

**CENTRAL SERICULTURAL RESEARCH & TRAINING INSTITUTE, PAMPORE**  
**DIGITALIZATION OF PROJECTS/PROGRAMMES/PILOT STUDIES FOR E-FILLING FOR THE YEAR 2016-2017**

*To view full project/programme: Please Click on specific project code & title*

Sl. No	Project code & title	PI of the project	Duration	Objective	Total budget (in lakh Rs.)	Expected outcome	Upto date progress
1.	<a href="#">PRP-3572</a> <a href="#">Management of Root rot diseases of mulberry in Kashmir.</a>	Mudasir Gani	March 2016- Feb, 2018	To record the incidence and distribution of root rot disease of mulberry in different parts of Kashmir. To develop suitable management measures for effective control of root rot disease of mulberry.	6.30	Proposed study will give the prominence of the incidence of root rot disease of mulberry in major sericulture practicing areas of Kashmir. Consequently, the outcome will endorse to take up suitable management package of practices in Kashmir valley.	<a href="#">PRP-3572</a> <a href="#">(View)</a>
2.	<a href="#">AIB-3570</a> <a href="#">Evolution of autumn specific bivoltine breeds suitable for Temperate region of the Kashmir valley</a>	Shiv Kumar	Jan, 2016 to Dec, 2019	Evolution of autumn specific Bivoltine breeds suitable for temperate region of the Kashmir valley.	29.50	The current project is of prime importance and need based work concept from farmers' point of view for increasing their income from bivoltine silkworm rearing in temperate region of the Kashmir Valley. Hence, it will helpful to improve the sericulture Industry more remunerative during autumn season, which is failing cocoon productivity in the region as even though autumn season is a second highest crop after the spring season. Therefore, from the proposed project, it will help to evolve the autumn specific silkworm breeds and enhance the cocoon productivity should be robust to adverse climatic conditions with better	<a href="#">AIB-3570</a> <a href="#">(View)</a>

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						cocoon productivity than the existing breeds of the silkworm <i>Bombyx mori</i> .	
3.	<a href="#">AIB-3569</a> <a href="#">Evaluation and identification of superior BmNPV tolerant bivoltine hybrids of silkworm <i>Bombyx mori</i> L.</a>	Shakeel Ahmad	Mar,2016 to Feb,2019	Evaluation and identification of disease resistant and high yielding bivoltine hybrids for enhancement of cocoon productivity for sustainable sericulture in North India.	11.98	Hybrids with productive character and good survival are suitable to the spring season. The hybrids with robust larvae having high pupation rate, moderate cocoon weight and high shell content are advisable to rear during summer and autumn season where high temperature & humidity are prevailing during those seasons.	<a href="#">AIB-3569 (View)</a>
4.	<a href="#">ARP-3573</a> <a href="#">Severity, Extent of crop loss and management of Grasserie of <i>Bombyx mori</i> L through advocated bed disinfectants in Kashmir</a>	S. Chuhan	March 2016 – Feb. 2018	To record the information on severity of grasserie and to estimate the extent of cocoon crop loss by grasserie disease in different rearing seasons and areas. To evaluate the bed disinfectants advocated for the prevention / control of grasserie disease.	4.50	The present study / project proposes to record the information on severity and extent of cocoon crop and to manage the grasserie of <i>B. mori</i> L. through eco-friendly and which also will help in reducing input costs. The outcome will be going to address the urgent need of the sericultural farmers in general and that of Kashmir in specific. The application of eco-friendly silkworm bed disinfectant shall ensure higher cocoon productivity during spring crop, reduce crop loss from disease incidence and ensure crop stability in	<a href="#">ARP-3573 (View)</a>

