i) Evaluation of cocoonase variant for cocoon softening/ degumming and silk surface modification.
- ii) Evaluation of PSB for qualitative and quantitative improvement t in tasar food plant leaf.
- iii) Validation of chemical trap for Ichneumon wasp.
- iv) Evaluation of IPM for control of gall fly.
- v) Evaluation of IPM for control of Stem borer in tasar food plants.
- vi) Establishment and popularization of New Improved accession nos. 102 and 123 of *Terminalia arjuna* and *Lagerstroemia speciosa*.

- vii) Evaluation of egg washing cum disinfection machine to produce quality tasar silkworm dfl"s.

### **On Farm Trials**

- i) Validation and popularization of cooking package developed for three eco- races.
- ii) Management of abiotic factors using light reflector paints to reduce erratic and delayed emergence.

### **Agenda No.9: Extension Communication Programmes (ECP) and other programmes**

Progress of the Extension Communication Programmes (ECP) conducted by the nested units was presented to the Committee. The committee took note of the progress.

### **Agenda No.10: Training Capacity Building (CBT) and other programmes**

Progress of the CBT conducted at the Institute and nested units was presented to the committee. The committee took note of the progress.

### **Agenda No.11: Any other points for discussion**

### **Agenda No.12: Concluding remarks from RAC members**

Dr. A. Venugopal, Director, BTSSO, Bilaspur thanked to the Chairman, Director, CTR&TI, Ranchi and the members of RAC. He expressed to feel privileged to be the member of RAC of CTR&TI and be a part of R&D progress of CTR&TI hard work and dedication. He appreciated Director, CTR&TI, Ranchi for his dedicated hard work for development of the Institute and the tasar sector. CTR&TI, Ranchi has given the BTSSO scientists an opportunity to be the Co- PIs & CIs in ongoing projects.

Dr. S. Periyasamy, Director, CSTRTI, Bengaluru, expressed is happiness for being the part of the meeting and congratulated the Director and the entire team for the progress and good presentation. He also assured that CSTRI, Bengaluru will always help the project in post cocoon technology sector implemented by CTRTI, Ranchi.

Dr. P.K. Mishra congratulated the Director for covering all the aspects in research projects with limited no. of scientists. He appreciated the Director, CTRTI, Ranchi for his contribution and guidance in which was evident during the discussion in conservation workshop and RAC. His contribution in the technologies for the field and involving the women through the MKSP. Truly deserve the title of "**Tasar Man of India**".

Dr. A.K. Yadav, DOS, Uttarakhand congratulated the Director, CTRTI, Ranchi for his contribution in tropical and Oak tasar. Under the leadership

of the Director for the research work done by this institute for the farmers and especially for the oak tasar. He requested for conducting base line survey of ecorace in Uttarakhand and some project on conservation / exploration to be initiated.

Mr. Rajesh Baghel, Additional Director Sericulture, Chhattisgarh, congratulated the Director, CTRTI, Ranchi and he recalled his association with this Institute for last 20 years during meeting (RAC, JCC) and other programmes. I have seen a transformation of this institute in last 20 years and especially last 2 years under the leadership of Dr. K. Sathyanarayana. The improvement in infrastructure and work culture of this institute.

Dr. N.B.Chowdary, Scientist-D, BTSSO, Bilaspur, congratulated the Director, CTRTI, Ranchi and appreciated for making the scientist of tasar sector recognized. He thanked RAC Chairman for confirming the title of **“Tasar Man of India”** to the Director CTRTI

Dr. Prashanth Sangannavar, Scientist – C, RCS, Bengaluru express regret on behalf of RCS that due to RCC meeting they could not attend the Foundation Day and RAC meeting. He congratulated the Director for being named as the **“Tasar Man of India”** and thanked the RAC Chairman for his continuous guidance and support and expressed future collaborations.

