



**RESULTS FRAMEWORK DOCUMENTS (RFD)**  
**(2018 – 19)**  
**QUARTERLY PROGRESS REPORT: EXPLANATORY NOTES**  
**3<sup>rd</sup> QUARTER, 2018-19; (OCTOBER TO DECEMBER, 2018)**



**Central Sericultural Research & Training Institute**  
**Central Silk Board**  
Ministry of Textiles; Govt. of India  
Berhampore, Murshidabad, West Bengal

**<04.01.2019>**

**Section-2 Inter se priorities among key objectives, success indicators and Targets**

Column-I		Column-II		Column-III		Column-IV	Column-V		Column-VI					Column-VII	
	Objectives	Wt.	#	Actions	#	Success Indicator	Unit	Rel. Wt.	Target/ Criteria Value					Achievt. during 3rd Qtr.	Achievt. upto 3rd Qtr.
									Excellent	Very Good	Good	Fair	Poor		
									100%	90%	80%	70%	60%		
1	Conduct scientific, technical and economic research to enhance production, productivity and quality of Indian silk.	15	1	Undertaking Research projects to enhance quality and productivity. (Research Projects-coded by CO)	i	Total on- going Projects	No.	2	18	16	14	12	10	26	26
					ii	Projects Concluded	No.	2	8	7	6	5	4	4	8
					iii	New Projects taken up	No.	2	7	6	5	4	3	0	3
					iv	New Projects taken up at RSRS's	No.	2	2	2	1	1	1	1	1
					v	No of Technologies / innovations developed / likely to be developed out of concluded projects.	No.	2	2	2	1	1	1	2	2
					vi	New Technologies for field testing	No.	2	2	2	1	1	1	1	1
			2	Mechanization of sericulture industry	i	Equipment/ machines newly developed for sericulture mechanisation	No.	1.5	1	1	0	0	0	0	0
					ii	Machines / equipment absorbed in the field	No.	1.5	1	1	0	0	0	0	0
2	Commerciali-zation of products and Technologies	3	3	Sericulture technologies including chemical taken up for commercialisation /patenting	i	Technologies commercialised.	No.	1.5	1	1	0	0	0	0	0
					ii	Technologies applied for patenting	No.	1.5	1	1	0	0	0	0	0
3	IT Initiatives	12	4	Development of data base and technology under IT initiatives	i	No. of farmers database created for m-Kisan Portal	Number	2	1000	900	800	700	600	732	1249
					ii	No. of Messages up-loaded in M-Kisan Portal	No	1	80	70	60	50	40	19	74
					iii	Up-loading of data in " Seri-5k" Portaal	Farmer (No.)	2	2000	1800	1600	1400	1200	1189	3615
					iv	No. of Research Projects uploaded for E-Monitoring	Nos	2	12	10	8	6	4	4	7
					v	Digitized Soil Health Card	Nos	3	7000	6300	5600	4900	4200	2168	7729
					vi	Preparation of Technology adoption document/ Video	Nos	2	5	4	4	3	3	0	5
					vii	Digitizationof Payments	%	2	100	90	80	70	60	100	100
		8	5	Implementation of DBT	i	% of implementation of Direct Benefit Transfer(DBT)	%	4	100	90	80	70	60	100	100
					ii	Submission of DBT Annexures 1&4	%	4	100	90	80	70	60	100	100

	Objectives	Wt.	#	Actions	#	Success Indicator	Unit	Rel. Wt.	Target/ Criteria Value					Achievt. during 3rd Qtr.	Achievt. upto 3rd Qtr.
									Excellent	Very Good	Good	Fair	Poor		
									100%	90%	80%	70%	60%		
4	Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building	30	6	Interventions through main Institutes level	i	Number of Seri-model Village identified	Number	2	15	14	13	12	11	15	15
					ii	No. of farmers adopted	No	2	1200	1100	1000	900	800	1210	1210
					iii	Expected rawsilk Output	MT	1	40.0	36.0	32.0	28.0	24.0	12.31	28.578
			7	Large scale trial of L14 X S8 & other ICB breeds	i	No. of dfils proposed for large scale trial	Lakh Nos.	2	0.50	0.45	0.40	0.35	0.30	0.1038	0.50
			8	Interventions through RSRs/ REC level	i	Number of CPP Clusters	Number	2	15	14	13	12	11	15	15
					ii	No of farmers covered	No.	1	2500	2250	2000	1800	1600	5566	5566
					iii	Rawsilk Output	MT	1	80	72	64	56	48	68.82	161.4
			9	New plantation with improved varieties	i	Popularisation of C2028 , C2038 and S1635 varieties	acres	2	80	72	64	56	42	38.33	71.33
			10	Organisation of Swachha Resham Gram	i	No of villages covered	No	2	1	1	0	0	0	1	1
					ii	Adoption of villages	%	2	98	90	80	70	60	90%	90%
			11	100 % Adoption of Technologies amongst different stake holders	i	Number of farmers covers under 100% adoption of technology	Number	2	1500	1350	1200	1050	900	50	1540
			12	Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.	i	No of programmes conducted	No	1	210	180	160	140	120	66	139
					ii	No of farmers covered	No	1	9500	8200	7300	6400	5500	2811	5461
					iii	Post programme follow up	%	1	90	80	70	60	50	90%	90%
					iv	Participation in Radio Programm	No	1	12	11	10	9	8	3	4
					v	Participation in TV Programm	No	1	6	5	4	3	2	1	6
					vi	No of success stories submitted for publication under various aspects	Number	1	6	5	4	3	2	0	2
					vii	Number of papers / popular articles published like Indian Silk Magazine	Number	3	10	9	8	7	6	1	4
					viii	Video of International quality on all the popular technologies developed by Institute	Number	1	3	2	1	1	1	0	0
			13	Skill Development		Beneficiaries trained under structured programmes, need based programme etc.	No	1	400	360	320	280	240	93	440

	Objectives	Wt.	#	Actions	#	Success Indicator	Unit	Rel. Wt.	Target/ Criteria Value					Achievt. during 3rd Qtr.	Achievt. upto 3rd Qtr.
									Excellent	Very Good	Good	Fair	Poor		
									100%	90%	80%	70%	60%		
5	Revenue Generation	4	14	Generation of funds as per XII Plan guidelines	i	Revenue generation through commercialisation of Technology	Rs. In lakh	2	0.40	0.36	0.32	0.28	0.24	0	0
					ii	Revenue generation through other methods	Rs.in lakh	2	20	18	16	14	12	5.92	10.95
6	Strengthening institutional framework to support ongoing research and related programmes	8	15	Utilization of existing land holdings		Effective utilization of cultivable land for assigned mandates	Acres	1	32	31	29	28	27	32	32
			16	Utilization of service buildings (laboratory, rearing house, staff quarters, hostels, guest		Extent of utilization of facilities for the core purpose of assigned mandates	%	1	98	90	80	70	60	98%	98%
			17	Optimum utilization of manpower		Utilization of scientific manpower for research activities	%	1	98	90	85	80	75	98%	98%
			18	Effective Monitoring of Civil Works	i	Monitoring of progress of construction works at Institute & sub-units	%	1	98	90	85	80	75	98%	98%
					ii	Submission of Ucs	%	1	100	90	85	80	75	98%	98%
			19	Utilisation of Grants	i	Financial Expenditure as per allotment	Rs. In Crore	1	43.29	39.00	34.60	30.00	26.00	10.32	27.98
					ii	Submission of Ucs	Rs. In Crore	2	100%	90%	80%	70%	60%	90%	90%
7	Collaborative Research Programmes with other R&D organizations in India and abroad	1	20	Identifying potential R&D institutes in India and abroad and undertake collaborative research programmes for the benefit of both the countries.	i	Projects taken up for collaborative research	No.	1	1	1	1	1	1	0	0
Mandatory Success Indicators															
8	Efficient functioning of RFD system	2	21	Timely submission of draft RFD for 2018-19	i	On time submission	Date	1	6.5.2018	8.5.2018	10.5.2018	12.5.2018	14.5.2018	8.5.18	8.5.18
			22	Timely submission of results of 2018-19	i	On time submission	Date	1	1st Qt - 4/7/18 2nd Qt-4/10/18 3rd Qt- 4/1/19 4th Qt- 4/4/19	1st Qt 5/7/18 2nd Qt 5/10/18 3rd Qt 5/1/19 4th Qt 5/4/19	1st Qt 6/7/18 2nd Qt 6/10/18 3rd Qt 6/1/19 4th Qt- 6/4/19	1st Qt 7/7/18 2nd Qt 7/10/18 3rd Qt 7/1/19 4th Qt 7/4/19	1st Qt 8/7/18, 2nd Qt 8/10/18 3rd Qt 8/1/19, 4th Qt- 8/4/19	1st Qt -4/7/18, 2nd qtr.,4/10/18, 3rd Qtr., 4/1/19	1st Qt -4/7/18, 2nd qtr.,4/10/18, 3rd Qtr.,4/1/19

	Objectives	Wt.	#	Actions	#	Success Indicator	Unit	Rel. Wt.	Target/ Criteria Value					Achievt. during 3rd Qtr.	Achievt. upto 3rd Qtr.
									Excellent	Very Good	Good	Fair	Poor		
									100%	90%	80%	70%	60%		
9	Administrative Reform	11	23	Implement mitigating strategies for reducing potential risk of corruption	i	% of implementation	%	1	98	90	80	70	60	98%	98%
			24	Implementation of Rajbhasha		% of implementation	%	1	100	90	80	70	60	100%	100%
			25	Swachha Bharat Abhiyan		% of implementation	%	2	98	90	80	70	60	98%	98%
			26	Submission of Annual Accounts to CSB		date of submission of Annual Accounts to CO	date	1	2, May	I week, May	II week, May	III week, May	IV week, May	27.04.18	27.04.18
			27	Recovery of DCB arrears	i	Amount of DCB arrears outstanding as on 31/03/2018	Rs.in Lakh	1	0.00	<1	<2	<4	<8	0	0
					ii	DCB Arrears recovered	%	3	100	90	80	70	60	100	100
			28	Biometric Attendance	i	Units functioning under the Institute	Nos	1	17	16	15	14	13	14	14
					ii	Units covered under Biometric attendance	%	1	98	90	80	70	60	100%	100%
10	Improving internal efficiency / responsiveness / service delivery of the organization	2	29	Implementation of Sevottam	i	Independent audit of implementation of Citizen's charter	%	1	98	90	80	70	60	100%	100%
					ii	Independent audit of implementation of public grievances redressal system.	%	1	98	90	80	70	60	100%	100%
11	Ensuring compliance of the Financial Accountability Framework	2.0	30	Timely submission of ATNs on Audit paras of AG & Internal Audit	i	Percentage of ATNs submitted with in due date ( 4 months ) from date of presentation of report	%	0.5	98	90	80	70	60	100%	100%
			31	Timely submission of ATRs to AG & CSB, HQ.	i	Percentage of ATRs submitted within due date (6 months ) from date of presentation of report	%	0.5	98	90	80	70	60	100%	100%
			32	Early disposal of pending ATNs on Audit paras of AG reports.	i	Percentage of outstanding ATNs disposed off during the year	%	0.5	98	90	80	70	60	90%	90%
			33	Early disposal of pending ATRs on AG reports.	i	Percentage of outstanding ATRs disposed off during the year	%	0.5	98	90	80	70	60	90%	90%

**RESULTS FRAMEWORK DOCUMENTS (RFD) OF CSR&TI, BERHAMPORE, WEST BENGAL  
FOR THE YEAR 2018-19 (3<sup>rd</sup> Quarter: OCTOBER TO DECEMBER, 2018)**

#	Objective	#	Actions	#	Success Indicator	Annual Target	Achievmt. upto 3 <sup>rd</sup> Quarter	Explanatory Note
1	To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.	1	Undertaking Research projects to enhance quality and productivity. (Research Projects-coded by CO)	i	Total on- going Projects	16	26	ANNEXURE – I, II, III & IV
				ii	Projects Concluded	8	8	
				iii	New Projects taken up	7	3	
				iv	New Projects taken up at RSRS's	2	1	
				v	No of Technologies/ innovations developed	2	2	ANNEXURE – V & VI
				vi	New Technologies for field testing	1	1	
		2	Mechanization of sericulture industry.	i	Equipment/ machines newly developed for sericulture mechanization	1	0	ANNEXURE –VII
				ii	Machines / equipment absorbed in the field	1	0	ANNEXURE –VIII
2	Commercialization of products and Technologies	3	Sericulture technologies including chemical taken up for commercialization / patenting	i	Technologies commercialized	1	0	ANNEXURE –IX
				ii	Technologies applied for patenting	1	0	ANNEXURE –X
3.	IT Initiatives	4.	Development of data base and technology under IT initiatives	i	No. of Farmers database created for m-Kisan Portal	900	1249	ANNEXURE –XI
				ii	No. of Messages up-loaded in M-Kisan Portaal	70	74	ANNEXURE –XII
				iii	Up-loading of data in " Seri-5k" Portal	1800	3615	ANNEXURE –XIII
				iv	No. of Research Projects uploaded for E-Monitoring	10	7	ANNEXURE –XIV
				v	Digitization of Soil Health Records	6300	7729	ANNEXURE –XV
				vi	Preparation of Technology adoption document/ Video	4	5	ANNEXURE –XVI
				vii	Digitization of payments	100%	100%	ANNEXURE –XVII
		5	Implementation of DBT	i	% of implementation of Direct Benefit Transfer(DBT)	90%	100%	ANNEXURE –XVIII
				ii	Submission of DBT Annexures 1&4	90%	100%	ANNEXURE –XIX

#	Objective	#	Actions	#	Success Indicator	Annual Target	Achievmt. upto 3 <sup>rd</sup> Quarter	Explanatory Note
4.	Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building	6	Intervention through Main Institutes level	i	No. of Seri model villages identified	14	15	ANNEXURE –XX
				ii	No. of farmers adopted	1200	1210	ANNEXURE –XXI
				iii	Expected raw silk output (MT)	40	28.578	ANNEXURE –XXII
		7	Large scale trial of L14 x CSR2 & other [M6DPCx D6PN x SK4C] ICB breeds	i	No. of dfls proposed for large scale trial (Lakh)	0.45	0.50	ANNEXURE –XXIII
		8	Interventions through RSRs/ REC level	i	No of Blocks/ Districts adopted	14	15	ANNEXURE –XXIV
				ii	No of farmers covered	2500	5566	ANNEXURE –XXV
				iii	Raw silk Output (MT)	80	161.40	ANNEXURE –XXVI
		9	New plantation with improved varieties	i	Popularisation of C2028 , C2038 and S1635 varieties	72	71.33	ANNEXURE –XXVII
		10	Organisation of Swachha Resham Gram	i	No of villages covered	1	1	ANNEXURE –XXVIII
				ii	Adoption of villages (%)	90	90%	ANNEXURE –XXIX
		11	100 % Adoption of Technologies amongst different stake holders	i	Number of farmers covers under 100% adoption of technology	1500	1540	ANNEXURE –XXX
		12	Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.	i	No of programmes conducted	180	139	ANNEXURE –XXXI
				ii	No of farmers covered	8200	5461	ANNEXURE –XXXII
				iii	Post programme follow up	80%	90%	ANNEXURE –XXXIII
				iv	Participation in Radio Program.	11	4	ANNEXURE –XXXIV
				v	Participation in TV Program.	5	6	ANNEXURE –XXXV
				vi	No of Success stories submitted for publication under various aspects	5	2	ANNEXURE –XXXVI
				vii	Number of papers / popular articles published like Indian Silk Magazine	9	4	ANNEXURE –XXXVII
				viii	Video of International quality on all the popular technologies developed by Institute	2	0	ANNEXURE –XXXVIII
		13	Skill Development	i	Beneficiaries trained under structured programmes, need based programme etc.	400	440	ANNEXURE –XXXIX

#	Objective	#	Actions	#	Success Indicator	Annual Target	Achievmt. upto 3 <sup>rd</sup> Quarter	Explanatory Note
5	Revenue Generation	14	Generation of funds as per XII Plan guidelines	i	Revenue generation through commercialisation of Technology	0.40	0	ANNEXURE –XXXX
				ii	Revenue generation through other methods (Lakh)	20	10.95	ANNEXURE –XXXXI
6	Strengthening institutional framework to support ongoing research and related programmes	15	Utilization of existing land holdings	i	Effective utilization of cultivable land for assigned mandates	32	32	ANNEXURE –XXXXII
		16	Utilization of service buildings (laboratory, rearing house, staff quarters, hostels, guest house, etc.)	i	Extent of utilization of facilities for the core purpose of assigned mandates	98%	98%	ANNEXURE –XXXXIII
		17	Optimum utilization of manpower	i	Utilization of scientific manpower for research activities	98%	98%	ANNEXURE –XXXXIV
		18	Effective Monitoring of Civil Works	i	Monitoring of progress of construction works at Institute & sub-units	98%	98%	ANNEXURE –XXXXV
				ii	Submission of Ucs	98%	98%	ANNEXURE –XXXXVI
		19	Utilization of Grants	i	Financial Expenditure as per allotment	43.29	27.98	ANNEXURE –XXXXVII
				ii	Submission of Ucs	90%	90%	
7	Collaborative Research Programmes with other R&D organizations in India and abroad	20	Identifying potential R&D institutes in India and abroad and undertakes collaborative research programmes for the benefit of both the countries.	i	Projects taken up for collaborative research	1	0	ANNEXURE –XXXXVIII
<b>Mandatory Success Indicators</b>								
8	Efficient functioning of RFD system	21	Timely submission of draft RFD for 2018-19	i	On time submission	8 <sup>th</sup> May, 2018	8 <sup>th</sup> May, 2018	ANNEXURE –XXXXIX
		22	Timely submission of results of 2018-19	ii	On time submission	05.07.2018 (1 <sup>st</sup> Qtr. 04.10.2018(2 <sup>nd</sup> Qtr. 04.01.2019(3 <sup>rd</sup> Qtr.) 03.04.2019 (4 <sup>th</sup> Qtr.	04.07.18 (1 <sup>st</sup> Qtr.) 4.10.18 (2 <sup>nd</sup> Qtr.) 4. 01.19 (3 <sup>rd</sup> Qtr.)	



#	Objective	#	Actions	#	Success Indicator	Annual Target	Achievmt. upto 3 <sup>rd</sup> Quarter	Explanatory Note
9	<b>Administrative Reform</b>	23	Implement mitigating strategies for reducing potential risk of corruption	i	% of implementation	98%	98%	<b>ANNEXURE –L</b>
		24	Implementation of Rajbhasha	i	% of implementation	100%	100%	<b>ANNEXURE –LI</b>
		25	Swachha Bharat Abhiyan	i	% of implementation	98%	98%	<b>ANNEXURE –LII</b>
		26	Submission of Annual Accounts to CSB	i	date of submission of Annual Accounts to CO	May, 1 <sup>st</sup> , 2018	27.04.2018	<b>ANNEXURE –LIII</b>
		27	Recovery of DCB arrears	i	Amount of DCB arrears outstanding as on 31/03/2018	Rs.in Lakh	0	<b>ANNEXURE –LIV</b>
				ii	DCB Arrears recovered	%	100%	
		28	Biometric Attendance	i	Units functioning under the Institute	14	14	<b>ANNEXURE – LV</b>
				ii	Units covered under Biometric attendance	100%	100%	
10	<b>Improving internal efficiency/ responsiveness / service delivery of the organization</b>	29	Implementation of Sevottam	i	Independent audit of implementation of Citizen's charter	100%	100%	<b>ANNEXURE – LVI</b>
				ii	Independent audit of implementation of public grievances redressal system.	100%	100%	
11	<b>Ensuring compliance of the Financial Accountability Framework</b>	30	Timely submission of ATNs on Audit paras of AG & Internal Audit	i	Percentage of ATNs submitted with in due date (4 months) from date of presentation of report	100%	100%	<b>ANNEXURE –LVII</b>
		31	Timely submission of ATRs to AG & CSB, HQ.	i	% of ATRs submitted within due date (6 months ) from date of presentation report	100%	100%	<b>ANNEXURE –LVIII</b>
		32	Early disposal of pending ATNs on Audit paras of AG reports.	i	Percentage of outstanding ATNs disposed off during the year	90%	90%	<b>ANNEXURE –LIX</b>
		33	Early disposal of pending ATRs on AG reports.	i	Percentage of outstanding ATRs disposed off during the year	90%	90%	<b>ANNEXURE –LX</b>

## ANNEXURE – I

**1. To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.**

### 1.1. Research Projects-Coded by C.O

**Success indicator-i: On-going research projects/ prog. of CSR&TI, Berhampore for the year 2018-19: 35 Nos.**

**(Carried forward from 2017-18)**

**Total: Projects - 35 Nos. (26 Projects + 9 Prog.)**

Sl. No.	Code	Title	PI of the Project	CI(s) of the project
1.	PIB 3505	Development of drought tolerant mulberry variety for rainfed sericulture. (Jan., 2014 to Dec., 2019). [Collaborative project with CSGRC, Hosur]	Suresh, K. Sci-B	D. Chakravarty, A. Pappachan, K. Jhansi Lakshmi and M. M. Borpuzari
2.	PIC 3554	Candidate gen based molecular marker(s) for screening promising recombinants in mulberry. (Jan., 2016 to Dec., 2018).	Suresh, K., Sci-B	S. Chattopadhyay, Pooja Makwana and V Vijay
3.	PIB 3576	Evaluation of new mulberry genotypes for improvement in productivity and quality. (June, 2016 to July, 2020).	Suresh, K., Sci-B	G.S. Singh, K.C. Brahma and S.N. Gogoi
4.	PIB 3610	Preliminary evaluation of newly evolved mulberry genotypes for mulberry improvement. (June, 2017 to May 2020).	Suresh K, Sci-B,	D. Chakravarty, D. Das and Anil Pappachan
5.	PPS 3600	Soil health card preparation for mulberry growing soils in Eastern and North-Eastern India. (Nov., 2016 to Oct., 2019).	D. Chakravarty, Sci-D	V. Vijay, R. Mahesh, A. Pappachan, Suresh K. and in-charges of RSRs and RECs.,
6.	PPF 3585	Application of growing degree days as a model driver for developing mulberry yield weather model. (Oct., 2016 to Dec., 2018).	R. Mahesh, Sci-B	Manjunath, G.R. and Anil Pappachan
7.	PPA 3588	Evaluation of low-cost drip fertigation systems on yield and quality of mulberry leaves. (Oct., 2016 to March., 2019).	R. Mahesh, Sci-B	A. Vijay and Anil Pappachan
8.	PPS 3598	Arsenic contamination in mulberry sericulture of Bengal Plain and its alleviation through application of zinc in soil. (Nov., 2016 to Oct., 2019). [As per RAC recommendation concluded on August, 2018]	V. Vijay, Sci-B	R. Kar, R. Mahesh and G.C. Das
9.	PPA 3560	Studies on high bush and tree type mulberry plantation under rainfed condition of Odisha. (April, 2014 to March, 2019).	S.K. Misro, Sci-C	RSRS, KPT
10.	PIB 3548	Evaluation of bacterial leaf spot resistant improved progenies of mulberry for field utilization. (Jan., 2016 to Dec., 2018).	S. Chattopadhyay, Sci-D	Pooja Makwana, Sci-B

Sl. No.	Code	Title	PI of the Project	CI(s) of the project
11.	PRE 3589	Assessment of designed antimicrobial peptides for mulberry protection against brown leaf spot and root rot: a biotechnological approach. <b>(Oct., 2016 to Sept., 2019).</b>	S. Chattopadhyay, Sci-D	Pooja Makwana, Sci-B
12.	AIB 3602	Development of thermotolerant bivoltine breeds/ hybrids of silkworm, Bombyx mori through marker assisted selection. <b>(Nov., 2016 to April, 2021).</b>	N.Chandrakanth, Sci-B	A.K.Verma, Sci-D V.Lakshmanan, Sci-D N.B.Kar, Sci-D
13.	AIB 3577	Evaluation of multivoltine germplasm to identify potential parents for developing cross breeds suitable for Southern and Eastern India. <b>(April, 2016 to Sept., 2019).</b> [Collab.with CSGRC, Hosur].	G. C. Das and N.Chandrakanth (CSRTI, Berhampore)	N. Balachandran, M. Muthulakshmi, G. Thanavendan and S. Nivedita (CSGRC, Hosur),
14.	AIB 3578	Evaluation of exotic bivoltine silkworm breeds to identify promising parental genetic resources. <b>(June, 2016 to Sept., 2019).</b>	G. C. Das and A. K. Verma (CSRTI, Berhampore),	M. Muthulakshmi, V. Gowda, Anuradha H. Jingade and S. Nivedita (CSGRC, Hosur)
15.	ARP 3522	Isolation, cloning and characterization of antibacterial protein(s) from Bombyx mori L. <b>(May, 2015 to June, 2018).</b> (Collab. with SBRL, Kodathi, Bangalore).	K.Rahul, Sci-B	G. Ravikumar, SBRL, Kodathi and Gourab Roy (JRF)
16.	ARP 3590	Studies on the efficacy of phototrophic bacterial extracts as feed supplement for management of diseases in silkworm, Bombyx mori L. <b>(Oct., 2016 to Sept., 2019).</b>	K.Rahul, Sci-B	-
17.	MTS-3599	Study on mulberry sericulture production in West Bengal: a statistical approach. <b>(Nov., 2016 to April, 2018).</b>	G. R. Manjunatha, Sci-B	Shafi Afroz, S.Chanda, D. Pandit and T. Datta (Biswas)
18.	MOT-3601	Skill Gap Analysis and Capacity development of Sericulture Extension Workers and Farmers in Traditional and Non Traditional States. <b>(Nov., 2016 to April, 2018).</b>	Shafi Afroz, Sci-B	S. Chanda, D. Pandit, B. C. Ray and G. R. Manjunatha
19.	MOE 3604	Yield gap analysis in mulberry leaf and cocoon production - A study in Eastern ghat highland zones of Odisha. <b>(Dec., 2016 to Nov., 2018).</b>	K.C Brahma (upto 31.05.18), S.K Misro, Sci-C	RSRS, Koraput
20.	ARP 3605	Validation of the DNA makers in silkworm breed developed by introgression of DNA markers associated with NPV resistance using Marker Assisted Selection breeding and large scale field trial of the breed. <b>(April, 2017 to March, 2020).</b> (DBT funded Collaborative Project with SBRL).	G.C. Das, Sci-D	N.Chandrakanth, Sci-B
21	AIB 3614	Evaluation and identification of suitable productive bivoltine hybrids for Odisha. <b>(Oct., 2017 to Nov., 2019).</b>	K.C.Brahma (upto 31.05.18), S.K.Misro, Sci-C	RSRS, Koraput