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						autumn season.	
5.	<a href="#">PIB- 3579</a> <a href="#">Identification of cold tolerant genes for improvement of mulberry genotypes</a>	Pawan Shukla	June, 2016- June, 2018	<ol style="list-style-type: none"> <li>1. In silico identification of cold tolerant genes.</li> <li>2. Isolation and expression analysis of cold tolerant genes from the mulberry plant.</li> </ol>	24.00	Through this project, the utilization of mulberry and NCBI database through bioinformatics tools for identifying genes will be explored. It will help us to identify cold tolerant genes present in the mulberry genotypes from Leh, Ladakh and Gurej region. Also, it will nurture our knowledge about the candidate genes involve in cold adaptation and freezing response in these genotypes. These candidate genes can be transferred into a popular mulberry genotype by genetic transformation method for development of cold tolerant mulberry genotype for Kashmir valley	<a href="#">PIB- 3579</a> <a href="#">(View)</a>
6.	<a href="#">PIB-3503</a> <a href="#">Identification of Autumn Specific Silkworm Breeds/ Hybrids Suitable for Sub Tropical Zones of North and North West India.</a>	Pankaj Tewary	2012-2017	<ol style="list-style-type: none"> <li>1. To identify hardy autumn specific bivoltine silkworm breeds / hybrids suitable for sub-tropical zones of north and northwest India.</li> <li>2. To identify breeds having disease and thermo tolerance for autumn rearing besides, being stable under diverse climatic conditions.</li> </ol>	147.37	<p>The study is of great importance from farmers point of view for increasing their income from bivoltine silkworm rearing and thereby making sericulture more remunerative during autumn season.</p> <p>Autumn specific silkworm hybrids should be robust to adverse conditions with better productivity than the existing hybrids.</p>	<a href="#">PIB-3503</a> <a href="#">(View)</a>
7.	<a href="#">PPS-3603</a>	Jadav Ashok	Nov., 2016-	To know the soil health	30.00	<ul style="list-style-type: none"> <li>• Soil health cards will</li> </ul>	<a href="#">PPS-3603</a>

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	<a href="#">Soil sustainability of sericulture farmers of North Western India through soil health cards. (TOT Project)</a>	Limbaji	Oct.2019	of sericulture farmers of North Western India and provide them balanced recommendation of fertilizer for sustainable sericulture.		<p>be generated which is validated for three years.</p> <ul style="list-style-type: none"> <li>• It will help to know nutrient supply capacity of soils of sericulture farmers of North Western India.</li> <li>• It will help in increase productivity and quality leaf production of mulberry.</li> <li>• It will create a National database on soil status of farmers which will help in future studies.</li> </ul>	(View)
8.	<a href="#">PIB-3571 Evolution of superior mulberry varieties suitable for temperate region through somatic hybridization (In collaboration with University of Kashmir)</a>	Gulab Khan	March-2016 to Feb,2019	<p>To ascertain the ploidy level of popular mulberry accessions of temperate region.</p> <p>To produce somatic hybrids suitable to temperate climatic conditions.</p>	39.90	<p><b>Expected outcome of the project:</b></p> <p>Development of superior mulberry variety suitable for temperate regions with more desirable characters in terms of leaf yield, quality of leaf, rooting ability, moisture retention ability and resistance against diseases. The produced tetraploid mulberry genotypes can also be utilized in future breeding programmes for evolving a superior triploid genotype. The isolated protoplasts can be utilized in genetic transformation experiments for genetic improvement of mulberry varieties through particle bombardment,</p>	<a href="#">PIB-3571 (View)</a>

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						<p>electroporation type of gene transfer techniques. Increase in the mulberry productivity in Jammu &amp; Kashmir and other northwest regions, which in turn will be helpful to poor farmers for getting better livelihood and will lead to increase in silk yield of country.</p> <p><b>Outputs:</b></p> <p>Ploidy level of Goshorami, C-4, Mandalay(S-1), Ichinose, Chinese white and Brentul Kashmir and PPR-1 (S-140) varieties can be identified, which can also be utilized for further research purpose. Successful establishment of plant in vitro culture conditions in the Institute</p>	
9.	<a href="#">MOE-3574</a> <a href="#">Yield gap analysis of cocoon productivity under conditions of North West India. (In collaboration with SKUAST-Jammu)</a>	M. K. Tayal	March-2016 to Feb, 2018	<p>To analyze the factors responsible for low cocoon productivity at farmer's level.</p> <p>To collect the information regarding the knowledge and adoption level of different improved sericultural technologies at farmer's level</p> <p>To come up with the remedial methods for narrowing the cocoon yield gap between lab</p>	9.35	<ul style="list-style-type: none"> <li>The project envisages analysing and identifying the factors responsible for low cocoon productivity at farmers' level in North West India.</li> <li>Gain knowledge about awareness and adoption level of different improved sericultural technologies by the silkworm rearers at the field level of North West India.</li> </ul>	<a href="#">MOE-3574 (View)</a>