Dr. Onkar Nath Singh, Chairman RAC appreciated the Director for providing a congenial environment to the scientists and doing a lot of good work with only few scientists. He appreciated work and kind of patience of this institute. The work being done is highly appreciable and quite unique. Appreciated the Director for the surge in R&D work, publications as well as the developmental work done at the institute. He named the Director as the **“Tasar Man of India”**. As he could not attend the RCC due to his Board meeting he requested the other Directors present in the RAC to communicate this to RCC. He requested the scientist to carry forward the works of Dr. K.Sathyanarayana, Director CTRTI, Ranchi.

Dr. K. Sathyanarayana, Director, CTRTI, Ranchi acknowledged the contribution and guidance of the RAC chairman and his sincere involvement and efficient handling of the RAC meeting. He thanked the Member Secretary, RCS team, members, and representatives from the producer community for their contribution. He gave special thanks to Dr. S. Ayyappan, Chairman, RCC for his role in finalization of National Silk Policy. He thanked his team of scientists for their hard work and making the institute as the administrative staff, technical staff, project fellows for their contribution in the holistic development of Institute. He also acknowledged the contribution of BSM&TC scientists. He appreciated the team working at the nested units for working under so many constraints.

The meeting ended with a vote of thanks to the chair.



(Dr. Onkar Nath Singh)  
Chairman, RAC

## Annexure-1

### **LIST OF PARTICIPANTS IN THE 52<sup>ND</sup> MEETING OF RAC OF CTR&TI RANCHI HELD ON 20<sup>TH</sup>-21<sup>ST</sup> June 2022**

#### **CHAIRMAN:**

1. Dr. OnkarNath Singh, Vice Chancellor, Birsa Agricultural University, Ranchi.

#### **MEMBERS**

2. Dr. A. Venugopal, Director, BTSSO, Bilaspur
3. Dr. S. Periyasamy, Director, CSTRTI, Bengaluru
4. Dr. A.K. Yadav, Dos, Uttarakhand,
5. Dr. Rajesh Baghel, Additional Director (Sericulture), Chhattisgarh
6. Dr. P. K. Mishra, member & Director (Rtd.), CSB.
7. Dr. Nibha Bara, Associate Professor, BAU, ranchi
8. Dr. Yogeshwar Mishra, Director, IFP, Ranchi
9. Mr. Chandra Shekhar Devangan, Chanpa, Chhatisgarh
10. Dr. Prashanth Sangannavar, Scientist-C, RCS, CSB Bengaluru (online)
11. Dr. Sudhanshu Bala Naik, ADS, Directorate of Sericulture, Odisha
12. Mr. Ranveer Singh, ADS, Directorate of Sericulture, Uttar Pradesh
13. Dr. K. Sathyanarayana, Director, CTRT&TI, Ranchi- Member Convener

#### **Scientists from BTSSO, Bilaspur**

14. Dr. N. B. Chowdary, Scientist - D

#### **SCIENTISTS – CTR&TI, Ranchi& Nested Units**

15. Mr. A. S. Verma, Scientist – D, RSRS, Bhimtal
16. Mr. Sunil Kumar Mishra, Scientist – D, RSRS, Jagdalpur
17. Dr. S. Giri, Scientist – D, RSRS, Dumka
18. Dr. Dinesh Kumar, Scientist – D, REC, Champa
19. Ms. Susmita Das, Scientist-D

20. Dr. J.P. Pandey, Scientist-D
21. Dr. K. Jena, Scientist-D
22. Dr. Vishal Mittal, Scientist-D
23. Mr. Debasish Chattopadhyay, Scientist-D, RSTRS, Malda
24. Dr. HarendraYadav, Scientist-C
25. Dr. Jitendra Singh, Scientist-C
26. Dr. D.I.G. Prabhu, Scientist-C
27. Dr. J. Binkadakatti, Scientist-C
28. Dr. HanmantGadad, Scientist-C
29. Dr. Aparna, K, Scientist-C
30. Mr. Ashu Kumar, Scientist - B