Sl. No.	Code	Title	PI of the Project	CI(s) of the project
22.	AIB 3616	On farm trial of the multivoltine silkworm breeds/ hybrids developed for high shell percentage and neatness of silk filament. <b>(Sept., 2017 to Dec., 2019).</b>	A.K. Verma, Sci-D	N. Chandrakanth, Sci-B; N.B. Kar, Sci-D G. Singh, S.K. Mishro U.C. Barua, EO (DOS), Msd., Malda, Nadia & Birbhum
23.	AIB 3617	Identification of region specific bivoltine hybrids suitable for highly fluctuating and seasonally variable climatic conditions of eastern and North-Eastern India. <b>(April, 2017 to March, 2020).</b>	V. Lakshmanan, Sci-D	N. Chandrakanth, Sc-B; N.B. Kar, R. Kar, Sc-D, S. Mishro, Sc-C, U.C. Bourah, Sc-D, Ganashyam Singh, Sc-D and RZ Collin, Sc-D.
24.	AIB 3619	Development of silkworm ( <i>Bombyx mori</i> L.) congenic breeds from a gene pool with higher genetic plasticity. <b>(July, 2017 to June, 2020).</b>	A.K. Verma, Sci-D	N. Chandrakanth, Sci-B N.B. Kar, Sci-D
25.	PPA 3622	Popularization of high bush mulberry plantation techniques in Majuli, river island of the Brahmaputra, Assam. <b>(Sept., 2017 to Aug., 2020).</b>	M. Pamegham, Sci-C	RSRS, Jorhat:
26.	PPA 3613	Studies on drum- kit drip irrigation with hydrogel on yield and water use efficiency of mulberry. <b>(Dec., 2017 to Nov., 2019).</b> Extended for one year vide CO letter No. extended up to Nov., 2020 [vide ltr. No. CSB-31/2 (BER-NP)/2017-18/RCS dated 12/10/2018]	S.K. Misro, Sci-C	RSRS, Koraput

**Programmes: 9 Nos.**

Sl. No.	CODE	TITLE	PI of the Project	Co-Is of the project
27.	BPI (P) 025	Maintenance of mulberry germplasm bank at CSR&TI, Berhampore (W.B.). <b>(Jan., 2014 to Dec., 2019).</b>	D. Chakravarty Sci.-D	Suresh K. and A. Pappachan
28.	BAI (RP) 003	Maintenance of Multivoltine and Bivoltine Germplasm. (Continuous)	A.K. Verma, Sci-D V. Lakshmanan, Sci-D	N. Chandrakanth, Sci-B N. B. Kar, Sci.-D
29.	BAI (RP) 021	Silkworm disease monitoring of seed and commercial crop rearing of West Bengal (SDMSCC) [A collab. Prog. ZSSO, Malda & DoT (Seri), W.B.] <b>(April, 2016 to March, 2019).</b>	Zakir Hossain, Sci-D	V. Lakshmanan, C. Maji, S. Chanda, D. Pandit, D. Chakrabarty, G.C Das, S. Sarkar, . K. Rahul, <i>Incharges, RSRSs, RECs, Seri. State Dept.</i>
30.	B-KPG (RP) 017	Maintenance of Bivoltine silkworm Germ Plasm. <b>(April, 2015 to March, 2020).</b>	Z. Hossain, Sci-D	RSRS, Kalimpong
31.	BPR (RP) 022	Survey and surveillance of mulberry pest in Eastern and North-Eastern region of India. <b>(June, 2016 to May, 2021).</b>	S. Chanda, Sci-D	Manjunatha G R and 1 scientist all RSRSs and RECs.

Sl. No.	Code	Title	PI of the Project	CI (s) of the project
32.	B-MOE (P) 043	Seri Model Village	T. Dutta Biswas, Sci-D	Incharges, RSRs, RECs,
33.	B-MOE (P) 044	Adarsha Resham Gram-Mallickpur-Diara village.	N. Chandra-kantha Sci-B	Shafi Afroz and T. Dutta Biswas
34.	B-PRP (P) -045	Forewarning of mulberry diseases of Eastern and North Eastern India. (Jan., 2018 to Dec., 2020).	A.Pappachan, Sci-B	Anil Pappachan, Manjunatha, G.R
35.	B-JRH-PRP (P) -046	Studies on mulberry germplasm in agro-climatic condition in North East State, Assam. (Sept., 2017 to Aug., 2020).	Mina Pamegham, Sci-C	RSRS, Jorhat: Incharge of three RSRs and RECs

## ANNEXURE – II

### **Success indicator -ii: Projects Concluded: 8 Nos. (Upto 3<sup>rd</sup> Qtr.,2018-19)**

Sl. No.	Code	Title	PI of the Project	CI (s) of the project
<b>During 1<sup>st</sup> Qtr. : April to June, 2018 : Project -3 Nos.</b>				
1.	MOT-3601	Skill Gap Analysis and Capacity development of Sericulture Extension Workers and Farmers in Traditional and Non Traditional States. (Nov., 2016 to April, 2018).	Shafi Afroz, Sci-B	S.Chanda, D. Pandit, B. C. Ray and G. R. Manjunatha
2.	MTS-3599	Study on mulberry sericulture production in West Bengal: a statistical approach. (Nov., 2016 to April, 2018).	G. R. Manjunatha, Sci-B	Shafi Afroz, S.Chanda, D. Pandit and T. Datta (Biswas)
3.	ARP-3522	Isolation, cloning and characteri-zation of antibacterial protein (s) from silkworm, <i>Bombyx mori</i> L. (May, 2015 to April, 2018). (A collaborative with SBRL, Kodathi, Bangalore).	K.Rahul, Sci-B	-
<b>During 2<sup>nd</sup> Qtr. : July to Sept., 2018 : Project -1 No.</b>				
4.	PPS -3598	Arsenic contamination in mulberry sericulture of Bengal Plain and its alleviation through application of zinc in soil. (Nov., 2016 to Aug., 2018).	V. Vijay, Sci-B	R. Kar, R. Mahesh and G. C. Das
<b>During 3<sup>rd</sup> Qtr. : October to December, 2018 : Project – 4 Nos.</b>				
5.	MOE 3604	Yield gap analysis in mulberry leaf and cocoon production – A study in Eastern ghat highland zones of Odisha. (Dec., 2016 to Nov., 2018).	K.C Brahma (upto 31.05.18), S.K Misro, Sci-C	RSRS, KPT
6.	PIB 3548	Evaluation of bacterial leaf spot resistant improved progenies of mulberry for field utilization. (Jan., 2016 to Dec., 2018).	S.Chattopadhyay, Sci-D	Pooja Makwana, Sci-B
7.	PIC 3554	Candidate gen based molecular marker(s) for screening promising recombinants in mulberry. (Jan., 2016 to Dec., 2018).	Suresh, K., Sci-B	S. Chatto-padhyay, Pooja Makwana and V Vijay
8.	PPF 3585	Application of growing degree days as a model driver for developing mulberry yield weather model. (Oct., 2016 to Dec., 2018).	R. Mahesh, Sci-B	Manjunath, G.R. and Anil Pappachan

## ANNEXURE – III

**Success indicator-iii: New Projects taken up: 3 Nos. (Upto 3<sup>rd</sup> Qtr.,2018-19).**

#	Code	Title	PI of the Project	CI (s) of the project
<b>INITIATED DURING 1<sup>st</sup> QTR. (April to June, 2018) : Project -2 Nos.</b>				
1.	PIB 3627	Development of superior mulberry ( <i>Morus</i> spp.) genotypes through Polyclonal Seed Orchard. (June 2018 to May 2021).	D.Chakravarty, Sci-D	K. Suresh, Sci-B
2.	ARP 3630	Development of room and silkworm bed disinfectant through screening of potential chemicals. (June 2018 to May 2021).	K. Rahul, Sci-B	-
<b>INITIATED DURING 2<sup>nd</sup> QTR. (July to September, 2018) : Project -1 No.</b>				
3.	PRE02001SI	Management of pink mealy bug <i>Maconellicoccus hirsutus</i> (Green) of Mulberry with barrier system. (July, 2018 to June, 2021).	U.C.Barua, Sci-D	S.N.Gogoi, Sci-D
<b>INITIATED DURING 3<sup>rd</sup> Qtr. : OCTOBER TO DECEMBER, 2018 : NIL</b>				
<b>NIL</b>				

## ANNEXURE – IV

**1. To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.**

**1.1. Research Projects-coded by C.O**

**Success indicator-iv: New Projects taken up at RSRS's: 01 No. (Upto 3<sup>rd</sup> Qtr.,2018-19)**

#	Code	Title	PI of the Project	CI (s) of the project
<b>DURING 1<sup>st</sup> QTR. (APRIL to JUNE, 2018) : NIL</b>				
<b>DURING 2<sup>nd</sup> QTR. (July to September, 2018) : 1 No.</b>				
1.	PRE02001SI	Management of pink mealy bug <i>Maconellicoccus hirsutus</i> (Green) of Mulberry with barrier system. (July, 2018 to June, 2021).	U.C.Barua, Sci-D	S.N.Gogoi, Sci-D

## ANNEXURE – V

1. To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.

### 1.1. Research Projects-coded by C.O

**Success indicator-v:** No of Technologies / innovations developed /likely to be developed out of concluded projects: 2 Nos. (Upto the 3<sup>rd</sup> Qtr., 2018-19).

**From AIB-3545:** Two new hybrids developed: -

- i. One Bivoltine x bivoltine hybrid--**B.Con.1 x B.Con.4**
- ii. One multi x bivoltine hybrid- **M6DPC x (SK6 x SK7)** has been authorized by Hybrid Authorization Committee on 19.02.2018.

## ANNEXURE – VI

1. To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.

### 1.1. Research Projects-coded by C.O

**Success indicator-vi:** New Technologies for field testing: 1 No. (Upto the 3<sup>rd</sup> Qtr., 2018-19).

1. Mass multiplication and maintenance of bio-control agent – *Scymnus pallidicollis* and its popularization at farmers' level

- A. The villages selected for release of *Scymnus pallidicollis* in four districts of W.B. are as follows:

#	Name of the District			
	Malda	Murshidabad	Birbhum	Nadia
1.	Bhikhari Hajitola	Purapara	Bhadrapur	Senpara
2.	Debipur Diara	Bankipur	Akalipur	Harekrishnapur
3.	Pataldanga	Sahebnagar	Hamidpur	Pipulkhola
4.	Sripur,Khanpara	Balashpur	Debagram	Barbakpur
5.	Chhoto Mahadipur	Dangapara	Kanupur	Bethua(Durgapur)

**Note:** From each village five farmers were selected i.e. total 100 farmers were selected.

- B. A training program was organized under ToT : :  
Period: 5 days (1<sup>st</sup> batch: 21.06.18-25.06.18)

#	District	Village	Name of the farmer	Sex	Caste
1.	Nadia	Senpara	Sabita Sarkar	F	G
2.	-Do-	-Do-	Soma Mondal	F	G
3.	-Do-	-Do-	Sunil Kr. Biswas	M	SC
4.	-Do-	-Do-	Mallika Biswas	F	G
5.	-Do-	-Do-	Bharati Biswas	F	G

6.	-Do-	Barbakpur	Shaharior Karikar	M	G
7.	-Do-	-Do-	Sahajan Mondal	M	G
8.	Murshidabad	Balashpur	Chandra Sekhar Mondal	M	SC
9.	-Do-	-Do-	Sujit Mondal	M	SC
10.	-Do-	Bandhpara	Amit Das	M	SC
11.	-Do-	-Do-	Gopal Das	M	SC
12.	Malda	Dakshin Munsia Tola	Md.Taimur Hossain	M	OBC
13.	-Do-	Bhikhari Hajitola	Md. Aliul Hossain	M	G
14.	-Do-	Chhoto Mahadipur	Sudipta Mondal	M	G
15.	-Do-	Sripur,Khanpara	Md. Sher Khan	M	G
16.	Birbhum	Hamidpur	Sadrealam Hossain	M	G
17.	-Do-	-Do-	Obaidur Rahaman	M	OBC
18.	-Do-	-Do-	Haniph Ali	M	OBC
19.	-Do-	-Do-	Osman Ali	M	G
20.	-Do-	Mirjapur	Nibaran Chandra Let	M	SC

### PHOTOGRAPHS

		
Fig.1. Registration is going on	Fig.2. Theory class on <i>Scymnus pallidicollis</i> is under progress	Fig.3. One trainee is being taught about the process of transfer of mealy bug from mulberry to sprouted potato
		
Fig.4 Trainees are doing the practical	Fig.5 Trainees are shown the culture of mealy bug on sweet pumpkin	Fig.6 Trainees are shown the mealy bug eggs collected by them from field under Zeiss microscope
		
Fig.7 Technique of releasing <i>Scymnus pallidicollis</i> into the jar on mealy bug culture are being taught	Fig.8 Post training test is going on	Fig.9 Trainees at Akhrighata farm under DoS,Murshidabad on study tour
		
Fig.10 Interaction of farmers is going on during valedictory session	Fig.11. Prize is given by Dr.(Mrs.) Kanika Trivedy, Director, CSRTI, Berhampore	Fig.12 One trainee is taking certificate from Dr.(Mrs.) Kanika Trivedy,Director



***Scymnus pallidicollis* – A PREDATOR OF MEALY BUG AND RELEASE OF PREDATOR IN MULBERRY FIELD UNDER ToT PROJECT**

1. *Scymnus pallidicollis* is being multiplied at larger scale under laboratory condition.
2. Till Dec., 2018, 6200 predators were produced and 5000 predators were released at 100 farmers' mulberry field in four districts (Malda, Murshidabad, Birbhum and Nadia).
3. Feed back data on impact of training on mass multiplication to the farmers of three districts of W.B. viz. Malda, Murshidabad, and Nadia were obtained. Farmers are doing mealy bug culture in their house.
4. *Scymnus pallidicollis* were given to two farmers each of Malda and Nadia districts for multiplication.



Fig.1. Before release *Scymnus* in homeopathy vials kept in breeding box.

Fig.2. Arrangement for releasing *Scymnus pallidicollis* is going on in farmer's field in Murshidabad

Fig.3. Farmers of Birbhum district is being shown *Scymnus pallidicollis* before release in field.

Fig.4. Farmers of Birbhum district is being shown how to release *Scymnus pallidicollis* in field.

## ANNEXURE – VII

**1. To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.**

**1.2. Mechanization of sericulture industry**

**Success indicator-i. Equipment/machines newly developed for sericulture mechanization: Nil (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

## ANNEXURE – VIII

1. To conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.

1.2. Mechanization of sericulture industry

**Success indicator-ii: Machines/ equipment absorbed in the field: Nil (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

## ANNEXURE – IX

2. Commercialization of products and Technologies

2.3. Sericulture technologies including chemical taken up for commercialisation /patenting

**Success indicator-i. Technologies commercialised : Nil (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

## ANNEXURE–X

2. Commercialization of products and Technologies

2.3. Sericulture technologies including chemical taken up for commercialisation /patenting

**Success indicator-ii. Technologies applied for patenting: Nil (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

## ANNEXURE–XI

3. IT Initiatives

3.4. Development of data base and technology under IT initiatives

**Success indicator-i. Number of Farmers database created for m-Kisan Portal : 1249 farmers (upto 3<sup>rd</sup> Qtr., 2018-19).**

**Number of Farmers database created for m-Kisan Portal: 146 farmers (During 1st Qtr., 2018-19).**

Sl.No.	State	No. of database created
1.	West Bengal	59 farmers
2.	Sikkim	15 farmers
3.	Assam	56 farmers
4.	Arunachal Pradesh	16 farmers
<b>Total====&gt;</b>		<b>146 farmers</b>

**Number of Farmers database created for m-Kisan Portal: 371 farmers (During 2<sup>nd</sup> Qtr., 2018-19).**

Sl.No.	State	No. of database created
1.	West Bengal	31 farmers
2.	Mizoram	264 farmers
3.	Odisha	11 farmers
4.	Jharkhand	65 farmers
<b>Total=====&gt;</b>		<b>371 farmers</b>

**Number of Farmers database created for m-Kisan Portal:732 farmers (During 3<sup>rd</sup> Qtr., 2018-19).**

Sl.No.	State	No. of database created
1	West Bengal	732 farmers
<b>Total=====&gt;</b>		<b>732 farmers</b>

## ANNEXURE-XII

### 3.IT Initiatives

#### 3.4. Development of data base and technology under IT initiatives

**Success indicator-ii. No. of messages up-loaded in M-Kisan Portal: 74 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19)**

**No. of messages up-loaded in M-Kisan Portal: 28 Nos. (During 1st Qtr.,2018-19)**

Sl. No.	Date	Message	Number	Language
1.	5.4.2018	কাসারের সঙ্গে যাতে পলু হারিয়ে না যায় তার জন্য মেটে কলপ এবং দো কলপে কাসার না করে প্রতিদিন সকালে পাতা দেওয়ার আধঘন্টা আগে পালকের পিছন বা চপস্টিক দিয়ে পলুর বেড বাড়ান।	2132	Bengali
2.	6.4.2018	১০ শতাংশ পলু রহাতে গেলে পাতা দেওয়া বন্ধ করুন ও পলুর বেডে প্রতি বর্গফুটে ৩ থেকে ৪ গ্রাম হারে কলিচুন ছড়ান।	2132	Bengali
3.	7.4.2018	১০ শতাংশ পোকা চিয়ানে উঠলে প্রতিবর্গ ফুটে ৩ থেকে ৪ গ্রাম হারে সেরিসিলিন, ল্যাবেক্স বা বিজেতা ছড়িয়ে আধঘন্টা পর নেট দিয়ে পাতা দিন।	2132	Bengali
4.	12.4.2018	তেকলপ থেকে প্রতিদিন নেটের সাহায্যে কাসার করুন এবং পলুর বেড বাড়ান। পলুঘরে সঠিক তাপমাত্রা ও আর্দ্রতা বজায় রাখুন এবং বায়ু চলাচলের ব্যবস্থা করুন।	2132	Bengali
5.	18.4.2018	রোগাক্রান্ত ও মরা পোকা যেখানে সেখানে না ফেলে একটি প্লাস্টিকের গামলায় ৫ % ব্লিচিং পাউডারের দ্রবণের মধ্যে সংগ্রহ করুন এবং পলুঘর থেকে দূরে গর্তের মধ্যে ফেলে মাটি চাপা দিন।	2131	Bengali
6.	19.4.2018	প্রতিদিন নেটের সাহায্যে কাসার করুন এবং পলুর বেড বাড়ান। পলুঘরের তাপমাত্রা ২৪-২৫ ডিগ্রী সেন্টিগ্রেড এবং আর্দ্রতা ৭৫% বজায় রাখুন। পলুঘরে বায়ু চলাচলের ব্যবস্থা করুন।	2131	Bengali
7.	19.4.2018	कीटपालन गृह में प्रवेश करने के पूर्व और शय्या सफाई व आहार देने के समय स्वस्थ लार्वा को छूने से पहले, अपने हाथों को हैंड सेनिटाइजर से धोना चाहिए।	739	Hindi
8.	23.4.2018	बसंत फसल 2018 अघि तपाईको किरा पाल्ने घर अनि सरसमान सेनिटेकले साफ-सफाई गर्नु होस।	323	Nepali

9.	23.4.2018	এই সময় তুঁত জমিতে মিলিবাগের আক্রমণ (টুকরা) দেখা যাচ্ছে। আক্রান্ত তুঁত গাছের অংশ কেটে একটি পাত্রে সংগ্রহ করে মাটিতে গর্ত করে পুড়িয়ে মাটি চাপা দিন।	2347	Bengali
10.	26.4.2018	बसंत खेतीको रेशमकीरा हैच गर्ने अनुमानिक तारिख 01 मई, 2018.	320	Nepali
11.	02.05.2018	Mulberry plants are being affected by mealy bugs (Tukra). Farmers are advised to cut the mealy bug affected portion of mulberry plants, keep those in a pit and burn. After burning pit should be covered with soil.	518	English
12.	02.05.2018	इस समय शहतूत पौधों में मिलिबाग का आक्रमण दिखाई दे रहा है। मिलिबाग द्वारा आक्रांत शहतूत पौधों का अंश कट कर एक गड्ढा में रखकर जला दीजिए व मिट्टि से गड्ढा को ढक दीजिए.	741	Hindi
13.	09.05.2018	তুঁত জমিতে মিলিবাগের আক্রমণ (টুকরা) দেখা যাচ্ছে। জমিতে অবশিষ্ট তুঁত গাছ কেটে ফেলুন। একফুট উচ্চতা হলে ১০ লিটার জলে ১৫০মি.লি. বা ৩০ চা চামচ নিমতেলের(১৫০০ পি.পি.এম.) সাথে ১০মি.লি. সাবান জল মিশিয়ে স্প্রে করুন। ১৫ দিন পরে পাতা খাওয়ান।	2347	Bengali
14.	21.05.2018	रेशम कीरालाई डालामा ठीक जागा दिएर पतला राख्नु होस ।	320	Nepali
15.	22.05.2018	पानी परेको समय किरलाई पत्ता दिनु अघि चुना पाउडर/लेबेक्स छर्कीनु/लगौनु होस।	320	Nepali
16.	17.05.2018	তুঁত জমিতে মিলিবাগের আক্রমণ (টুকরা) দেখা যাচ্ছে। গাছ একফুট উচ্চতা হলে ১০ লিটার জলে ১৫০ মি.লি. বা ৩০ চা চামচ নিমতেলের (১৫০০ পি.পি.এম.) সাথে ১০মি.লি. সাবান জল মিশিয়ে স্প্রে করুন। ১৫ দিন পরে পাতা খাওয়ান।	2164	Bengali
17.	22.05.2018	লক্ষ্য করা যাচ্ছে পলুচাষীরা দু-তিনটি কীটনাশক একসাথে মিশিয়ে তুঁতজমিতে স্প্রে করছেন। চাষীভাইদের জানানো যাচ্ছে শুধুমাত্র কে.রে.অ.প্র.সং.,বহরমপুরের সুপারিশ অনুযায়ী নির্দিষ্ট কীটনাশক নির্দিষ্ট মাত্রায় স্প্রে করুন। কেনার আগে কীটনাশকের মেয়াদ শেষের তারিখ অবশ্যই দেখে নেবেন।	2164	Bengali
18.	29.05.2018	परिशोधन गरिएको चन्द्रकीमा मात्र पकेको )स्पीनिंग (कीरा हाल्नु/ब्यवहार गर्नु पर्छ।	320	Nepali
19.	30.05.2018	1. स्पीनिंग कीरा राखेको घरलाई तापमान सही राख्नु पर्छ। 2. पाकेको कीरा टीपेर लेबेक्स पाउडर लगाएर समान रुपले चंद्रकीमा हाल्नु पर्छ।	319	Nepali
20.	30.05.2018	তুঁত পাতার জলদাগ প্রতিকারের জন্য স্টেপটোমাইসিন সালফেট ৯% + টেট্রাসাইক্লিন হাইড্রোক্লোরাইড ১% এস পি (প্লানটোমাইসিন, কিলটোমাইসিন ইত্যাদি) ১গ্রাম/লিটার জলে মিশিয়ে স্প্রে করতে হবে, ১৫ দিন পর পাতা ব্যবহার যোগ্য হবে।	1434	Bengali
21.	04.06.2018	It is being noted that farmers are spraying two or three insecticides as per recommendation of local shop owners. Farmers are advised to follow the recommended dose and spray schedule of CSRTI, Berhampore. Before purchase the expiry date of the pesticide should be seen.	519	English
22.	04.06.2018	शहतूत पौधों में मिलिबाग/टुकरा (का आक्रमण रोक करने के लिए 10 लीटर पानी में 150 मिलि नीमतेल और 10 मिलि साबुन पानी मिलाके शहतूत पौधों को नीचे से उपर तक सुबह या शाम को छिरकाव कीजिये। छिरकाव या स्प्रे करने का 15 दिनों के बाद पतियाँ खिलाया जा सकता है।	742	Hindi
23.	05.06.2018	To avoid attack by mealybugs(Tukra) farmers are advised to spray 150 ml Neem oil (1500 ppm) mixed in 10 litres of water with 02 spoon of surf water when the mulberry plants will attain 1 feet height. Leaves can be used for silkworm rearing after 15 days of last spray.	518	English
24.	11.06.2018	তুঁতজমিতে পাতায় খ্রিপস পোকার আক্রমণ দেখা যাচ্ছে। যে অঞ্চলে পলুপোকার চাষ হবে সেখানে পাতার তলার দিক থেকে উপরের দিকে হওয়া যে দিক থেকে বইছে সেদিক থেকে লাগাতার ৩ দিন জল স্প্রে করুন। জমিতে নিয়মিত সেচ দিন।	2164	Bengali
25.	12.06.2018	তুঁত গাছে খ্রিপসের আক্রমণ দেখা যাচ্ছে। সব গাছ ৬ইঞ্চি উচ্চতায় কেটে জমিতে সেচ দিন। একফুট উচ্চতা হলে গাছের তলা থেকে উপরের দিকে হওয়া যে দিক থেকে বইছে সেদিক থেকে বিকেলে খায়ামেথোক্সাম (১০লিটার জলে ৫গ্রাম) ২ চা চামচ সাবান জল মিশিয়ে স্প্রে করুন। ১৫দিন পরে পাতা খাওয়ান।	2164	Bengali

