

CSRTI-BERHAMPORE



SERICULTURE SUCCESS STORIES

Eastern & North Eastern States



Central Sericultural Research & Training Institute (CSRTI)
Central Silk Board
Ministry of Textiles, Govt. of India
Berhampore, Murshidabad, West Bengal - 742101

CSRTI - Berhampore

SUCCESS STORIES

First Edition: Jan 2021

Copies: 1000

Language: English

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Central Sericultural Research & Training Institute

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Govt. of India, Berhampore, West Bengal-742101

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Foreword

Sericulture is unique in Eastern & North Eastern region due to topography and agro-climatic variations. For the upliftment of livelihood of stakeholders in the region, CSRTI-BHP is rendering Research, Development, HRD and Service supports through extension activities. Sericulture is an agro-industry that provides employment to skilled and unskilled labour, women and aged persons at homes with minimum risk. At a time, when farmers mainly in rainfed zones were worried over drought and looking for a meager income, sericulture adoption has proven to be profitable. The institute is continuously striving to solve different issues related to farmers' fields ensuring sustainable production. Stress has been laid on promoting mechanization of small farms and increase mulberry leaf production and cocoon production. Emphasis was laid for a strong 'Lab-to-Land' programme through Bivoltine cluster promotion programme (Bv-CPP). The enlisted successful efforts are result of continuous and coordinated programmes undertaken by Departments of Sericulture of E & NE states with the Central Silk Board. The efforts to publish the Success Stories of the Stakeholders is to showcase of Extension program efforts in providing sustainable income and improved livelihoods for the farmers. Success stories serve as readily available information for inspiration and motivation to the other farmers.

This is only the beginning, several such success tales and journeys undertaken by farmers would henceforth would be brought for popularizing Mulberry Sericulture and its effectiveness in empowering farmers with sustainable income. These tales should motivate other farmers to strive hard and recommend Mulberry Sericulture for enhancing the livelihoods in the villages

Dr. V. Sivaprasad
Director
CSRTI-Berhampore

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Icon of Sericulture - Story of A Winner

Name: Smt. Sahinoor Bibi

Address: Saheb nagar

Panchgram (PO), Nabagram

Murshidabad Dist., West Bengal

PIN: 742 184

Mobile: 9593151420



Migration is very common in Murshidabad district for a better livelihood due to meagre income from agriculture and allied sectors. Smt. Sahinoor Bibi (29 years-old), a resident of Nabagram was not an exception; her husband migrated to city for additional income. Since then, the family is practicing sericulture to augment their earnings from various sources.

Smt. Sahinoor Bibi learnt few sericulture skills while assisting her husband following her marriage. The family holds 0.50 acre with local mulberry variety and used to rear multi × multi silkworm hybrids following the traditional methods. They usually undertake only 3 crops with a brushing of ~150 dfls/crop due to lower leaf production and earn an income of Rs.30000 to Rs.40000/- per annum. As the financial needs increased due to expansion of family, and she was left with no choice to support the family following her husband's migration. She is an educated, well-determined woman and accepted the challenge of practicing sericulture as a source for monetary returns since then.



Smt. Sahinoor Bibi enriched her knowledge on latest sericulture technologies through awareness programmes conducted by Central Silk Board. She has attended two training programmes organized by CSRTI-BHP (10 days chawki rearing & 3 days late age silkworm rearing). As a result, she promptly replaced local mulberry variety with S1635 @ 2'x2' spacing and also extended mulberry to 0.667 acres. The brushing capacity increased to 200-250 dfls/crop and adopted to rear 5 crops/annum. She started rearing bivoltine in two favourable crops and improved multi x bi hybrids in the three crops i.e., five crops in an year.



Presently, she earns about Rs.130000/- to Rs.150000/- per annum from silk cocoon crops. She has further improved technical skills with enhanced interest in sericulture. She has established a CRC under CPP implemented jointly by CSB & DOS-WB. Her successful entrepreneurial skills were rewarded in being recognised as best women sericulture farmer in Murshidabad district on Women's Day at CSRTI-Berhampore in Sept.-2018. Following her successful tryst with sericulture, she has also adopted latest technologies like shelf-rearing and shoot-feeding under ToT (CSRTI-BHP) and opines that it reduced the drudgery and saves man-days. She is quite happy with present economic returns from sericulture, which is able to sustain her son's education in a private school and improved lifestyle

Transformation To Commercial Farming

Name: Shri Gopinath Marjit

Address: Diara
Valkundi (PO), Khargram
Murshidabad Dist., West Bengal
PIN: 742 147
Mobile: 9002798234



Shri Gopinath Marjit, a 43 year-old marginal farmer from Diara-Murshidabad is dependent on subsistence farming with ancestral small land-holding. He was mostly relying on sericulture and able to earn amounts of Rs.30,000 - 40,000/- per annum. The mulberry garden was planted with local mulberry variety and was practicing sericulture by rearing multi x multi silkworm hybrids. Following his ISDS training at CSRTI-Berhampore during 2015-16, he understood the importance of improved mulberry variety, rearing more productive hybrids by adopting improved rearing technology. His quest for latest sericulture technologies lead to adopt the same with his farm.

Consequently, he established high yielding mulberry variety S1635 with 2'x2' spacing and initiated rearing two crops of bivoltine silkworm hybrids and three multi x bi silkworm hybrids; 5 crop schedule per year. Successful adoption of improved varieties, hybrid and technology made him to realize full potential of sericulture. He has extended his mulberry plantation to 0.50 acre and also inspired to cultivate additional land on lease basis for expanding plantation



His annual monetary earnings were to a tune of Rs.1,30,000/- from successful crop harvests. Gradually, he further increased the rearing capacity and also constructed a pucca rearing house, which is a rarity in traditional districts of West Bengal. As a result, his earnings improved Rs.1,50,000/- per annum. His experience and interest in sericulture improved overtime and so is his hunger for adopting latest sericulture technologies. He has started to innovate during hot-dry summer season by wrapping wet gunny cloth around the rearing racks for providing optimal rearing environment conditions under the adverse climatic conditions. He was able to harvest crops with >55 kg cocoon yield/100 dfls quite successfully.



He also participates quite actively in awareness programmes and workshops conducted by CSRTI-Berhampore/DoS-WB for enhancing his skills. He also became a Bivoltine CRC entrepreneur under CPP implemented jointly by CSB & DOS-WB. He is able to serve his fellow farmers by supplying healthy chawki larvae for improving bivoltine silk production in the area. His dedication towards sericulture and remarkable contributions under CPP rewarded as the Best Sericulture Farmer during 2016-17 and felicitated during Resham Krishi Mela-2017 held at CSRTI-Berhampore.

