



MINUTES OF 77th MEETING OF THE RESEARCH COUNCIL (RC) OF CSB-CTRTI, RANCHI HELD ON 16th MARCH, 2026

The 77th meeting of the Research Council (RC) of CSB-Central Tasar Research and Training Institute was convened on 16th March 2026 at the Institute, under the chairmanship of Dr. S. Balasaraswathi, Director, CSB-CTRTI, Ranchi. The meeting aimed to evaluate new project proposals and review ongoing and completed projects, along with Technology Transfer (TOT), Capacity Building Training (CBT), and Extension Communication Programme (ECP) activities.

At the outset, Dr. Deepika Kumar Umesh, Scientist-C & In-charge, PMCE Division, warmly welcomed Dr. S. Balasaraswathi, Chairman, Research Council and the scientists from the Institute and its Nested Units. The list of participants is enclosed in *Annexure-I*.

In his inaugural address, Dr. S. Balasaraswathi advised all the scientists to focus R&D on generating tangible impacts in the field to promote tasar culture and to improve the quality productivity. Following his remarks, the proceedings continued as per the agenda, facilitated by Dr. Deepika Kumar Umesh, Scientist-C & In-charge, PMCE Division.

Agenda No.1: Confirmation of the previous RC Meeting Minutes

The Minutes of 76th R.C. (07-01-2026) meeting was circulated to the Scientists of the Institute and its Nested Units vide Email dated 30.01.2026. Since no comments/suggestions have been received so far, the Minutes may be confirmed.

Agenda No. 2: Review of Action Taken of the recommendation / decisions of the previous RC meeting

The follow-up action taken on the decisions/recommendations of the previous meetings were presented by Dr. Deepika Kumar Umesh, Scientist-C & In-charge PMCE Division. While approving the action taken report, the Chairman instructed the scientists to submit the pending reports of concluded pilot studies to PMCE at the earliest.

Agenda No. 3: New concept notes for approval: 17 Nos.

1. Exploring *Conocarpus erectus* L. as a Potential Alternative Host for *Antheraea mylitta* Drury (Duration: 6 months & Budget: 0.99 lakhs) [PI: Mr. Shudeer, Scientist-B, CSB-RSRS, Bhandara]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- The PI should include grainage parameters in the study.
- Days to sprout should be calculated for the alternate host plant.
- No. of dfles for rearing should be increased to reduce errors in the experiment.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Mr. Shudeer, Scientist-B]

2. e-Tasar: Development and Evaluation of Multi-Format Video Modules and AI-Assisted Awareness Content for Effective Dissemination of Tasar Technologies (Duration: 3 years & Budget: 45 lakhs) [PI: Dr. Aravindh Kumar S, Scientist-B, CSB-RSRS, Jagdalpur]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Oak tasar technologies should also be included.
- b) The videos should have both real and AI generated images (Hybrid).
- c) AI generated videos should align with scientific and technical proportions and standards.
- d) Budget of the project should be reduced appropriately.
- e) No. of CIs should be reduced and one more PA can be added.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. Aravindh Kumar S, Scientist-B]

3. Evaluation of Medicinal and Aromatic Plants (MAPs) based Agroforestry Systems for Livelihood Diversification in Tasar Ecosystem (3 years & Budget: 55.0 lakhs) [PI: Dr. Kamlesh Verma, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Methodology can be revised after discussion with sectional and divisional in-charges. It is advised to decrease no. of treatments and increase no. of replications for more precision in the work.
- b) Collaboration with institutes working on medicinal and aromatic plants should be done for better output from the project.
- c) Selection of medicinal and aromatic plants should be done with utmost care considering the economics.
- d) 1-2 skilled workers can be added for proper maintenance of the garden.
- e) Budget of the project should be reduced appropriately.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. Kamlesh Verma, Scientist B]

4. Harnessing molecular markers to develop core collections among *T. arjuna* accession (3 years & Budget: 47.40 lakhs) [PI: Dr. Siddu Basavaraj Chindi, Scientist-B]

The Principal Investigator (PI) presented the project proposal before the Research Council (RC). PI was advised reframe the objectives and write the methodology in detail after discussion with seniors. The concept was approved and PI was advised to submit the proposal to RCS section, CO, Bengaluru.