26.	13.06.2018	তুঁতগাছের পাতায় বাদামি দাগ প্রতিকারের জন্য 2g করবেনদাজিম 50% WP (বাভিস্টিন, কেবিস্টিন, স্টারবেঞ্জ, বেনগার্ড, ডেভিস্টিন ইত্যাদি) প্রতি লিটার জলে মিশিয়ে স্প্রে করতে হবে। স্প্রে করার 7 দিন পর সেই পাতা ব্যবহার করা যেতে পারে।	2163	Bengali
27.	19.06.2018	তুঁত পাতার জল দাগ প্রতিকারের জন্য স্টেপটোমাইসিন সালফেট 9% +টেট্রাসাইক্লিন হাইড্রোক্লোরাইড 1% এসপি (প্লানটোমাইসিন, কিলটোমাইসিন ইত্যাদি) 1 গ্রাম/লিটার জলে মিশিয়ে স্প্রে করতে হবে, 15 দিন পর পাতা ব্যবহার যোগ্য হবে।	353	Bengali
28.	26.06.2018	তুঁত পাতার জলদাগ প্রতিকারের জন্য স্টেপটোমাইসিন সালফেট+ %৭ টেট্রাসাইক্লিন হাইড্রোক্লোরাইড %1 এসপি প্লানটোমাইসিন, কিলটোমাইসিন ইত্যাদি 1 গ্রাম/লিটার জলে মিশিয়ে স্প্রে করতে হবে, 15দিন পর পাতা ব্যবহার যোগ্য হবে।	161	Bengali

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Sl. No.	Date	Message	Number	Language
29.	11.07.18	For the management of powdery mildew of mulberry spray Carbendazim 50% WP (BAVISTIN, KVISTIN, STARBENZ, BENGARD, DEVISTIN etc.) 2g/L of water. Safe period 7 Days.	280	English
30.	12.07.18	এই সময় তুঁত জমিতে বিহার হেয়ারী শুয়োপোকাকার আক্রমণ দেখা যাচ্ছে। প্লাস্টিকের বালতিতে জলে অল্প সাবান গুলে তার মধ্যে আক্রান্ত পাতাগুলি সংগ্রহ করার পর মাটিতে গর্ত করে পুঁতে দিতে হবে বা স্থালিয়ে দিতে হবে।	2189	Bengali
31.	13.07.18	এই সময় তুঁত জমিতে মিলিবাগের আক্রমণ (টুকরা) দেখা যাচ্ছে। আক্রান্ত তুঁত গাছের অংশ কেটে একটি পাত্রে সংগ্রহ করে মাটিতে গর্ত করে পুড়িয়ে মাটি চাপা দিন।	2189	Bengali
32.	02.08.18	এই সময় তুঁত জমিতে বিহার হেয়ারী শুয়োপোকাকার আক্রমণ দেখা যাচ্ছে। আক্রান্ত পাতাগুলি প্লাস্টিকের বালতিতে সাবান জলের মধ্যে সংগ্রহ করার পর মাটিতে গর্ত করে পুঁতে দিতে হবে বা স্থালিয়ে দিতে হবে।	2189	Bengali
33.	02.08.18	शरद फसल 2018 अधि तपाईको किरा पाल्ने घर अनि सरसमान सेनिटेकले साफ-सफाई गर्नु होस	336	Nepali
34.	03.08.18	পলুপালন না থাকলে তুঁত জমিতে সাদা মাছির আক্রমণ প্রতিরোধের জন্য ১০ লিটার জলে ৫ গ্রাম থায়ামেথোক্সম এর সাথে ১০মি.লি. সাবান জল মিশিয়ে পাতার তলার দিক থেকে গাছের উপরের দিকে সকালে বা বিকেলে স্প্রে করুন। স্প্রে করার ১৫ দিন পর পলুকে পাতা খাওয়ানো যাবে।	2189	Bengali
35.	06.08.18	शरद खेतीको रेशमकीरा हैच गर्न अनुमानिक तारिख 25 अगस्त, 18.	333	Nepali
36.	06.08.18	পলুপালন থাকলে তুঁতজমিতে সাদামাছির আক্রমণ প্রতিরোধের জন্য পাতার নীচ থেকে গাছের উপরের দিকে সকালে বা বিকেলে জল স্প্রে করুন ও তুঁতজমিতে বিধা প্রতি 20টি হলুদ আঠালো ফাঁদ (2'x1') লাগান। দুটি 8 ফুট বাঁশের কাঠিতে হলুদ প্লাস্টিকে সাদা আঠা (গ্রীস) লাগিয়ে এই ফাঁদ তৈরী করুন।	2189	Bengali
37.	06.08.18	श्वेत मक्खी का आक्रमण से बचाने के लिए 10 लीटर पानी में एक पैकेट (5ग्राम) एकतारा (थायामेथोक्सम) और 10 मिलि लीटर साबुन पानी मिलाके शहतूत पौधों को नीचे से उपर तक सुबह या शाम को छिरकाव कीजिये। छिरकाव या स्प्रे करने का 15 दिनों के बाद पत्तियाँ खिलाया जा सकता है।	825	Hindi
38.	13.08.18	ରସାସ୍ତନିକ ସାର ପ୍ରସ୍ତୁତ କରିବା ପାଇଁ ପ୍ରସ୍ତୁତ କରିବାକୁ ପ୍ରାର୍ଥନା କରନ୍ତୁ	115	Oriya
39.	14.08.18	ତୁଟ ବଗିଚାରେ ପ୍ରସ୍ତୁତ କରିବା ପାଇଁ ପ୍ରସ୍ତୁତ କରିବାକୁ ପ୍ରାର୍ଥନା କରନ୍ତୁ	115	Oriya
40.	18.08.18	এই সময় তুঁত জমিতে বিহার হেয়ারী শুয়োপোকাকার আক্রমণ দেখা যাচ্ছে। আক্রান্ত পাতাগুলি প্লাস্টিকের বালতিতে সাবান জলের মধ্যে সংগ্রহ করার পর মাটিতে গর্ত করে পুঁতে দিতে হবে বা স্থালিয়ে দিতে হবে।	2434	Bengali
41.	24.08.18	বাই x বাই পলুর ক্ষেত্রে ভরণা পাকের ছয় দিন পর এবং মাল্টি x বাই পলুর ক্ষেত্রে ভরণা পাকের পাঁচ দিন পর গুটি বা কোয়া চন্দ্রাকী থেকে ছাড়ান। খারাপ/পচা গুটি বেছে নিয়ে আলাদা করার পরেই গুটির ক্লস ছাড়াবেন।	358	Bengali
42.	25.08.18	গুটি বিক্রীর কাজ শেষ হলে পলুঘর ভালো করে পরিষ্কার করুন এবং ডালা, চন্দ্রাকী ও পলুপালনের অন্যান্য সামগ্রী জলে ধুয়ে পরিষ্কার করার পর শুকনো করে পলুঘরে ঢুকিয়ে রাখুন। তারপর ৫% ব্লিচিং পাউডারের দ্রবণ স্প্রে করে পলুঘর ও পলুপালনের সামগ্রী পরিশোধন করুন।	358	Bengali
43.	27.08.18	প্রতিদিন সকালে পাতা দেওয়ার আধঘন্টা আগে মোমকাগজ সরিয়ে পালকের পিছন বা চপস্টিক দিয়ে পলুর বেড বাড়ান। কচি পাতা ছোট ছোট করে কেটে সকাল ৬ টা, দুপুর ১১ টা, বিকেল ৪ টা ও রাত ৮টায় ফিডিং দিন।	2263	Bengali

44.	30.08.18	रेशम कीरालाई डालामा ठीक जागा दिएर पतला राख्नु होस।	333	Nepali
45.	29.08.18	पानी परेको समय किरालाई पत्ता दिनु अघि चुना पाउडर /लबेक्स छर्कीनु/लगौनु होस।	333	Bengali
46.	03.09.18	সাদামাছি প্রতিরোধের জন্য বন্দের পরে মাটি থেকে ৬ইঞ্চি উচ্চতায় মুড়া কাটুন। একফুট উচ্চতা হলে তুঁতগাছের তলার দিক থেকে উপরের দিকে হাওয়ার অনুকূলে বিকেলে ১০লিটার জলে ৫গ্রাম থায়ামেথোক্সাম মিশিয়ে স্প্রে করুন। স্প্রে করার ১৫দিন পর পলুকে পাতা খাওয়ানো যাবে।	2220	Bengali
47.	05.09.18	সাদামাছি প্রতিরোধের জন্য মুড়াকাটার ১৫দিন পর থেকে ১০দিন অন্তর ১০লি. জলে ১৫০ মিলি নীমতেল (১৫০০পি.পি.এম.) ও ২চামচ সাবানজল মিশিয়ে তুঁতগাছের তলার দিক থেকে উপরের দিকে হাওয়ার অনুকূলে বিকেলে স্প্রে করুন। স্প্রে করার ১৫দিন পর পাতা খাওয়াবেন।	2220	Bengali
48.	11.09.18	ডালা পদ্ধতিতে প্রতিদিন নেটের সাহায্যে কাসার করুন এবং পলুর বেড বাড়ান। পলুঘরের তাপমাত্রা ২৪-২৫ ডিগ্রী সেন্টিগ্রেড এবং আর্দ্রতা ৭৫% বজায় রাখুন। পলুঘরে বায়ু চলাচলের ব্যবস্থা করুন।	1933	Bengali
49.	12.09.18	প্রতিদিন প্রতি বর্গ ফুট বেডের উপর ৩ থেকে ৪ গ্রাম হারে ল্যাবেক্স, সেরিসিলিন বা বিজেতা ডাস্টিং করে আধ ঘন্টা পর নেট দিয়ে পাতা দিন এবং কাসার করার পর বেডের পরিসর বাড়ান।	1933	Bengali
50.	13.09.18	রোজে (5th Stage) ১০০ডিমের মাল্টি Xবাই পলুর জন্য কমপক্ষে ৬ফুট X ৪ফুট মাপের ২০টি ডালা ব্যবহার করুন। পলুঘরের তাপমাত্রা ২৪-২৫ডিগ্রী সেন্টিগ্রেড এবং আর্দ্রতা ৭০% বজায় রাখুন।	1912	Bengali
51.	17.09.18	মরা ও পচা পলু যেখানে সেখানে না ফেলে একটি প্লাস্টিকের গামলায় ৫% ব্লিচিং পাউডারের দ্রবণের মধ্যে সংগ্রহ করুন এবং পলুঘর থেকে দূরে গর্তের মধ্যে ফেলে মাটি চাপা দিন।	1912	Bengali
52.	18.09.18	মাল্টি x বাই পলুর ক্ষেত্রে ভরণা পাকের পাঁচ দিন পর খারাপ পচা/গুটি বেছে নেওয়ার পরে চন্দ্রাকী থেকে গুটি ছাড়ান।	1912	Bengali
53.	24.09.18	परिशोधन गरिएको चन्द्रकीमा मात्र पाकेको (स्पीनिंग) कीरा हाल्नु/ब्यवहार गर्नु पर्छ	336	Nepali
54.	26.09.18	स्पीनिंग कीरा राखेको घरको तापमान सही राख्नु पर्छ ।	336	Nepali
55.	27.09.18	पाकेको कीरा टीपेर लेबेक्स पाउडर लगाएर समान रुपले चंद्रकीमा हाल्नु पर्छ	333	Nepali

#### No. of messages up-loaded in M-Kisan Portal: Nos.19 Nos. (During 3rd Qtr., 2018-19)

Sl. No.	Date	Message	Number	Language
56.	01.10.18	କୀଟ ପାଲନ ଗୁରୁତ୍ୱ ଦେଉ । ସ୍ୱାସ୍ଥ୍ୟକର ପରିବେଶ ରକ୍ଷା ରଖନ୍ତୁ ।	122	Oriya
57.	03.10.18	ରମେଶ ପଟ୍ଟନାୟକଙ୍କୁ ପଞ୍ଚମ ଅବସ୍ଥାରରେ ପଠିକା ବ୍ୟବସ୍ଥାନରେ ପଠାଇ କରି ରଖନ୍ତୁ ଏବଂ ବରଷା ଋତୁ ହେତୁ ଏକ ଦିନ ବ୍ୟବସ୍ଥାନରେ ଲବେକ୍ସ/ବିଜେତା ଗୁଣ୍ଡା ପ୍ରସ୍ତୁତ କରନ୍ତୁ ।	122	Oriya
58.	04.10.18	আগামী ০৬.১০.২০১৮ শনিবার এবং পরবর্তী কয়েকটি শনিবার সন্ধ্যা ৫টা ৩০মিনিটে বহরমপুর কেন্দ্রীয় রেশম গবেষণা ও প্রশিক্ষণ প্রতিষ্ঠান নির্মিত পলুপালন বিষয়ক অনুষ্ঠান দূরদর্শনের ডিডি বাংলা এবং ডিডি-১ চ্যানেল থেকে সম্প্রচারিত হবে। রেশমচাষী ভাই-বোনেরা অনুষ্ঠানটি দেখুন।	2465	Bengali
59.	08.10.18	তুঁতজমিতে সাদামাছির আক্রমণ প্রতিরোধের জন্যে ১০ লিটার জলে ৫ গ্রাম থায়ামেথোক্সাম এর সাথে ১০মি.লি .সাবান জল মিশিয়ে পাতার তলার দিক থেকে গাছের উপরের দিকে সকালে বা বিকেলে স্প্রে করুন। স্প্রে করার ১৫ দিন পর পলুকে পাতা খাওয়ানো যাবে।	2263	Bengali
60.	08.10.18	श्वेत मक्खी का आक्रमण से बचाने के लिए 10 लीटर पानी में एक पैकेट ५) (ग्रामएकतारा और (थायामेथोक्सम) 10 मिलि लीटर साबुन पानी मिलाके शहतूत पौधों को नीचे से उपर तक सुबह या शाम को छिरकाव कीजिये। छिरकाव या स्प्रे करने का 15 दिनों के बाद पत्तियाँ खिलाया जा सकता है।	809	Hindi
61.	10.10.18	To avoid attack of whitefly spray Thiamethoxam (5 g) in 10 litres of water with 10 ml of soap solution during morning or evening from lower side of the mulberry plant to upper side in the same direction of wind blowing. After 15 days leaves can be fed to silkworm.	769	English
62.	10.11.18	হাত দিয়ে কাসার না করে নেটের সাহায্যে করুন। কাসার পলুঘরের মেঝেতে ফেলবেন না, মেঝেতে পলিথিন সীট পেতে তার উপর কাসার করুন এবং শেষে সেগুলি পলুঘর থেকে দূরে গর্তের মধ্যে ফেলুন।	2263	Bengali

63.	09.11.18	৯০ শতাংশ পলু রহাতে গেলে পাতা দেওয়া বন্ধ করুন এবং প্রতি বর্গফুট বেডে ৩ থেকে ৪ গ্রাম হারে কলিচুল ছড়ান। ৯০ শতাংশ পোকা চিয়ানে উঠলে প্রতি বর্গফুট বেডে ৩ থেকে ৪ গ্রাম হারে সেরিসিলিন, ল্যাবেক্স বা বিজেতা ছড়িয়ে আধঘন্টা পর নেট দিয়ে পাতা দিন।	2263	Bengali
64.	16.11.18	ডালা পদ্ধতিতে রোজে (5th Stage) প্রতিদিন নেটের সাহায্যে কাঁসার করুন। ১০০ডিমের মাল্টিX বাই পলুর জন্য কমপক্ষে ৬ফুট x ৪ফুট মাপের ২০টি ডালা এবং বাইXবাই পলুর জন্য ২৪টি ডালা ব্যবহার করুন।	2263	Bengali
65.	20.11.18	মরা ও পচা পলু যেখানে সেখানে না ফেলে একটি প্লাস্টিকের গামলায় ৫% ব্লিচিং পাউডারের দ্রবণের মধ্যে সংগ্রহ করুন এবং পলুঘর থেকে দূরে গর্তের মধ্যে ফেলে মাটি চাপা দিন।	2263	Bengali
66.	24.11.18	পাকা পলু চন্দ্রাকীতে ঘন করে ছাড়বেন না। প্রতি বর্গফুট চন্দ্রাকীতে মাল্টি x বাই পলু ৫০টা এবং বাই x বাই পলু ৪০টার বেশী কখনই রাখবেন না।	2262	Bengali
67.	26.11.18	চন্দ্রাকীতে পাকা পলু ছাড়ার পর চন্দ্রাকীগুলি সরাসরি রোদের মধ্যে না রেখে আলা-হাওয়া যুক্ত ছায়া জায়গায় হেলানো অবস্থায় রাখুন।	2262	Bengali
68.	28.11.18	আজ ২৮.১১.২০১৮ বুধবার দুপুর ৩.০০টা থেকে ৩.৩০টা পর্যন্ত বহরমপুর কেন্দ্রীয় রেশম গবেষণা ও প্রশিক্ষণ প্রতিষ্ঠান নির্মিত তুঁতচাষ বিষয়ক অনুষ্ঠান দূরদর্শনের ডিডি বাংলা এবং ডিডি-১ চ্যানেল থেকে পুনঃ সম্প্রচারিত হবে। রেশমচাষী ভাই-বোনরা অনুষ্ঠানটি অবশ্যই দেখুন।	2468	Bengali
69.	10.12.18	গুটি বিক্রীর কাজ শেষ হলে পলুঘর ও পলুপালনের অন্যান্য সামগ্রী যেমন ডালা, চন্দ্রাকী ইত্যাদি ৫% ব্লিচিং পাউডারের দ্রবণ দিয়ে স্প্রে করুন। ব্যবহৃত মোমকাগজ, খবরের কাগজ ইত্যাদি পুড়িয়ে ফেলুন।	2265	Bengali
70.	14.12.18	শীতকালে তুঁত গাছের সঠিক বৃদ্ধি ও উন্নত মানের বেশী পাতা পাওয়ার জন্য মুড়া কাটার ১৫ দিন পর প্রথমবার এবং আরো ১৫ দিন পর দ্বিতীয় বার তুঁত জমিতে ১০ লিটার জলে ১০ মিলি মোরিজাইম-বি (Morizyme-B) মিশিয়ে স্প্রে করুন।	2468	Bengali
71.	15.12.18	শীতকালে কলাগাছের পাতায় সাদামাছির নিষ্ফ দেখা যায়, তাই তুঁতবাগানের আশেপাশে কলাগাছ রাখা যাবে না।	2468	Bengali
72.	17.12.18	পল্লবেরো বগিচা কচোতা গচোয়া করি থালানি ঔষধি ঘাট্টা প্রদর্শন করুন।	123	Oriya
73.	18.12.18	নিয়মিত তুঁতবাগানের আগাছা পরিষ্কার রাখবেন, তাহলে আগামী বন্দে খ্রিপসের আক্রমণ নিয়ন্ত্রণে থাকবে।	2466	Bengali
74.	18.12.18	গাছ গচোত পান্ডক বাগতু তুত বগিচা গাছ বাগত পানপতি কান্দু রক্কা গাছ বক্কা গাছ	123	Oriya

## ANNEXURE-XIII

### 3. IT Initiatives

#### 3.4. Development of data base and technology under IT initiatives

**Success indicator-iii. Up-loading of data in “Seri-5k” Portal: 3615 farmers. (upto 3<sup>rd</sup> Qtr., 2018-19).**

**Up-loading of data in “Seri-5k” Portal: 1277 farmers. (During 1<sup>st</sup> Qtr., 2018-19).**

Sl. No.	Name of the Cluster	No. of farmers
1.	Ukrul Cluster	32 farmers
2.	Churachandpur	295 farmers
3.	Nadia-	67 farmers
4.	Malda	478 farmers
5.	Darrang	405 farmers
Total =		1277 farmers

Up-loading of data in “Seri-5k” Portal: 1149 farmers. (During 2<sup>nd</sup> Qtr., 2018-19).

Sl. No.	Name of the Cluster	No. of farmers
1.	Malda	250
2.	Murshidabad	135
3.	Birbhum	70
4.	Nadia	120
5.	Kishanganj	145
6.	West Tripura	299
7.	Peren	130
<b>Total =</b>		<b>1149 farmers</b>

Up-loading of data in “Seri-5k” Portal: farmers.1189 farmers (During 3<sup>rd</sup> Qtr., 2018-19).

Sl. No.	Name of the Cluster	No. of farmers
1.	Malda	260
2.	Murshidabad	180
3.	Birbhum	120
4.	Nadia	185
5.	Kishanganj	85
6.	West Tripura	150
7.	Peren	115
8.	Churachandpur	94
<b>Total =</b>		<b>1189 farmers</b>

## ANNEXURE–XIV

### 3. IT Initiatives

#### 3.4. Development of data base and technology under IT initiatives

Success indicator-iv. No. of Research Projects uploaded for E-Monitoring: 7 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19).link: <http://www.csrtiber.res.in>

Sl. No.	Code No.	Title & Period	PI
<b>During 1<sup>st</sup> Qtr., 2018-19 : 2 Nos.</b>			
1.	PIB 3627	Development of superior mulberry ( <i>Morus</i> spp.) genotypes through Polyclonal Seed Orchard. (June, 2018 to May, 2021).	Debashish Chakravarty Scientist-D
2.	ARP 3630	Development of room and silkworm bed disinfectant through screening of potential chemicals. (June, 2018 to May, 2021).	Rahul, K., Sci-B
<b>During 2<sup>nd</sup> Qtr., 2018-19 : 1 No.</b>			
3	PRE02001SI	Management of pink mealy bug <i>Maconellicoccus hirsutus</i> (Green) of Mulberry with barrier system. (July, 2018 to June, 2021).	U.C.Barua, Sci-D



During 3rd Qtr., 2018-19 : 4 Nos.			
4.	<b>MTS 3599</b>	Mulberry Sericulture Production in West Bengal: A Statistical Approach. (Nov., 2016 to April, 2018).	Manjunath, G.R., Sci-B
5.	<b>MOT 3601</b>	Skill Gap Analysis and Capacity Building of Sericulture Extension Workers and Farmers in Traditional and Non-Traditional States. (Nov., 2016 to April, 2018).	Shafi Afroj, Sci-B
6.	<b>PPS 3598</b>	Arsenic contamination in mulberry sericulture of Bengal plain and its alleviation through application of zinc in soil. . (Nov., 2016 to Aug., 2018).	V.Vijay, Sci-B
7.	<b>ARP 3522</b>	Isolation, cloning and characterization of antibacterial protein(s) from silkworm, <i>Bombyx mori</i> L. (May, 2015 to June, 2018). (A collaborative project with SBRL)	Rahul, K., Sci-B

## ANNEXURE-XV

### 3. IT Initiatives

#### 3.4. Development of data base and technology under IT initiatives

**Success indicator-V. Digitized Soil Health cards: 7729 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19)**

**Digitized Soil Health cards: 2500 Nos. (During 1<sup>st</sup> Qtr., 2018-19)**

Sl. No.	Work done by	No. of farmers
1.	CSR&TI, Berhampore	2345 Nos.
2.	REC Imphal	155 Nos.
Total SHC issued =		2500 Nos.

**Digitized Soil Health cards: 3061 Nos. (During 2<sup>nd</sup> Qtr., 2018-19)**

Sl. No.	Work done by	No. of farmers
1.	CSR&TI, Berhampore	2633 Nos.
2.	REC Imphal	319 Nos.
3.	REC Shillong	109 Nos.
Total SHC issued =		3061 Nos.

**Digitized Soil Health cards: 2168 Nos. (During 3<sup>rd</sup> Qtr., 2018-19)**

Sl. No.	Work done by	No. of farmers
1.	CSR&TI, Berhampore	1439
2.	REC Imphal	103
3.	REC Shillong	09
4.	REC Tripura	617
Total SHC issued =		2168 Nos.

## **ANNEXURE–XVI**

### **3. IT Initiatives**

#### **3.4. Development of data base and technology under IT initiatives**

**Success indicator-vi. Preparation of Technology descriptor adoption document/ video: 5 Nos. (Upto 3<sup>rd</sup> Qtr., 2018-19).**

**During 1<sup>st</sup> Qtr., 2018-19: 4 Nos.**

1. Soil testing and recommendation.
2. Proper disinfection of rearing room and silkworm bed.
3. Mulberry disease Management.
4. Preparation of Vermicompost.

**During 2<sup>nd</sup> Qtr., 2018-19: 1 No.**

1. Different diseases and pests of silkworms..

**During 3<sup>rd</sup> Qtr., 2018-19: Nil**

## **ANNEXURE–XVII**

### **3. IT Initiatives**

#### **3.4. Development of data base and technology under IT initiatives**

**Success indicator-vii. Digitization of payments: 100% (upto 3<sup>rd</sup> Qtr., 2018-19).**

- a) Payment received: 100%
- b) Payment disburse: 100%

## **ANNEXURE–XVIII**

### **3. IT Initiatives**

#### **3.5. Implementation of DBT**

**Success indicator-i. % of implementation of Direct Benefit Transfer (DBT): 100% (Upto 3<sup>rd</sup> Qtr., 2018-19).**

## **ANNEXURE–XIX**

### **3.IT Initiatives**

#### **3.5.Implementation of DBT**

**Success indicator-ii. Submission of DBT Annexures 1&4 : 100% (Upto 3<sup>rd</sup> Qtr., 2018-19).**

## Annexure-I

## Summary Report of Direct Benefits Transfer (DBT) Scheme wise during 1st quarters i.e. from April-June 2018 during the year, 2018-2019

Name of the Ministry	Name of the Scheme	Total Number of Beneficiaries	Total Number of Beneficiaries with Bank A/c.	Total Number of Beneficiaries with Aadhaar	Total Number of Beneficiaries with Seeded Bank A/c.	Total Number of DBT Transactions	Total Number of DBT Transactions through PFEMS direct from Centre	Total Number of DBT Transactions through PEMS by State/Intermediaries	Total value of transactions (in Rs)	Total value of DBT Transactions through PEMS direct from Centre (in lakhs)	Total value of DBT Transactions through PEMS by States/Intermediaries (in lakhs)
1	2	3	4	5	6	7	8	9	10	11	12
Central Silk Board Ministry of Textiles (Sericulture)	(i) Catalytic Development Programme (CDP) (***)										
	(ii) Critical CDP components merged with CSS under Restructured Central Sector Scheme	62	62	62	62	-	Nil	Nil	Payment has not been made due to not availability of fund.	Nil	Nil

(\*\*\*) – In respect of CDP Year-wise information may be furnished for XII Plan

N.B.: (1) Total 62 beneficiaries are attending under Capacity Building & Training (CBT) Sub-component Farmers Skill Training (FST) – as Restructured Central Sector Scheme.

