

## SECTION 4:

### Description and Definition of Success Indicators and Proposed Measurement Methodology

(CSRTI, Berhampore)

Objectives	Success Indicator	Description and definition	Measurement of Methodology
<b>1. Conduct scientific, technical and economic research to enhance production, productivity and quality of Indian silk.</b>	<b>Undertaking Research projects to enhance quality and productivity. (Research Projects-coded by CO)</b>		
	Total on- going Projects	The Projects which were taken up in the previous years that are continuing in the current year.	
	Projects Concluded	The Projects which were taken up in the previous year's those are concluded in the current year.	All the Projects/Programmes concluded could be indicated, however the outcome of the Projects/ Programmes, along with the scientists associated is annexed along with the list of Projects/ Programmes.
	Projects Initiated	The Projects shall be identified based on the field problems and emerging needs.	These Projects/Programmes are selected after due deliberations in the Research Advisory Committee (RAC) and subsequent approval by the CEO of CSB
	Projects to be taken up by RSRS	The Projects shall be identified based on the field problems of RSRSs and emerging needs.	These Projects/ Programmes are selected after due deliberations in the Regional Research Advisory Committee (RRAC) and subsequent approval by the CEO of CSB.
	No of Technologies / innovations developed /likely to be developed out of concluded projects.	This is applicable to the ongoing Projects /Programmes. The Projects/Programmes would be given a specific time lag with yearly phasing depending upon the nature and content of the experiments.	The progress in respect of the Projects/ Programmes milestones for respective year determines the measurement. The average percentage achievement would be calculated if the Projects/Programmes are more than one.
	New Technologies for field testing	The new mulberry varieties which are above the benchmark yields from the existing highest yield in different situations are considered here. Three mulberry varieties developed after 2012-13 will be continued up to 2016-17.	The varieties having yields below the existing benchmark would be given 80% criteria value although the achievement in number is 100%.

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	<b><u>Mechanization of sericulture industry:</u></b>	The new technologies/solutions which are proven effective are considered here.	Measurement in number of technologies developed.
	i. Equipment/ machines newly developed for sericulture mechanization	Many of the sericulture activities could be done through mechanization by developing simple devices. This would significantly increase the income level of the farmers	The number of mechanized equipments developed by the institute in all the disciplines of sericulture
	ii. Machines / equipment absorbed in the field	The said equipments should be acceptable to the beneficiaries for terming it as the success of the project	No. of developed equipments accepted in the field would be counted here.
<b>2.Commercialization of products and Technologies</b>	<b>Sericulture technologies including chemical taken up for commercialization /patenting</b>		
	Technologies commercialized	The technologies developed in the research institutes need to be commercialized for wide use.	Number against target value would be considered here.
	Technologies applied for patenting	The technologies developed need to be patented to avoid misuse.	Number against target value would be considered here.
<b>3.IT Initiative</b>	<b>Development of data base and technology under IT initiatives</b>		
	No. of Farmers database created for m-Kisan Portal	Farmers' data base need to be created for keeping track on sericultural activities and monitoring.	Number against target value would be considered here.
	No. of Messages up-loaded in M-Kisan Portal	Messages to the farmers / stakeholders on developed technology and timely forewarning / monitoring for improve technologies adoption.	No. of messages accepted in the field would be counted here.
	Up-loading of data in "Seri-5k" Portal	Details of farmers profile along with crop-wise rearing performance data to keep track on the sericulture activities under Bivoltine Cluster Promotion programme, at farmers' level.	Number against target value would be considered here.
	No. of Research Projects uploaded for E-Monitoring	All ongoing project profile need to be uploaded for e-monitoring of progress and utilization of outcome / results of concluded projects for adoption and field utilization.	Number against target value would be considered here.
	Digitization of Soil Health Cards	Farmer-wise & Zone-wise mapping of soil nutrient status in mulberry for monitoring of farmers on soil health management, suitability for mulberry plantation and productivity & quality improvement	Number against target value would be considered here.
	Preparation of Technology adoption document/Videos	Documentation of Institute developed Technology	Number against target value would be considered here.
	Digitization of payment	Payment to be done through digitized mode	Percentage target value to be considered here.

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	<b><u>Implementation of Direct Benefit Transfer (DBT)</u></b>		
	% of implementation of Direct Benefit Transfer (DBT)	All correspondences on money transfer to Farmers / stakeholders will be directly done through bank for easy record keeping and monitoring.	Direct fund transfer from Bank to bank.
	Submission of DBT Annexures 1& 4	Dissemination of technologies are under taken various mentioned activities by the Institutes, RSRs and RECs	Number against target value would be considered here.
<b>4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building</b>	<b><u>Interventions through main institute level:</u></b>		
	No of Seri-model identified	Sericulture villages will be identified and made as Model villages and implement the mission and vision of Swachh Bharat Abhiyan. Improvement of health hygiene, basic needs for better quality of life of the sericultural farmers / stakeholders and development of socio-economic conditions of the farmers / stakeholders through sericulture will be taken care.	Arranging basic needs such as, toilet for individual families, arrangement of drinking water, better road connected awareness on cleanliness and health hygiene will be arranged through various Government funds.
	No. of farmers adopted	All sericulture farmers in the village will be covered.	Number against target value would be considered here.
	Expected raw silk Output	Improvement in production and quality of cocoons for more raw silk output.	All farmers covered under the silkworm rearing in the captive areas will be guided with technology and monitored.
	<b><u>Large scale trial of L14 x CSR2, &amp; other [M6DPC x D6PN xSK4C]ICB breeds:</u></b>		
	No. of dfls proposed for large scale trial	Large scale trial of silkworm breeds / hybrids for their yield performance at field level.	Number against target value would be considered here.
	<b><u>Interventions through RSRs/ REC level:</u></b>		
	No. of CPP Clusters adopted	Data base on Blocks/ districts adopted for R&D, Extension and service supports will be maintained for monitoring of sericulture activities at farmers level.	Number against target value would be considered here.
	No of farmers covered	Sericulture farmers' data base will be maintained for monitoring.	Number against target value would be considered here.
	Raw Silk Output	Improvement in production and quality of cocoons for more raw silk output.	All farmers covered under the silkworm rearing in the captive areas will be guided with technology and monitored.