Shift to Improved Hybrids from Traditional Crosses

Name: Shri Upen Mandal

Address: Tantipara
Nayagram (PO)
Malda Dist., West Bengal
PIN: 732 201
Mobile: 7797184075



Shri Upen Mandal is 64 years-old marginal farmer from Nayagram-Tantipara village in Malda practicing sericulture since 40 years. He is a hard working farmer and conducts all the sericultural activities by himself in his farm and supports a joint family of 10 members. Although, he was not fortunate with formal education, adopted latest sericulture technologies with great interest and enthusiasm. He currently holds 1.33 acre mulberry plantation with high yielding S1635 variety and also cultivates an additional acre of leased land, one acre with S1 variety. Mulberry sericulture lands net returns are upto Rs. 3,70,000/- per year excluding expenditure for inputs (fertilizer, labourer etc.). Over the years, his farm rearing capacity increased by about 3.5 times due to his skills and sustained efforts. Presently, he has also started rearing silkworms adopting Shelf rearing (Bamboo made) and deriving the benefits thereof.



Past				Present			
Hybrid	Crops	Dfls/ Crop	Yield/ 100 Dfls (kg)	Hybrid	Crops	Dfls/ Crop	Yield/ 100 Dfls (kg)
N x M12W (M x M)	3	200	20-25	N x SK 6.7 (M x B)	3	850	40-45
	2	100	15-20		2	600	35-40
Total	5	800		Total	5	3750	

At the beginning, he used to rear 800 dfls of multi x multi hybrids (Nistari x M12W) in five crops with cocoon yields around 20-25 kg/100 dfls in favourable season and 15-20 kg/100 dfls during unfavourable seasons; with annual earnings upto Rs 60000/-. Following expanded mulberry plantation to 2.33 acre (S 1635 variety) and adoption of latest technologies, he has increased rearing capacity to 3750 dfls/year. His cocoon yields also improved to 40-45 kg/100 dfls in favourable seasons and 35-40 kg/100 dfls during unfavourable seasons. His income from sericulture at present is Rs. 3.5 - 4.0 lakhs per year. He continues to be involved in sericultural farming and assists other farmers in the region with his experience. He is a model sericulture farmer supporting his whole family with better livelihood.



Experience Shows Way to Success

Name: Smt Nurefa Bibi

Address: Khanpara
Mothabari (PO)
Malda Dist., West Bengal
PIN: 732 207
Mobile: 9002834348



Nurefa Bibi, 45 year-old woman Sericulturist since last 30 years. She lives in Khanpara village of Kaliachalk-Malda and supports a family of 6 members with the meager income from sericulture. She started with only one acre of mulberry with S1 variety; later expanded with another acre. She replaced the whole plantation with high yielding mulberry variety, S1635. The mulberry leaf quantity and quality improved as a consequence; improving the rearing capacity up to three times than the previous (i.e., 1150 dfls per year). Her income also enhanced to the tune of Rs. 2,95,000/- per year excluding expenditure for inputs like fertilizer, labourer, etc. She is very industrious, innovative in nature and always keen to adopt latest technologies developed by CSRTI-Berhampore. She also adopted shelf-rearing technology utilizing local bamboo materials and improved brushing capacity considerably in a reasonably spaced rearing house. Nurefa Bibi is a successful progressive sericulture farmer.



In the past, her annual income used to be around Rs 70000/- by rearing 2000 dfls multi x multi hybrids yielding 20-25 kg in favourable seasons and 15-20 kg/100 dfls during unfavourable seasons. Currently, with enhanced brushing capacity (2600 dfls/year) usually rears F1 hybrids (1800 dfls/3 crops during favourable & 800 dfls/2 crops during unfavourable seasons). She harvests cocoon yields of 40-45 kg/100 dfls during favourable season, while with 35-40 kg/100 dfls during unfavourable seasons. Her annual earnings from sericulture enhanced upto Rs. 2.5-3.0 lakhs by practicing successfully. She is a contented and happy to assist for providing improved lifestyle to the family.



Past				Present		
Hybrid	Crops	Dfls/ Crop	Yield/ 100 Dfls (kg)	Hybrid	Dfls/ Crop	Yield/ 100 Dfls (kg)
N x M12W (MxM)	3	100	20-25	N x SK 6. 7 (M x B)	250	40-45
	2	50	15-20		200	35-40
Total	5	400		Total	1150	

Bivoltine Seed Crop Rearing for Prosperity

Name: Miss Anumala Pradhan

Address: Mahakaldara- halukhop
Mahakaldhara (PO)
Kalimpong Dist., West Bengal
PIN: 734 316
Mobile: 9635885590



Ms. Anumala Pradhan is a 40 year-old traditional bivoltine seed rearer from Kalimpong region in West Bengal and generating seed cocoons for the last 25 years for earning her livelihood. She lives in a joint family comprising of five adults and two children. She has received the assistance from DoS-WB for the establishment of silkworm rearing house. She undertakes the responsibility of rearing seed crops for DoS-WB and the institution regularly procures seed cocoons.

Miss. Pradhan possesses about 0.5 acre of mulberry plantation (BC₂59 & Kosen varieties) and undertakes three crops (Spring, Summer & Autumn) every year. She has consistently performed well over the years and sincerely adopted the recommended package of practices of sericulture to harvest successful crops. Income generated through seed cocoon sale proceeds meets the financial needs for the entire family for regular expenditures including purchase of household amenities.



Although, her education is up to primary level, yet she has been instrumental in fulfilling the educational aspirations of her brother's family through income generated from sericulture; extending support for family requirement and maintenance of ancestral house.

She has been awarded consecutively for two years (2018-19 & 2019-20) during Resham Krishi Mela for quality mulberry seed cocoon production.



Year	Season	DfIs/ Crop	Total Cocoons Harvests		Total Income (Rs.)	Income per year (Rs.)
			No.	Wt.		
2018-19	Spring	60	13320	22.2	14245	42433/-
	Summer	60	12896	20.8	12917	
	Autumn	70	16000	25.2	15271	
2019-20	Spring	80	19008	29.7	17866	35823/-
	Summer	25	4800	7.5	4512	
	Autumn	60	14755	22.7	13445	

Enthusiastic Bivoltine Sericulturist

Name: Shri Ramdev Rai

Address: Changdung
Gitdabling (PO),
Kalimpong., West Bengal
PIN: 734 314
Mobile: 9932033283



Shri Ramdev Rai is 48 year-old enthusiastic bivoltine sericulture farmer from Kalimpong region. He has started his journey in sericulture almost 15 years back and currently has established himself as a progressive seed rearer after overcoming several up and downs in his life. He lives in a family of four members including wife and two children. He established rearing house with financial assistance from DoS-WB and regularly supplies seed cocoons.

He has inherited about half an acre of mulberry plantation (BC₂59) from uncle and also cultivates another 0.25 acre on lease with high yielding variety to increase his brushing capacity per batch. He has shown keen interest to gain knowledge and does not hesitate to approach or consult extension personnel to solve sericulture problems. He is bold, confident and eager to adopt new technology for improving earnings from sericulture. He is maintaining mulberry plantation quite nicely.



During his early days, struggled hard while adopting latest technologies and now is a seasoned-seed cocoon producer in West Bengal and supplies cocoons to DoS-Sikkim. The quality of seed cocoon generated by his farm was always upto the standards. The sericultural income is able to support his two sons education in private school besides meeting his household needs. He is a model seed rearer and was awarded for being the highest producer of quality seed cocoons in the district in 2019-20 during Resham Krishi Mela-2020 by Central Silk Board (RSRS-Kalimpong-CSRTI-BHP).