(2) As per entitlement amount in a total of Rs. (nil) only has been transferred to the respective beneficiaries by their Bank Account individually.

(3) Maximum beneficiaries are submitted they are Aadhaar Number at the time of registration.

(4) Total Number of Direct Benefit Transfer (DBT) through PEMS direct to be done shortly.

## Annexure-IV

## STATUSES OF DIRECT BENEFITS TRANSFER ROLLOUT IN IDENTIFIED SCHEMES during 1st quarters i.e. from April-June 2018 during the year, 2018-2019

Name of the Ministry	Name of the Scheme (Scheme-wise payments)	Transactions to date under APB		Transactions to date under Non-APB (CPSMS)		Transactions to date o NEFT mode (Neither APB nor Non-APB CPSMS)		Total Transactions through APB, Non-APB and NEFT	
		Net Transactions (Nos.)	Net Amount (in lakhs)	Net Transactions (Nos.)	Net Amount (in lakhs)	Net Transactions (Nos.)	Net Amount (in lakhs)	Net Transactions (Nos.)	Net Amount (in lakhs)
1	2	3	4	5	6	7	8	9	10
Central Silk Board Ministry of Textiles (Sericulture)	(i) Catalytic Development Programme (CDP) (***)								
	(ii) Critical CDP components merged with CSS under Restructured Central Sector Scheme					NIL			

(\*\*\*) – In respect of CDP Year-wise information may be furnished for XII Plan.

Annexure - I

Summary Report of Direct Benefits Transfer (DBT) Scheme wise during 2<sup>nd</sup> quarters i.e. from July-Sept .. 2018 during the year, 2018-2019

Name of the Ministry	Name of the Scheme	Total Number of Beneficiaries	Total Number of Beneficiaries with Bank A/c.	Total Number of Beneficiaries with Aadhaar	Total Number of Beneficiaries with Seeded Bank A/c.	Total Number of DBT Transactions	Total Number of DBT Transactions through PEMS direct from Centre	Total Number of DBT Transactions through PEMS by State/Intermediaries	Total value of transactions (in Rs.)	Total value of DBT Transactions through PEMS direct from Centre (in lakhs)	Total value of DBT Transactions through PEMS by States/Intermediaries (in lakhs)
1	2	3	4	5	6	7	8	9	10	11	12
Central Silk Board Ministry of Textiles (Sericulture)	(i) Catalytic Development Programme (CDP) (***) (ii) Critical CDP components merged with CSS under Restructured Central Sector Scheme	124	124	124		-	Nil	Nil	226650.00 (including wages of 62 farmers trained during 1 <sup>st</sup> qrt)	Nil	Nil

(\*\*\*)- In respect of CDP Year-wise information may be furnished for XII Plan.

N.B.: (1) Total 62 beneficiaries are attending under Capacity Building & Training (CBT) Sub-component Farmers Skill Training (FST) - as Restructured Central Sector Scheme.  
 (2) As per entitlement amount in a total of Rs. 226650.00 only has been transferred to the respective beneficiaries by their Bank Account individually.  
 (3) Maximum beneficiaries are submitted they are Aadhaar Number at the time of registration.  
 (4) Total Number of Direct Benefit Transfer (DBT) through PEMS direct to be done shortly.

Annexure - IV

STATUSES OF DIRECT BENEFITS TRANSFER ROLLOUT IN IDENTIFIED SCHEMES during 2<sup>nd</sup> quarters i.e. from July-Sept 2018 during the year, 2018-2019

Name of the Ministry	Name of the Scheme (Scheme-wise payments)	Transactions to date under APB		Transactions to date under Non-APB (CPSMS)		Transactions to date of NEFT mode (Neither APB nor Non-APB CPSMS)		Total Transactions through APB, Non-APB and NEFT	
		Net Transactions (Nos.)	Net Amount (In lakhs)	Net Transactions (Nos.)	Net Amount (In lakhs)	Net Transactions (Nos.)	Net Amount (In lakhs)	Net Transactions (Nos.)	Net Amount (In lakhs)
1	2	3	4	5	6	7	8	9	10
Central Silk Board Ministry of Textiles (Sericulture)	(i) Catalytic Development Programme (CDP) (***)								
	(ii) Critical CDP components merged with CSS under Restructured Central Sector Scheme					Nil			

(\*\*\*)- In respect of CDP Year-wise information may be furnished for XII Plan.

### Summary Report of Direct Benefits Transfer (DBT) Scheme wise w.e.f. from October- December, 2018 during the year, 2018-2019

Name of the Ministry	Name of the Scheme	Total Number of Beneficiaries	Total Number of Beneficiaries with Bank A/c.	Total Number of Beneficiaries with Aadhaar	Total Number of Beneficiaries with Seeded Bank A/c.	Total Number of DBT Transactions	Total Number of DBT Transactions through PEMS direct from Centre	Total Number of DBT Transactions through PEMS by State/ Intermediaries	Total value of transactions (in Rs)	Total value of DBT Transactions through PEMS direct from Centre (in lakhs)	Total value of DBT Transactions through PEMS by States/ Intermediaries (in lakhs)
1	2	3	4	5	6	7	8	9	10	11	12
Central Silk Board Ministry of Textiles (Sericulture)	(iii) Catalytic Development Programme (CDP) (***)										
	(iv) Critical CDP components merged with CSS under Restructured Central Sector Scheme	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

(\*\*\*) – In respect of CDP Year-wise information may be furnished for XII Plan

N.B.: (1) no beneficiaries are attending under Capacity Building & Training (CBT) Sub-component Farmers Skill Training (FST) – as Restructured Central Sector Scheme.

(2) As per entitlement amount in a total of **Rs. Nil** only has been transferred to the respective beneficiaries by their Bank Account individually.

(3) Maximum beneficiaries are submitted they are Aadhaar Number at the time of registration.

(4) Total Number of Direct Benefit Transfer (DBT) through PEMS direct to be done shortly.

### STATUSES OF DIRECT BENEFITS TRANSFER ROLLOUT IN IDENTIFIED SCHEMES w.e.f. from October- December, 2018 during the year, 2018-2019

Name of the Ministry	Name of the Scheme (Scheme-wise payments)	Transactions to date under APB		Transactions to date under Non-APB (CPSMS)		Transactions to date o NEFT mode (Neither APB nor Non-APB CPSMS)		Total Transactions through APB, Non-APB and NEFT	
		Net Transactions (Nos.)	Net Amount (in lakhs)	Net Transactions (Nos.)	Net Amount (in lakhs)	Net Transactions (Nos.)	Net Amount (in lakhs)	Net Transactions (Nos.)	Net Amount (in lakhs)
1	2	3	4	5	6	7	8	9	10
Central Silk Board Ministry of Textiles (Sericulture)	(ii) Catalytic Development Programme (CDP) (***)								
	(ii) Critical CDP components merged with CSS under Restructured Central Sector Scheme					NIL			

(\*\*\*) – In respect of CDP Year-wise information may be furnished for XII Plan.

## ANNEXURE-XX

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.6. Interventions through main Institutes level

**Success indicator-i. Number of Seri-model Village identified : 15 Nos. (Upto 3<sup>rd</sup> Qtr., 2018-19).**

**No. of Seri-model Village identified : 14 Nos. (During 1<sup>st</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village
CSR&TI,Berhampore	Balaspur
	Barbakpur
	Sahebnagar
REC, Mothabari	Bangalgram
REC, M.P.Raj	Amritpur
RSRS, Kalimpong, W.B.	Mahakaldara Village
RSRS, Jorhat, Assam	Chapori
REC,Imphal, Manipur	Yumnamkhunou Village
REC, Aizwal, Mizoram	Saitual Village
REC,Shillong, Meghalaya	i) Ummulong Village ii) Wahiajer Village
REC,Mongaldoi, Assam	i) Halda Village ii) Rowmari Village
REC, Agartala, Tripura	Chikancharra Village

**Number of Seri-model Village identified : 6 Nos. (During 2<sup>nd</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village
CSR&TI,Berhampore	Balaspur
	Barbakpur
REC, Mothabari	Bangalgram
MN Extension unit	Sahebnagar
REC, M.P.Raj	Amritpur
RSRS, Kalimpong, W.B.	Mahakaldara Village

**Number of Seri-model Village identified : 15 Nos. (During 3<sup>rd</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village
CSR&TI,Berhampore	Balaspur
	Barbakpur
	Sahebnagar
REC, Mothabari	Bangalgram
REC, M.P.Raj	Amritpur
REC, Dhenkikote	Saraskhola
RSRS, Kalimpong, W.B.	Mahakaldara Village
RSRS, Jorhat, Assam	Chapori
REC,Imphal, Manipur	Yumnamkhunou Village
REC, Aizwal, Mizoram	Saitual Village
REC Agartala	Chikancharra
REC,Shillong, Meghalaya	i) Ummulong Village ii) Wahiajer Village
REC,Mongaldoi, Assam	iii) Halda Village iv) Rowmari Village

## ANNEXURE-XXI

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.6. Interventions through main Institutes level

**Success indicator-ii. No. of farmers adopted: 1210 Nos. (Upto 3<sup>rd</sup> Qtr., 2018-19).**

**No. of farmers adopted: 1160 Nos. (During 1<sup>st</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village	No. of farmers
CSR&TI, Berhampore	Balaspur, Barbakpur & Saheb Nagar	450
REC, Mothabari	Bangalgram	200
REC, M.P.Raj	Amritpur	50
RSRS, Kalimpong, W.B.	Mahakaldara Village	25
RSRS, Jorhat, Assam	Chapori	50
REC, Imphal, Manipur	Yumnamkhunou Village	70
REC, Aizwal, Mizoram	Saitual Village	60
REC, Shillong, Meghalaya	i) Ummulong Village	50
	ii) Wahiajer Village	50
REC, Mongaldoi, Assam	i) Halda Village	60
	ii) Rowmari Village	65
REC, Agartala, Tripura	Chikancharra Village	30
<b>TOTAL=</b>		<b>1160</b>

**No. of farmers adopted: 1210 Nos.: 725 Nos. (During 2<sup>nd</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village	No. of farmers
CSR&TI, Berhampore	Balaspur & Barbakpur	250
REC, Mothabari	Bangalgram	200
MN Extension unit	Saheb Nagar	200
REC, M.P.Raj	Amritpur	50
RSRS, Kalimpong, W.B.	Mahakaldara Village	25
<b>TOTAL=</b>		<b>725</b>

**No. of farmers adopted: 1210 Nos. (During 3<sup>rd</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village	No. of farmers
CSR&TI, Berhampore	Balaspur & Barbakpur	250
MN Extension unit	Saheb Nagar	200
REC, Mothabari	Bangalgram	200
REC, M.P.Raj	Amritpur	100
RSRS, Kalimpong, W.B.	Mahakaldara Village	25
RSRS, Jorhat, Assam	Chapori	50
REC, Imphal, Manipur	Yumnamkhunou Village	70
REC, Aizwal, Mizoram	Saitual Village	60
REC, Shillong, Meghalaya	i) Ummulong Village	100
	ii) Wahiajer Village	
REC, Mongaldoi, Assam	iii) Halda Village	125
	iv) Rowmari Village	
REC, Agartala, Tripura	Chikancharra Village	30
<b>TOTAL=</b>		<b>1210</b>

## ANNEXURE-XXII

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.6. Interventions through main Institutes level

**Success indicator-iii. Expected rawsilk Output: 28.578 mt. (Upto 3<sup>rd</sup> Qtr., 2018-19).**

**Expected rawsilk Output: 9.203 mt. (During 1<sup>st</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village	No. of farmers	Expt.raw sillk (t)
CSR&TI,Berhampore	Balaspur, Barbakpur and Saheb Nagar	450	4.503
REC, Mothabari	Bangalgram	200	2.011
REC, M.P.Raj	Amritpur	50	0.239
RSRS, Kalimpong, W.B.	Mahakaldara Village	25	0.072
RSRS, Jorhat, Assam	Chapori	50	0.292
REC, Imphal, Manipur	Yumnamkhunou Village	70	0.411
REC, Aizwal, Mizoram	Saitual Village	60	0.381
REC, Shillong, Meghalaya	i) Ummulong Village	50	0.303
	ii) Wahiajer Village	50	
REC, Mongaldoi, Assam	v) Halda Village	125	0.893
	vi) Rowmari Village		
REC, Agartala, Tripura	Chikancharra Village	30	0.098
TOTAL=		1160	9.203 mt

**Expected rawsilk Output: 7.065 mt. (During 1<sup>st</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village	No. of farmers	Expt.raw sillk (t)
CSR&TI, Berhampore	Balaspur & Barbakpur	250	2.526
REC, Mothabari	Bangalgram	200	2.093
MN Extension unit	Saheb Nagar	200	2.141
REC, M.P.Raj	Amritpur	50	0.244
RSRS, Kalimpong, W.B.	Mahakaldara Village	25	0.061
TOTAL=		725	7.065 mt

**Expected rawsilk Output: 12.31 mt. (During 3<sup>rd</sup> Qtr., 2018-19).**

Name of the Unit	Seri Model Village	No. of farmers	Expt.raw sillk (t)
CSR&TI,Berhampore	Balaspur & Barbakpur	250	3.50
MN Extension unit	Saheb Nagar	200	3.18
REC, Mothabari	Bangalgram	200	2.89
REC, M.P.Raj	Amritpur	100	0.56
RSRS, Kalimpong, W.B.	Mahakaldara Village	25	0.06
RSRS, Jorhat, Assam	Chapori	50	0.15
REC, Imphal, Manipur	Yumnamkhunou Village	70	0.46
REC, Aizwal, Mizoram	Saitual Village	60	0.38
REC, Shillong, Meghalaya	i) Ummulong Village	100	0.29
	ii) Wahiajer Village		
REC, Mongaldoi, Assam	i) Halda Village	125	0.76
	ii) Rowmari Village		
REC, Agartala, Tripura	Chikancharra Village	30	0.08
TOTAL=		1210	12.31 mt



## ANNEXURE–XXIII

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.7. Large scale trial of L14 X S8 & other ICB breeds

**Success indicator-i. No. of dfls proposed for large scale trial: 0.5004 lakh (upto 3<sup>rd</sup> Qtr., 2018-19).**

Sl. No.	Name of the Unit	Multi x Bi		Total dfls
		M6DPC x (SK6 x SK7)	N x (SK6 x SK7)	
1	REC, Kamnagar	7500	4400	11900
2	REC, Mothabari	6250	3750	10000
3	REC, M.P.Raj	350	150	500
4	ZSSO, Malda	4000	2000	6000
5	DoT(S), Malda	5000	3000	8000
6.	DoT(S), Mursidabad	5000	2000	7000
7	DoT(S), Birbhum	2000	900	2900
8	DoT(S), Nadia	1000	1700	2700
	<b>Total</b>	<b>31100</b>	<b>17900</b>	<b>49000</b>

**During 3<sup>rd</sup> Qtr., 2018-19: 1038 dfls**

B.Con 1 x B.Con 4: 10 dfls; SK6 x SK7 : 30 dfls; Nistari (Plain)-270 dfls; SK6-25 dfls; SK7-25 dfls; B.Con.1-10 B.Con.4-10 dfls; M6DPC-150 dfls; On farm Trial -308 dfls; ID Hybrids-200 dfls;

## ANNEXURE–XXIV

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.8. Interventions through RSRs/ REC level

**Success indicator – i: No. of Clusters organized: 15 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19).**

**No. of Clusters organized: 15 Nos. (During 1<sup>st</sup> Qtr., 2018-19).**

Sl. No.	Name of the State/ No. of Cluster		Place
1.	West Bengal	1.	Malda
		2.	Murshidabad
		3.	Nadia
		4.	Birbhum
2.	Odisha	5.	Ghatgaon (Keonjhor)
		6.	Kashipur

3.	Bihar	7.	Kishanganj
4.	Assam	8.	Darrang
		9.	Udalguri
		10.	Jorhat
5.	Manipur	11.	Churachandpur
		12.	Ukhrul
6.	Mizoram	13.	Aizawl
7.	Nagaland	14.	Parren
8.	Tripura	15.	West Tripura

**No. of Clusters organized: 15 Nos. (During 2<sup>nd</sup> Qtr., 2018-19).**

Sl. No.	Name of the State/ No. of Cluster		Place
1.	West Bengal	1.	Malda
		2.	Murshidabad
		3.	Nadia
		4.	Birbhum
2.	Odisha	5.	Ghatgaon( Keonjhor)
		6.	Kashipur
3.	Bihar	7.	Kishanganj
4.	Assam	8.	Darrang
		9.	Udalguri
		10.	Jorhat
5.	Manipur	11.	Churachandpur
		12.	Ukhrul
6.	Mizoram	13.	Aizawl
7.	Nagaland	14.	Parren
8.	Tripura	15.	West Tripura

**No. of Cluster to be organized: 15 Nos. (Achieved during 3rd Qtr.)**

Sl. No.	Name of the State/ No. of Cluster		Place
1.	West Bengal	1.	Malda
		2.	Murshidabad
		3.	Nadia
		4.	Birbhum
2.	Odisha	5.	Ghatgaon( Keonjhor)
		6.	Kashipur
3.	Bihar	7.	Kishanganj
4.	Assam	8.	Darrang
		9.	Udalguri
		10.	Jorhat
5.	Manipur	11.	Churachandpur
		12.	Ukhrul
6.	Mizoram	13.	Aizawl
7.	Nagaland	14.	Parren
8.	Tripura	15.	West Tripura

## ANNEXURE–XXV

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.8. Interventions through RSRS/ REC level

Success indicator – ii: No. of farmers covered: 5566 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19)

No. of farmers covered: 3024 Nos. (During 1<sup>st</sup> Qtr., 2018-19).

Sl. No.	Name of the State/ No. of Cluster		Place	Farmers Covered (No.)
1.	West Bengal	1.	Malda	478
		2.	Murshidabad	000
		3.	Nadia	121
		4.	Birbhum	000
2.	Odisha	5.	Ghatgaon( Keonjhor)	00
		6.	Kashipur	00
3.	Bihar	7.	Kishanganj	000
4.	Assam	8.	Darrang	405
		9.	Udalguri	325
		10.	Jorhat	400
5.	Manipur	11.	Churachandpur	320
		12.	Ukhrul	295
6.	Mizoram	13.	Aizawl	00
7.	Nagaland	14.	Parren	300
8.	Tripura	15.	West Tripura	380
Total=				<b>3024</b>

No. of farmers covered: 5566 Nos. (During 2<sup>nd</sup> st Qtr., 2018-19).

Sl. No.	Name of the State/ No. of Cluster		Place	Farmers Covered (No.)
1.	West Bengal	1.	Malda	850
		2.	Murshidabad	250
		3.	Nadia	260
		4.	Birbhum	101
2.	Odisha	5.	Ghatgaon( Keonjhor)	120
		6.	Kashipur	110
3.	Bihar	7.	Kishanganj	220
4.	Assam	8.	Darrang	400
		9.	Udalguri	325
		10.	Jorhat	325
5.	Manipur	11.	Churachandpur	640
		12.	Ukhrul	640
6.	Mizoram	13.	Aizawl	300
7.	Nagaland	14.	Parren	300
8.	Tripura	15.	West Tripura	725
Total=				<b>5566</b>

**No. of farmers covered: 4484 Nos. (During 3<sup>rd</sup> Qtr., 2018-19)**

Sl. No.	Name of the State/ No. of Cluster		Place	Farmers Covered (No.)
1.	West Bengal	1.	Malda	850
		2.	Murshidabad	904
		3.	Nadia	410
		4.	Birbhum	300
2.	Odisha	5.	Ghatgaon( Keonjhor)	5
		6.	Kashipur	18
3.	Bihar	7.	Kishanganj	50
4.	Assam	8.	Darrang	00
		9.	Udalguri	00
		10.	Jorhat	00
5.	Manipur	11.	Churachandpur	640
		12.	Ukhrul	640
6.	Mizoram	13.	Aizawl	00
7.	Nagaland	14.	Parren	00
8.	Tripura	15.	West Tripura	667
<b>Total=</b>				<b>4484</b>

## ANNEXURE-XXVI

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.8. Interventions through RSRS/ REC level

**Success indicator –iii: Expected raw silk output: 161.40 mt (upto 3<sup>rd</sup> Qtr., 2018-19).**

**Expected raw silk output: 55.81 Ton (BV: 25.80 t +ICB: 30.01 t) (During 1<sup>st</sup> Qtr., 2018-19)**

Sl. No.	Name of the State/ No. of Cluster		Place	Farmers Covered (No.)	Expt. Raw Silk (t)ICB	Expt. Raw Silk (t)BV
1.	West Bengal	1.	Malda	720	8.194	2.70
		2.	Murshidabad	50	6.703	0.00
		3.	Nadia	100	7.543	0.00
		4.	Birbhum	-	7.086	0.48
2.	Odisha	5.	Ghatgaon(Keonjhor)	134	0	0
		6.	Kashipur	92	0	0
3.	Bihar	7.	Kishanganj	167	0.483	0
4.	Assam	8.	Darrang	405	0	5.93
		9.	Udalguri	375	0	2.19
		10.	Jorhat	325	0	1.43
5.	Manipur	11.	Churachandpur	628	0	2.92
		12.	Ukhrul	576	0	2.93
6.	Mizoram	13.	Aizawl	300	0	3.527
7.	Nagaland	14.	Parren	305	0	2.60
8.	Tripura	15.	West Tripura	370	0	1.09
<b>Total=</b>					<b>30.00</b>	<b>25.80</b>

**Expected raw silk output: 36.77Ton (BV: 30.01 t +ICB: 6.767) During 2<sup>nd</sup> Qtr., 2018-19)**

Sl. No.	Name of the State/Cluster		Place	Farmers Covered (No.)	Expt. Raw Silk (t)ICB	Expt. Raw Silk (t)BV
1.	West Bengal	1.	Malda	720	2.723	1.470
		2.	Murshidabad	50	2.550	0.00
		3.	Nadia	100	0.475	0.173
		4.	Birbhum	-	0.420	0.000
2.	Odisha	5.	Ghatgaon (Keonjhor)	134	0.016	0.000
		6.	Kashipur	92	0.000	0.102
3.	Bihar	7.	Kishanganj	167	0.583	0.000
4.	Assam	8.	Darrang	405	0.000	5.472
		9.	Udalguri	375	0.000	1.993
		10.	Jorhat	325	0.000	2.340
5.	Manipur	11.	Churachandpur	628	0.000	3.150
		12.	Ukhrul	576	0.000	3.020
6.	Mizoram	13.	Aizawl	300	0.000	4.050
7.	Nagaland	14.	Parren	305	0.000	4.283
8.	Tripura	15.	West Tripura	370	0.000	3.95
<b>Total=</b>					<b>6.77 mt</b>	<b>30.00mt</b>

**Expected raw silk output: 68.82 (BV: 34.73 t +ICB: 34.09 t) (During 3<sup>rd</sup> Qtr., 2018-19)**

Sl. No.	Name of the State/ No. of Cluster		Place	Farmers Covered (No.)	Expt. Raw Silk (t) ICB	Expt. Raw Silk (t) BV
1.	West Bengal	1.	Malda	850	9.14	5.33
		2.	Murshidabad	904	3.76	6.08
		3.	Nadia	410	5.98	2.38
		4.	Birbhum	300	15.62	2.00
2.	Odisha	5.	Ghatgaon(Keonjhor)	5	0.0024	0.00
		6.	Kashipur	18	0.00	0.05
3.	Bihar	7.	Kishanganj	50	0.59	0.00
4.	Assam	8.	Darrang	00	0.00	0.00
		9.	Udalguri	00	0.00	0.00
		10.	Jorhat	00	0.00	0.00
5.	Manipur	11.	Churachandpur	640	0.00	2.92
		12.	Ukhrul	640	0.00	3.03
6.	Mizoram	13.	Aizawl	00	0.00	0.00
7.	Nagaland	14.	Parren	00	0.00	0.00
8.	Tripura	15.	West Tripura	667	0.00	12.94
<b>Total=</b>					<b>34.09 mt</b>	<b>34.73 mt</b>

## ANNEXURE–XXVII

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.9. New plantation with improved varieties:

**Success indicator – i: Popularisation of C2028, C2038 and S1635 varieties: 71.33 acres. (upto 3<sup>rd</sup> Qtr., 2018-19).**

**Popularisation of C2028, C2038 and S1635 varieties: 10.5 acres. (During 1st Qtr., 2018-19).**

Sl. No.	Name of the Centre.	Acreage under mulberry	No.of farmers
1	RSRS, Jorhat.	4.0	8
2	REC, Dimpur	3.5	7
3	REC, Agartala	1.0	2
4	REC, Imphal.	1.0	2
5.	REC, Shillong.	1.0	2
<b>Total=</b>		<b>10.5 acres</b>	<b>21</b>

**Popularisation of C2028, C2038 and S1635 varieties: 22.5 acres. (During 2<sup>nd</sup> Qtr., 2018-19)**

Sl. No.	Name of the Centre.	Acreage under mulberry	No.of farmers
1.	RSRS, Koraput	5.0	10
2.	Mn Extn. unit	3.5	21
3.	REC, Aizwal	5.0	10
4.	REC, Agartala	4.0	8
5.	REC, Mongaldoi	2.5	5
6.	REC Sille	2.5	10
<b>Total=</b>		<b>22.50 acres</b>	<b>64</b>

**Popularisation of C2028, C2038 and S1635 varieties: 38.33 acres. (During 3<sup>rd</sup> Qtr., 2018-19).**

Sl. No.	Name of the Centre.	Acreage under mulberry	No.of farmers
1.	RSRS, Koraput	5.0	10
2.	RSRS, Kalimpong	2.5	10
3.	RSRS, Jorhat.	1.0	02
4.	REC, Agartala	0.5	01
5.	REC, Imphal.	4.0	8
6.	REC, Shillong.	4.0	8
7.	REC, Mongaldoi	2.5	5
8.	REC, Dhenkikote	10.0	10
9.	REC, Mothabari	0.33	01
10.	REC, Mamring	2.5	05
11.	REC Bhandra	10.0	20
<b>Total=</b>		<b>38.33 acres</b>	<b>80.0</b>

## ANNEXURE–XXVIII

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.10. Organisation of Swachha Resham Gram

**Success indicator – i: No of villages covered: 1 No. (Upto 3<sup>rd</sup> Qtr., 2018-19)**

**Name of the village: Mullickpur, Murshidabad**

**Objective:** To create awareness on cleanliness, health hygiene and overall development of sericulture farming community in the village through mobilization of resources from various agencies.