[Action: PI: Dr. Siddu Basavaraj Chindi, Scientist-B]

5. Quantitative evaluation of effect of continuous rearing and nutritional stress on leaf metabolites and microbiome of *Terminalia arjuna* and tasar cocoon production thereby (Duration: 4 years & Budget: 65 lakhs) [PI: Dr. Aparna K, Scientist-C]

The Principal Investigator (PI) presented the project proposal before the Research Council (RC). The concept was approved and PI was suggested to reduce the budget appropriately and submit the proposal to RCS section, CO, Bengaluru.

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

6. Standardization of UAV-assisted application of different formulations for management of Tasar Host Plants (2 years & Budget: 33.9 lakhs) [PI: Dr. Jeevan N, Scientist-B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Methodology can be revised after discussion with seniors.
- b) The parameters to be observed should be described in detail.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. Jeevan N, Scientist-B]

7. Development of a High-Yielding Fine-Denier Tasar Line via Molecular Marker-Assisted Breeding (5 years & Budget: 76.54 lakhs) [PI: Dr. Sanjay Singh, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) The objectives and expected outcome should be clearly projected. The reason for inception of this project is not clear so thorough review of literature and supportive data should be included in the project.
- b) Methodology can be revised after thorough discussion with senior breeders from the institute and also be consulted with senior breeders from CSB-CSRTI, Mysore.
- c) The project budget should be appropriately reduced.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. Sanjay Singh, Scientist B]

8. Deciphering the Molecular Mechanism of AmCPV Infection in Tasar Silkworm through Receptor–Ligand Interaction Analysis (3 years & Budget: 62.16 lakhs) [PI: Dr. Sanjay Singh, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Previous literature should be thoroughly read and included in the proposal.
- b) Objectives and Methodology can be revisited after thorough discussion with senior breeders.

The PI was further advised to incorporate the suggestions in the proposal and submit for external funding (DBT/DST/ANRF etc.) after approval from RCS section, CO, Bengaluru.

[Action: PI: Dr. Dr. Sanjay Singh, Scientist B]

9. Development of a low-cost artificial diet for Vanya silkworms (3 years & Budget: 112.565 lakhs) [PI: Dr. MM Baig, Scientist D]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) The project can be taken only for tasar silkworm and hence the title may be revised accordingly.
- b) Diet shall be prepared for Oak tasar silkworm also and Dr. Divya Singh, Scientist-C, RSRS, Bhimtal should be included as a CI
- c) Molecular studies under the project should be done in B & G lab at our institute and Dr. I. G. Prabhu, Sc-D (Biotechnology) should be included as a CI. No collaboration is required with ISBR, Kodathi.
- d) Dr. Sonali Namdeo, Sc-B (Animal Nutrition) should be included in the project as her expertise will further strengthen the project.
- e) PI was advised to find out why the diet developed by Dr. Kanika could not be commercialized, and therefore advised meticulous planning.
- f) Earlier diet was good, however adoption at the farmers' level remains a challenge.
- g) Palatability and suitability of the diet were identified as major concerns and importance should be given to such parameters.
- h) It was suggested to prepare the diet in powder form to address the issue of short shelf-life.
- i) Refinement and improvement of the previously developed diet was recommended.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. MM Baig, Scientist D]

10. Development of Thermo-Regulating Tasar Silk Smart Textile Using Microencapsulated Phase Change Materials (PCM), Duration: 3 years & Budget: 41.60 lakhs [PI: Mr. Ashu Kumar, Scientist B]

PI presented the project proposal before RC. The committee approved the project and PI was advised to submit the proposal to RCS section, CO, Bengaluru.

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

11. Development of an Integrated Cocoon Cooking Device for Efficient Processing of Tropical Tasar Cocoons (2 years & Budget: 12.80 lakhs) [PI: Mr. Ashu Kumar, Scientist B]

PI presented the project proposal before RC. The committee approved the project and PI was advised to submit the proposal to RCS section, CO, Bengaluru.