Year	Season	Dfls/ Crop	Total cocoons harvested		Total income (Rs.)	Income per year (Rs.)
			No.	Wt.		
2018-19	Spring	60	18504	25.7	13740	34414/-
	Summer	50	9858	15.9	9874	
	Autumn	60	14544	20.2	10800	
2019-20	Spring	80	20460	33.0	20490	58379/-
	Summer	75	17703	28.1	17169	
	Autumn	80	27000	30.7	20720	



Organic Sericulture Farming - Bivoltine

Name: Shri Kumar Pradhan

Address: Siktam

Middle Tikpur (PO)

West Sikkim

PIN: 737 121

Mobile: 9609834542



Shri Kumar Pradhan is aged 48 years and one of the traditional bivoltine seed rearer in Siktam-Tikpur-West Sikkim for last 10 years. He lives with a family having two adults and three children and is an active CRC entrepreneur supplying chawki larvae to the farmers in West Sikkim area. He has received assistance for rearing house & appliances from DoS-Sikkim as a registered seed cocoon producer. He regularly supplies quality seed cocoons to the registered seed producers of West Bengal.

He has about 0.5 acre mulberry plantation (BC₂59) and undertakes two crops in a year i.e., spring & autumn. After integrating mulberry sericulture into his farming system, his economic status has improved and is easily able to support family expenditure, children's education and purchase of house-hold items. He is rearing silkworm seed crops continuously since 2010, apart from growing vegetables & other crops.



Shri Pradhan frankly admits that he is dependent much more on sericulture than agricultural crops for his livelihood. He is bold, confident and always eager to adopt new technology for enhanced income from sericulture. He was up-skilled by participating in several skill development/training programmes by DoS-Sikkim and CSB. He has been felicitated by DoS-Sikkim and CSB (REC-Mamring-Sikkim) for his contribution as a silkworm seed cocoon producer. He has desire to continue in the sericultural activities for the benefit of farmers in West Bengal and Sikkim as a successful CRC entrepreneur.

Year	Season	Dfls/ Crop	Cocoons Harvested		Income (Rs.)	Total Income (Rs.)
			No.	Wt.		
2017-18	Spring	30	7200	12.0	5400	9600
	Autumn	30	6825	10.5	4200	
2018-19	Spring	50	12500	20.0	9000	17100
	Autumn	50	11700	18.0	8100	
2019-20	Spring	50	11840	18.5	6475	12425
	Autumn	50	11390	17.0	5950	



A Way to Progress - Bivoltine Sericulture

Name: Smt. Nirmala Poudhyal (Sharma)

Address: Saku

West Pandam (PO)

East Sikkim

PIN: 737 121

Mobile: 8170024628



Smt. Nirmala Poudyal (Sharma) is 42 year-old traditional bivoltine seed rarer of Saku-West Pandam-East Sikkim and involved in sericulture activity for the last 10 years. She has studied upto Matriculation and lives in a family of four including two children. She has received different kinds of assistance including rearing house construction from DoS-Sikkim as a registered seed cocoon producer for generating good quality seed cocoons. She supplies quality seed cocoons to the registered seed producers from Malda-West Bengal.

She cultivates 0.5 acre mulberry with BC₂59 variety and undertakes two crops in a year (Spring & Autumn). Adopting latest mulberry cultivation practices and silkworm rearing technologies, she is able to harvest seed cocoons of standard quality. She has integrated mulberry sericulture into her farming system consisting of ginger and vegetables including dairy activities.



As a result, she started to earn more currently and her family life style has been improved. The day-to-day family expenditure and occasional purchase house-hold amenities are being met from sericulture income. She received awareness/training on sericultural technologies from DOS-Sikkim & CSB.

She represented Sericulture farming community of Sikkim during All India Women Sericulture Conference at Delhi (2015-16) organized by Ministry of Textiles, Govt. of India. She was also felicitated by DoS-Sikkim & CSB on several occasions in the recent past.

Year	Season	Dfls/ Crop	Total cocoons harvested		Total income (Rs.)	Income per year (Rs.)
			No.	Wt.		
2017-18	Spring	30	7150	11.0	3850	7350
	Autumn	30	7000	10.0	3500	
2018-19	Spring	30	7245	11.5	5175	8850
	Autumn	30	7350	10.5	3675	
2019-20	Spring	30	11700	18.0	5400	10650
	Autumn	30	10200	15.0	5250	



Reward for Hard Work in Sericulture

Name: Mr. Lolas Lakra

Address: Jamgai
Bhandra (BLOCK)
Lohardaga Dist., Jharkhand
PIN:835 203
Mobile: 7250454858



Shri Lolas Lakra, a 58 year-old progressive farmer from Jamgai village, Bhandra Block, Lohardaga district. He cultivates 0.5 acre mulberry plantation with high yielding variety, S1635 in 3'x 3' spacing. He is practicing sericulture since last 16 years and gained vast experience in silkworm rearing and mulberry cultivation. He lives with a family of six members, who also assist in silkworm rearing. Previously, rice and other farming activities were his family's agriculture activity, which was totally dependent on rain. But he could not manage to meet the family needs by the low income from these activities. The family members were resorting to daily wage works for maintaining the basic livelihoods. The village was having few mulberry trees since long. He has come to know about sericulture activities through awareness and extension communication programmes conducted by REC-Bhandra in the village and initiated sericulture activities. These trees were also used to meet the leaf shortage for his silkworm rearing at times .



Shri Lakra has received financial assistance from DoS-Jharkhand for rearing appliances (rearing trays, mountages & nets). He avails the chawki silkworms regularly reared by REC-Bhandra. He ritually follows all the technical recommendations for conducting the silkworm rearing. By following proper bed disinfectant application for prevention of silkworm diseases, he has always harvested good cocoon crops. He was encouraged to rear bivoltine silkworms (SK6 x SK7) in unfavorable season and he could harvest 50 kg/100 dfls by following recommended package of practices. He is an example for other farmers in the village and area as a successful sericulturist.



His rearing capacity is only 50 dfls/crop and he does not have dedicated rearing house till date. Through sheer hard work and sincere efforts, he is able to harvest usually 50-52 kg/100 dfls. A net-income of Rs. 5200/- per crop has boosted his morale & economic condition. He was felicitated during CSB-Resham Krishi Mela. He has plans to replace S1635 with high yielding mulberry variety, C-2038 in a phased manner for improving leaf productivity and cocoon yields. His efforts are rewarded by enhanced livelihood and opines that the small farmers and family can earn enough through mulberry sericulture.

