



**CENTRAL SILK BOARD
BENGALURU-560068**

The Annual Action Plan meeting of CSB R&D institutes and the seed organizations for the year 2023-24 was held on 16th and 17th Feb 2023 under the Chairmanship of Shri Rajit Ranjan Okhandiar, IFS, Member Secretary, Central Silk Board, Bengaluru. At the outset, Dr B. T. Sreenivasa, Director (Tech.), CSB, Bengaluru welcomed Shri Rajit Ranjan Okhandiar, Member Secretary, CSB, Bengaluru, Dr. C. Meenakshi, Director (Finance), CSB, Bengaluru, all the Directors/ In-charge Officers of CSB R&D Institutes and Seed Organizations and the Officers from Board Secretariat to the Annual Action Plan meeting. The list of participants is appended at *Annexure-I*.

Shri Rajit Ranjan Okhandiar, IFS, Member Secretary in his opening remarks greeted the participants and requested to present the progress for the year 2022-23 and proposed targets for the year 2023-24 by each institute briefly.

Dr. B. T. Sreenivasa, Director (Tech.) & the Member Convener then took over the meeting and presented the highlights of R&D activities of all the CSB Institutes for the year 2022-23. He informed that the raw silk production during 2021-22 (34,903 MT) has registered 6% increase over 2017-18 (31,906 MT). Presently, 114 R&D projects are ongoing across the CSB institutes and 5 patents were granted during the year 2022-23 besides commercialization of 5 technologies.

Dr. S. Manthira Moorthy, Scientist-D, RCS, CO, CSB, Bengaluru presented the Action Taken Report/ Follow Up action to the decisions taken to the previous Annual Action Plan meeting held on 20th & 21st March, 2022 at Bengaluru. After detailed deliberations, the following suggestions/ recommendations were made.

1. Evaluate available pebrine detection and isolation techniques like M-LAMP, LFA with PVS as a package across the silk sectors for its effectiveness and techno-economic feasibility for utilization and commercialization.

Action: CSRT-Mysore/SBRL-Bengaluru & CTRTI-Ranchi

2. To publish the Agri-Seri-Forestry model (SMAF) in Tree mulberry and Vanya host plants for the use of the stakeholders as a ready reckoner.

Action: RCS-Bengaluru

3. Purchase procedures for the approved equipments' etc under the ongoing research projects to be initiated from April itself, subject to availability of budget estimates (BE) at institute level. Quarterly review meeting may be organized at CO Level.

Action: All Institutes/ RCS - Accounts - Store-Bengaluru

4. Midterm review of the R&D Institutes and the Seed Organizations could be conducted during Sept/Oct., 2023 to ascertain the progress in accordance with the approved Action Plan for the year 2023-24.

Action: RCS-Bengaluru

5. Poor / under utilization (<50%) of the allocated R&D fund may lead to reduced fund releases from the MoT and hence all CSB units may utilize the allocated / approved R&D budget appropriately & judiciously.

Action: All Institutes/RCS, Accounts, Store-Bengaluru

6. **Whatsapp** groups to be active & put into use effectively at institute level besides including concerned Scientist in the group from RCS for quick communication/updates.

Action: All Institutes

7. Integrated Farming System (IFS) model to be popularized in the field. A detailed report about work done earlier at Institute & field level to be submitted to CO by 15th April 2023.

Action: All Institutes

8. Periodic meetings with concerned DoSs on popularization of latest technologies in the field to be conducted under intimation to CO Bengaluru.

Action: All Institutes

9. Quarterly review meetings on the on-going projects must be conducted by lead collaborator with other Institutes.

Action: All Institutes

10. Efficacy / Effectiveness of all the available disinfectants (bed & room) developed by the Mulberry R & D Institutes to be test verified and submit a report to CO by 30th June 2023.

Action: CSRTI-Mysore/ Berhampore/SSTL

Institute-wise progress achieved for the year 2022 -2023 (till Dec, 2023) and the targets for the year 2023-24 were reviewed and the following decisions were taken. A total number of 64 Research Project were agreed upon for taking up by the institutes for the year 2023-24 and the institute wise final targets for research projects, training, CBT, IEC, Patenting & commercialization etc., is placed at **Annexure-II**.