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				to land.		<ul style="list-style-type: none"> <li>Remedial methods for narrowing the cocoon yield gap between potential and actual yield at farmers' level in North West India.</li> </ul> <p><b>Outcome: Beneficiaries and Impact:</b> Target group will be the <b>silkworm rearers</b> of North West India which comprises nearly 46,000 in number (mostly from socio-economical weaker section of the society) and project envisages to analyse and identifying the reasons of low cocoon yield in the region with remedial measures to improve the cocoon productivity. This will improve social and economical condition of sericultural families in North West India and give <b>sustainability to sericulture</b> in the region</p>	
10.	<a href="#">PIB-3586 Development of superior mulberry varieties through controlled hybridization for North-West Indian states (In collaboration With CSGRC, Hosur &amp; CO, Bangaluru)</a>	S. S. Chouhan	Sept. 2016 to Aug. 2021	<ol style="list-style-type: none"> <li>Identification of desired parents from germplasm CSR&amp;TI, Pampore and CSGRC, Hosur</li> <li>Hybridization among selected parents with specific targeted traits.</li> <li>Evaluation of different F<sub>1</sub>s cross combinations for -</li> </ol>	35.0	Suitable varieties with improved plant type/higher yield for limited irrigated and rain-fed areas will be evolved for varied agro-edaphic & cultural practices under "Bush & Tree-type of plantation with superiority over existing ones (early sprouting, late-leaf-shedding,) for north-west Indian states	<a href="#">PIB-3586 (View)</a>

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				4. Development of HYVs suited to various agro-edaphic conditions and amenable to different agronomic practices, spacing's / pruning systems under bush and tree mode of plantation in tropical/subtropical pockets of north-west states with emphasis on early sprouting nature, canopy configuration and rooting ability in cold / temperate/little-snowing areas.		(J&K, HP, Punjab, Haryana, Uttarakhand, UP and Rajasthan) Likewise, varieties amenable to vegetative propagation by "stem-cuttings" with early sprouting habit will be evolved for cold / snowy or little-snowing areas of HP, Uttarakhand and Jammu & Kashmir. Hence, superior F1 hybrids with higher and efficient rooting and productivity with wider / specific adaptability will be released as variety/varieties. 1. Varieties with uniform superiority over all targeted environments'/conditions. 2. Varieties with relatively better performance in poor environments/conditions. 3.Varieties with relatively better performance in favoured environments/conditions.	
11.	<a href="#">AIB-3609 Development of sustainable bivoltine silkworm foundation crosses suitable to temperate region of Jammu &amp; Kashmir.</a>	Bharat Kumar	2017-2020	Development of sustainable bivoltine silkworm foundation crosses for enhancement of cocoon production at commercial level in temperate region.	29.0	1. After successful implementation of project, sustainable bivoltine foundation crosses will be identified for the development of bivoltine silkworm double hybrids suitable to the	AIB-3609 View

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						temperate region of Jammu and Kashmir.  2. To enhance the cocoon yield in temperate region of the Kashmir valley. There will be need/utilize of such sustainable double hybrid to the farmers for commercialization.	
12.	<b>AIT-3558</b> To conduct multi locational field trials on transgenic BmNPV resistant silkworm strains to establish their efficacy and generate data for their regulatory approval. <b>(In collaboration With APSSRDI, Hindupur)</b>	Bharat Kumar	2015-2017	To conduct of multi-locational trails to establish efficacy of the BmNPV resistant silkworm strains across the major silk producing areas	Total Project Budget for CSB <b>90.0 Lakh (7.18 Lakh 1<sup>st</sup> installment</b> for Pampore.	Identification of BMnpv tolerant transgenic silkworm hybrids for temperate climatic conditions.	<a href="#">AIT-3558 (View)</a>
13.	<b>AIB -3510</b> Improvement of silkworm <i>Bombyx mori</i> L for sustainable bivoltine cocoon crop in North West India.	Babu Lal	2014-2018	To evolve new bivoltine breeds with high survival and high silk content to suit to North West Indian conditions.	21.46	The aim of the proposed study to evolve the most promising genotype/ hybrids of <i>Bombyx mori</i> L and to identify productive double hybrid for enhancing cocoon yield of the farmers qualitatively and quantitatively for better returns is very much relevant to current problem of the industry as presently utilized breeds/hybrids are nor performing well in the field. The expected outcome of the study is to increase quality cocoon yield to the level of 50-60	<a href="#">AIB -3510 (View)</a>