Fighting Against The Odds

Name: Smt. Budhamani Oraon

Address: Ecaguri

Senha (BLOCK)

Lohardaga Dist., Jharkhand

PIN: 835 302

Mobile: 8987947820



Smt. Budhamani Oraon, is 47 year old farmer from Ecaguri village, Senha Block, Lohardaga district. She has 0.50 acre mulberry plantation (S1635; 3'x3' spacing) and involved in undertaking silkworm rearing for the past 15 years. She began her mulberry sericulture journey with S-1 variety and used to rear three crops with multi x bivoltine hybrid. Since then, she has upgraded mulberry plantation to S-1635 (3'x3 spacing); as a result significant increase in leaf yield was achieved. She is currently follows modern practices/technologies of silkworm rearing. By utilizing quality leaves, she usually undertakes two Bivoltine hybrid crops and another multi x bi crop covering about 150 dfls per year. She has received financial assistance for the rearing appliances (rearing trays, mountages & nets) from DOS-Jharkhand, including construction of silkworm rearing house. She procures chawki worms from REC-Bhandra and utilizes bleaching powder, lime, bed disinfectants as per recommendation for harvesting good cocoons which are qualitatively superior.



Smt. Budhamani participates actively in various technology awareness and extension programmes conducted by REC and DoS. She encourages other farmers to take up sericulture. She understands the importance of technological interventions for obtaining improved cocoon crops and thereby improved economic returns. She meets her family's financial requirements through sericulture.

She takes proper care for harvesting good quality cocoons, which fetches higher prices in the market. The bivoltine hybrid (SK6 x SK7) crops have yielded 50 kg/100 dfls on an average. As the rearing capacity is only 50 dfls per crop, she could manage to maintain appropriate feeding and health status. The income each is around Rs. 5000/-, which boosted her morale and family's economic condition.

Her success has motivated several other women in the village for undertaking mulberry sericulture. She was able to continue sericultural activities for the last fifteen years through dedicated and industrious efforts. She is also planning to replace S1635 with high yielding mulberry variety (C-2038) in a phased manner for increasing the brushing capacity.

Smt. Budhamani's successful efforts through sericulture for improving the rural farmer's family income status and livelihood should become an example for others.



Livelihood Through Sericulture – An Example

Name: Shri Lakhidhar Jhadia

Address: Prajashilla
Kashipur (PO), Raygada
Odisha
PIN: 765 015
Mobile: 7657083158



Kashipur block of Raygada district is one of the most important mulberry sericulture areas in Odisha. Around 81% population mainly depend up on agriculture and allied sectors for their livelihood. Shri Lakhidhar Jhadia is a 48 year-old tribal farmer from Prajashilla village and was struggling hard to make both the ends meet as a daily wage earner. The farmer's family was reliant on one rice crop and daily labour to earn around Rs. 25,000 per annum for their livelihood. His financial status was fragile, even though he had 3 acres land. Unhappy with the pitiable socio-economic conditions, the farmer was looking out for an alternate activity to augment his income.

Incidentally, he was fortunate to register as a member of Mulberry Rearers' Cooperative Society during 2009-10 itself. He found sericulture as lucrative and took up seriously with a hope to earn additional income and alleviate the poverty. He acquired the technical skills for mulberry cultivation and silkworm rearing. He has also received financial assistance for rearing shed construction and equipment through CDP.



Presently, the farmer is rearing bivoltine silkworm hybrids (SK6 x SK7 & FC1 x FC2) with well-maintained mulberry garden (S-1635 variety). He has adopted improved shelf rearing, which improved productivity by drastically cutting down labour requirement for rearing. Earlier, the production levels were only 22-28 kg cocoons/100 dfls (2010-11), which increased up to 50 kg with the adoption of latest sericultural technologies. The successful cocoon harvests could fetch a sum of Rs. 1,34,311/-. Moreover, he is also started earning by raising mulberry nursery. His success has given hope for many others and was conferred with best farmer award for two consecutive years during CSB-Resham Krishi Mela. With the steady flow of money from sericulture, economic conditions of the family gradually improved. He could also buy one acre land, mobile phone and savings in the form of gold.

Particulars	2017-18				2018-19		
	1 st crop	2 nd crop	3 rd crop	4 th crop	1 st crop	2 nd crop	3 rd crop
Dfls (No)	40	140	100	100	100	100	185
Cocoon Yield (kg)	18	76	42	30	50	42	125
Income (Rs.)	3650	38000	10836	6000	21300	12525	42000
Total (Rs.)	58486				75825		



A Saga of Triumph in Mulberry Sericulture

Name: Smt. Sarita Bhuyan

Address: Kusapalli
Mahendragada (PO) via R. Udayagiri
Gajapati Dist., Odisha
PIN: 761 016
Mobile: 8763890331



Smt. Sarita Bhuyan from Kusapalli village, Udaygiri block, Gajapati district of Odisha could hardly pursue primary education. For the 45 year-old, agriculture and allied activities coupled with daily wage earnings were the only source of income. She had hard times in maintaining a family of five. Her marginal holding of 2 acres was used for growing maize as rainfed crop for many years. She failed even to realize the expenditure incurred and with the limited resources, family constantly faced financial crunch. Encouraged by group meetings on sericulture catalyzed her to take up sericulture for economic empowerment by enrolling as a CDP farmer. She was exposed to sericultural technologies in Karnataka during 2010. With the CDP assistance, she established mulberry garden and silkworm rearing shed. During initial years, cocoon yields were pegged at 36-40 kg/100 dfls with multi x bi hybrids. Later, she has utilized productive double hybrids and plastic collapsible mountages and her sericultural skills to improve the cocoon productivity up to 59 kg/100 dfls.



Currently, she owns an acre of rainfed garden (S1635 variety) and takes up 100 dfls/crop. Her hard work, sincere and industrious efforts have resulted in improving her family's livelihood through sericulture. She has made big strides in sericulture. Adoption of sericulture coupled with other agriculture activities boosted annual income from Rs 20,000/- to Rs 84,000/- during 2019. The impact of sericulture is such that her beloved children could attend to good schools, her life's biggest dream. She is also happy to have a smartphone, TV and motorcycle, all procured out of the income from sericulture.

At present, the self-sufficient Smt. Sarita Bhuyan has achieved better economic status & according to her Sericulture is the one of the finest agro-based activity for providing financial returns in a short span of time.



Year	Dfls reared				Cocoon Yield/ 100 dfls (kg)	Gross Income (Rs)
	1 st	2 nd	3 rd	Total		
2017-18	100	100	110	310	36.77	37530
2018-19	80	110	90	280	49.64	47330
2019-20	100	125	125	350	59.71	64790

Sericulture – An Ideal Component for IFS

Name: Smt. Nabanita Das

Address: Potia phakala gaon
Jorhat Dist., Assam
PIN: 785 111
Mobile: 7576918243



Smt. Nabanita Das is a leading organic farmer from Potia Phakala Gaon in Jorhat with a keen interest in Integrated Farming System (IFS); the proven model for sustainable agriculture. She is practicing organic farming for the past 10 years and won several accolades from Govt./NGOs. She made an effort to convert traditional organic farming into the IFS by introducing mulberry sericulture in upper part of Assam.

Smt. Nabanita Das's was drawn towards mulberry sericulture and initiated silkworm rearing. She attended few awareness and skill training programmes organized by CSB and DoS. She reared 50 dfls of an improved crossbreed (ICB), 12Y x BFC1 during Spring 2020. Since sericulture activities were new to the village, technical support was extended by CSB. Mulberry leaves were also sourced from the accessible trees in the village to meet the leaf demand for the existing crop. With the crave to succeed and with hard work, a successful crop of 30kg good quality cocoons was harvested. This is certainly a break-through achievement, as farmers in Assam usually do not harvest as much and farmer could sell the produce at Rs.250/- per kg.