## ANNEXURE–XXIX

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.10. Organisation of Swachha Resham Gram

**Success indicator – ii: Adoption of villages: 90% (Upto 3<sup>rd</sup> Qtr., 2018-19)**

## ANNEXURE–XXX

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.11. 100 % Adoption of Technologies amongst different stake holders.

**Success indicator–i: Number of farmers covers under 100% adoption of technology: 1540 Nos. (upto 3<sup>rd</sup> qtr., 2018-19).**

**Details of Technologies Transferred :**

<b>Mulberry Cultivation</b>	<b>Silkworm Rearing</b>
<b>HYV-S1635</b> (Hills: BC259)	Use of general disinfectants and bed disinfectants.
<b>Spacing:</b> 2' x 2' (Irrigated) 3 'x 3' (Rainfed)	Productive silkworm hybrids: MxB/BxB
<b>FYM:</b> 20mt/ha/yr(Irrigated) 10mt/ha/yr(Rainfad)	Incubation of dfls
<b>Chemical fertilizers:</b> <b>Irrigated zone:-</b> N:P:K=360:180:112 kg/ha/yr <b>Rainfed zone:-</b> N:P:K=150:50:50 kg/ha/yr	Chawki Rearing
<b>Irrigation:</b> As and when required	Late age rearing
<b>Pruning, inter cultivation and weeding:</b> As per crop scheduled	Timely mounting and harvesting
<b>Integrated pest and disease management</b>	Integrated disease & pest management

## ANNEXURE-XXXI

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.

**Success indicator – i: No of programmes conducted: 139 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19).**

**No of programmes conducted: 29 Nos. (During 1<sup>st</sup> Qtr., 2018-19).**

Sl. No.	Name of the programme	No.of programmes
1	Awareness programme	2
2	Farmers Day	4
3	Workshop	1
4	Group discussion	19
5	Technology demonstration	2
6.	Field day	1
<b>Total=</b>		<b>29 Nos.</b>

**No of programmes conducted: 44 Nos. (During 2<sup>nd</sup> Qtr., 2018-19).**

Sl. No.	Name of the programme	No.of programmes
1	Awareness programme	6
2	Farmers Day	8
3	Workshop	0
4	Group discussion	21
5	Technology demonstration	8
6.	Field day	1
<b>Total=</b>		<b>44 Nos.</b>

**No of programmes conducted: 66 Nos. (During 3<sup>rd</sup> Qtr., 2018-19).**

Sl. No.	Name of the programme	No.of programmes
1	Awareness programme	7
2	Farmers Day	10
3	Group discussion	29
4	Technology demonstration	13
5	Field days	3
6.	RKM	4
<b>Total=</b>		<b>66 Nos.</b>



## ANNEXURE-XXXII

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.

**Success indicator – ii: No of farmers covered: 5461 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19).**

**No of farmers covered: 1169 Nos. (During 1<sup>st</sup> Qtr., 2018-19).**

Sl. No.	Name of the programme	No.of participants
1	Awareness programme	153
2	Farmers Day	206
3	Workshop	142
4	Group discussion	549
5	Technology demonstration	78
6	Field Day	41
<b>Total=</b>		<b>1169 Nos.</b>

**No of farmers covered: 1481 Nos. (During 2<sup>nd</sup> Qtr., 2018-19).**

Sl. No.	Name of the programme	No.of participants
1	Awareness programme	271
2	Farmers Day	302
3	Workshop	0
4	Group discussion	536
5	Technology demonstration	338
6	Field Day	34
<b>Total=</b>		<b>1481 Nos.</b>

**No of farmers covered: 2811 Nos. (During 3<sup>rd</sup> Qtr., 2018-19).**

Sl. No.	Name of the programme	No.of participants
1	Awareness programme	369
2	Farmers Day	388
3	Group discussion	843
4	Technology demonstration	496
5	Field Day	149
6	RKM	566
<b>Total=</b>		<b>2811 Nos.</b>

### **ANNEXURE–XXXIII**

#### **4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building**

##### **4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.**

**Success indicator – iii: Post programme follow up: 90%**

### **ANNEXURE–XXXIV**

#### **4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building**

##### **4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.**

**Success indicator – iv: Participation in Radio Programmes: 04 Nos. (upto 3<sup>rd</sup> Qtr., 2018-19).**

- CSR&TI, Berhampore-02 : [AIR, Murshidabad on dated 05.05.2018& AIR, MAITRI channel on 27.12.18 at 06.40 pm]
- REC, Aizwal-01 [Tips on Successful rearing of Muga in Mizo Language on 26.05.2018 under rural Programme].
- Bhandra-01 [Mulberry silkworm diseases and their control broadcasted in AIR, Ranchi on 12.11.18 at 6.30 pm. )

### **ANNEXURE–XXXV**

#### **4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building**

##### **4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.**

**Success indicator – v: Participation in TV Program.: 6 Nos. (upto 3<sup>rd</sup> Qtr.,2018-19**

**No of programmes covered:**

1. REC, Agartala-1(NEWS BENGAT on dated 15.03.2018).
2. REC, Aizwal-1 (local TV channel “ZONET” on dated 10.04.2018)
3. CSR&TI, Berhampore-1 (local TV channel “IMAGIN” on dated 05.05.2018.
4. CSR&TI, Berhampore-1 (local TV channel “IMAGIN” on dated 11.05.2018.
5. CSR&TI, Berhampore-1 (local TV channel “IMAGIN” on dated 21.05.2018.
6. CSR&TI, Berhampore-1 (local TV channel “IMAGIN”CTV in Madhya Banga News on 15.10.2018.

## ANNEXURE-XXXVI

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.

**Success indicator – vi: No. of Success stories submitted for publication under various aspects: 2 No. (upto 3<sup>rd</sup> Qtr., 2018-19)**

1. A success story of Seri-farmer sent to the Editor, Indian Silk, CSB, Bangalore vide letter No. CSB/CSR&TI/ PMCE/P-4(F)/2018-19/939/5135 dated 21.08.2018.
2. Another success story of Seri-farmer published in News & Views; Vol.12 : No. 1 at CSRTI, Berhampore.

Vol. 12 No. 1
NEWS & VIEWS

**SUCCESS STORY OF A SERI-FARMER**



➤ Name :	Samsul Haque,
➤ Father's Name :	Late Badsha Shaikh
➤ Village :	Korjora
➤ Block :	Nabagram
➤ Dist :	Murshidabad,
➤ Mobile :	9735331730

Md. Samsul Haque is a progressive farmer of Korjora Village of Murshidabad. He is a role model of sericulture farmers of West Bengal. He started his new life by adopting sericulture as main profession in 1990 when his native village "Kelai" in Khargram Block of Murshidabad was washed away due to devastating flood. He took the assistance of REC, Nabagram (Presently REC Kamnagar), through regular contact. He started plantation of S1635 in 2' x 2' spacing in 1.0 bigha land. Initially he got annual leaf yield of 2.5 t/ha and reared 100 dits Multi x Multi in all the 5 crops with an annual return range from Rs.12000 to Rs.15000. Taken advantage of undergoing ISDS Training from CSR&TI, Berhampore, got acquainted with improved sericultural technologies and advance package of practices of mulberry cultivation and silkworm rearing, he increased plantation from 1.0 bigha to 2.0 bigha along with the adoption of Bivoltine rearing during Agrahayani (Oct – Nov.) and Falguni (Feb.) crop. He is now earning annually income ranging from Rs.1.5 to 2.0 lakh and has got model rearing house under CDP Scheme. Qualifying all the eligible criteria, he has provided Chawki rearing centre for conducting CPP-Bivoltine rearing during Agrahayani (Oct. – Nov.) and Falguni (Feb.) crop under Murshidabad cluster. He has also been nominated as rearers representative in Research Advisory Committee of CSR&TI, Berhampore (2017-2020).

Earning from sericulture (Bivoltine silkworm rearing), he has built Pucca dwelling house with all facilities of TV, Fridge, Water pump etc. and able to arrange marriage of his daughter in well-established family. In the year 2018-19, he has planned to extend his mulberry plantation further with recently authorized C- 2038 mulberry variety which shows his thrust of adoption of new technologies. Besides, he has a desire to convert his "Tray" rearing method with "Shelf Rearing" to make silkworm rearing more women friendly as well as to reduce manpower.

Now Md. Haque is living peacefully with family having his endless endeavour of further improving his annual return from Sericulture. Thus, unemployed youth may get inspiration from Md. Samsul who has proved that sericulture may provide self employment, if it is practiced meticulously and with love.

- ❑ A guest lectu Berhampore and its benefi participated.
- ❑ A guest lectu T. K. Mitra, S his team, he stakeholders, participated a
- ❑ A guest lectu Director of A 14<sup>th</sup> March, without which and Scientist
- ❑ A guest lect Principal, Gc Murshidabad, "Fractal geor interacted wit the institute w
- ❑ A guest lectu Prapita Esha She explains Scientists and officers/ offic
- ❑ A guest lectu M.G. Das, F Bengal on 19 in India was North to Mani
- ❑ "Internationa CSR&TI, Ber Berhampore, on Yoga to th



Flourished mulberry leaves



Tray rearing of silkworm larvae



Good Quality MV Cocoon



Happy Samsul with mild smile

Director, CSR bulletin regul Demonstration events. Officer and Sub-RECs their articles t the said publ csrti@csbga



Phone: 03482 Email: csrti@csbga

## **ANNEXURE–XXXVII**

### **4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building**

#### **4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.**

**Success indicator – vii: Number of papers / popular articles published like Indian Silk Magazine: 4 Nos. (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

- 1) Chanda, S., Manjunatha, G. R., Pappachan, A., Das, D. Trivedy, K. (2018). Variation in the occurrence of major sucking pests on mulberry in West Bengal, India. *Bioinfolet* (Accepted for Publication).
- 2) S.Sarkar, S.Karmakar, D.Pandit, Manjunath, G.R., S.Afroj, D.Das, T.Dutta Biswas and K.Trivedy (2018). A report on Resham Krishi Mela was organized at CSR&TI, Berhampore on Jan., 2018. (Indian Silk: Feb. to April, 2018, p.43.).
- 3) S.Sarkar, S.Karmakar, Manjunath, G.R., D.Pandit and K.Trivedy (2018).. A report on visit of Shri Keshari Nath Tripathi, Hon'ble Governor of West Bengal at CSR&TI, Berhampore on 6<sup>th</sup> Feb., 2018. (Indian Silk: Feb. to April, 2018, p.31).
- 4) Ranjit Kar, Vrajan Vijay and Kanika Trivedy (2018). Comparative performance of farming practices in terms of carbon sequestration potential of mulberry and soil organic carbon stock. *J. Soil Sci. Environ. Manage.* 9(10), 147-153. DOI: 10.5897/JSSEM2018.0697

## **ANNEXURE–XXXVIII**

### **4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building**

#### **4.12. Extension communication programmes viz., Group discussion, Awareness programme, Field days, Krishi Melas etc.**

**Success indicator – viii: Video of International quality on all the popular technologies developed by Institute: Nil (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

## ANNEXURE-XXXIX

### 4. Field level Interventions for Quality and productivity Improvement through Information, Education and Communication and Capacity Building

#### 4.13. Skill Development:

**Success indicator– i: Beneficiaries trained under structured programmes, need based programme etc.: 440 Nos. (Upto the 3<sup>rd</sup> Qtr., 2018-19).**

**During 1<sup>st</sup> Qtr., 2018-19: 84 Nos.**

SL. No.	Name of Programme	No of Trainees	Duration
1.	Post Graduate Diploma in Sericulture	<b>20 Nos.</b> a) Manipur: 09 b) Mizoram: 02 c) Arunachal: 05 d) J & K: 02 e) Odisha: 01 f) Telengana: 01	July, 2017 to Sept., 2018
2.	Integrated Disease & Pest Management:	21 Nos..	24.05.2018 to 28.05.2018
3.	Late Age Rearing:	10 Nos.	29.05.2018 to 07.06.2018.
4.	Chawki Rearing:	17 Nos.	11.06.2018 to 20.06.2018
5.	Integrated Disease & Pest Management:	14 Nos.	21.06.2018 to 25.06.2018
6.	Intensive training Programmes:	02 Nos.	05/03/2018 to 18/04/2018
<b>Farmers Skill Training=</b>		<b>64 Nos.</b>	
<b>TOTAL =</b>		<b>84 Nos.</b>	

**During 2<sup>nd</sup> Qtr., 2018-19: 263 Nos.**

SL. No.	Name of Programme	No of Trainees	Duration
1	Post Graduate Diploma in Sericulture	<b>38 Nos.</b> a) Assam : 21 b) Mizoram : 07 c) Arunachal Pradesh : 04 d) Nagaland : 01 e) Jharkhand : 01 f) Manipur : 04	July, 2018 to Sept., 2019
1	Late age Rearing (FST)	15 Nos.	26/06-05/07/18
2	Chawki Rearing (FST)	14 Nos.	09-18/07/18
3	Mulberry Cultivation (FST)	09 Nos.	19-23/07/18
4	Late age Rearing (FST)	22 Nos.	24/7-2/08/18
5	Chawki Rearing (FST)	20 Nos.	07-16/08/18
6	Mulberry Cultivation (FST)	24 Nos.	17-21/08/18

7	Late age rearing (FST)	20 Nos.	23/8-01/09/18
	<b>TOTAL (FST)</b>	<b>124 Nos.</b>	
8	Post cocoon Technology (PCT)	20	03-05/09/18
9	Post cocoon Technology (PCT)	14	10-12/09/18
	<b>TOTAL PCT)</b>	<b>34</b>	
10	SRC Conducted by Nadia SRC	23	18/09/18
11	SRC Conducted by Nadia SRC	23	20/09/18
	<b>TOTAL (SRC)</b>	<b>46</b>	
12	Technology orientation Program (TOP)	21	4-5/09/18
	<b>GRAND TOTAL</b>	<b>263 Nos.</b>	

**Late age silkworm rearing under FST Programme (26/06/18 to 05/07/18)**

Sl. No.	Name of the farm	Address	Sex	Cat.	Aadhar no	Mob no.
1	Subrata Mondal	Sargachhi,	M	Gen	320809347944	9547843536
2	Madhusudan Sarkar	Sargachhi,	M	Gen	442274979308	9635170867
3	Aditya Mondal	Kumrai,Murs	M	OBC	504775201659	7407716710
4	Minarul Khan	Nischintapur,	M	Gen	600030619898	8001389188
5	Bakkar Ali Sk	Boradobapar	M	Gen	726407017162	8436689683
6	Mainoor Sheikh	Gotepara,Na	M	Gen	809516113890	811323949
7	Imran Ali Shaikh	Palsunda,Na	M	Gen	510268101831	7602382313
8	Srihari Maity	Rajnagar,24P	M	Gen	371276311722	--
9	Prasanta Mondal	Radhana 24	M	OBC	715182207762	--
10	Arun Mondal	Sripur,Malda	M	OBC	712102084344	9735473837
11	Swapan Kumar Mand	Shibutola,Ma	M	OBC	665477110807	9734362788
12	Shukru Mondal	Sripur,Malda	M	SC	249792044613	7719314463
13	Rahul Mondal	Shibutola,Ma	M	OBC	691750651074	7076678726
14	Biswajit Mondal	Sripur,Malda	M	Gen	345176236041	8597691370
15	Almin Sk	Palsunda	M	Gen	712338650693	9126057731

**Chawki Silkworm Rearing for 10 days from 9/07/18 to 18/07/18 ( FST ) from West Bengal.**

Sl. No.	Name of the farmer	Sex	Catagory	Phone no	Aadhar no
1	Papiya Naskar	F	G	8436498104	481264655773
2	Paritosh Kumar Sarkar	M	SC	9609809714	665944132781
3	Tapasi Mondal	F	G	8436498104	812710375976
4	Hasibur Rahaman Molla	M	G	8768040101	302996527087
5	Yousuf Malithya	M	OBC	8001432853	880547251007
6	Soleman Mondal	M	OBC	8927052746	762010583989
7	Mustaque Hossain	M	G	9735330183	736634827520
8	Sushil Barman	M	SC	9735950495	748612964994
9	Kamal Modak	M	OBC	9735950495	359589016589
10	Afjal Hossain	M	G	9733366129	271340753844
11	Majibur Rahaman	M	G	9593892788	810258243779
12	Umesh Chandra Das	M	SC	9135380909	947526136173
13	Suparna Das	F	SC	7432922973	679125729601
14	Aparna Das	F	SC	7432922979	853196340840





Chawki Silkworm Rearing

Feeding to Chawki Silkworm by the trainees

### Mulberry cultivation for 5 days from 19/07/18 to 23/07/18 from West Bengal (FST)

SL	NAME OF THE FARMER	SEX	CATAGORY	MOBILE NO	AADHAR NO
1	Pradip Singha	M	G	8116368808	285991260912
2	Bhushan Singha	M	G	9091455468	891930013802
3	Rajesh Singha	M	G	9614076432	531824046778
4	Mahesh Barman	M	SC	7583990417	311460014058
5	Mantu Barman	M	SC	8016113550	641268299407
6	Dhiraj Sarker	M	OBC	7063806227	379247942841
7	Pradip Kumar Sarkar	M	G	9734908580	933560987638
8	Hirendra Sarkar	M	G	--	849679746013
9	Hasanta Sarkar	M	G	8670131388	767144651073



Farmers are in Mulberry Field



In Mulberry Field

### Late age rearing for 10 days from 24/07/18 to 02/08/18 West Bengal Batch (FST)

SL	NAME OF THE FARMER	SEX	CATAGORY	MOBILE NO	AADHAR NO
1	Keramat Molla	M	G	8101323925	407439945907
2	Nagan Barman	M	SC	8967487195	406753949797
3	Krishna Kanta Roy	M	SC	9002509693	572928252789
4	Abu Kalam Ajad	M	G	7585980565	394585947759
5	Shankar Chhettri	M	ST	--	887948036434
6	Dorje Tamang	M	ST	--	549515687935
7	Bandhu Ekka	M	ST	7407219531	367474164389
8	Anarul Haque	M	OBC	--	887013378548
9	Rakibul Sk	M	OBC	9091995713	741340719882
10	Nemai Moulick	M	G	9732124628	917421119309
11	Abdul Jakir	M	G	7797522831	904137789546
12	Shailendra Nath Mondal	M	SC	9564696040	352293972018

13	Chinmoy Mondal	M	SC	8768167667	580994325968
14	Ashish MOnDal	M	SC	9083127569	697532830992
15	Faijuddin Sk	M	G	9735532741	333105602887
16	Pradip Mondal	M	SC	7407185764	790893733707
17	Anisur Rahaman	M	G	7407979087	508985318060
18	Arabinda Mondal	M	SC	9953898508	683069759893
19	Niloy Mondal	M	SC	7431820645	413610530115
20	Krishna Kumar Sarkar	M	SC	7431820645	722610392469
21	Shyamal Roy	M	G	7063668716	500859002771
22	Sahadeb Mondal	M	SC	9635273834	954990829793

**Chawki silkworm rearing for ten days from 07/08/18 to 16/08/18, West Bengal Batch (FST)**

SL	NAME OF THE FARMER	SEX	CATAGORY	MOBILE NO	AADHAR NO
1	Abdul Jakir	M	G	7797522831	904137789546
2	Alibas Sk	M	G	9732167817	321815646322
3	Bappa Barman	M	SC	9593806267	343877418967
4	Dayal Debsharma	M	SC	7602428374	935267306364
5	Chinmoy Mondal	M	Sc	8768167667	580994325968
6	Gopal Barmon	M	SC	8145703437	589482892610
7	Kabiluddin Sk	M	OBC	7872246970	556546995237
8	Prafulla Barman	M	SC	8768768858	603348764332
9	Biswjit Barman	M	SC	6294361337	537365383709
10	Shyamal Jana	M	G	7477673845	620892091742
11	Jasimuddin Sk	M	OBC	9775141711	929320066113
12	Santana Mondal	F	SC	9093947741	432038656597
13	Nirmal Bera	M	G	8597470404	443964574430
14	Shyamal Sengupta	M	G	8967735224	229378701787
15	Niren Barman	M	SC	9932873970	552899084204
16	Ajfar Sk	M	G	9732191188	587193603489
17	Abu Zakkar	M	G	9641788482	991431424120
18	Giyasuddin Sk	M	G	9641788482	902894540547
19	Ketab Ali Sk	M	G	7547924074	780048787616
20	Abul Kalam	M	G	8016059768	619572838398

**Mulberry cultivation for five days from 17/08/18 to 21/08/18 from West Bengal Batch.(FST)**

SL	NAME OF THE FARMERS	VILLAGE	SEX	CASTE	MOB.NO	AADHAR NO
1	Nur Habibur Rahaman	Rawtara	M	OBC	8927944388	946512273279
2	Janna Rahaman Molla	Rawtara	M	G	8597212177	289038389390
3	Hapijul Sk	Natna	M	G	7718369645	909092033501
4	Mahirul Sha	Natna	M	G	9735746107	656346110175
5	Monoranjana Mondal	Daulatpur	M	SC	9083182426	983524228650
6	Gorachand Mondal	Daulatpur	M	SC	7076101168	977945943098
7	Jahangir Alam	Dhanigram	M	OBC	7431984260	955116944080
8	Pinku Mondal	Balarampur	M	SC	7384878963	563061666652
9	Merajul Sk	Dunigram	M	OBC	8514080134	850475461409
10	Md Mukleshur Rahaman	Keshorpur	M	G	8373866244	875525125906
11	Faijuddin Sk	Milki	M	G	7407242356	506938955493
12	Rejabul Haque	Jafarpur	M	OBC	7478948257	271808907965
13	SAntosh Marjit	Dangapara	M	SC	7074685356	753644081216
14	Md Basaruddin Sk	Babladanga	M	OBC	9775917268	505841460700
15	Tohidul Sk	Babladanga	M	OBC	7063397305	253499667843
16	Sayan Biswas	Hridaypur	M	G	8350009255	560016662875
17	Manik Chandra Let	Tailyapara	M	SC	7602193096	617803488689
18	Pulak Mukherjee	Nadishik	M	G	9734132844	327642652300
19	Biplab Malo	Uttar	M	SC	9851929813	353367200030



		Bhawanipur				
20	Liton Malo	Uttar Bhawanipur	M	SC	9593701523	629202240757
21	Basudeb Mondal	Sadarpur	M	SC	9547332429	233888473666
22	Sahajahan	Rampur	M	G	7063137520	799846078347
23	Subhas Let	Tailyapara	M	SC	8016989558	559364347226
24	Swapan Mondal	Bargachia	M	SC	7602737125	SPHH33226637

**Late age silkwarm rearing for ten days from 23/08/18 to 01/09/18 from West Bengal (FST)**

SL	NAME OF THE FARMER	VILLAGE	SEX	CASTE	MOBILE NO	AADHAR NO
1	Uttam Sarkar	Parkandi	M	SC	7478703075	746447907875
2	Jayhari Mondal	Ramnagar	M	SC	8670893025	592185128142
3	Tahidul Islam	Babladanga	M	OBC	9733775246	998091235689
4	Rakibul Hasan	Babladanga	M	OBC	9137701722	858186082642
5	Ashutosh Mondal	Kuriatair	M	SC	8967594111	838888741488
6	Binay Mondal	Alamtola	M	SC	8016952310	765577601447
7	Dinesh Chandra Roy	Mandabghata	M	SC	9735758123	977460640358
8	Ashok Sarkar	Bagduma	M	SC	7384042361	929618146153
9	Gabin Sarkar	Putahari	M	SC	8670719595	696274136813
10	Sumati Bala	Uttar Kulberia	F	SC	9564212421	279154071473
11	Mayna Biswas	Purdaha	F	SC	7407308626	313643249655
12	Ramala Samajpati	Purdaha	F	SC	7407308626	243942100559
13	Subasi Biswas	Purdaha	F	SC	7407308626	938364409075
14	Sekh SErajuddin	Yeakubtola	M	OBC	8538004930	300681268877
15	Bakkar Ali	Naogon	M	OBC	7076742281	608860674919
16	Md Abdul Mannan	Mandapara	M	OBC	7470121415	658178681315
17	Yunus Miya	Petlanyapra	M	OBC	9932142431	348844337393
18	Manteshwar Barman	Atiyabarinepra	M	SC	9641364481	791364818585
19	Kanteshwar Barman	Atiyabarinepra	M	Sc	8170802467	872779988175
20	Iquebal Ahmmmed	Nabinagar	M	G	9093203791	661343705899

**Post Cocoon Technology for three days from 03/09/18 to 05/09/18 (PCT)**

SL	NAME OF THE FARMER	VILLAGE	SEX	CASTE	MOBILE NO	AADHAR NO
1	Sohail Mondal	Pipulkhola	M	G	9732371604	288074895046
2	Babar Ali Sk	Dogachi	M	G	8436945741	255967218335
3	Mosharaf Sk	Khaltipur	M	G	9734002115	659510544720
4	Md Khairul Islam	Khaltipur	M	G	9832340270	367917929403
5	Md Kamrujjaman	Khaltipur	M	OBC	9609781344	219458476601
6	Abdul Hannan Momin	Khaltipur	M	G	8768814340	996626343001
7	Md Harif Ali	Khaltipur	M	OBC	9609767406	894993132122
8	Ajharul	Khaltipur	M	OBC	7547921590	619759781800
9	Dhananjoy Mondal	Margram	M	SC	8667837055	277408259775
10	Gaffar Sk	Bhuskul	M	G	7551878842	544600724205
11	Md Kawsar Ali	Bhuskul	M	G	9144846516	625568618319
12	Pintu Pramanik	Saheb Nagar	M	OBC	8001980074	277856357098
13	Fajal Khan	Kuchaidanga	M	OBC	7478797883	298928031401
14	Asbarul Khan	Kuchaidanga	M	G	6295324907	647528284960
15	Aftabuddin Sk	Bhuskul	M	G	9735221202	790710562014
16	Ramjan Sk	Panchgram	M	OBC	9734712493	898433893419
17	Tanjil Sk	Panchgram	M	G	8373881598	510520886417
18	Abu Hossain Sekh	Kochubari	M	OBC	7797305265	982155203334
19	Ramesh Mondal	Margram	M	SC	9064058367	249712264846
20	Dipak Mondal	Margram	M	SC	9046926276	838302878300

**Post Cocoon Technology for three days from 10/09/18 to 12/09/18 ,West Bengal Batch (PCT)**

SL NO	NAME OF FARMER	VILLAGE	SEX	CASTE	MOBILE NO	AADHAR NO
1	Salauddin Momin	Marupur	M	Gen	9932184190	370372504989
2	Fakiruddin Momin	Agamilky	M	Gen	9733105650	603251151676
3	Ansarul Sk	Basanitola	M	Gen	9563376955	632037865037
4	Sher Ali Momin	Basanitola	M	Gen	8327400640	681238156575
5	Md Mahabul Sekh	Chatra Maheshpur	M	OBC	7797076015	433992633348
6	Hafijur Rahaman	Basanitola	M	Gen	9064677199	505854132890
7	Erajuddin Momin	Marupur	M	Gen	9647071163	885182618457
8	Joshimuddin Momin	Maheshpur	M	Gen	9609139375	595455797284
9	Abdul Alim	Basanitola	M	Gen	7602504344	990636146084
10	Nazrul Islam	Alinagar	M	Gen	9732737324	971986597909
11	Dulal Mondal	Kundapara	M	SC	7602730574	508558437586
12	Satyendra Nath Mondal	Roypur	M	SC	9734272608	599787884473
13	Nuroj Ali Sekh	Dhanigram	M	OBC	9647452238	778759825591
14	Munkir Ali	Dangapara	M	OBC	9735813420	731939392940

**Technology Orientation programme on 12/09/18 (PFMS Training Prog. of officers and staff of CSR&TI, Berhampore)**

SL	NAME OF PARTICIPANTS	DESIGNATION	SEX	SECTION
1	Sri Subhasish Ghosh	AD (A&A)	M	Store
2	Sri S.S.Das	Supdt (Admn)	M	Store
3	Sri K.Bhaduri	Asst Supdt (Admn)	M	Store
4	Sri Uttam Mondal	Tech Asst	M	Store
5	Sri S.Roy	Tech Asst	M	Store
6	Sri Samir Kumar Roy	Asst Supdt (Admn)	M	Training
7	MS Razia Sultana	UDC	F	Establishment.
8	MS Madhabi Mondal	UDC	F	Establishment
9	Sri Goutam Halder	Asst Supdt (Admn)	M	Accounts
10	Sri Basudeb Ganguli	UDC	M	Accounts
11	Sri Avijit Saha	Jr Eng.	M	Maintenance
12	Syed Badrudduza	Tech Asst	M	Maintenance
13	Sri J.Srinivas	Jr Eng	M	Electrical
14	Sri Uttam Kumar Dutta	Technician	M	Electrical
15	Sri Saumen Chatterjee	Tech Asst	M	MBG
16	Sri Nilmony Chakraborty	Tech Asst	M	Mul.Pathology
17	Sri Pradip Bhowmik	Tech Asst	M	Agronomy
18	Sri K.Rahul	Scientist- B	M	Silkworm Patho.
19	Dr N.Chandrakanta	Scientist- B	M	SBG
20	Sri Mangal Saha	Tech Asst	M	Extension
21	Sri Bipad Karmakar	Tech Asst	M	BV Cell.