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						kg/100 DFLs against present level 30-40 kg/100 DFLs at farmer's level.	
14.	<b>AIE -3056</b> Maintenance of silkworm germplasm	Babu Lal	Continuous	Evaluation, characterization and maintenance of germplasm of bivoltine races of different origin.	-	Maintenance of silkworm Gemplasm for its utilization in various breeding programmes under temperature conditions .	<a href="#">AIE -3056 (View)</a>
15.	<b>AIE -3202</b> Maintenance of silkworm Breeders' stock.	S. Chouhan	Continuous	Maintenance of silkworm breeders' stock races to their original characteristics and to make supply to P3 layings for further utilization	-	Maintenance of silkworm breeders stock for its utilization in various breeding programmes under temperature conditions.	<a href="#">AIE -3202 (View)</a>
16.	<b>PIB -3212</b> Maintenance and characterization of mulberry genepool	V. B. Srivastava	Continuous	To evaluate the mulberry cultivars for their performance ability.	-	Maintenance and characterization of mulberry genepool for its utilization in breeding programmes under sub-tropical conditions	<a href="#">PIB -3212 (View)</a>
17.	<b>AIB -2016</b> Maintenance and evaluation of silkworm germplasm.	Pankaj Tewary	Continuous	<ol style="list-style-type: none"> <li>1. To maintain the basic gene pool material for future utilization in breeding projects. To serve as basic material for development of region and season specific hybrids for different eco-zones.</li> <li>2. To maintain the basic gene pool material for preparation of hybrids for MSRAP and New Hybrid Testing Programmes.</li> </ol>	-	Maintenance and evaluation of silkworm Gemplasm for its utilization in various breeding programmes under sub-tropical conditons.	<a href="#">AIB -2016 (View)</a>

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				3. To maintain active basic stock developed at this station.			
18.	<b>PIB-Pam 1</b> Acquisition, Conservation, Characterization and Utilization of mulberry germplasm under temperate conditions	Aftab A. Shabnam	1999-Cont.	1. Collection of diverse genetic stocks. 2. Conservation and evaluation. 3. Consequent documentation. 4. Utilization in varied breeding programmes.	-	Enriching the gene pool with varied genotypes collected from various survey programmes.  Utilization of varieties conserved in the germplasm bank shall lead to evolution of new region specific mulberry varieties.  Complete catalogue on the characterization of temperate mulberry germplasm based on morphological, metric, biochemical, floral, anatomical, cytological and molecular traits shall be developed.	<a href="#">PIB-Pam 1 (View)</a>
19.	<b>SS Pam -01</b> Nutrient analysis of soils & mulberry under temperate conditions.	M. A. Ravindra	2012-Cont.	1. Evaluation of soil health status at CSR&TI Pampore and nested units. 2. Biochemical analysis of mulberry varieties.	-	Status of available macro & micro nutrients in soils will be known.	<a href="#">SS Pam -01 (View)</a>
20.	<b>AIE Pam-17</b> Evaluation & Characterization of silkworm germplasm under sub-tropical conditions of Jammu & Kashmir.	M. K. Tayal	2014-Cont.	Evaluation and Characterization of silkworm germplasm under sub-tropical conditions of J&K.	-	Maintenance of Germplasm bank.	
21.	<b>SS PAM 19</b> Soil test based fertilizer	R. C. Kimothi	Continuous	Analysis of soil properties and nutrients level and		Analysis of soil properties and nutrients level of tested samples would be	

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	recommendation in mulberry cultivation at CDC/CRC & REC level functioning in Uttarakhand & Uttar Pradesh state.			preparation of soil health profile. To recommend appropriate doze of fertilizer for the improvement of soil health & leaf yield.		ascertained	