Institute Specific recommendations:

i) CSRTI-Mysuru:

1. As already communicated by the Central Office vide letter CSB-31/2(NRDC-Patent)/2021-22/RCS dated:14.7.21 & 10.8.21, CSRTI, Mysuru may refix the lump-sum fee of ALA for commercialization afresh through NRDC.
2. The *Intensive Sericulture Training* programmes to be conducted as per the assigned targets in consultation with CBT, CO, Bengaluru.
3. As against the target of 14 research projects, only 5 research projects were approved / coded as on date (30%). CSRTI-Mysuru needs to conduct/organize the Research Council (RC) meeting periodically to ensure formulation of meaningful research proposals which should be discussed in the subsequent RAC meeting after obtaining consent from the CO.

4. As against the target of field trials of MV1 x S8 with 90,000 Dfls, only 59600 Dfls were field tested (66%) as on Dec, 2022. CSRTI-Mysuru must complete the field trials with the remaining seed before March, 2023.
5. Progress achieved under CBT & ECPs is poor and CSRTI-Mysuru may strive to achieve 100% before March, 2023.
6. mKisan portal to be made functional and the seri activities being undertaken by the institute should reach the masses through social media.
7. Mulberry tree plantation to be popularized in the field and book on package of practices on Tree Plantation shall be made available by 30th April, 2023 for circulation.
8. CSRTI-Mysuru was directed to establish seri-incubation centre, during the Annual Action Plan Meeting for the year 2020-21 held on 24th and 25th February 2020, which is still pending. No concrete steps were initiated by the institute so far which was viewed seriously. CSRTI-Mysuru may submit the proposal accordingly latest by 30.04.2023.
9. Commercialization of chitin/chitosan and Bio control agents through Institute Incubation centre to be taken-up.
10. To popularize the sericulture technologies and to attract new farmers, Krishi mela may be conducted in North and South Karnataka separately
11. A road map may be prepared for establishment of seri-tourism in consultation with KSTC at CSRTI-Mysore. Status/progress report to be submitted to CO by 30th April 2023.
12. Commercialization of feed supplements prepared from mulberry pupae to be fastened
13. SOP for medially fit silk to be prepared and submitted to CO by 30th April 2023
14. A programme on eri-culture with tapioca plantation at Namakkal & near areas in Tamil Nadu may be submitted by 15th April 2023
15. The trial of poultry feed to be undertaken with Veterinary College & Research Institute, Namakkal, Tamil Nadu immediately under OST/OFT.

ii) CSRTI-Berhampore:

1. To undertake popularization programme of plastic mountages and shoot rearing methods in association with DoS.
2. To consult DOS-West Bengal for strategies for seed crop stabilization in the region
3. Popularization of Improved Cross Breed 12Y x BFC1 in the region.
4. Placement details / employability of the PGDS graduates to be collected periodically and maintain the database at Institute level.

iii) CSRTI-Pampore:

1. The process of obtaining of silkworm genetic material from Uzbekistan to be expedited.
2. Action may be taken on non-compliance of submission of concluded report of project on Development of trap through biorational tactics for the management of mulberry leaf webber *Glyphodespyloalis* (ARE03005SI) and report to be submitted by 30th March, 2023
3. Explore the possibilities of obtaining recognition to CSRTI-Pampore as a Nodal Agency for soil testing activities for mulberry sericulture and the soil testing data may be uploaded in Govt. portal
4. A road map may be prepared for establishment of seri-tourism at P4 BSF Manasbal in consultation with state tourism department. Progress report to be submitted to CO by 30th April 2023
5. Effective coordination for trial of hybrids developed by CSB Institutes at North & NW India.
6. Popularization of CRC in the region in association with DoS.

iv) CTRTI-Ranchi:

1. Project proposals on tasar eco-race (Modal, Raily and Sarihan) conservation to be handled by three different principal investigators / scientists and accordingly, CTRTI-Ranchi to take needful action.
2. Reasons for decline in tasar silk production may be studied and a detailed report to be submitted to CO by 30th March, 2023
3. Historical weather data need to be collected and compiled properly before taking-up of project on Impact of climate change on tasar culture. As multiple factors are involved and how shift in any of the factor which directly or indirectly affects the production and productivity needs to be ascertained.
4. During the current year, scattered moth emergence was observed in tasar silkworm for which the institute may address the issue by taking up suitable study.
5. Institute need to initiate ToT programme as per the set milestone and targets during 2023-24
6. Four new SRCs to be established, one each in Jharkhand, Chhattisgarh, Odisha and West Bengal with a budget provision of Rs.4.00 Lakhs /centre.
7. To keep check on the economic crop loss of tasar crop, CTRTI to focus on the pest infestation, especially different types of wasps.
8. Placement details / employability of the PGDS graduates to be collected periodically and maintain the database at Institute level.

v) CMERTI-Lahdoigarh:

1. Eri-culture activities to be expanded in the states viz. Gujarat, Uttar Pradesh, Odisha & NE states.
2. Unspent amount under AIB-4794 project (funded by DoS under NERTPS project), need to be surrender to the Central Office as Miscellaneous Revenue (MR) besides proposing one weather station at CMERTI-Lahdoigarh with appropriate budget provision.
3. Under ToT programme (projects), progress found to be very poor, PI and component wise CIs need to initiate trails as per set targets without fail in association with collaborators such as MESSO and CSTRI, well in advance.
4. The output of the concluding research projects to be evaluated at nested units and based on the results the same to be proposed for OST/OFT trails.
5. Volatiles blends developed for reduction of egg retention need to be validated at SSTL-Kodathi.
6. Long pending issue of poor hatching during Bhodia (Aug-Sept) crop due to high temperature may be studied properly besides combining all the previously identified solution to get proper multiplication of crop during Bhodia (Aug-Sept) crop
7. Institute need to focus on the post cocoon related activities in muga and eri silk, as no much technologies percolated in the field.
8. Current status of previously concluded project need to be maintained by the concerned Division Head for proper flow of information and utilization of the same in the future projects.

vi) CSGRC-Hosur

1. To accelerate cytological studies under ongoing research project 'Studies on cytological status of core-set mulberry accessions (PIG 06004SI)'

2. To correlate data for identification of duplicates under “Molecular characterization of mulberry genetic resources for the identification of duplicates and effective utilization” (PIG 06005SI) with the collection source and morphological traits/pedigree.

vii) CSTRI-Bengaluru

1. CSTRI to go through the research projects concluded during the past 5 years and verify / check for the technologies/ products which can be popularized / commercialized for the benefit of the stakeholders. Accordingly, a detailed report may be submitted to CO latest by 15th April, 2023 indicating the outcome/output from each concluded project and the status of the outcome/output with reasons.
2. Institute is undertaking many pilot studies without the consent of the CO is viewed seriously as the Institute could not fulfill the project target slated for 2022-23 besides resulting in unaccountability of the allocated R&D fund. Hence, all the research proposals including the pilot studies to be referred CO seeking approval of the Competent Authority in future. The details of all the ongoing pilot studies at CSTRI may be submitted to CO including budget particulars (allocated vs utilized) etc for review by 30th March, 2023.
3. The patentable/IP aspects of any technology/process can't be published in public domain, until IP protection is ascertained. Similarly, CSTRI to restrain from publishing the material without proper validation of the technology.
4. The very poor progress under the ToT was viewed seriously and advised to undertake the OST/OFT as per the set milestones.
5. CSTRI to submit the details of publications made during the year 2022-23 (Books/bulletins/papers/ popular articles etc) latest by 30th March, 2023 with the details viz. amount incurred, source, booked under which project/head etc.
6. CSTRI to propose one National Conference in PCT sector for the year 2023-24
7. To explore establishment of incubation centre at CSTRI for which external funding may be explored. The detailed proposal including budget requirements etc to be submitted by 30th May, 2023
8. CSTRI to develop a tool /machine for Eri cocoon opening/cutting and pupa removal on priority
9. The ToT programmes being carried out by CSTRI (Bio finishing using enzymes) to be extended to nested units viz. Malda, Champa, Phaka, Guwahati & Varanasi
10. Water requirement for production of 1 kg silk fabric to be revisited in-line with National Silk Policy -CSB

viii) SBRL-Kodathi:

1. Institute need to take-up study on sex determination of silkworm in egg stage in association with SSTL-Kodathi
2. The nil / no progress made under the OFT on Evaluation of NPV tolerant bivoltine hybrids and cross breeds at farmers level was viewed seriously and advised to continue the OFT without any further delay. A detailed programme may be drawn in this regard in association with all the collaborators (CSRTI-Berhampore, CSRTI-Pampore & NSSO-Bengaluru) and submit to CO latest by 30th March, 2023
3. To explore the possibility of obtaining NABL accreditation during the year 2023-24
4. Based on the workload, SBRL to propose for conduct of 21 days training programme on sericulture biotechnology /molecular biology / bioinformatics with detailed course / curriculum. The training programme would be conducted twice in a year based on the registration of the trainees. No fee would be collected from the in-house personnel whereas training fee to be collected from the outside candidates, which may be fixed/ arrived at in

consultation with the CO-CBT. Subject matter specialists can be involved from outside CSB wherever found necessary.

5. Institute need to compile a detailed report on the achievements made since inception in the field of seri-biotechnology with respect to marker, sequence & genes identified, sequence reported/ submitted, publications with IF/NAAS, technology (diagnostic kit/tool) developed etc which should be submitted to CO latest by March, 2023.
6. Current status of the outcome of the previously concluded projects needs to be maintained by the concerned Division Head for proper flow of information and utilization of the same in the future projects.

ix) SSTL-Kodathi:

1. The Institute not conducted any RC / RAC meeting during 2022-23, which was viewed seriously with a advice to conduct RC immediately. The Director, NSSO may take action against concerned for non-conduct mandatory of meetings.
2. Status of availability of RMIS-10, data, files and registers etc of the concluded research project "APS 3581: Development of technology for enhancing egg laying in *Bombyx mori*. L by application of mulberry volatiles" to be submitted to CO by 5th March 2023
3. To submit detailed report on the progress of "OST on volatiles" by 15th March 2023

x) NSSO-Bengaluru:

1. The seed act implementation to be ensured as per the norms and the SO & SA system to be made effective for proper monitoring of the silkworm crops. Further, the Seed Act meeting may be planned before April 2023 by inviting all SO/SAs as the same was not conducted for the last 2 years.
2. Keeping in view of the recent developments in the sericulture practicing states and to address the issues if any, the existing *Seed Act* may be thoroughly reviewed / verified for needful / requisite amendments if any in the interest of the industry for which NSSO may form a committee involving all the Directors/In-charge Officers of Seed Organizations
3. Uniform and transparent procedure may be adopted to dispose of the un-disposed silkworm seed for which NSSO may frame suitable guidelines / terms of reference.
4. NSSO may adopt and follow uniform policy with regard to seed disposal to the stake holders. The concerns recently raised by the DOS, Maharashtra on supply of seed to pvt. CRCs in Maharashtra and raising the invoices on DoS Maharashtra without their notice may be taken-up seriously and resolve the issues at the earliest. If need be, NSSO may visit DoS Maharashtra with all the documentary evidences, invoices etc., discuss and resolve the DCB arrears issues before March, 2023 and to submit a detailed report by 15.04.2023.
5. All efforts may be made to collect the DCB arrears from the DoSs and ensure disposal of silkworm seed only on cash & carry basis.
6. To rope in/develop more number of ASRs for quality seed production/multiplication.
7. To achieve the set targets of raw silk production under the silk samagra-2, NSSO to produce 500 lakhs of BV seed during the year 2023-24. Accordingly a detailed plan of action may be drawn well in advance and implemented.
8. NSSO to address the shortage of P1 DFLs seed supply to Tamil Nadu and Andhra Pradesh on priority.
9. NSSO may conduct a sample survey to ascertain the missing links at various levels of seed production and the processes followed resulting in success / failure of the crops at farmers level to streamline the forward and backward linkages in the seed production value chain.

xi) BTSSO-Bilaspur:

1. Scientists working under BTSSO may be associated with research projects of CTRTI wherever found necessary and new proposals may also be submitted on secondary food plants of tasar (top 3 plants) and moth emergence studies through artificial mimicking activities in association with CTRTI & SSTL.
2. Increase the new ASRs number to scale up the seed production in tasar sector.
3. Proposals on renovation of infrastructure to be submitted to CO after obtaining estimations from CPWD/ SPWD/ Govt. agencies.
4. Publication of hand book on tasar seed production may be taken-up/ scripted on priority and to be published by June, 2023.

xii) MESSO-Guwahati:

1. To meet the demand of eri silkworm seed from *Bodoland Territorial Council* (BTC) & Tamil Nadu etc states, MESSO may increase the ASRs (at least 50% more than the existing ASRs) under ESSPC, Hosur and accordingly the target of seed production to be increased to 7.0 Lakh Dfls. Similarly, Muga silkworm seed production also to be increased to 7.60 Lakh Dfls besides the ASRs.
2. ASRs to be supported (through CMERTI) under the silk samagra for which suitable proposals may be submitted seeking approval of the Competent Authority.

xiii) CBT, CSB-Bengaluru:

1. Institute wise / sector wise standard course curriculum to be developed for all the structured courses in consultation with the concerned Institutes/organizations.
2. CBT to maintain database on trainings programmes conducted for past 10 years to avoid duplication. Feedback on the impact of trainings conducted to be collected and assessed periodically including SAMARTH.
3. Sericulture research internship programmes with 3 months duration may be designed and developed in consultation with RCS on the lines of MoEF & CC/ DST-SERB programmes for implementation across the CSB Institutes which helps solving manpower issues besides generating revenue.
4. All the R&D institutes should be involved in SAMARTH programmes for which CBT may discuss with all concerned Directors/In-charge Officers of CSB R&D institutes and Seed organizations and finalize the programmes at the earliest.
5. With regard to establishment of new Sericulture Resource Centres (SRC), procurement of stores and stationary items may be done from the main institutes only. However, in case any difficulty, CBT at CO may be intervened and guide the institutes appropriately.

xiv) Publicity Section, CSB-Bengaluru:

1. Video clippings on sericulture technologies /success stories etc., to be collected from CSB institutes and publicize through social media viz., Youtube/Facebook/Instagram/Twitter etc
2. To come out with a comprehensive movie/video film covering all the aspects/sectors of silk including video on Central Silk Board & its activities which could be screened to educate the visiting dignitaries besides being useful for training and other educational purposes.
3. Good quality video clippings /short movies on all the popular technologies to be prepared and uploaded to CSB website besides popularizing them through Youtube, Instagram, Twitter, Whatsapp and Face book etc.
4. To vet all the books to be published viz., Hand Book on Sericulture (Tasar, Eri and Muga silkworm).

5. Reprints of the popular sericulture books/literature may be taken up on priority and may be made available at CO besides libraries /sale for the benefit of the stakeholders.

Others:

- The presentation on *e Submis* (e RMIS) wherein the research proposals would be processed exclusively through online w.e.f. April, 2023 onwards, was appreciated by the Member Secretary and advised to optimize the layout & colour combinations besides hassle free navigation from one step to other. He further suggested including tracking of budget utilization also in the software besides suggesting organizing hands-on training /workshop for the end users/CSB institutes before 30th March, 2023

Action: RCS & Computer Division, CSB, Bengaluru

- Store Section at CO, CSB-Bengaluru may organize a workshop on purchase procedures inviting the stores personnel across the institutes so as to avoid the time delay in procurement processes. Further, a team of Officers from CO may be deputed to ICAR and CSIR institutes in and around Bengaluru to study the administrative procedures being followed in purchase procedures and a detailed report be submitted for refinement of purchase procedures in CSB if any by April, 2023.

Action: Director (Finance), CSB, Bengaluru

- The identified molecular markers/technologies at CSB R&D institutes may be cross verified/validated at concerned other CSB R&D institutes before going for OST/OFT. Further, the technologies already under OST/OFT may also be cross verified/ validated at other concerned CSB R&D institutes.