The encouraging results at first attempt prompted Smt. Nabanita Das, for adoption of mulberry sericulture into her existing farming system. Her organic farming was involved in rearing domestic fowls, ducks, cows, goats; farming vegetables, fruits (litchi, guava, papaya etc.) successfully. RSRS-Jorhat extended support to the farmer for establishing 0.08 acre mulberry plantation with the high yielding mulberry variety (C-2038). The enthusiastic farmer adopted recommended cultural practices for organic farming and the plantation is fully established with 100% survival. The farmer has integrated sericulture into an existing IFS through organic approaches. The mulberry garden was provided with FYM from cattle rearing, goats and birds etc. as per recommended package of practices.

Smt. Nabainta Das is set-out to integrate sericulture with other farmers as she is already an icon in the village for organic farming. Recently, she has also introduced mushroom cultivation in the integrated farming system (IFS) using the available resources in the farm. The success of Smt. Nabanita Das should boost the overall productivity and income per unit area in Assam and inspire other farmers to introduce sericulture for better economic returns and livelihood.



Enhanced Income of Mishing Tribes through Sericulture

Name: Smt. Helena Pegu

Address: Dani Chapori vill.. Der Gaon P.O.
Golaghat Dist., Assam
PIN:785614
Mobile:6000678018



The 'Mishings' or Miris are an indigenous community inhabiting parts of Assam & Arunachal Pradesh. They inhabit in the fertile lands on the banks of the Brahmaputra river and retain unique cultural identity. Repeated floods have crippled the economy of this community. Agriculture is the mainstay of Mishings' livelihood and grow paddy, mustard, pulses, maize, vegetables, tobacco, bamboo, areca, etc. The women folk contribute to family income by rearing pigs, fowls & goats. Dani Chapori village was adopted by RSRS-Jorhat as a part of 'Seri Model Village'. The farmers were imparted training for improving unit area productivity utilizing new technologies mulberry sericulture. Nonetheless, the farmers were traditionally Ericulture farmers and take up rearing eri silkworms in the bamboo dwelling houses. These 50 farmers were involved in reeling and weaving activities for own use and market excess fabrics to generate additional revenue.



Farmers used to follow conventional method of rearing silkworm using bamboo trays or even rearing on the floor of dwelling house spread on cloth/bamboo mats. Farmers usually rear up to 100 dfls without any rearing appliances. Overcrowding regularly used to frequent incidence of flacherie infections. As a result, farmers could manage only 35kg/100 Dfls.

Through the Seri Model Village programme, Smt. Pegu could establish one bigha mulberry garden and undertaken rearing of bivoltine hybrid (SK6 x SK7) during Autumn (October-December) and Double Hybrid during Spring season (March-May). Shoot rearing was adopted with racks made-up of bamboo. A cocoon yield of 42.8 kg was harvested, which is far above the 25kg previously following traditional methods.

The farmer exemplifies the might of adopting appropriate technologies to change the way traditional sericulture. Convinced by the success, other exuberant farmers also adopted shoot rearing method utilizing locally available materials. This has certainly helped the farmers to conduct silkworm rearings easily according to the recommended package of practices within their dwelling houses with minimum space.

Smt. Pegu and her tribe would be examples for the other women farmers for enhanced income from sericultural activities.



A Tale of Success Woven by Silkworms

Name: Shri Naba Kumar Nath

Address: Kamarpara
Outala (PO)
Darrang Dist., Assam
PIN: 784 525
Mobile: 9577542688



Shri Naba Kumar Nath (44 years) is revered as a progressive Sericulturist in Kamarpara village of Darrang Dist., Assam. He is involved in mulberry sericulture since 2009-10. He has received financial support under CDP for planting S-1635 mulberry variety in 0.5 acres. Over the years, he has been empowered with improved technologies in mulberry cultivation and silkworm rearing because of his sincere interest. As a result, significant increase in leaf and cocoon yield was achieved by him. At present, along with other agricultural activities, he is rearing 200 dfls/year in two crops. Hi income from sericulture is around Rs. 35,000-41,000.

The earnings from sericulture enabled him to provide better education to his children in reputed school. Moreover, it also helped him from the age-old debts of money lenders. Today his entire family is engaged in rearing and post cocoon activities like reeling and weaving etc.



Inspired by the success of Shri Kumar, a number of other farmers in the Kamarpara village are now practicing sericulture. He assists the sericulture officials to organize programmes for enhancing overall skills in silkworm rearing. Sericulture has become one of the major occupation for the farmers with sustainable returns round the year.

Shri Kumar is very enthusiastic and has acquired skills on latest technologies by participating in ECPs and training programmes. Consequently, he has promptly replaced the local mulberry variety with high yielding variety and also expanded to 0.7 acres. His brushing capacity has increased to 200 dfls. Less productive multi x multi were substituted with multi x bi and bivoltine silkworm hybrids. Further, he aims to open an outlet for his silk produce (fabric) in Guwahati. The tribe of his community should be able to motivate others to practice sericulture.



Year	No. of crops (2/year)	Dfls / year	Cocoon yield/ 100 dfls (kg)	Total Income (Rs.)	Net Income (Rs.)
2015-16	Spring & Autumn	200	40.0	42000	35000
2016-17		200	43.5	46000	40000
2017-18		200	45.0	47000	41500

Mulberry Sericulture – Panacea for Poverty Alleviation

Name: Illa Rani Begum

Address: Burhadoi
Burha (PO),
Darrang Dist., Assam
PIN: 784 148
Mobile: 6002310692



Sericulture has changed the perception, personality and life of Smt. Illa Rani Begum of Burhadoi village, Darrang-Assam. Aged 35 years, she was an one-time wage earner under MGNREG Scheme. As she had studied up to class VIII only, finding another source of income was becoming a difficult proposition. NERTPS scheme introduction in Darrang (2015-16) gave her an opportunity to become a progressive farmer in Sericulture. After going through the formal training, she had been provided with assistance/support and technical guidance by DoS & CSB. She has established 0.5 acre mulberry garden. She usually undertakes 200 dfls/year (100 dfls/crop) silkworm rearing and harvesting good cocoon yields. This was possible due to her motivated interest to learn and adopt rearing skills, which currently making her to earn an yearly income of Rs. 36,000 - 47,500 from sericulture. She is happy to be a earning member in the family to meet their financial needs.



Over the years, the monetary returns from sericulture gradually increased and now the farmer is considering to expand the mulberry area to enhance the brushing capacity. Smt. Illa Rani Begum has cleared the debts that bothered her family for a long-time and her children attending schools. Today, her entire family assists her in silkworm rearing, reeling and weaving. She contemplates to have an outlet of the silk fabrics/materials in Mangaldoi-Assam.

The success of Smt. Begum has inspired others in the village to practice sericulture and now they depend solely on sericulture for their livelihood. Smt. Illa Rani Begum is involved in organizing the farmers of her own village and nearby areas to develop their skills in various spheres of mulberry sericulture, aiming to bring an holistic development to provide sustainable returns throughout the year.