**During 3<sup>rd</sup> Qtr., 2018-19: 93 persons.**

**A.Refreshers Training on Chawki Silkworm Rearing w.e.f. 24/09/18 to 01/10/18 sponsored by NSSO (NON CBT): 10 persons.**

Sl. No.	Name of farmer	Village	Sex	Caste	Mobile no	Aadhar no
1	Abdul Safique	Kamtultala	M	G	9775853695	210048325132
2	Sanloy Mondal	Domaichak	M	OBC	9734168998	759957838403
3	Chand Mohammad Biswas	Chenga	M	OBC	8159070420	228394323149
4	Shahadat Sk	Palsunda	M	OBC	8944992909	933409911457

5	Bikash Chandra Roy	Durgapur	M	G	9732507290	764495686476
6	Anwarul Hoque	Bahadurpur	M	G	9333874281	780056762293
7	Emajuddin Sk	Mathavanga	M	G	9735071261	629493157870
8	Md Hasiruddin	Nabinagar	M	G	9735071261	629493157870
9	Rahamatulla Sk	Mathavanga	M	OBC	9635291868	519634130968
10	Md Matiur Rahaman	Nabinagar	M	G	8101190777	650094569940



**B. Mulberry awareness programme by the farmers from Kushinar Uttarpradesh for five days from 12/11/18 to 16/11/18: 25 persons**

Sl. No.	Name of farmers	Village	Sex	Caste	Mob.No
1	Kapil dev	Karundi	M	OBC	9450468970
2	Sahan prasad	Jhanga	M	OBC	7084677951
3	Vishal kumar	Jhanga	M	SC	9793475970
4	Mr raju	Padari	M	SC	7379779021
5	Bharath	Dhaurahara	M	SC	--
6	Govind madheshiya	Dhaurehara	M	OBC	8934077055
7	Nilesh	Dhaurehara	M	SC	8948900807
8	Govind	Jhanga	M	OBC	9115034690
9	Shriram	Ghortap	M	OBC	9648033960
10	Jhanak raj	Dudhi	M	OBC	--
11	Dasharath Choudhuri	Karadah	M	OBC	9936976237
12	Kamal	Madhapore	M	OBC	9450488202
13	Ramsamujh	Karadah	M	OBC	--
14	Vinit kumar Tiwari	Noonkher	M	GEN	8354854624
15	Lalu	Asgartola	M	SC	9919424574
16	Harinarayan Ram	Janaupur	M	SC	9161338964
17	Arun Vishwakarma	Karaundi	M	OBC	9538208340
18	Deepak	Karaundi	M	OBC	7068189123
19	Dhiraj	Karaundi	M	OBC	9984973693
20	Nitish Patel	Karaundi	M	OBC	9125094256
21	Awanish Yadav	Dhuria	M	OBC	7785975374
22	Ashisha Yadav	Hathiagarh	M	OBC	8808254086
23	Aman Kumar Yadav	Madangopal	M	OBC	7081773198
24	Arun Kumar Yadav	Saragatia	M	OBC	9450516291
25	Lakshuman	Kardah	M	OBC	7860171257

**C. Intensive training programme by the CSB official for two months w.e.f. 03/09/2018 to 02/11/2018: 1 person.**

Sl. No.	Name of the official	Place of posting	Sex	Caste	Mob.no
1	Bishnu Khawas, Field Asstt.	REC, Rongpo, Sikkim	F	ST	6296586396

**D. Intensive training programme by the CSB officials for one month from 12/11/18 to 11/12/18: 11 persons.**

Sl. No.	Name of the officials	Place of posting	Sex	Caste	Mob.no
1	Dabiram Das ,TA	REC, Mangaldai	M	SC	6000584342
2	Subedar Partin, TA	REC, Sille	M	ST	8416088753
3	Rajat Kumar Mohanayek, TA	REC, Dhenkikote	M	OBC	9937696613
4	Vanlaldinga ,MTS	REC, Aizawl	M	ST	9862156334
5	Utpal Bora , FA	REC, Aizawl	M	OBC	8638490561
6	Radhu Bhujel, MTS	REC, Sillong	F	ST	9775496470
7	Mamani Phatowari ,MTS	REC, Mangaldai	F	ST	9401058554
8	Majid Sahah, FA	REC, Agartola	M	OBC	9856604286
9	Bijoy Das, FA	REC, Mangaldai	M	SC	8876039887
10	Biman Bora, MTS	RSRS, Jorhat	M	G	9854664435
11	Atul Saikia,MTS	RSRS, Jorhat	M	G	9678148810

**E. Exposure visit on mulberry sericulture by the farmers from Assam from 27/11/18 to 29/11/18: 26 persons.**

Sl. No.	Name of the farmers	Sex	Mob.no	Caste
1	Smt Giribala Nath	F	8135975924	SC
2	Smtsadhana Nath	F	6000198017	SC
3	Smt Himadri Nath	F	9126399821	SC
4	Ilarani Begum	F	9577857114	G
5	Dipika Saramah	F	9531096470	G
6	Smt Mira Nath	F	8638003717	SC
7	Smt Basanti Nath	F	8638003717	SC
8	Smt Urbashi Nath	F	8310832753	SC
9	Smt Biju Nath	F	8876419325	SC
10	Smt Deepa Nath Baishya	F	8812945681	G
11	Smt Purabi Nath	F	9957911473	SC
12	Smt Sarala Deka	F	6000373617	SC
13	Smt Anjana Kalitha	F	9365062265	SC
14	Smt Narmala Kalitha	F	8472941508	SC
15	Smt Khemeswari Hazarika	F	6900890668	G
16	Smt Manju Nath	F	8486101456	SC
17	Smt Padumi Nath	F	8876092779	SC
18	Juri Sarma	F	9854551959	G
19	Smt Dharitri Nath	F	9577542688	SC
20	Smt Hemlata Devi	F	7035940745	OBC
21	Smt Manisha Bhagawati	F	8822907801	G
22	Smt Januman Devi	F	9577613942	G
23	Smt Madhabi Choudhury	F	9577952822	G
24	Smt Hemlata Deka	F	7035153556	SC
25	Smt Pramada Bora	F	9854660586	G
26	Smt Prabhawati Deka	F	9613638032	SC

**F. Exposure visit on mulberry sericulture from UP batch from 03/12/18 to 07/12/18:  
20 persons.**

Sl. No	Name of the farmer	Sex	Mob.no	Caste
1	Santalal Bind	M	9956382426	OBC
2	Rajesh Kumar Singh	M	9651867227	OBC
3	Janardhan Prasad Singh	M	9935682784	OBC
4	Avadesh Kumar	M	9455957712	OBC
5	Arvind Kr Patel	M	7068338169	OBC
6	Jiaram	M	8009712556	OBC
7	Dilip Kumar	M	6393557616	OBC
8	Munnalal	M	8127028837	OBC
9	Vikash Pandey	M	9621310787	OBC
10	Sandeep Kr Pal	M	8577918565	OBC
11	Pintoo	M	9118355135	SC
12	Devraj Saroj	M	9695058618	SC
13	Pawan Kumar Saroj	M	9119094946	SC
14	Harihar Yadav	M	9565168049	OBC
15	Rambilash Singh Yadav	M	8543991390	OBC
16	Dayasankar Yadav	M	9125739323	OBC
17	Rajeshwar Kumar	M	9936459677	OBC
18	Munna Ram	M	7052527995	OBC
19	Abhishek Kumar	M	9807777980	OBC
20	Onkernath Prasad	M	8840890393	OBC

## **ANNEXURE-XXXX**

### **5. Revenue Generation**

#### **5.14. Generation of funds as per XII Plan guidelines**

**Success indicator-i: Revenue generation through commercialisation of Technology: nil (upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE-XXXXI**

### **5. Revenue Generation**

#### **5.14. Generation of funds as per XII Plan guidelines**

**Success indicator – ii: Revenue generation through other methods: 10.95 lakhs. (upto 3<sup>rd</sup> Qtr., 2018-19).**

**Revenue generation through other methods: 1.66 lakhs. (During 1<sup>st</sup> Qtr., 2018-19).**

[illegible]

**Revenue generation through other methods: 3.41 lakhs. (During 2<sup>nd</sup> Qtr., 2018-19).**

[illegible]

Revenue generation through other methods: 5.88 lakhs. (During 3<sup>rd</sup> Qtr., 2018-19).

ANNEXURE - RP - 3			
CENTRAL SILK BOARD, BANGALORE - 560 088			
DETAILS OF OTHER MISCELLANEOUS RECEIPTS AND RECEIPTS CREDITABLE TO GOVT. OF INDIA IN RESPECT OF C.S.R & T.J., BERRAMPORE (W.B) UPTO 30.11.2018.			
Page - 5-6			
SL. NO.	PARTICULARS	[In Rupees]	
		RECEIPTS ACCRUED UPTO THE MONTH	PAYMENTS / REMITTANCE UPTO THE MONTH CLOSING BALANCE AS ON 30.11.2018
I.	OTHER MISCELLANEOUS RECEIPTS		
[A]	SALES		
1	Sale of Fixed Assets	500.00	500.00
2	Buy Back Value / Discount on Sale of Assets	0.00	0.00
3	Sale of Unserviceable Items / Scrap	1350.00	1350.00
4	Sale of Old Newspapers/books	0.00	0.00
5	Sale of CSB Publications	1400.00	1400.00
6	Sale of Tender Documents	0.00	0.00
7	Sale of Blank Term Forms/Booklet	0.00	0.00
8	Sale of Uzi Traps / Vaseline	0.00	0.00
9	Sale of Chemicals / Fertilizers / Pesticides	0.00	0.00
10	Sale of Inter Crops	1960.00	1960.00
11	Sale of Mulberry Cuttings / Saplings / Scumps / Leaves	0.00	0.00
12	Sale of Cocoons / Pierced Cocoons / DPLs	31405.00	24689.00
13	Sale of Raw Silk / Yarn / Raw Silk Waste / Silk Waste	0.00	0.00
14	Sale of Grass / Fallen Trees & Branches / Fire Wood / Farm Waste	0.00	0.00
15	Sale of Cocoons / Fruits & Vegetables grown in Farm / Gunny Bags/Earth worm	0.00	0.00
16	Sale of Silk Flax	0.00	0.00
17	Sale of damage Chendrak	0.00	0.00
18	Sale of PGDS Application form	19227.00	14837.00
19	Sale from Water Plant ATM	0.00	0.00
[B]	CONSULTANCY & PROFESSIONAL FEES		
1	Consultancy by Scientists / Others	0.00	0.00
2	Royalty / Licence / Patent Fees	1000.00	1000.00
3	Course Fees / Fees for Explorer visit	0.00	0.00
4	Soil Testing charges	0.00	0.00
5	Sample Testing charges	0.00	0.00
6	Inspection / Testing / Grading charges	15263.00	13319.00
7	Xerox Charges/Service Xerox Charges	0.00	0.00
[C]	RENT & HIRING CHARGES		
1	Building Rent & Lease Amount	16629.00	16629.00
2	Rent received on STD Booth / Bank	5370.00	5370.00
3	Office vehicle / Lorry / Bus hiring charges	3500.00	3500.00
4	Rent received on Auditorium/Canteen/Club/Quarter/Trip	0.00	0.00
5		0.00	0.00
[F]	OTHER RECEIPTS		
1	Income from Hostel / Guest House	391509.00	307400.00
2	Identity card charges	200.00	100.00
3	Revenue stamp amount	0.00	0.00
4	Resham Krishi Bhawan Subscription	800.00	800.00
5	DOB recovery / DBT / Others	0.00	0.00
6	Brushing charges	0.00	0.00
7	Refunds received on account of CDP from ARD,	0.00	0.00
8	House Rent / Licence Fees / Electricity charges/ Water charges	319594.00	284851.00
9	RTI Amount	10.00	10.00
10	Surrender of Sale Cheques	0.00	0.00
11	Refund of bank Charges of previous year	0.00	0.00
12	Time bar cheque cancel	0.00	0.00
13	Telephone Charges	0.00	0.00
14	Official Language Deptt./New Delhi/Tolly	3000.00	0.00
TOTAL - I (OTHER MISCELLANEOUS RECEIPTS)		1095308.00	677715.00
[ P.A.S. - TO TALLY WITH THE GLS A - 600 to A - 645 ] [ REFER SLIDE NO.11 OF P.A.S OUTPUT ]			

## ANNEXURE-XXXXII

6. Strengthening institutional framework to support ongoing research and related programmes

6.15. Utilization of existing land holdings

Success indicator – i: Effective utilization of cultivable land for assigned mandates: 32 Acres. (upto 3<sup>rd</sup> Qtr., 2018-19).

### ANNEXURE–XXXXIII

#### 6. Strengthening institutional framework to support ongoing research and related programmes

##### 6.16. Utilization of service buildings (laboratory, rearing house, grainages, staff quarters, hostels, guest house etc)

**Success indicator – i: Extent of utilization of facilities for the core purpose of assigned mandates: 98% (upto 3<sup>rd</sup> Qtr., 2018-19).**

### ANNEXURE–XXXXIV

#### 6. Strengthening institutional framework to support ongoing research and related programmes

##### 6.17. Optimum utilization of manpower

**Success indicator –iii: Utilization of scientific manpower for research activities: 98% (upto 3<sup>rd</sup> Qtr., 2018-19).**

### ANNEXURE–XXXXV

#### 6. Strengthening institutional framework to support ongoing research and related programmes

##### 6.18. Effective Monitoring of Civil Works

**Success indicator – i: Monitoring of progress of construction works at Institute & sub-units: 98% (upto 3<sup>rd</sup> Qtr., 2018-19).**

**Progress during 1<sup>st</sup> Qtr., 2018-19.**

Sl. No.	Name of Works	% of progress	Remarks
1.	Supply and Installation of 5 nos cold storage unit at CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12911 dt. 01.03.2018.
2.	Special repairs to the Office Building at REC, Mothabari.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-R-8(F)/ 2017-18/12996 dt. 07.03.2018.
3.	Special repairs to the	100%	do



	Rearing House at REC, Mothabari		
4.	Repairs & renovation of Trainees' Hostel.	About 65%	Work is in progress.
5.	Repairing of Roads in the CSR&TI campus.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12825 dt. 27.02.2018.
6.	Repair and Maintenance of leaking roof of Main Administrative Building at CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12825 dt. 27.02.2018.
7.	Supply and Installation Humidifier (5nos.), Rack (8nos.) and Table (4nos.) in new cold Storage Plant in CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12911 dt. 01.03.2018.
8.	Construction & renovation of existing barbed wire boundary wall at RSRS, KPG	About 90%	As enquired with Incharge RSRS Kalimpong work halted due to political disturbance in the region.
9.	Electrification of existing campus of RSRS, Jorhat	--	Incharge RSRS, Jorhat has been requested to monitor the work and inform about progress & U.Cs etc.

### Progress during 2<sup>nd</sup> Qtr., 2018-19..

Sl. No.	Name of Works	% of progress	Remarks
1.	Supply and Installation of 5 nos cold storage unit at CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12911 dt. 01.03.2018 & No. 1520 dt. 15.05.18.
2.	Special repairs to the Office Building at REC, Mothabari.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-8(F)/2017-18/12996 dt. 07.03.2018. & No. 1663 dt. 16.05.18
3.	Special repairs to the Rearing House at REC, Mothabari	100%	do
4.	Repairs & renovation of Trainees' Hostel.	About 85%	Work is in progress.
5.	Repairing of Roads in the CSR&TI campus.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12825 dt. 27.02.2018. & No. 1500 dt. 15.05.18
6.	Repair and Maintenance of leaking roof of Main Administrative Building at CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12825 dt. 27.02.2018. & No. 1500 dt. 15.05.18.
7.	Supply and Installation Humidifier(5nos.), Rack(8nos.) and Table(4nos.) in new cold Storage Plant in CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/ Maint-P-1(F)/2017-18/12911 dt. 01.03.2018. & No. 1520 dt. 15.05.18.
8.	Construction & renovation of existing barbed wire boundary wall at RSRS, KPG	About 90%	As enquired with Incharge RSRS Kalimpong work halted due to political disturbance in the region.
9.	Electrification of existing campus of RSRS, Jorhat	50%	Incharge RSRS, Jorhat has been requested to monitor the work and inform about progress & U.Cs etc.

### Progress during 3<sup>rd</sup> Qtr., 2018-19:

#### Annexure - XXXXIV

#### 6.17(I) Effective monitoring of civil works- Progress

Sl. No.	Name of Works	% of progress	Remarks
1.	Supply and Installation of 5 nos cold storage unit at CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/Maint-P-1(F)/2017-18/12911 dt. 01.03.2018 & No. 1520 dt. 15.05.18.
2.	Special repairs to the Office Building at REC, Mothabari.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/Maint-R-8(F)/2017-18/12996 dt. 07.03.2018. & No. 1663 dt. 16.05.18
3.	Special repairs to the Rearing House at REC, Mothabari	100%	do
4.	Repairs & renovation of Trainees' Hostel.	100%	Work completed. U.C. awaited.
5.	Repairing of Roads in the CSR&TI campus.	100%	Work completed. U.C awaited. Unspent balance amount has been refunded by CPWD.
6.	Repair and Maintenance of leaking roof of Main Administrative Building at CSR&TI, Berhampore.	100%	Work completed. U.C awaited. Unspent balance amount has been refunded by CPWD..
7.	Supply and Installation Humidifier(5nos.), Rack(8nos.) and Table(4nos.) in new cold Storage Plant in CSR&TI, Berhampore.	100%	Work completed. U.C awaited. CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/Maint-P-1(F)/2017-18/12911 dt. 01.03.2018. & No. 1520 dt. 15.05.18.
8.	Construction & renovation of existing barbed wire boundary wall at RSRS, KPG	About 90%	As enquired with Incharge RSRS Kalimpong work halted due to political disturbance in the region.
9.	Electrification of existing campus of RSRS, Jorhat	50%	Incharge RSRS, Jorhat has been requested to monitor the work and inform about progress & U.Cs etc.

### **ANNEXURE-XXXXVI**

### **6. Strengthening institutional framework to support ongoing research and related programmes**

#### **6.18. Effective Monitoring of Civil Works**

**Success indicator – ii: Submission of Ucs: 98%.**

**During 1<sup>st</sup> Qtr., 2018-19.**

Sl. No.	Name of Works	Status of UCs	Remarks
1	Laying of H.T Service connection cable at CSR&TI, Berhampore.	Not received	CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/Maint-P-1(F)/2017-18/12911 dt. 01.03.2018.
2	Replacement of HPSV/CFL/TL	Not	

	set fittings through 24/45 watt LED Street Light Fittings at CSR&TI, Berhampore.	received	Do
3.	Construction of Jhora at RSRs, Kalimpong.	UC received.	Balance amount refunded.

During 2<sup>nd</sup> Qtr., 2018-19.

Sl. No.	Name of Works	Status of UCs	Remarks
1	Laying of H.T Service connection cable at CSR&TI, Berhampore.	Not received	CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/Maint-P-1(F)/2017-18/12911 dt. 01.03.2018. & No. 1520 dt. 15.05.18.
2	Replacement of HPSV/CFL/TL set fittings through 24/45 watt LED Street Light Fittings at CSR&TI, Berhampore.	Not received	Do

During 3<sup>rd</sup> Qtr., 2018-19.