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

12. Bio-engineering silk fibroin-based probiotic delivery systems for improved gastrointestinal stability and functional nutraceutical applications (3 years & Budget: 44.42 lakhs) [PI: Dr. Sonali Namdeo, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Methodology can be revised after thorough discussion with seniors.
- b) Dr. Aparna K. (Microbiology) should be included as CI.
- c) The project budget should be appropriately reduced.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: PI: Dr. Sonali Namdeo, Scientist B]

13. GLP-Compliant toxicological evaluation of tasar sericin for biomedical and nutraceutical applications (3 years & Budget: 80.00 lakhs) [PI: Dr. K. Jena, Scientist D]

PI presented the project proposal before RC. The committee approved the project and PI was advised to submit the proposal to RCS section, CO, Bengaluru.

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

14. Livelihood Vulnerability and Transition Potential towards Tasar Sericulture in Mining- and Migration-Affected Regions of Jharkhand (3 years & Budget: 40.00 lakhs) [PI: Ms. K. Manasa, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Methodology can be revised after thorough discussion with seniors.
- b) The objectives should be clearly defined.
- c) Expected outcome should be written more clearly.
- d) More thorough review of literature is required. Preliminary survey/visit/data collection is also required to substantiate the project.
- e) The project budget should be appropriately reduced.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Ms. K. Manasa, Scientist B]

15. Women's Empowerment Through Tasar Sericulture and Its Impact on Household Food Security in Jharkhand (3 years & Budget: 30.00 lakhs) [PI: Dr. Aniketa Horo, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) It was suggested to reduce the sample size to increase precision.
- b) Samples should represent all areas.
- c) The title should be short.
- d) Coordination with DoS officials (district-wise) and PRADAN was advised.
- e) Two additional districts, not covered under MKSP, should be included.

- f) The Director observed that the study will help generate important information regarding the impact of sericulture on women empowerment.
- g) Dr. Mittal shall be included as C.I. in the project.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. Aniketa Horo, Scientist B]

16. Strengthening Forward Linkages in the Tasar Sericulture Value Chain (2 years & Budget: 32.19 lakhs) [PI: Dr. Aniketa Horo, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) It was suggested that an app or website may be developed as an informative platform, and connected with the Silk Portal.
- b) The title shall be revised.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Dr. Aniketa Horo, Scientist B]

17. AI-Driven Analytical Framework for Assessing the Demand–Supply Dynamics of the Tasar Silk Sector (3 years & Budget: 26.47 lakhs) [PI: Mr. Ankit Kumar Singh, Scientist B]

PI presented the project proposal before RC. The committee approved the project proposal and gave following suggestions:

- a) Methodology can be revised after thorough discussion with seniors.

The PI was further advised to incorporate the suggestions in the proposal and submit to RCS section, CO, Bengaluru.

[Action: PI: Mr. Ankit Kumar Singh, Scientist B]

18. Standardization of indoor rearing technology for Oak tasar silkworm (5 year & Budget: 48.00 lakhs) [PI: Dr. Divya Singh, Scientist C]

PI presented the project proposal before RC. The committee approved the project instructed the PI to submit the same to RCS section, CO, Bengaluru.

[Action: PI: Dr. Divya Singh, Scientist C]

19. Design and development of a cocoon cutter for easy harvesting of Tasar cocoons from Host Plants (1 year & Budget: 1.00 lakhs) [PI: Dr. K. Jena, Scientist D]

PI presented the project proposal before RC. The committee approved the concept and suggested to reframe the title and submit to RCS section, CO, Bengaluru.

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

20. Isolation and characterization of arjunolic acid from *T. arjuna* (1 year & Budget: 1.00 lakhs) [PI: Mr. Haragopal Dutta, Scientist B]

PI presented the project proposal before RC. The committee approved the proposal and suggested to add Dr. Siddu B. Chindi, Scientist-B as a CI and submit the to RCS section, CO, Bengaluru.