Action: All CSB R&D institutes

- To submit the revised/ updated Annual Action Plan for the year 2022-23 (Part-I to III) latest by 15th April, 2023 by incorporating the decisions taken during the Annual Action Plan meeting held on 16th & 17th Feb, 2023. The budget part (Part-III) of the Annual Action Plan to include the proposals as per the approved and ongoing research projects and wherever the incubation centres are being proposed, suitable provisions to be included.
- Disease monitoring proposals/programmes may be reviewed and put up to the Competent Authority for appropriate action on case to case basis.
- As against the purchase of new vehicles for discharge of official duties, need based hiring of vehicles is encouraged wherever found necessary.
- Scientists to submit research articles to *Indian Journal of Sericulture* (IJS) across CSB institutes. Team IJS may immediately pursue obtaining NAAS rating & on line publication by 15th April 2023. As Competent Authority has agreed upon for consideration of IJS publications for MFCS of CSB scientists, RCS to apprise the CO Administration accordingly.
- Success stories of sericulture farmers to be prepared and published at institute level annually besides posting on social media & youtube etc.
- Need based training programmes may be proposed for skill upgradation of the scientists in frontier areas of sericulture by utilizing interest generated under FD of R&D Fund.
- Revised norms for engagement of person days were already approved by the Competent Authority, which would be circulated shortly. Accordingly all concerned Director/In-charge Officers of CSB institutes and seed organizations may hire the labours as per the mandated activities and assigned targets by following prescribed guidelines/terms of reference.
- To collect feedback on the Extension Communication Programmes conducted periodically and to maintain record at institute level.

- All institutes may prepare the FAQs in national as well as regional languages and place on the website.
- The mega clusters to act as *resham vigyan kendras* with the existing infrastructure and the monitoring activities can be taken care by the available Technical Staff.
- Publication of Annual Reports of CSB R&D Institutes and the Seed Organizations to be completed by the end of June positively.

Date: 27.02.2023


27.2.23

Rajit Ranjan Okhandiar, IFS
Member Secretary

Annexure-I**LIST OF PARTICIPANTS ATTENDED THE ANNUAL ACTION PLAN MEETING FOR THE YEAR 2023-24 HELD ON 16th & 17th FEBRUARY, 2023 AT CSB BENGALURU**

- 1) Sh. R. R. Okhandiar, Member Secretary, CSB, Bengaluru
- 2) Dr. C. Meenakshi, Director (Finance), CSB, Bengaluru
- 3) Dr. B. T. Sreenivasa, Director (Tech), CSB, Bengaluru
- 4) Dr. Kishore Kumar, Director, CSRTI, Berhampore
- 5) Dr. K. M. Vijayakumari, Director, CMERTI, Lahdoigarh
- 6) Dr. K. Sathyanarayana, Director, CTRTI, Ranchi
- 7) Dr. A. Venugopal, Director, BTSSO, Bilaspur
- 8) Dr. Mary Shery (Josepha) A V, Scientist-D & Officer Incharge, CSRTI, Mysore
- 9) Dr. Sardar Singh Rana, Scientist-D & Officer Incharge, CSRTI, Pampore
- 10) Dr. Y C Radhalakshmi, Scientist-D & Officer Incharge, CSTRI, CSB, Bengaluru
- 11) Dr. Sharmila K K, Scientist-D & Officer Incharge, NSSO, CSB, Bengaluru
- 12) Dr. Ponnuvel K. M, Scientist-D & Officer Incharge, SBRL, Kodathi
- 13) Dr. C. R. Hegde, Scientist-D & Officer Incharge, SSTL-Kodathi
- 14) Dr. Haralapur, Scientist-D, NSSO, CSB, Bengaluru
- 15) Sh. Mohan B, Scientist-D, NSSO, CSB, Bengaluru
- 16) Dr. B. N. Sarkar, Scientist-D, MESSO, Guwahati
- 17) Dr. N. Balaji Chowdary, Scientist-D, BTSSO, Bilaspur
- 18) Dr. Manthira Moorthy S, Scientist-D, RCS, CSB, Bengaluru
- 19) Dr. P. Kumaresan, Scientist-D (S.M& PCT), CSB, Bengaluru
- 20) Dr. Rahamathulla, Scientist-D, Seed, CSB, Bengaluru
- 21) Dr. Jula S Nair, Scientist-D, CSB, Bengaluru
- 22) Dr. G. Lokesh, Scientist-D, CSGRC, Hosur
- 23) Sh. S. Nazeer Ahmed Saheb, Scientist-D, RCS, CSB, Bengaluru
- 24) Dr. Siddiqui Ali Ahmad, Scientist-D, CBT, CSB, Bengaluru
- 25) Dr. Prashanth Sangannavar, Scientist-C, RCS, CSB, Bengaluru
- 26) Dr. G. R Manjunatha, Scientist-C, RCS, CSB, Bengaluru
- 27) Dr. G. Subramanya, Scientist-C, SBRL, Kodathi
- 28) Dr. Sailaja B, Scientist-C, SSTL-Kodathi
- 29) Sh. R. K. Sinha, Deputy Director (Publicity), CSB, Bengaluru
- 30) Ms. Sravani Siddula, A.D (A&A), CSB, Bengaluru
- 31) Sh. N. Shastri, A.D (Stores), CSB, Bengaluru
- 32) Sh. Hafeez, A.D (A&A), CSB, Bengaluru
- 33) Ms. Abmika, Asst Supdt (Tech), CSB, Bengaluru
- 34) Dr. Anil Kumar, Senior Technical Asst, CSB, Bengaluru