Year	No. of crops (2/year)	Dfls /crop	Cocoon yield/ 100 dfls (kg)	Total Income (Rs.)	Net Income (Rs.)
2015-16	Spring & Autumn	200	42.5	43000	36000
2016-17		200	45.0	47000	42000
2017-18		200	51.5	52000	47500

Mulberry Sericulture –

Paving ways for Women Empowerment

Name: Smt. Kevizonuo

Address: Vidima

Dhansiripar

Diampur, Nagaland

PIN: 797 103

Mobile: 9774192236



Smt. Kevizonuo is aged 38 years and was born in a family which primarily depended on agriculture for living. For the matriculate woman, her mind was constantly occupied with the thoughts of finding a suitable occupation to lift the economic status of the family, but could find none for a long-time.

Mulberry sericulture was not practiced by her family, although they used to rear Eri silkworms for consuming pupae. Like “Chance favours only the prepared mind”, she was selected as a beneficiary under IBSDP by the DoS-Nagaland in 2015-16. Subsequently, she received extensive training on mulberry sericulture from CSB & DoS including exposure visits. At present, Smt. Kevizonuo is one of the most successful farmers in Nagaland. Apart from mulberry sericulture, she is also an experienced Eri farmer and the entire family now engages in sericulture activities most of the time.



Initially, Smt. Kevizonuo planted mulberry in an acre of land, which has later expanded to 1.5 acres due to renewed interest as sericultural income improved. In the Autumn of 2016, she began with 50 dfls of bivoltine hybrid rearing to produce 25 kg cocoons with earnings around Rs.10,000. Since then she has acquired lot of skills with regard to mulberry cultivation, silkworm rearing and other allied activities. She has also adopted several technologies through financial assistance from DoS/CSB.

Currently, the farmer is rearing 140 dfls/crop with an average yield of about 77.5 kg of cocoon/crop and her income rose up to Rs. 30,990 per crop. As a result her financial needs are being met from the earnings through mulberry sericulture. The soio-economic status of the family also improved quite considerably.

Further, she also takes up Ericulture along with mulberry silkworm rearing to generate additional income of about Rs. 36,000 per annum. She also raised 96000 mulberry saplings (S1635) under IBSDP-NERTPS to fetch handsome returns to the tune of Rs.1,44,000/-. At present, her net annul income is around Rs. 1,00,000 on an average; which is much more handy to meet the financial demands of the entire family that provides enhanced buying power as compared to earlier days.

Year	Crops/ year	Dfls /crop	Cocoon yield (kg)	Gross Income (Lakh)	Net Returns (Lakh)
2016-17	2	50	25	0.10	0.09
2017-18	2	140	77.5	0.31	0.29
2018-19	2	140	77.5	0.31	0.29

Self Employment – The Sericulture Way

Name: Dipali Dimasa

Address: Bamunpukhuri - "B"

Dimapur, Nagaland

PIN: 789116

Mobile: 8787804784



Smt. Dipali Dimasa is a 42 year-old sericulture farmer from Dimapur-Nagaland. She is practicing mulberry sericulture since 2014-15 ever since her selection as a beneficiary under IBSDP by the DoS-Nagaland & CSB. She started her journey with a brushing capacity of mere 20-25 dfls with 0.5 her acre mulberry plantation. She has established herself as a pioneer in the silkworm rearing, becoming inspiration for fellow women farmers to achieve the same success. She acquired and updated her sericultural skills by participating in technology awareness and extension communication programmes organized by CSB & DoS-Nagaland. She has also received financial assistance from the Government agencies for establishing the infrastructure required for undertaking sericulture. Constant involvement, sincere efforts and industrious nature of Mrs. Dimasa played key role in her success as sericulture farmer. At the beginning, she could earn only few hundreds of rupees through sericulture owing to limited experience and skills.



Presently, Mrs. Dimasa earns not less than Rs.2 lakhs/year from two crops undertaken during spring and autumn seasons. She does chawki as well as late age rearing and harvests good cocoon crops. Smt. Dimasa is an ideal example for the creation of self-employment through sericulture and epitomizes the impact of government schemes on socio-economic upliftment of the weaker sections. With hard work and desire to succeed, Smt. Dimasa is now a proud CRC owner with more than 3 acres of mulberry plantation and the CRC handles 2500 dfls till Chawki and 500-600 dfls up to late age. Her passion to explore new avenues and devotion to work has led her to become one of the most successful mulberry Sericulturist in Nagaland.

Year	Crops/ year	Dfls /crop	Cocoon yield (kg)	Gross Income (Lakh)	Net Returns (Lakh)
2015-16	2	50	13.0	0.10	0.08
2016-17	2	200	28.5	0.45	0.35
2017-18	2	400	27.5	0.85	0.75
2018-19	2	500	28.0	1.12	1.05



Dedicated Efforts Of An Illiterate Woman

Name: Smt. Koma Sari

Address: Kdiap

West Jaintia hills district, Meghalaya

PIN: 793 151

Mobile: 9366592576



Smt. Koma Sari, 32 year-old residing in Kdiap village under Thadlaskein Block of West Jaintia Hills district, Meghalaya along with a family of 8 members. She is very hard working farmer and had adopted sericulture practice since 2014. Being a rural farmer, where no other source of income is available, she and her family members have to find new ways by involving in agro-based activities. She has been introduced to sericulture from the awareness programmes conducted by REC-Shillong & DoS-Meghalaya in 2013. She was determined to integrate sericulture activity in her farming system along with other crops. But, initially she found it to difficult to take up the job due to lack of sericulture appliances and separate rearing house. With the assistance from sericulture officials she started her sericulture endeavors, ultimately to establish her own rearing house in the following year. Looking at her enthusiasm and hard work, she was selected as beneficiary under IBSDP Scheme of NERTPS for the year 2015-16 for infrastructure assistance.



IBSDP provided her a very good rearing house, rearing appliances, water storage tank. She also established high yielding mulberry (S1635) plantation. She was constantly guided by the REC-Shillong/DoS with necessary technical support. She also attends the training programmes eagerly for capacity building under IBSDP. Since then, her hard work had increased her rearing capacity upto 100 dfls/crop with the earnings around Rs.43,000/- from sericulture activity. She also practices Eri rearing during mulberry off-season for additional income. Sericulture has helped her to support the family by providing good livelihood and education to her children. She is now planning to extend mulberry plantation, so that she can also increase her rearing capacity for a secure livelihood in the years to come.