[Action: PI: Mr. Haragopal Dutta, Scientist B]

Agenda No. 4: Review on concluded projects Concluded Project (4 Nos.)

1. ARP04012SI: Developing ectomycorrhizal bio-inoculants for improving survival and leaf yield of *Terminalia arjuna* and *Terminalia tomentosa* [PI: Dr. Aparna K., Scientist-C]

PI presented the outcome of the concluded project where effective ECM fungal biofertilizer developed for application to nursery saplings. The Director congratulated the scientist, noting that a large amount of data has been generated. The committee gave following suggestions:

- a) It was suggested to publish the data in high NAAS-rated journals.
- b) The Director recommended commercialization of the product and patenting of the process.

Committee suggested the PI follow the suggestions and submit the concluded report to RCS Section, CO, Bengaluru at the earliest.

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

2. AIB 04017 MI: Selection of Stable Thermo-tolerant line(s) of Tropical Tasar Silkworm *Antheraea mylitta* – Phase II [PI: Dr. I.G. Prabhu, Scientist-D]

PI presented the outcome of the concluded project where thermo-tolerant Daba BV line has been selected up to 14th generation (G14). The combined results from long-term selection, multi-location rearing trials, and molecular validation confirm that thermotolerance in *Antheraea mylitta* is a polygenic trait governed by coordinated chaperone-mediated and antioxidant defense mechanisms. The committee gave following suggestions:

- a) The Director suggested to maintain different lines of tasar silkworms by the B&G Section.
- b) It was advised to focus on OST from this year only.
- c) The Director emphasized that the P.I. should not keep the information and material (thermotolerant line cocoons) to himself and it should be appropriately shared with the CIs of the project, so that the valuable research material can be preserved.

Committee suggested the PI to incorporate all suggestions and submit the concluded report to RCS Section, CO, Bengaluru at the earliest.

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

3. CEM 04021 MNC: Evaluation of Technologies and Machines Developed in Tasar Post cocoon Technology [PI: Mr. Ashu Kumar, Scientist-B]

PI presented the outcome of the concluded project where information about present technologies and machineries existing in the tasar sector Odisha, Bihar and Chhattisgarh states were generated.

The committee gave following suggestions:

- a) The results should be written objective wise.
- b) The future prospects should be clearly indicated.

Committee suggested the PI to incorporate all suggestions and submit the concluded report to RCS Section, CO, Bengaluru at the earliest.

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

4. BPS04026SNC: Nutraceutical solutions for sustainable aquaculture: Extraction and utilization of tasar pupae oil and meal in feed formulation. [PI: Dr. K. Jena, Scientist-D]

PI presented the outcome of the concluded project where extraction and characterization of Tasar & Mulberry pupae oil was done and PI asked for extension of the project for six months for further characterization and analysis with re-appropriation of the existing budget which was recommended by the house for consideration of RAC.

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

Agenda No. 5: Progress of Ongoing projects (17 Nos.)

1. [PIB 04009 SI] Evaluation of identified hybrids of *Terminalia arjuna* x *T. tomentosa* and drought tolerant *T. arjuna* for their suitability in different tropical tasar silkworm rearing regions. (October 2021 - September 2026)

Dr. Aparna Kopparapu, Scientist-C, presented the progress and committee took note of the progress.

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

2. [PPS04031SIC] Exploration of C sequestration potential of *Terminalia* sp. and ways to increase the soil organic C stock (March, 2025 – Feb., 2028)

Dr. Aparna Kopparapu, Scientist-C, presented the progress and committee took note of the progress.

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

3. [SIP 04022 SIC] Impact of weather change on tasar food plants and silkworm (March, 2024 February, 2027).

Dr. Deepika Kumar Umesh, Scientist-C presented the progress and committee suggested to expedite the installation of the equipment under the project.

[Action: Dr. Deepika Kumar Umesh, Scientist-C& PI]

4. [PPA 04023 SIC] Identification of suitable package of practices for establishment of *Lagerstroemia speciosa* (Jarul) for quality leaf production (March, 2024 – February, 2029).