TARGETS AT GLANCE FOR THE YEAR 2023-24 (PROJECTS, PATENTS & COMMERCIALISATION, ECP, CBT & IEC)

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TARGETS AT GLANCE FOR THE YEAR 2023-24 (PROJECTS, PATENTS & COMMERCIALISATION, ECP, CBT & IEC)

#	CSRTI Mysore	CSRTI Berhampore	CSRTI Pampore	CTRTI Ranchi	CMERTI Lahdoigarh	CSGRC Hosur	CSTRI Bengaluru	SBRL Kodathi	SSTL Kodathi	NSSO Bengaluru	BTSSO Bilaspur	MESSO Guwahati	CBT CO	Total
Foundation Training	--	--	--	--	--	--	--	--	--	--	--	--	100	100
Training under post cocoon sector														
Training on silk reeling (10 Days)	--	--	--	--	--	--	200	--	--	--	--	--	--	200
Training on silk weaving (10 days)	--	--	--	--	--	--	60	--	--	--	--	--	--	60
Training on silk twisting and dyeing (5 days)	--	--	--	--	--	--	200	--	--	--	--	--	--	200
Vanya silk reeling and spinning (5 days)	--	--	--	--	150	--	240	--	--	--	--	--	--	390
Training for entrepreneurs in PCT (12 days)	--	--	--	--	--	--	25	--	--	--	--	--	--	25
Training for entrepreneurs in twisting (7 days)	--	--	--	--	--	--	25	--	--	--	--	--	--	25
Refresher training to DOS/Industry (3 days)	--	--	--	--	--	--	25	--	--	--	--	--	--	25
Non CBT/Adhoc (sponsored by other agencies)	250	520	100	50	100	--	--	10	--	--	--	--	--	1030
Periodicals	1	2	3	3	3	3	3	1	1	--	3	3	--	26
Publications														
Research papers-NAAS rated	15	10	10	10	10	6	10	8	2	2	4	3	--	90
Research papers-without NAAS rating	15	10	10	5	15	6	10	8	3	--	2	4	--	88
Proceedings/ Abstracts	18	8	5	15	10	2	2	3	2	--	2	--	--	67
Books/ Book Chapters/ Manuals etc.	7	8	5	2	10	2	1	1	--	--	--	1	--	37
Popular Articles	10	2	5	8	10	2	1	2	2	--	2	3	--	47
Booklets, Brochures etc.	6	6	5	2	10	1	1	2	--	10	--	1	--	44
Extension literature	4	12	10	2	10	--	1	3	--	--	2	3	--	47
Films/ Videos	2	2	2	10	15	--	1	--	--	--	--	2	--	34
Social media	100	20	200	250	100	50	100	20	--	--	50	20	--	910

Convergence with DOSs regarding ecorace conservation and other issues. * Master Technicians & other extn. programmes-demand dependent

** Includes one seminar in national language hindi and one scientists meet