Year	Crops/ year	Dfls /crop	Cocoons yield (kg)	Gross Income (Rs.)	Net Returns (Rs.)
2017-18	2	50	43.00	12900	12900
2018-19	3	70	46.19	30000	30000
2019-20	3	100	48.00	43200	43200

Sincere Efforts Ensure Empowerment

Name: Notswel Larpih

Address: Umladang

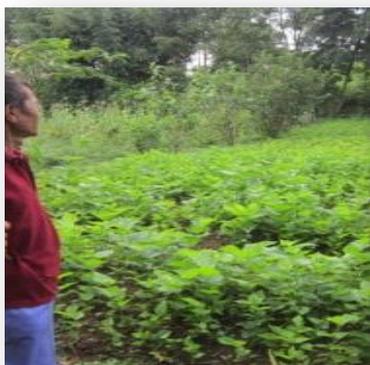
West Jaintia Hills Dist., Meghalaya

PIN: 793 151

Mobile: 9612355547



Shri Notswel Larpih, 65 year-old lives with his family in Umladang village, Thadlaskein block. He used to support 8 member-family by practicing farming and agriculture and could not meet the demands of the family fully. Being the head of a big joint family, he was always on the look-out for finding better avenues to support every need and provide better livelihood to his family. In his quest to earn more money, he started Sericulture farming on his own in 2012 after watching sericultural activities in the village. He was initially assisted under CDP (2014-15) for the establishment of proper & separate rearing house and later for mulberry plantation. Shri Notswel Larpih's efforts and the potential for mulberry sericulture in the village lead to the Kissan Nursery being established under IBSDP scheme (NERTPS) for expanding mulberry sericulture in the area. They could raise 1.2 lakh saplings for distribution to forty farmers in 2016-17. There by he could earn an income of Rs.1.80 lakh.



He has gained required technical skills and expertise in mulberry cultivation and silkworm rearing, sooner to become a progressive Sericulturist in the area. He also conducted silkworm rearing's continuously and rears about 350-400 dfls in three crops. His cocoon crop harvests are good and fetch good rate in the market. They could provide an additional income of Rs.50,000 to Rs.60,000. In addition, he also earns good income from Eri silkworm rearing and other agriculture crops. Following his sericulture practice, he is able to support his family in a better way and provide children with proper education.



Year	No. of crops	Dfls /crop	Yield/100 dfls(kg)	Total Income (Rs.)	Net Income (Rs.)
2017-18	3	80	49.17	35000	35000
2018-19	3	100	46.66	42600	42600
2019-20	3	150	43.55	60000	60000

Sericulture Through Technological Intervention

Name: Shri F. Ronghaka

Address: Tawipui North –II.

Lunglei Dist., Mizoram

PIN: 796 701

Mobile: 9862809178



Shri F. Ronghaka is one of the most successful farmers among the ISDP beneficiaries under NERTPS in Mizoram. Before taking up of sericulture, he was unsuccessful in setting up Orange and Strawberry farming. Ever since, he took up mulberry sericulture by establishing mulberry garden (3 acres), he is regularly takes four crops in a year. He has adopted improved technologies for harvesting good silk cocoon crops with lot of interest and enthusiasm.

Under ISDP, he has received assistance for mulberry plantation development, silkworm rearing house, mounting hall, rearing equipment etc. He has gained confidence in silkworm rearing following his skill up gradation training. The secret of his success in sericulture is mainly due to sincere efforts to practice what he has learnt. DoS-Mizoram and REC-Aizwal were constantly guiding the farmer with the necessary technical support for harvesting crops with better productivity and good quality cocoons.



Year	No. of crops	Dfls /crop	Yield/100 dfls(kg)	Cross Income (Rs.)
2017-18	4	100	64.00	64000
2018-19	4	100	63.00	75600
2019-20	4	100	65.00	78000

At present, he is able to undertake 400 dfls silkworm rearing with around 65kg yield/100 dfls. The earnings are around Rs. 75,000 per year, which are able to meet the financial needs of the family. According to Shri Ronghaka, mulberry sericulture had transformed his livelihood from uncertainty to sustainable condition. His children now could afford education in a good school apart from repaying all the earlier debts. He also renovated his house and improved lifestyle.

The farmer also received an award of being the outstanding farmer in sericulture in 2018 under Lunglei district by Agriculture Management Technology Agency (ATMA). He is content with the economic returns from sericulture and improved livelihood.



Success Through Mulberry Sericulture

By A Woman Farmer

Name: Smt. Vanlalzawmi

Address: Biate

Champhai Dist., Mizoram

PIN: 796 370

Mobile: 7085843627



Smt. Vanlalzawmi is aged about 44 years, wife of Shri Lalsiamkima and a mother of three children. She used to practice the ancestral occupation of tea plantation. She has bright and sharp mind with leadership qualities. She was selected as Resham Karmi in her village under NERTPS for the implementation of IBSDP in Mizoram, She organized Women groups in her village through formation of SHGs and plays active role and motivated many of farmers in the surrounding villages. Often she was invited as lead farmer to shared her experiences from sericulture as a livelihood option.

She was assisted with plantation development, rearing house, mounting hall, rearing equipment etc. through IBSDP. Although the targeted plantation 0.5 acres only, she convinced her family and established 1.5 acre mulberry garden by replacing part of tea garden with high yielding S-1635 variety.



After attending the SUP training programme, she gathered commendable knowledge on silkworm rearing technologies. She could increase brushing capacity subsequently and rear more number of dfls by harvesting all the mulberry plantation. According to her, “Sericulture opens eyes for uplifting women, create more confidence, enables group activities and provide more secure financial earnings for the family”.

Mrs. Vanlalzawmi is fully involved in preaching of what she has achieved through sericulture in Mizoram.



Year	No. of crops	Dfls /crop	Yield/100 dfls(kg)	Total Income (Rs.)	Net Income (Rs.)
2017-18	4	60	50.00	30000	36000
2018-19	4	80	53.13	51000	51000
2019-20	4	100	54.00	64800	64800

An Inspirational Youth with Mulberry Sericulture

Name: Sri Rakesh Mazumder

Address: Dakshin Ekchari, Natun Bazar (PS)

Chelagang Bazaar (PO)

Gomati Dist., Tripura

PIN: 799 104

Mobile: 9862246433



Shri Rakesh Mazumder, a 25 year-old young, energetic and educated marginal farmer from Tripura. He started sericulture on his own through encouragement from Smt Adari Saha, a woman sericulturist in the area. He is practicing sericulture since 2016 with one acre mulberry garden (S1635, an high yielding variety). He undertakes five crops annually by rearing cross breed and bivoltine hybrids.

Shri Rakesh was supported financially under Catalytic Developmental Programme. He obtained technical guidance from DoS & REC-Tripura on mulberry cultivation and silkworm rearing. He increased brushing capacity by establishing necessary infrastructure and improving mulberry plantation.



He maintains the mulberry garden properly by following recommended package of practices; especially the pruning system. He harvests good quality cocoons around the year for earning good amounts of money. He adopted new technologies following their introduction to reap the benefits. He is very enthusiastic about the prospects of mulberry sericulture to improve the economic status of his family and thereby their livelihoods. He enhanced net income of the family from sericulture. At present, he is recognized as a lead farmer in sericulture and motivates other to follow the path of development.