<b><u>New plantation with improved varieties:</u></b>		
Popularisation of Vishala, C-1730, Tr-23,C2028 and C2038 varieties	Improvement in production of mulberry laves through popularization.	Number against target value would be considered here.
<b><u>Organisation of Swaachha Resham Gram:</u></b>		
No of villages covered	Sericulture farmers' data base will be maintained for monitoring.	Number against target value would be considered here.
Adoption of villages	Villages will be adopted and detailed information on farmers resides in the village, facilities available, road connectivity, drinking water facilities etc. will be maintained for monitoring.	Number against target value would be considered here.
<b><u>100 % Adoption of Technologies amongst different stake holders</u></b>		
Number of farmers covers under 100% adoption of technology	Data base will be maintained on farmers adopting technologies at 100% level.	Number against target value would be considered here.
<b><u>Extension communication programmes (ECP) viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.:</u></b>		
No of programmes conducted	Awareness on improved sericultural technologies will be created through ECPs.	Number against target value would be considered here.
No of farmers covered	Sericulture farmers' data base will be maintained for monitoring.	Number against target value would be considered here.
Post programme follow up	Feedback will be collected from the farmers / stakeholders on adoption and improvement of productivity, quality and thereby economic upliftment.	Number against target value would be considered here.
Participation in Radio Programm	Mass communication to farmers/ stakeholders through All India Radio broadcasting of improved sericulture technologies, forecast and forewarn the farmers on occurrence of diseases and pests on mulberry and silkworm and thereby adoption of technologies and improvement in productivity and quality.	Number against target value would be considered here.

	Participation in TV Programm	Mass communication to farmers/ stakeholders through Television programmes of improved sericulture technologies, forecast and forewarn the farmers on occurrence of diseases and pests on mulberry and silkworm and thereby adoption of technologies and improvement in productivity and quality.	Number against target value would be considered here.
	No of Success stories submitted for publication under various aspects	Articles related to success stories of farmers to be published in Indian silk or related journals	Number against target value would be considered here.
	Number of papers / popular articles published like Indian Silk Magazine	Research articles related to the sericulture technologies to be published in National/ International/ Indian silk or related journals	Number against target value would be considered here.
	Video of International quality on all the popular technologies developed by Institute	Video films related to sericulture technologies to be produced and to be broadcasted	Number against target value would be considered here.
	<b><u>Skill Development:</u></b>		
	Beneficiaries trained under structured programmes, need based programme etc.	Need based training programme for sericulture farmers / stakeholders will be organized for updating their knowledge.	Number against target value would be considered here.
	<b><u>Generation of funds as per XII Plan guidelines:</u></b>		
<b>6. Revenue Generation</b>	Revenue generation through commercialisation of Technology	Revenue generation through technology commercialization at farm and field level would be considered here	Amount against target value would be considered here
	Revenue generation through other methods	Revenue generation through different training programmes, sale of cocoons, mulberry saplings, silk fiber etc. would be considered here.	Amount against target value would be considered here.

<b>7.Strengthening institutional framework to support ongoing research and related programmes</b>	<b>Utilization of existing land holdings:</b>		
	Effective utilization of cultivable land for assigned mandates	Although the institutes have cultivable land, the same may not be used fully due to a number of reasons. The same has to be effectively utilized for various R&D activities	Percentage of cultivable land being used would be taken for measurement.
	Extent of utilization of facilities for the core purpose of assigned mandates	The infrastructure facilities created for the institute need to be properly utilized for the development of the industry.	Percentage of utilization need to be arrived based on the extent of utilization, but not by number.
	Optimum utilization of manpower	Utilization of scientific manpower for research activities	R&D, extension, training works manpower to be utilized.
	Effective Monitoring of Civil Works	Monitoring of progress of construction works at Institute & sub-units	Infrastructure development for smooth functioning of different sericultural activities.
	Submission of UCs	Monitoring of Civil works and collection of UCs.	Contact and pursue for execution and completion of civil works by the public departments.
	Utilisation of Grants	Financial Expenditure as per allotment & Submission of UCs	Proper utilization and expenditure under CSS schemes is needed for fruitful work of the industry. Expenditure to be utilized and maintained as per budget of CSS schemes.
<b>8.Collaborative Research Programmes with other R&amp;D organizations in India and abroad</b>	<b>Identifying potential R &amp; D Institutes in India and abroad and undertake collaborative research programmes for the benefit of both the countries</b>		
	Projects taken up for collaborative research	In order to develop better breeds and varieties, XII Plan proposes to take up collaborative Projects / Programmes with other institutes in India and abroad. Through collaboration with the R&D institutes abroad, it is expected to source robust genetic materials (pure line) for breeding work.	Number of Projects/Programmes taken up under this head would be counted separately.