Sl. No.	Name of Works	Status of UCs	Remarks
1	Laying of H.T Service connection cable at CSR&TI, Berhampore.	Not received	CPWD is requested to submit UCs immediately vide letter NO. CSB/CSR&TI/Maint-P-1(F)/2017-18/12911 dt. 01.03.2018. & No. 1520 dt. 15.05.18.
2	Replacement of HPSV/CFL/TL set fittings through 24/45 watt LED Street Light Fittings at CSR&TI, Berhampore.	Not received	Do

## ANNEXURE-XXXXVII

### 6. Strengthening institutional framework to support ongoing research and related programmes

#### 6.19. Utilisation of Grants

Success indicator – i: Financial Expenditure as per allotment: 27.29 crores (upto 30.11.2018)

Financial Expenditure as per allotment: 6.73 crores (During 1<sup>st</sup> Qtr., 2018-19)

#### 1. GRANTS-IN-AID DETAILS :-

GIA RECEIVED OF CSR & ITS UNITS UPTO THE MONTH OF 30.06.18 (In Lakh)

SL. No.	PARTICULARS	CSR&TI, Berhampore	RSRS, KPG	RSRS, KPT	RSRS, JORHAT	TOTAL
1	Plan-Salary	442.22	31.61	85.74		559.57

2	SC-Salary	88.50	15.80	4.52		108.82
3	ST-Salary	32.08	26.22	24.02		82.32
4	NE-Plan-Salary	0.00			211.00	211.00
5	Plan-General	97.30	11.20	6.00	8.00	122.50
6	Plan Capital	6.50				6.50
7	Plan-NE General	0.00			24.93	24.93
8	Plan -NE Capital	0.00			3.30	3.30
	<b>Total :</b>	<b>666.60</b>	<b>84.83</b>	<b>120.28</b>	<b>247.23</b>	<b>1,118.94</b>

**GIA EXPENDITURE OF CSR & ITS UNITS UPTO THE MONTH OF 31.05.2018 (In Lakh)**

SL. No.	PARTICULARS	CSR&TI, Berhampore	RSRS, KPG	RSRS, KPT	RSRS, JORHAT	TOTAL
1	Plan-Salary	297.58	20.98	31.01	0.00	349.57
2	SC-Salary	61.39	9.55	3.05		74.00
3	ST-Salary	22.02	17.31	15.28		54.60
4	NE-Plan-Salary				130.80	130.80
5	Plan-General	48.96	4.30	1.99		55.26
6	Plan Capital					0.00
7	Plan-NE General				9.24	9.24
8	Plan -NE Capital	0.00				0.00
	<b>Total :</b>	<b>429.95</b>	<b>52.14</b>	<b>51.33</b>	<b>140.04</b>	<b>673.47</b>

**GIA BALANCE CSR & ITS UNITS UPTO THE MONTH OF 30.06.2018 (In Lakh)**

SL. No.	PARTICULARS	CSR&TI, Berhampore	RSRS, KPG	RSRS, KPT	RSRS, JORHAT	TOTAL
1	Plan-Salary	144.64	10.63	54.73	0.00	210.00
2	SC-Salary	27.11	6.25	1.47	0.00	34.82
3	ST-Salary	10.06	8.91	8.74	0.00	27.72
2	NE-Plan-Salary	0.00	0.00	0.00	80.20	80.20
2	Plan-General	48.34	6.90	4.01	8.00	67.24
3	Plan Capital	6.50	0.00	0.00	0.00	6.50
4	Plan-NE General	0.00	0.00	0.00	15.69	15.69
5	Plan -NE Capital	0.00	0.00	0.00	3.30	3.30
	<b>Total :</b>	<b>236.65</b>	<b>32.69</b>	<b>68.95</b>	<b>107.19</b>	<b>445.47</b>

**Financial Expenditure as per allotment: 10.23 crores (During 2<sup>nd</sup> Qtr., 2018-19, upto 31.08.2.018)**

**3. GRANTS-IN-AID DETAILS :-**

**GIA RECEIVED OF CSR & ITS UNITS UPTO THE MONTH OF 30.09.18 (In Lakh)**

SL.NO	PARTICULARS	CSR&TI,Berhampore	RSRS,KPG	RSRS,KPT	RSRS,JORHAT	TOTAL
1	Plan-Salary	936.72	67.11	112.74		1,116.57
2	SC-Salary	160.50	29.35	7.82		197.67
3	ST-Salary	60.58	48.07	41.82		150.47
4	NE-Plan-Salary				509.50	509.50
5	Plan-General	195.85	19.50	12.00		227.35
6	Plan Capital	37.00	0.50	0.00		37.50
7	Plan-NE General	0.00			46.53	46.53
8	Plan -NE Capital	0.00			3.30	3.30
	<b>Total :</b>	<b>1,390.65</b>	<b>164.53</b>	<b>174.38</b>	<b>559.33</b>	<b>2,288.89</b>

## GIA EXPENDITURE OF CSR &amp; ITS UNITS UPTO THE MONTH OF 31.08.2018 (In Lakh)

SL.NO	PARTICULARS	CSR&TI,Berhampore	RSRS,KPG	RSRS,KPT	RSRS,JORHAT	TOTAL
1	Plan-Salary	705.59	51.45	104.16		861.20
2	SC-Salary	130.92	22.85	6.40		160.17
3	ST-Salary	48.50	40.47	33.79		122.76
4	NE-Plan-Salary				345.62	345.62
5	Plan-General	132.44	14.78	6.95	0.00	154.17
6	Plan Capital	10.39	0.00	0.00		10.39
7	Plan-NE General				39.62	39.62
8	Plan -NE Capital	0.00			2.63	2.63
	Total :	1,027.84	129.55	151.30	387.87	1,696.56

## GIA BALANCE CSR &amp; ITS UNITS UPTO THE MONTH OF 31.08.2018 (In Lakh)

SL.NO	PARTICULARS	CSR&TI,Berhampore	RSRS,KPG	RSRS,KPT	RSRS,JORHAT	TOTAL
1	Plan-Salary	231.13	15.66	8.58	0.00	255.37
		29.58	6.50	1.42	0.00	37.50
		12.08	7.60	8.03	0.00	27.71
2	NE-Plan-Salary	0.00			163.88	163.88
2	Plan-General	63.41	4.72	5.05	0.00	73.18
3	Plan Capital	26.61	0.50	0.00	0.00	27.11
4	Plan-NE General	0.00			6.91	6.91
5	Plan -NE Capital	0.00			0.67	0.67
	Total :	362.81	34.98	23.08	171.46	592.33

**Financial Expenditure as per allotment: 10.27 crores (During 3<sup>rd</sup> Qtr., 2018-19, upto 30.11.2018)**

## 1. GRANTS-IN-AID DETAILS :-

Anner-II

## GIA RECEIVED OF CSR &amp; ITS UNITS UPTO THE MONTH OF 31.12.18 (In Lakh)

SL.NO	PARTICULARS	CSR&TI,Berhampore	RSRS,KPG	RSRS,KPT	RSRS,JORHAT	TOTAL
1	Plan-Salary	1,422.32	142.61	187.94		1,752.87
2	SC-Salary	160.50	29.35	7.82		197.67
3	ST-Salary	94.58	69.17	56.52		220.27
4	NE-Plan-Salary				731.00	731.00
5	Plan-General	272.35	33.00	19.00		324.35
6	Plan Capital	39.00	2.00	0.00		41.00
7	Plan-NE General				83.53	83.53
8	Plan -NE Capital				3.30	3.30
	Total :	1,988.75	276.13	271.28	817.83	3,353.99

## GIA EXPENDITURE OF CSR &amp; ITS UNITS UPTO THE MONTH OF 30.11.2018 (In Lakh)

SL.NO	PARTICULARS	CSR&TI,Berhampore	RSRS,KPG	RSRS,KPT	RSRS,JORHAT	TOTAL
1	Plan-Salary	1,180.79	115.31	131.20		1,427.30
2	SC-Salary	158.35	27.53	7.82		193.70

3	ST-Salary	75.86	62.45	48.73		187.04
4	NE-Plan-Salary				584.20	584.20
5	Plan-General	205.25	21.52	10.89		237.66
6	Plan Capital	35.52	0.44			35.96
7	Plan-NE General				60.10	60.10
8	Plan -NE Capital				2.63	2.63
	Total :	1,655.77	227.25	198.64	646.93	2,728.59

GIA BALANCE CSR & ITS UNITS UPTO THE MONTH OF 31.12.2018 (In Lakh)						
SL.NO	PARTICULARS	CSR&TI,Berhampore	RSRS,KPG	RSRS,KPT	RSRS,JORHAT	TOTAL
1	Plan-Salary	241.53	27.30	56.74	0.00	325.57
2	SC-Salary	2.15	1.82	0.00	0.00	3.97
3	ST-Salary	18.72	6.72	7.79	0.00	33.23
4	NE-Plan-Salary	0.00			146.80	146.80
5	Plan-General	67.10	11.48	8.11	0.00	86.69
6	Plan Capital	3.48	1.56	0.00	0.00	5.04
7	Plan-NE General	0.00			23.43	23.43
8	Plan -NE Capital	0.00			0.67	0.67
	Total :	332.98	48.88	72.64	170.90	625.40

ii: Submission of UCs: 90% (upto 3<sup>rd</sup> Qtr., 2018-19)

## ANNEXURE-XXXXVIII

7. Collaborative Research Programmes with other R&D organizations in India and abroad

7.20. Identifying potential R&D institutes in India and abroad and undertaken collaborative research programmes for the benefit of both the countries.

Success indicator – i: Projects taken up for collaborative research: Nil (Upto 3<sup>rd</sup> Qtr., 2018-19)

## ANNEXURE – XXXXIX

8. Efficient functioning of RFD system

8.21. Timely submission of draft RFD for 2018-19: 8<sup>th</sup> May, 2018

8.22. Timely submission of results of 2018-19

: 04<sup>th</sup> July, 2018 (1<sup>st</sup> Qtr.. 2018-19)

: 04<sup>th</sup> October, 2018 (2<sup>nd</sup> Qtr.. 2018-19)

: 04<sup>th</sup> January, 2019 3<sup>rd</sup> Qtr.. 2018-19)

## **ANNEXURE – L**

### **9. Administrative Reform**

#### **9.23. Implement mitigating strategies for reducing potential risk of corruption**

**Success indicator –i: Percentage of implementation: 98% (upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE – LI**

### **9. Administrative Reform**

#### **9.24. Implementation of Rajbhasha**

**Success indicator –i: Percentage of implementation: 100% (upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE – LII**

### **9. Administrative Reform**

#### **9.25. Swachha Bharat Abhiyan**

**Success indicator –i: Percentage of implementation: 98%.(upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE – LIII**

### **9 Administrative Reform**

#### **9.26. Submission of Annual Accounts to CSB**

**Success indicator –i: Date of submission of Annual Accounts to CSB: 27.04.2018**



**केन्द्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान**  
 केन्द्रीय रेशम बोर्ड बस्त्र मंत्रालय, भारत सरकार  
 बहरमपुर - 742101, मुर्शिदाबाद जिला, (पश्चिम बंगाल)  
**Central Sericultural Research & Training Institute**  
 [ISO 9001 : 2015 Certified]  
 CENTRAL SILK BOARD Ministry of Textiles, Govt. of India  
 Berhampore - 742101, Murshidabad Dist., West Bengal, India



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No. CSB/CSR&T/A-8(F)/Accts/2017-18/

Date: 27.04.2018

To,  
 The Member Secretary,  
 Central Silk Board,  
 BANGALORE - 560 068.

By Speed Post

Sub.: Submission of Consolidated Annual Accounts For the Financial  
 Year 2017-18 - reg.

Ref.: Central Office letter No. CSB-30(1)/2017-18/Accts, dtd. 21/03/2018.

Sir,

In inviting a reference to the Central Office letter on the subject cited above,  
 I am to submit herewith the Consolidated Manual Annual Accounts Statements for  
 the financial year 2017-18 in respect of Central Sericultural Research & Training  
 Institute, Berhampore, and its attached units for necessary action.

Encls : As above.

Yours faithfully,  
  
 27.4.18  
 ( Smt. Chandana Maji )  
 DIRECTOR

## ANNEXURE – LIV

### 9. Administrative reforms

#### 9.27. Recovery of DCB arrears

Success indicator –i: Amount of DCB arrears outstanding as on  
 31/03/2018: Nil (upto 3<sup>rd</sup> Qtr., 2018-19)

Success indicator –ii: DCB Arrears recovered: 100%. (upto 3<sup>rd</sup> Qtr.,  
 2018-19)

## ANNEXURE – LV

### 9. Administrative Reform

#### 9.28. Biometric Attendance

Success indicator –i: Units functioning under the Institute: 14 Nos.

Success indicator –ii: Units covered under Biometric attendance: 100%  
 (Upto 3<sup>rd</sup> Qtr., 2018-19)



## **ANNEXURE – LVI**

**10. Improving internal efficiency / responsive- ness / service delivery of the organization**

**10.29. Implementation of Sevottam**

**Success indicator–i: Independent audit of implementation of Citizen’s charter:**

**Success indicator–ii: Independent audit of implementation of public grievances redressal system: 100% (Upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE –LVII**

**11. Ensuring compliance of the Financial Accountability Framework**

**11.30. Timely submission of ATNs on Audit paras of AG & Internal Audit**

**Success indicator – i: Percentage of ATNs submitted with in due date (4 months) from date of presentation of report: 100% (Upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE –LVIII**

**11. Ensuring compliance of the Financial Accountability Framework**

**11.31. Timely submission of ATRs to AG & CSB, HQ**

**Success indicator – i: Percentage of ATRs submitted within due date (6 months) from date of presentation of report: 90%. (Upto 3<sup>rd</sup> Qtr., 2018-19)**

## **ANNEXURE – LIX**

**11. Ensuring compliance of the Financial Accountability Framework**

**11.32. Early disposal of pending ATRs on AG reports**

**Success indicator – i: Percentage of outstanding ATRs disposed off during the year: 90% (Upto 3<sup>rd</sup> Qtr., 2018-19)**

## ANNEXURE – LX

### 11. Ensuring compliance of the Financial Accountability Framework

#### 11.33. Early disposal of pending ATNs on Audit paras of AG reports.

**Success indicator – i: Percentage of outstanding ATNs disposed off during the year: 90% (upto 3<sup>rd</sup> Qtr., 2018–19)**

#	Objectives	Point No.	Actions	Remarks	Success Indicator	Remarks
12	Ensuring compliance of the Financial Accountability Framework	30	Timely submission of ATNs on Audit paras on AG & Internal Audit	<u>For AG</u> 24.08.2018[R] 18.09.2018 [S] <u>For LA</u> 20.08.2018 [R]	Percentage of ATNs submitted within due date [ 4 months] from date of presentation of report.	100%
		31	Timely submission of ATRs on Audit paras on AG Report	<u>For AG</u> 24.08.2018[R] 18.09.2018 [S] <u>For LA</u> 20.08.2018 [R]	Percentage of ATRs submitted within due date [6 months ] from date of presentation of report.	90%
		32	Early disposal of pending ATNs on Audit paras of AG Report	Yes	Percentage of Outstanding ATNs disposed off during the year.	90%
		33	Early disposal of pending ATRs on AG Reports.	Yes	Percentage of Outstanding ARTs disposed off during the year.	90%

Format of the Results Framework Document [RFD] for XII Plan including 2018-19 [ Account Section ]

#	Objectives	Point No.	Actions	Remarks	Success Indicator	Remarks
12	Ensuring compliance of the Financial Accountability Framework	30	Timely submission of ATNs on Audit paras on AG & Internal Audit	<u>For AG</u> 17.08.2018[R] 23.08.2018 [S] <u>For LA</u> 24.08.2018 [R] 06.10.2018 [S]	Percentage of ATNs submitted within due date [ 4 months] from date of presentation of report.	100%
		31	Timely submission of ATRs on Audit paras on AG Report	<u>For AG</u> 15.08.2018[R] 31.08.2018 [S] <u>For LA</u> 24.08.2018 [R] 06.10.2018 [S]	Percentage of ATRs submitted within due date [ 6 months ] from date of presentation of report.	90%
		32	Early disposal of pending ATNs on Audit paras of AG Report	Yes	Percentage of Outstanding ATNs disposed off during the year.	90%
		33	Early disposal of pending ATRs on AG Reports.	Yes	Percentage of Outstanding ARTs disposed off during the year.	90%

**3<sup>rd</sup> QUARTER (OCTOBER TO DECEMBER, 2018) PROGRESS  
OF PROJECTS/ PROGRAMMES/ PILOT STUDIES  
UNDERTAKEN BY CSR&TI BERHAMPORE & ITS NESTED UNITS  
  
AS PER RFD MILESTONE FOR THE YEAR 2018-19**

**PROGRESS OF PROJECTS/ PROGRAMMES/ PILOT STUDIES UNDERTAKEN BY CSR&TI BERHAMPORE & ITS NESTED UNITS AS PER  
RFD MILESTONE FOR THE YEAR 2018-19**

**3<sup>RD</sup> QUARTER, 2018-19; (OCTOBER TO DECEMBER, 2018)**

Objective	#	Actions	#	Success Indicator	Milestone for the year 2018-19			Achievement during the 3 <sup>rd</sup> QUARTER (OCTOBER TO DECEMBER, 2018)
.Conduct scientific technical and economic research to enhance production, productivity and quality of Indian silk.	15	Undertaking Research projects to enhance quality and productivity. (Research Projects-coded by CO)			Activity	From	To	
			i	<b>PIB 3576:</b> Evaluation of new mulberry genotypes for improvement in productivity and quality (June, 2016 to July, 2020).	<ul style="list-style-type: none"> <li>Evaluation of test genotypes for leaf productivity and quality.</li> <li>Studies on Pest and Disease incidence under FYT.</li> </ul>	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"> <li>Among the test genotypes evaluated during Sept and Nov 2018, mean leaf yield per plot (49 plants) varied from 14.98 -22.64 and C-1, C-2, C-11 &amp; C-384 recorded more than 20% higher leaf yield over check S-1635.</li> <li>Incidence of <i>Myrothecium</i> leaf spot (1.38-10.04%PDI) <i>Pseudocercospora</i> leaf spot (2.06-10.69%PDI) was noticed during Nov., 2018 and Bacterial leaf spot (0.00-1.73%PDI) during Sept. and Nov., 2018 was observed.</li> <li>At three rainfed test centers mean leaf yield per plot (49 plants) of first crop ranged from 13.50 to 15.93 kg compared to check S-1635(12.99Kg) which is 4 to 22% higher yield.</li> </ul>
			ii	<b>PIC 3554:</b> Candidate gene based molecular marker(s)for screening promising recombinants in mulberry (Jan., 2016 to Dec., 2018).	<ul style="list-style-type: none"> <li>Evaluation of the segregating population for biochemical and foliage traits.</li> <li>Identification of molecular markers associated with nitrate reductase and chalcone synthase in mulberry.</li> </ul>	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"> <li>Significant variation was noticed among progenies in fresh leaf weight(1.61-7.08g), leaf area(86.33-383.45 cm<sup>2</sup>), leaf moisture content(62.30-84.18%), moisture retention capacity(41.27-96.39%), primary branches (2.33 -17.00), leaf senescence(10.14-32.88%), powdery mildew incidence(0.00 to 48.39 % PDI) and leaf yield per plant (68 to 826g) during Nov .,2018 crop.</li> </ul>
			iii	<b>PIB 3610:</b> Preliminary evaluation of newly evolved mulberry genotypes for mulberry improvement (June, 2017	<ul style="list-style-type: none"> <li>Evaluation of test genotypes for leaf yield and its related traits under PYT.</li> <li>Studies on physiological growth traits along with</li> </ul>	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"> <li>Leaf yield per plant varied between 117– 341g and 128 - 476 g during September and November crops 2018, respectively. Ten out of twenty four genotypes PY-21, PY-8, PY-5, PY -22, PY- 9, PY -17, PY- 7, PY- 18, PY -24 and PY -10 recorded significantly high mean leaf yield(290-384g) over check C-2038(271g).</li> <li>Test genotypes recorded significant variation for</li> </ul>

				to May, 2020).	Pest and Disease incidence			physiological growth traits viz, fresh leaf weight (1.758-3.424g), moisture content (75.15-79.38%), specific leaf area, chlorophyll index, leaf area index and disease incidence.																						
		iv	PPS 3600: Soil health card preparation for mulberry growing soils in Eastern and North-Eastern India. (Nov., 2016 to Oct., 2019).	Analyses of soil samples with respect to 8 parameters (pH, EC, OC, Available N,P,K,S, Zn, Fe, Cu, Mn & B) of mulberry growing soils for preparation and distribution of soil health card to the sericulture farmers in Eastern and North Eastern India.	Oct., 2018	Dec., 2018	<b>SHC issued (Oct. to Dec, 2018)</b>  SHC Issued = 1050																							
		v	PPF 3585: Application of Growing Degree Days as a model driver for developing mulberry yield weather model. (Oct., 2016 to Dec., 2018).	Bio-fixation. Tracking of temporal yield, infection and pest infestation, antecedent and prevailing weather data.	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"><li>Data entry completed for 9 mulberry biofixations and three silkworm brushings</li><li>Data compiling is under progress and prepared the mulberry yield weather model by using GDD</li></ul> <b>9<sup>th</sup> mulberry biofixation</b> <table border="1"><tr><th rowspan="3">GDD (0c)</th><th colspan="2">9<sup>th</sup> bio-fixation (06.09.2018)</th></tr><tr><th colspan="2">Leaf yield (g/plant)</th></tr><tr><th>3'x3'</th><th>2'x2'</th></tr><tr><td>537</td><td>285</td><td>176</td></tr><tr><td>677</td><td>431</td><td>245</td></tr><tr><td>830</td><td>587</td><td>279</td></tr><tr><td>947</td><td>614</td><td>298</td></tr><tr><td>1020</td><td>531</td><td>329</td></tr></table> <ul style="list-style-type: none"><li>Synchronized Mulberry bio-fixation with silkworm brushings during 9<sup>th</sup> mulberry bio-fixation.</li><li>Silkworm rearing has been completed with BI × BI races (Date of brushing: 26.10.2018 &amp; date of spinning: 17.11.2018).</li><li>Data compiling of silkworm rearing is under progress.</li></ul>		GDD (0c)	9 <sup>th</sup> bio-fixation (06.09.2018)		Leaf yield (g/plant)		3'x3'	2'x2'	537	285	176	677	431	245	830	587	279	947	614	298	1020	531	329
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			vi.	<b>PPA 3588:</b> Evaluation of low-cost drip fertigation systems on yield and quality of mulberry leaves. (Oct., 2016 to March., 2019).	<ul style="list-style-type: none"><li>Collection of 2<sup>nd</sup> experiment data</li><li>Initiation and imposing of fertigation treatments for 3<sup>rd</sup> experiment</li><li>Maintenance of mulberry garden with agronomic package of practices.</li></ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<ul style="list-style-type: none"><li>6<sup>th</sup> crop experiment is under progress.</li><li>Intercultural operations were completed.</li><li>All the drip tape laterals are replaced with new laterals in the experimental plots due to jackals damage.</li><li>Treatments were imposed.</li><li>Experimental plots are being maintained with agronomic practices as per the methodology.</li></ul>																																																																						
			viii	<b>PPA 3560:</b> Studies on high bush and tree type mulberry plantation under rainfed condition of Odisha. (April, 2014 to March, 2019).	To develop a package of practice for High Bush mulberry plantation under rainfed condition.	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<p>Bio assay studies with silkworm variety SK6 X SK7 to various spacings viz 5 x 5, 6 x 6 &amp; 8 x 8 for S1635 &amp; C1730 completed. The details are as follows</p> <table><tr><th>Variety</th><th>Spacing</th><th>Actual larvae</th><th>Actual cocoon</th></tr><tr><td>C1730</td><td>5 x 5</td><td>500</td><td>386.7</td></tr><tr><td>C1730</td><td>6 x 6</td><td>500</td><td>414.5</td></tr><tr><td>C1730</td><td>8 x 8</td><td>500</td><td>413.3</td></tr><tr><td>S1635</td><td>5 x 5</td><td>500</td><td>411.2</td></tr><tr><td>S1635</td><td>6 x 6</td><td>500</td><td>415.2</td></tr><tr><td>S1635</td><td>8 x 8</td><td>500</td><td>412.2</td></tr></table> <table><tr><th></th><th>ERR</th><th>CCW</th><th>SCW</th><th>SSW</th><th>SR %</th></tr><tr><td></td><td>7733.3</td><td>477.83</td><td>1.573</td><td>0.262</td><td>16.648</td></tr><tr><td></td><td>8288.9</td><td>538.83</td><td>1.521</td><td>0.260</td><td>17.070</td></tr><tr><td></td><td>8266.7</td><td>530.50</td><td>1.546</td><td>0.279</td><td>18.030</td></tr><tr><td></td><td>8222.2</td><td>622.17</td><td>1.570</td><td>0.263</td><td>16.824</td></tr><tr><td></td><td>8311.1</td><td>522.17</td><td>1.555</td><td>0.270</td><td>17.378</td></tr><tr><td></td><td>8244.4</td><td>588.83</td><td>1.520</td><td>0.265</td><td>17.428</td></tr></table>	Variety	Spacing	Actual larvae	Actual cocoon	C1730	5 x 5	500	386.7	C1730	6 x 6	500	414.5	C1730	8 x 8	500	413.3	S1635	5 x 5	500	411.2	S1635	6 x 6	500	415.2	S1635	8 x 8	500	412.2		ERR	CCW	SCW	SSW	SR %		7733.3	477.83	1.573	0.262	16.648		8288.9	538.83	1.521	0.260	17.070		8266.7	530.50	1.546	0.279	18.030		8222.2	622.17	1.570	0.263	16.824		8311.1	522.17	1.555	0.270	17.378		8244.4	588.83	1.520	0.265	17.428
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			ix	<b>PIB 3627:</b> Development of superior mulberry ( <i>Morus</i> spp.) genotypes through Polyclonal Seed Orchard. (June, 2018 to May, 2021).	<ul style="list-style-type: none"><li>To establish Polyclonal seed orchard for creating enormous genetic variability.</li><li>To identify promising mulberry seedlings for further utilization.</li></ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<ul style="list-style-type: none"><li>Transplanted selected genotypes in orchard plot and established Polyclonal seed orchard.</li></ul>																																																																						

			x	<p><b>MOE 3604:</b> Yield gap analysis in mulberry leaf and cocoon production- A study in Eastern Ghat Highland zones of Odisha. (Dec., 2016 to Nov., 2018)</p>	<ul style="list-style-type: none"> <li>• To assess the magnitude of 'Yield Gap' in respect of mulberry leaf and cocoon productivity at farmers' level.</li> <li>• To examine the nature of variation in 'Yield Gap', across different socio-economic strata of the sericultural farmers.</li> <li>• To identify factors influencing for 'Yield Gap'.</li> </ul>	Oct., 2018	Nov., 2018	<p><b>Concluded.</b></p> <p>The data was collected for identification of the yield gap from the districts of Koraput, Rayagada, and Dhenkikote. The magnitude of the yield gaps in mulberry as well as cocoon production with the factors responsible for the yield gap has been collected from randomly selected 75 farmers of RSRS, Koraput &amp; Rayagada and 50 farmers of Dhenkikote.</p>
			xi	<p><b>AIB 3602:</b> Development of thermotolerant bivoltine breeds / hybrids of silkworm, <i>Bombyx mori</i> through marker assisted selection. (Nov., 2016 to April, 2021).</p>	<p>To develop thermo-tolerant bivoltine silkworm breeds / hybrids through DNA marker assisted selection and their evaluation.</p>	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"> <li>• Brushed BC<sub>4</sub> populations of mother moths with heterozygous banding pattern.</li> <li>• Rearing of BC<sub>4</sub> populations both at normal and high temperature (36±1°C).</li> <li>• Grainage of BC<sub>4</sub> populations were completed and BC<sub>5</sub> generation dfls were prepared.</li> <li>• Genomic DNA from mother moths of BC<sub>5</sub> generation were isolated and screened by using markers S0803 and S0816.</li> <li>• Brushed BC<sub>5</sub> populations of mother moths with heterozygous banding pattern.</li> <li>• Rearing and grainage of BC<sub>5</sub> populations were completed and BC<sub>6</sub> generation dfls were prepared.</li> <li>• Among the four oval lines (G1 to G4), G2 (68%) and G4 (68%) performed better in BC<sub>4</sub> with pupation percentage of above 60% at (36±1°C) whereas among the dumbbell lines (G5 to G8), G7 (71%) and G8 (80%) performed better in BC<sub>4</sub> with pupation percentage of above 70% at (36±1°C).</li> <li>• Further one BC and two selfings will be done to complete the breeding program. After that the</li> </ul>

							complete potential of the breeds will be tested at high temperature and high humidity will be evaluated.
		xii	<b>AIB 3614:</b> Studies Evaluation and Identification of Suitable Bivoltine Hybrid for Odisha. (Oct., 2017 to Dec., 2019)	• To identify bivoltine hybrids with better productivity traits suitable for Odisha region.	<b>Oct., 2018</b>	<b>Dec., 2018</b>	Rearing performance of the hybrids was conducted for two crops as per the following <b>During Oct. – Nov., 18.</b> The dfls were received from CSR&TI Berhampore, CSR&TI Mysore, RSRS Dehradun, APSSRDI – Hindupur. The rearing of APSSRDI hybrids is under progress. The Hybrids from KSSRDI Bangalore could not be received.
		xiii	<b>AIB 3616:</b> On farm trial of the multivoltine silkworm breeds/ hybrids developed for high shell percentage and neatness of silk filament. (Sept., 2017 to Dec., 2019).	To identify season specific silkworm hybrids for the plains of West Bengal, Jharkhand Odisha and Assam	<b>Oct., 2018</b>	<b>Dec., 2018</b>	During August 2018 crop in Malda, the cocoon production per 100dfls was 36.5kg in case of 21Y x (B.Con.1x4) and 47.5kg for 12Yx(B.Con.1x4) in the field. It is first time that any multi x bi performed so marvelous during this unfavorable season in which generally multi x multi is reared. In the same crop, REC, Mothabari performed much better with a production of 54.55, 55.16, 62.87 and 54.55kg/ 100dfls in respect of 8(W)x(SK6xSK7), 21Yx(B.Con.1x4), 12Yx(B.Con.1x4) and the control Nx(SK6xSK7) respectively. Dfls for October crop supplied to REC, Bhandra and RSRS, Koraput on 9 <sup>th</sup> and 14 <sup>th</sup> October respectively. In the August crop, the maximum production was obtained in the case of 12Y x (B.Con.1x4) with 60.40kg at REC, Bhandra and N x (SK6 x SK7) with 68.44 kg at RSRS, Koraput. But in both the places the cocoon characters are much better in test hybrids than control In the August crop, the maximum production was obtained in the case of 12Y x (B.Con.1x 4) with 60.40kg at REC, Bhandra and N x (SK6xSK7) with 68.44 kg at RSRS, Koraput. But in both the places the cocoon characters are much better in test hybrids than control. The result of Oct.-Nov. 18 crop is received only from RSRS, Jorhat. Maximum ERR (wt)/10000larva was obtained in case of 12Y x (B.Con.1x4), i.e., 17.83kg.. Shell% was also highest in the same hybrid, i.e., 16.64%.