PI presented the progress and committee took note of the progress.

[Action: Smt. Susmita Das, Scientist-D]

5. [PPA 04024SIC] Effect of different plant spacing and pruning heights on chawki leaf productivity of tasar host plants (*Terminalia arjuna*, *T. Tomentosa* and *Lagerstroemi speciosa*) and chawki silkworm rearing. (March 2024 – February, 2027)

Dr. Harendra Yadav, Scientist-C presented the progress and committee took note the progress.

[Action: Dr. Harendra Yadav, Scientist-C]

6. **[PPA04031SIC]** Development of High-Density Plantation of Tasar Host Plants and Exploration of Indoor Rearing for Tasar Silkworm Domestication (Oct., 2025 – Sep., 2030)

PI presented the progress and committee took note of the progress.

[Action: Dr. Divya Rajawat, Scientist-B & PI]

7. **[ARP04016M1]** Tasar Silkworm Disease Monitoring and Management in North and Central states of India (March, 2023-Feb, 2028)

Dr. Nidhi Sukhija, Scientist-B presented the progress and committee took note of the progress.

[Action: PI: Dr. Nidhi Sukhija, Scientist-B & PI]

8. **[AIB 04018 MI]:** In situ Conservation of Modal Ecorace of Tasar Silkworm in Odisha (March, 2023-Dec, 2027)

PI presented the progress of project and committee observed that the progress is as per the milestone.

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

9. **[AIB 04019 MI]:** In situ Conservation of Raily Ecorace of Tasar Silkworm in Chhattisgarh (March, 2023-Dec, 2027)

PI presented the progress of project and committee observed that the progress is as per the milestone.

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

10. **[AIB 04020 MI]:** In situ Conservation of Sarihan Ecorace of Tasar Silkworm in Jharkhand (March, 2023-Dec, 2027)

PI presented the progress of project and committee suggested PI to ensure project running as per milestone.

[Action: Dr. S. Giri, Scientist-D & PI]

11. **[BPC 04025 SNC]** Management of type II diabetic (T2D) condition through tasar sericin (March 2024 – September, 2026).

Dr. K. Jena, Scientist-D & PI of the project presented the progress and committee took note of the progress.

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

12. **[AIT04026SIE]** Development of KASP Based SNP Barcoding System for the Molecular Identification of Tropical Tasar Silkworm Ecoraces

PI presented the progress of the project and the Committee noted the progress.

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

13. **[AIT04028SNE]** Inflatable mucoadhesive vaginal tablet coin (VTC) for instant spermicidal action as local vaginal contraceptive and microbicide

Dr. K. Jena, Scientist-D & PI of the project presented the progress and committee took note of the progress.

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

14. [PIG04033MIC]: Development of Standard Operating Procedure (SOP) for tasar host plant gene bank and maintenance of the gene bank using cultural package of practices

The Principal Investigator (PI) presented the progress of the project, which was duly noted by the committee.

[Action: Mr. Haragopal Dutta, Scientist-B & PI]

15. [PRP04032SIC]: Identification of pathogens associated with Tasar host plant diseases and their integrated management

CI of the project presented the progress and committee took note of the progress.

[Action: Dr. Shreenath Y S, Scientist-B& PI]

16. [SRP04030SIC]: Evaluation of the efficacy of identified formulations for the management of Cytoplasmic Polyhedrosis Virus in *Antheraea mylitta*

CI of the project presented the progress and committee took note of the progress.

[Action: Dr. Shreenath Y S, Scientist-B& PI]

17. [MTS04029MIC]: Study on lab to land gaps in adoption & effectiveness of tasar technologies: Constraints and recommendations in major tasar growing areas

Dr. Vishal Mittal, Scientist-D & PI of the project presented the progress and committee took note of the progress.

[Action: Dr. Vishal Mittal, Scientist-D & PI]

AGENDA NO. 6: TRIAL OF TECHNOLOGIES (OSTs/ OFTs)

Dr. Shantakar Giri, Scientist-D and In-charge, SEEM Division presented the progress of TOTs. Committee took note of the progress. The progress was found to be satisfactory.