			xiv	<b>AIB 3617:</b> Identification of region specific bivoltine hybrids suitable for highly fluctuating and seasonally variable climatic conditions of Eastern and North-Eastern India. (Phase-II) ( <b>April, 2017 to March, 2020</b> ).	To identify bivoltine hybrids with genetic plasticity to buffer against the adverse climatic conditions of Eastern and North-Eastern India.	<b>Oct., 2018</b>	<b>Dec., 2018</b>	Maintenance of five newly evolved breeds (BHP-1, BHP-2, BHP-3, BHP-8, BHP-9) Reproductive potential of new BHP breeds and FCs was completed; All new breeds and FCs have yielded >60 g of eggs per kg cocoons. Two oval FCs namely, BHP-1 x BHP-3 and BHP-3 x BHP-2 and one dumbbell FC namely, BHP-8 x BHP-9 were found to be superior. Salient outcome, so far: Two double hybrids, namely (BHP-1 x BHP-3) x (BHP-8 x BHP-9) and (BHP-3 x BHP-2) x (BHP-8 x BHP-9) were found to be superior (10 to 12% more shell % than control hybrids) Four more DH combinations involving SK and Bcon FCs were also, evaluated as additional controls / new DHs. Two single hybrids, namely, BHP2 x BHP8 and BHP3 x BHP8 were found to be superior (10 to 15% more shell%) over three controls, namely, SK6 x SK7, BCon1 x BCon4 and D6PN x SK4C.
			xv	<b>AIB 3619:</b> Development of silkworm ( <i>Bombyx mori</i> L.) congenic breeds from a gene pool with higher genetic plasticity. (Phase-II). ( <b>July, 2017 to June, 2020</b> ).	<ul style="list-style-type: none"> <li>• To develop silkworm breeds for converged gene pool having genetic plasticity in tolerance and in high cocoon shell weight.</li> <li>• To develop congenic multivoltine breed from selected/ developed convergent gene pool as parent for high cocoon shell weight and congenic bivoltine breed for horizontal tolerance.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<p>The worms for RBL1BC3 are brushed on 26.08.18. Rearing and grainage completed on 12.10.18. Dfls for RBL1BC4 prepared and brushed on 15.11.18. In BC3, there was a improvement of about 30-35% in case of SSW in multivoltine RBLs and about 5-10% in case of survival in bivoltine RBLs.</p> <ul style="list-style-type: none"> <li>• In November crop, rearing has been completed. Grainage operations are in progress along with data compilation.</li> </ul>
			xvi	<b>PPA 3622:</b> Popularization of high bush mulberry plantation techniques in	<ul style="list-style-type: none"> <li>• Transfer of high bush mulberry plantation technology in river island, Majuli to improved leaf quality</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<ul style="list-style-type: none"> <li>• Supervised Farmers plots and cultural operations are continued.</li> <li>• C-2028 variety raised in nursery at RSRS, Jorhat will be supplied to additional 5 farmers at Majuli during</li> </ul>

			Majuli, river island of the Brahmaputra, Assam. (Sept., 2017 to Aug., 2020).	and cocoon yield at farmers level.			March,19. <ul style="list-style-type: none"> <li>• Visited farmers plot on 7.12.18 and demonstrated side pruning for the objectives of 5 feet plantation. Presently plants are grown up to 4feet.</li> <li>• Preliminary yield data was recorded.</li> </ul>
		xvii	<b>PPA 3613:</b> Studies on drum kit irrigation with Hydrogel on yield and water use efficiency of mulberry. (Dec., 2017 to Nov., 2019)	<ul style="list-style-type: none"> <li>• To study the water use efficiency by treatment of Hydrogel in mulberry plantation</li> <li>• To study the growth and yield performance of mulberry by application of Hydrogels</li> <li>• To study the cost of production of mulberry leaf by application of Hydrogel.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	Collection of leaf yield data along with other parameters taken up during Oct Nov.'18, the highest leaf yield (kg/ha/crop) recorded was 3043 with Alternate day irrigation with hydrogel followed by Daily irrigation with Hydrogel (2907), Daily irrigation with no Hydrogel (2867), No irrigation with Hydrogel (2795)m Alternate day irrigation without Hydrogel (2683) & No irrigation with no hydrogel (2516).
		xvi ii	<b>B-MOE (P) 43:</b> Seri Model Village (Sept., 2017 to Aug., 2020)	<ul style="list-style-type: none"> <li>• To identify the problems of the target group based on analyzing the existing farming situation of the area. To apply participatory methodologies for solving identified problems and thereby increasing productivity and profitability in a sustained manner. To impart training to the target group.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	For the <i>Autumn crop</i> , 2018 a total no. of 35,750 dfls of Bi x Bi at the concerned units of NE region and at RSRS, Kalimpong are reared and the Avg. cocoon Yield per 100 dfls were 46.76 kg. <ul style="list-style-type: none"> <li>• At RSRS, Kalimpong Autumn Crop is over, Avg. Cocoon yield is 40.1 Kg.(T)/36.9(C) &amp; leaf yield is t/ha/crop3.46(T) &amp;3.21(C)</li> <li>• Agrahayani Crop, 2018 in W.B.&amp; Jharkhand are completed and the Avg. cocoon yield(kg.) per 100 dfls is 50.9 (T)&amp;45.0(C) and leaf yield is recorded in W.B. t/ha/crop 7.58(T) &amp; 6.9(C)</li> </ul>
		xix	<b>B-MOE (P) 44:</b> Adarsh Swachh Resham Gram Project at Mallickpur-Diara Village. (April, 2017 to March, 2019).	<ul style="list-style-type: none"> <li>• To create awareness about cleanliness and sanitation among the villagers for behavioral changes about health and hygiene in their homes as well as in the</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	Agrahayini '18 crop rearing was conducted and one Awariness Programme was organized.



			ii	<b>PRE 3589:</b> Assessment of designed anti-microbial peptides for mulberry protection against brown leaf spot and root rot: a biotechnological approach. (Oct., 2016 to Sept., 2019).	Establishment of in vitro culture of <i>M. roridum</i> and evaluation of pathogen growth suppression ability of AMPs <i>in vitro</i> .	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"> <li>• Re-tested the most promising AMPs (PRE-2) for the mycelia growth and propagule suppression abilities of <i>Fusarium</i> root rot (FRR) and <i>Myrothecium</i> leaf spot (MLS) pathogen <i>in vitro</i>.</li> <li>• Dose (range: 10 to 50µM) and time (0h to 72h) responsive optima were also re-examined to confirm the minimum inhibitory concentration (MIC<sub>50</sub>) of PRE-2 against <i>Fusarium solani</i> mycelia growth.</li> <li>• After two round of testing, MIC<sub>50</sub> of PRE-2 was 14.6µM against <i>F solani</i> and 23µM against <i>M roridum</i> after 24h of incubation.</li> <li>• <i>Ex vivo</i> efficacy of most promising peptide (PRE-2) was tested on potted grown S-1635 plants.</li> <li>• After 1<sup>st</sup> round of testing, PRE-2 at 50 µM of application dose, suppressed 43% of the MLS disease severity over the peptide untreated control after 10 days of inoculation.</li> <li>• However, first round <i>ex vivo</i> experiment of <i>F solani</i> with PRE-2 showed inconsistent results.</li> <li>• Further experiments with modified propagule loads have been initiated.</li> <li>• Isolated <i>F solani</i> DNA from PRE-2 (10, 50 and 100µM) treated and untreated samples for DNA profiling.</li> <li>• Profiled the DNA with four mulberry specific SSRs and non-significant differences were observed between PRE-2 treated and untreated DNA samples.</li> <li>• Isolated <i>F solani</i> DNA from PRE-2 (10, 50 and 100µM) treated and untreated samples for DNA profiling.</li> <li>• Profiled the DNA with four mulberry specific SSRs and non-significant differences were observed between PRE-2 treated and untreated DNA samples.</li> </ul>
			iii	<b>ARP 3590:</b> Studies on the efficacy of phototrophic bacterial extracts	To screen the efficacy of phototrophic bacterial extracts as feed supplements for disease management in silkworm.	Oct., 2018	Dec., 2018	A Comparison of the survival rates of the larval batches treated with <i>B. Bassiana</i> , spores of <i>Nosema</i> and fed with/without feed supplement was attempted. <b>No significant differences</b> with respect to <b>survivability</b> were observed between treatment and control batches

				as feed supplement for management of diseases in silkworm, <i>Bombyx mori</i> L. (Oct., 2016 to Sept., 2019).	To prepare metabolite profiling of silkworm when fed on normal and phototrophic bacterial extract enriched diet.			
			iv	<b>ARP3630:</b> Development of room and silkworm bed disinfectant through screening of potential chemicals. (June 2018 to May 2021).	To screen several potential chemicals based on their efficacy of controlling microbial diseases. To develop a broad spectrum room disinfectant for eradication of pathogens causing diseases in silkworm — To develop a silkworm bed disinfectant comprising of compatible disinfectant chemicals having synergistic action in controlling all microbial diseases of silkworm, specially grasserie (nuclear polyhedrosis).	Oct., 2018	Dec., 2018	The eco-friendly mild acid disinfectant that was tested in the concentrations of 1-15% was found to be effective at 12% concentration against <i>B. Bassiana</i> and <i>BmNPV</i> and at 14% concentration against <i>Nosema bombycis</i> . It was effective against bacterial pathogens at a concentration beyond 3%. The eco- friendly halogen compound that was tested is effective against bacterial, fungal and viral pathogens beyond 2% concentration. However, the efficacy of the same against <i>Nosema bombycis</i> is effective beyond 4% concentration.
			v	<b>PRE02001SI:</b> Management of pink mealy bug <i>Maconellicoccus hirsutus</i> (Green) of mulberry with barrier System.(July, 2018 to June, 2021).	<ul style="list-style-type: none"> <li>To increase the silk production by reducing the mulberry crop loss due to infestation of pink mealy bug.</li> <li>To find out the minimum strategy to combat against mealy bug without adverse effect on environment.</li> </ul>	Oct., 2018	Dec., 2018	<ul style="list-style-type: none"> <li>Selection of experimental site and preparation of random design has been completed for T1, T2, T3, T4 and T5 (cotrol).</li> <li>Pruning has been done during III week of Nov.,18. The block cloth was spread over the plot to observe nymphal movement. The experiment will be initiated after sprouting of leaves and observation of nymphs.</li> </ul>

			vi	<p><b>BAI (RP) 021:</b> Silkworm disease monitoring of seed and commercial crop rearing of West Bengal (SDMSCC) [A collab. with ZSSO, Malda &amp; DoT (Seri), W.B.] (April, 2016 to March, 2019).</p>	<ul style="list-style-type: none"> <li>• To identify the disease responsible for crop loss at DOT (Seri), NSSO and farmers' field during seed and commercial crops.</li> <li>• To suggest effective remedial measures to farmers'/farms' to prevent / management of the diseases and forewarn the farmers' for ensuing seed and commercial crops.</li> <li>• To prepare database on the incidence of various diseases of silkworm, <i>B.mori</i> during seed and commercial crops in Eastern and NE India</li> </ul>	Oct., 2018	Dec., 2018	<p><b>October: P1 Aghrayani:</b> 10% grasserie, 3% flacherie and 2% gattine was reported from samples examined from Birbhum district.</p> <p><b>November: P1 Aghrayani:</b> 4.9% Pebrine was reported from samples examined from TSC of Debra 1 &amp; 2 of DoS of Medinapore district.</p> <p><b>Autumn crop (Sikkim):</b> 11-15% grasserie and 6-10% flacherie was reported from samples collected and examined by REC Mamring during autumn crop.</p> <p><b>Ashwina comm.:</b> 6.03% grasserie, 2.4% gattine and 1.12% flacherie was reported from samples examined under REC MP Raj.</p> <p><b>December: September crop of REC Aizwal:</b> 1.6% grasserie was reported from samples examined during September crop</p> <p><b>Oct-Nov Crop of RSRS Imphal:</b> 2.2% grasserie, 1% flacherie and 0.5% muscardine was reported from samples examined during Oct-Nov Crop</p> <p><b>Nov-Dec crop of REC Agartala:</b> 0.81% grasserie and 0.15% muscardine was reported from samples examined during Nov-Dec Crop</p> <p><b>Aghrayani comm.:</b> 1.52% pebrine, 5.18% grasserie and 1.52% muscardine was reported from samples collected and examined from Murshidabad district.</p> <p>1.34% pebrine, 4.56% grasserie and 1.50% muscardine was reported from samples collected and examined from Birbhum district.</p> <p>2% pebrine, 2% grasserie and 1% muscardine was reported from samples collected and examined from Nadia district</p> <p>3% pebrine, 3% grasserie and 5% muscardine was reported from samples collected and examined from Malda district</p>
			vii	<p><b>B-PRP(P) 045:</b> Forewarning of mulberry diseases of</p>	<ul style="list-style-type: none"> <li>• To collect disease incidence and meteorological data of Eastern and North</li> </ul>	Oct., 2018	Dec., 2018	<p><b>Disease severity in different locations</b></p> <p><b>1) Murshidabd (W.B.): At Institute:</b> BLS incidence was recorded with maximum PDI of 4.39 and MLS incidence was recorded with maximum PDI of 4.18 while PMLD</p>

				<p>Eastern and North Eastern India.</p> <ul style="list-style-type: none"> <li>• To publicize and recommend forewarning system in different locations.</li> <li>• To develop broad spectrum data base for disease and meteorology of Eastern and North Eastern India.</li> <li>• To fine tune the existing forecasting models and the existing disease calendar.</li> </ul>			<p>incidence was recorded with maximum PDI of 1.24 during the period. <b>At farmers' field:</b> BLS incidence was recorded with maximum PDI of 3.43 and MLS incidence was recorded with maximum PDI of 2.3.</p> <p><b>2) Malda (West Bengal):</b> MLS incidence was recorded with maximum PDI of 0.56</p> <p><b>3) Kalimpong (West Bengal):</b> PMLD incidence was recorded with maximum PDI of 1.95, BLR incidence was recorded with maximum PDI of 2.1 and yellow leaf rust incidence was recorded with maximum PDI of 0.8</p> <p><b>4) Agartala (Tripura):</b> PMLD incidence was recorded with maximum PDI of 5.5 and BLR incidence was recorded with maximum PDI of 4.2 during the period.</p> <p><b>5) Aizawl (Mizoram):</b> PMLD incidence was recorded with maximum PDI of 3.32 during the period.</p> <p><b>6) Imphal (Manipur):</b> PMLD incidence was recorded with maximum PDI of 6.5.</p> <p><b>7) Koraput (Orissa):</b> BLS incidence - PDI of 4.4, PLS - PDI of 4.57, PMLD - 4.2, while BLR incidence -PDI of 3.74 during the period.</p>
		viii	<p><b>BPR (P) 022:</b> Survey and surveillance of mulberry pests in the eastern and north eastern regions of India. (Jun., 2016 to May, 2021).</p>	<ul style="list-style-type: none"> <li>• To generate and widen the database on pest incidence and climatic factors of the different agro-eco zones of the E &amp; NE India.</li> <li>• To establish correlation between weather factors and pest incidence. To develop weather based forecasting models for major mulberry pests.</li> </ul>	Oct., 2018	Dec., 2018	<p>Incidence of major mulberry pests recorded at the Institute's field, two traditional districts of Gangetic plains (Malda and Murshidabad) and Kalimpong hills of West Bengal at weekly intervals.</p> <ol style="list-style-type: none"> <li>1. At the <i>Institute</i> white fly population were observed during the period under report. On S1635, the population of white fly was observed 5 no./leaf.</li> <li>2. In Murshidabad district no. pest was observed.</li> <li>3. In Koraput white fly infestation was found 4.41 no./leaf, thrips 4.48 no./leaf, mealy bug 5.46 no./shoot and tukra 5.19% during the period under report.</li> <li>4. In Jorhat only infestation of mealy bug was seen @1 no./shoot.</li> <li>5. In Imphal infestation of white fly was seen @1 no./leaf.</li> <li>6. In Kalimpong 1.5 root mealy bug/plant was observed during the period under report.</li> </ol>

Objective	#	Actions	#	Success Indicator	Milestone for the year 2018-19		Achievement during the 3 <sup>RD</sup> QUARTER (OCTOBER TO DECEMBER, 2018)
Maintenance of breeders stock (P4 layings)	2	Production & supply of nucleus seeds to basic seed farms of CSB & States for further multiplication.	i	<b>BPI (P) 025:</b> Maintenance of Mulberry Germplasm Bank at CSR&TI, Berhampore (WB). (Jan., 2014 to Dec., 2018).	Maintenance of GPB with proper cultural operations.	Oct., 2018 Dec., 2018	<ul style="list-style-type: none"> <li>Maintained around 219 mulberry germplasm accessions of twelve species along with 100 elite lines &amp; 40 colchipooids with recommended cultural practices.</li> </ul>
			ii	<b>BAI (RP) 003:</b> Maintenance of bivoltine and multivoltine germplasm and newly developed breeds and their lines. <i>Continuous</i>	Maintenance and supply of basic stocks to different centers for further multiplication as per demand.	Oct., 2018 Dec., 2018	<p>50 bivoltine &amp; 30 multivoltine germplasm breeds are being maintained.</p> <p>For multivoltines one rearing was done during August-Oct.,18 and second rearing during Nov.-Dec.,18. In both the rearing, the performance of all the breeds was better than the bench mark value of all the characters.</p> <p>Under the bivoltine germplasm maintenance, rearing of 50 bivoltine breeds, cocoon harvest, assessment, cocoon selection and grainage operations were completed during Oct-Nov., 18 batches.</p> <p>Further, it was communicated to CSGRC, Hosur on 18 BV breeds – along with the passport data - proposed to be discontinued (in line with recommendation of SBM) and requesting them to inform on those breeds which are not in their conservation bank and CSGRC, Hosur has informed that out of 18 breeds, 14 are not in their conservation and requested for the supply with TDH 04.01.2019.</p> <p>Accordingly, arrangements were made to supply 14 BV breeds and the same was communicated to CSGRC, Hosur.</p>
			iii	<b>B-KPG (RP) 017:</b> Maintenance of Bivoltine silkworm Germplasm breeds. (April, 2015 to Mar.,	Maintenance of Bivoltine Germplasm at different agro-climatic regions.	Oct., 2018 Dec., 2018	<p><b>Long Term Preservation (Spring'18 to Spring'19):</b> 925 dfls of 52 races under the programme were consigned to cold storage on 05.11.18.</p> <p><b>Short Term Preservation (Autumn'18 to Spring'19):</b> 288 dfls of 35 races under the programme were consigned to cold storage on 05.11.18.</p>



				2020).				
			iv	<b>B-JRH (P) 046:</b> Studies on mulberry germplasm in Agro climatic conditions in North-eastern state, Assam. (Sept., 2017 to Aug., 2020).	To maintain popular indigenous mulberry genotype and identification of suitable genotypes for utilization in the field.	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<ul style="list-style-type: none"> <li>• 20 mulberry accessions were collected from Hosur and raised in nursery.</li> <li>• Newly planted accessions viz. MI-0024, MI-0038, MI-0069, MI-0072, MI-0101, MI-0110, MI-0142, MI-0170, MI-0206, MI-0209, MI-0341, MI-0345, MI-0361, MI-0377, MI-0395, MI-0403, MI-0142, MI-0149, MI-0188, MI-0208 in Experimental plots during the period.</li> <li>• Studied survival percentage of the accessions. Establishment of 20 accessions during May, 2018.</li> <li>• Maintenance of plantations.</li> </ul>
Objective	#	Actions	#	Success Indicator	Milestone for the year 2018-19 Activity	Achievement during the 3 <sup>RD</sup> QUARTER (OCTOBER TO DECEMBER, 2018)		
<b>XI. Collaborative research programmes with other R&amp;D organizations in India &amp; abroad</b>	24	<b>Identifying potential R &amp; D Institutes in India and abroad and undertaking collaborative research programmes for the benefit of both the countries.</b>	i	<b>PIB 3505:</b> Development of drought tolerant mulberry variety for rainfed sericulture (Jan., 2014 to Dec., 2019) <b>CSGRC, Hosur, Tamil Nadu</b> ].	<ul style="list-style-type: none"> <li>• Evaluation of selected progenies for growth and yield under rainfed condition.</li> <li>• Studies on Physio-Biochemical parameters, Pest and Disease incidence.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<ul style="list-style-type: none"> <li>• Leaf yield among test genotypes varied from 302-659g and twelve genotypes recorded significantly higher leaf yield per plant (516 -659 g) over check C-2038(504 g) under rainfed condition during October 2018 crop.</li> <li>• Test genotypes recorded significant variation in physio-biochemical traits viz., proline content (164.25 – 387.10 µg/g), total soluble protein (23.20- 43.65 mg/g fw), total soluble sugar (31.49 – 49.88 mg/g fw) and total chlorophyll (2.73 – 4.11 mg/g fw), yield traits and disease incidence such as Bacterial leaf spot(0.00-15.94%PDI), <i>Myrothecium</i> leaf spot(0.39 -9.05%PDI) and <i>Pseudocercospora</i> leaf spot(0.00-19.37%PDI) was noticed.</li> </ul>
			ii	<b>AIB 3577:</b> Evaluation of multivoltine germplasm to identify potential parents for developing cross breeds for Southern & Eastern India. (June, 2016 to Sept., 2019). [CSGRC, Hosur, Tamil Nadu].	<ul style="list-style-type: none"> <li>• To evaluate multivoltine germplasm accessions for the identification of crossbreeds suitable for Southern and Eastern Zones.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	Total 5 trials rearing with 20 nos. multi x bi hybrids dfls received from CSGRC, Hosur were conducted. During the report period 4 <sup>th</sup> & 5 <sup>th</sup> [June-July, 18 & Nov-Dec. 2018 were conducted. 5 <sup>th</sup> trial rearing (Nov crop 2018) is depicted in the table below:

			iii	<b>AIB 3578:</b> Evaluation of exotic bivoltine silkworm breeds to identify promising parental genetic resources. <b>(June, 2016 to Sept., 2019)</b> [CSGRC, Hosur, Tamil Nadu].	<ul style="list-style-type: none"> <li>To evaluate bivoltine silkworm germplasm accessions for the identification of crossbreeds suitable for Southern and Eastern Zones.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	Total 3 trial rearing of 20 bivoltine hybrids were conducted (prepared with 20 nos. best performing exotic bivoltine accessions with CSR2) during Oct.-Nov. 2017 crop; Feb. –Mar.'18 and Oct-Nov.,2018 crop. The performance of 3 <sup>rd</sup> trials conducted during Nov., 2018.
			iv	<b>ARP 3605:</b> Validation of the DNA makers in silkworm breed developed by introgression of DNA markers associated with NPV resistance using Marker Assisted Selection breeding and large scale field trial of the breed. <b>(April, 2017 to March, 2020)</b> [DBT funded with SBRL Kodathi, Bangalore].	<ul style="list-style-type: none"> <li>Evaluate the evolved bivoltine lines in various agro climatic conditions and selected lines for their suitability in that particular environment.</li> <li>Rearing of about 50000 Dfls of Nistari x MASN lines will be prepared through NSSO, Bangalore and distributed to sericulture farmers in the area under CSR&amp;TI, BHB (at farmers level).</li> <li>To evaluate bivoltine single hybrid (MASN x CSR4) using CSR2 x CSR4 as control.</li> </ul>	<b>Oct., 2018</b>	<b>Dec., 2018</b>	<ul style="list-style-type: none"> <li>Screening of NPV resistance bivoltine lines suitable for different agroclimatic conditions and selected lines for their suitability in that particular environment. nos. trail rearing (Cellular) of bivoltine lines MAS-N lines (4, 6 and 7) were conducted under this Institute. All the MAS-N lines perform better than its control CSR2.</li> <li>7500 dfls Bv hybrids [MASN x CSR4] were reared at farmers' level of Nadia, Murshidabad &amp; Birbhum district during Oct.-Nov crop 2018.</li> </ul>