[Action: Dr. Shantakar Giri, Scientist-D]

AGENDA NO. 7: EXTENSION (ECP) AND OTHER PROGRAMMES

Dr. Shantakar Giri, SEEM Division presented the progress of ECPs. The council took note of the progress.

[Action: Dr. Shantakar Giri, Scientist-D]

AGENDA NO. 8: TRAINING (CBT) AND OTHER PROGRAMMES

Dr. Vishal Mittal, Scientist-D and Head Training Division presented the progress of CBT. The committee took note of the progress. The progress was found to be satisfactory.

[Action: Dr. Vishal Mittal, Scientist-D]

AGENDA NO. 9: DISCUSSION ON GENERAL COMMENTS / SUGGESTIONS OF RC/RAC

The Chairman advised all scientists to improve the quality of the slides for presentation in the up-coming RAC. The slides should be clear and results needs to be written under each objective properly to avoid any confusion. The font and color should be kept in set standards for better visibility.

AGENDA NO. 10: ANY OTHER POINT WITH PERMISSION OF THE CHAIR

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

Date: 20:04:2026


20/04/2026
Dr. S. Balasaraswathi
Director

Annexure-1

LIST OF PARTICIPANTS ATTENDED 77th MEETING OF THE RESEARCH COUNCIL (RC) OF CTR&TI RANCHI HELD ON 16th MARCH, 2026

1. Dr. S. Balasaraswathi, Director, CSB-CTR TI, Ranchi (Chairman)
2. Dr. Shantakar Giri, Scientist-D, CSB-CTR TI, Ranchi
3. S. Das, Scientist-D, Dr. S. Giri, Scientist-D
4. Dr. K. Jena, Scientist-D, CSB-CTR TI, Ranchi
5. Dr. Vishal Mittal, Scientist-D, CSB-CTR TI, Ranchi
6. Dr. I. G. Prabhu, Scientist-D, CSB-CTR TI, Ranchi
7. Dr. MM Baig, Scientist-D, CSB-CTR TI, Ranchi
8. Dr. Harendra Yadav, Scientist-D, CSB-CTR TI, Ranchi
9. Dr. H. S. Gadad, Scientist-C, CSB-CTR TI, Ranchi
10. Dr. Aparna K., Scientist-C, CSB-CTR TI, Ranchi
11. Dr. Deepika K.U., Scientist-C, CSB-CTR TI, Ranchi
12. Dr. Divya Singh, Scientist-C, CSB-RSRS, Bhimtal (online)
13. Mr. Ashu Kumar, Scientist-B, CSB-CTR TI, Ranchi
14. Ms. Divya Rajawat, Scientist-B, CSB-CTR TI, Ranchi
15. Mr. Haragopal Dutta, Scientist-B, CSB-CTR TI, Ranchi
16. Dr. Nidhi Sukhija, Scientist-B, CSB-CTR TI, Ranchi
17. Mr. Ankit Kumar Singh, Scientist-B, CSB-CTR TI, Ranchi
18. Dr. Sanjay Singh, Scientist-B, CSB-CTR TI, Ranchi
19. Dr. Jeevan N., Scientist-B, CSB-CTR TI, Ranchi
20. Dr. Kamlesh Verma, Scientist-B, CSB-CTR TI, Ranchi
21. Dr. Siddu Chindi, Scientist-B, CSB-CTR TI, Ranchi
22. Dr. Sonali Namdeo, Scientist-B, CSB-CTR TI, Ranchi
23. Dr. Aniketa Horo, Scientist-B, CSB-CTR TI, Ranchi
24. Ms. Keesam Manasa, Scientist-B, CSB-CTR TI, Ranchi
25. Dr. Aravindh Kumar S., Scientist-B, CSB-RSRS, Jagadapur (online)
26. Mr. Shudeer, Scientist-B, CSB-RSRS, Bhandara (online)