Year	No. of crops	Dfls /crop	Yield/100 dfls(kg)	Total Income (Rs.)	Net Income (Rs.)
2017-18	5	65	43.05	48650	41150
2018-19	5	75	38.48	50505	43005
2019-20	5	75	42.93	56350	48850

A Humble Beginning – Rewarding Sericulture

Name: Smt. Adari Saha

Address: Dakshin Ekchari, Natun Bazar (PS)

Chelagang Bazaar (PO)

Gomati Dist., Tripura

PIN: 799 101

Mobile: 9862246433



Smt. Adari Saha is 56 year-old widow from Dakshin Ekchari village and the mother of four children practicing sericulture since 2014. After the death of the husband, she has gone through a lot of financial hardship and other problems as a home-maker and family head. To meet her family's economic needs and for decent livelihood, she choose sericulture as an occupation. She holds 0.5 acre land with high yielding mulberry variety, S-1635.

She was supported financially under CDP for the construction of rearing house. She has acquired quite good knowledge on technical skills required for cultivating mulberry and conduct silkworm rearings. She participates in the group discussions, technology awareness and extension communication programmes actively for updating herself.



She involves in various social development activities organized different government agencies. She has become self-sufficient to conduct her banking works herself and able to fulfil many other outdoor activities.

Smt. Saha undertakes five crops in an year and rears bivoltine hybrids during favourable seasons and crossbreed during unfavourable conditions. The maintenance of mulberry garden and silkworm rearing activities are conducted alone. She is able to improve the productivity from silkworm rearing (from 45kg/100 dfls to 51kg/100 dfls). Accordingly, the economic returns from sericulture also improved i.e., from around thirty thousand rupees to Rs. 40,000. The quality of cocoons harvested by Smt. Saha is very good and fetch good prices in the market.

With the sustainable crop yields round the year, she could meet her family's needs and is able to lead a happily and satisfactory living. She is practicing sericulture quite successfully by following the recommended package of practices. At present, she is a lead farmer and showing of path of development to other women-folk in the village. Her success has become an inspiration for other farmers in the village to take up sericulture. She feels that mulberry sericulture is highly remunerative and viable economic occupation for maintaining good lifestyle.

Year	No. of crops	Dfls /crop	Yield/100 dfls(kg)	Total Income (Rs.)	Net Income (Rs.)
2017-18	5	50	45.20	37538	32000
2018-19	5	50	48.80	42700	37000
2019-20	5	50	51.20	44800	39800

Dreams Come True - Mulberry Sericulture

Name: Sri Shorensangbam Deben Meetei

Address: Terakhong Maning Leikai

Moirang (PO)

Bishnupur Dist., Manipur

PIN: 795 133

Mobile: 7005980774



Shri. Shorensangbam Deben Meetei is an 50 year-old mulberry farmer from Bishnupur district (Manipur). He is staying with his mother, wife and two children. He is a graduate and was searching for means of earning to maintain his family. He initiated sericulture activities during 2011 with the technical support from CSB & DoS-Manipur He is a beneficiary of ISDP under NERTPS (2015-16). In order to support his family, he took-up sericulture as an avenue. He is quite convinced with the advantages of practicing sericulture because of low investment, high returns and less-risk. He has been provided with assistance for plantation of mulberry, construction of rearing house and the silkworm rearing appliances. He has established 1.4 acres of mulberry plantation with S1635 variety and maintaining following recommended package of practices. He usually conducts four crops in an year and rears bivoltine hybrids.



Moreover, he has started to practice intercropping in mulberry plantation with vegetable like cabbage, onion, garlic etc. since 2017-18. With the intercropping in mulberry, he could earn an additional amount of Rs.65,000 to 70,000/- annually. He concentrates on intercropping immediately after the completion of second autumn silkworm rearing (November-December), before pruning the mulberry in the 1st week of December.

Shri Deben Meetei is one of the role model in the sericulture community with his enterprise and for doing sericulture as a source of income for his livelihood. He also helps fellow farmers in adopting improved sericulture technologies and initiate sericulture on their own. He is able to meet his family's needs including children's higher education through the sericultural income.



Year	No. of crops	Dfils /crop	Yield/100 dfils(kg)	Total Income (Rs.)	Net Income (Rs.)
2017-18	4	400	179.00	64980	64980
2018-19	4	500	248.50	95850	95850
2019-20	4	600	306.00	119460	119460

Way To Successful Livelihood

Name: Smt. Ningombam Khomdon Leima

Address: Haotak Tampha Khunou
Moirang (Kumbi) (PO), Moirang (BLOCK)
Bishnupur Dist., Manipur
PIN: 795 133
Mobile: 9005089305



Smt. Ningombam Khomdon Leima is 49 year-old bivoltine mulberry sericulture farmer from Haotak Tampha Khunou village. She has studied up to class X and lives with husband and two grown-up children. She started sericulture activities during 2010 with the technical support from CSB and DoS-Manipur. She has been selected as ISDP beneficiary of NERTPS (2015-16).

She participates quite actively for all the training and extension communication programmes on mulberry cultivation and silkworm rearing organized by CSB/DoS-Manipur. She is fully convinced with the advantages of practicing mulberry sericulture for livelihood because of sustainable income. To shore-up the monetary resources of the family, she has taken up mulberry sericulture. Besides sericulture, she also grows vegetables viz., cabbage, mustard leaf, onion, garlic etc. as intercropping with mulberry for additional income.



Year	No. of crops	Dfls /crop	Yield/100 dfls (kg)	Total Income (Rs.)	Net Income (Rs.)
2017-18	4	440	202.00	74570	74570
2018-19	4	540	279.60	108402	108402
2019-20	4	600	3018.00	124170	124170

Under the NRETPS project, she has been provided assistance for plantation of mulberry, construction of rearing house and the silkworm rearing appliances. She has established 1.2 acres of S1635 & Vishala mulberry plantation. She conducts four crops in an year (600 dfls). By adopting improved package of practices, she is earning more than 1.2 lakh rupees from sericulture farming. Her economic condition has improved as a result and is able to support the day to day expenditure for children's education and purchase of house-hold items.

Smt. Leima is an inspiration to the fellow farmers in the village. with her enterprise and doing sericulture as a source of income for her livelihood. She is bold, confident and open to adopt new technologies. She helps other farmers with her valuable advice. Sericulture has helped her with good returns for leading a happy livelihood.



Improved Efficiency – Significant Returns

Name: Smt. Nayayam Mize

Address: Oyan , Sille
East Siang Dist., Pasighat
Arunachal Pradesh
PIN: 791 102
Mobile: 9436246892



Smt. Nayayam Mize is professionally trained teacher residing Oyan village. She lives with two children and husband. She is supporting the family by involving mulberry sericulture. She has started to grow 0.5 Acre mulberry plantations on her own. She has been assisted under NERTPS project (2015-16).

She is involved in mulberry sericulture with an SHG comprising of local farmers. The SHG has all the necessary infrastructure like mulberry plantation (S1635), rearing house and & other rearing appliances. They undertake bivoltine silkworm rearing with the technical guidance and improved technologies from CSB and DoS-Arunachal Pradesh. The farmers rear bivoltine crops during favorable season and crossbreed during unfavourable conditions. The efforts of SHG are very good to train the farmers and conduct seasonal rearings. The farmers are able to rear silkworm with good cocoon harvests and earn handsome returns.

She is very much interested and enthusiastic to cultivate mulberry and rear silkworms for earning additional income. She is knowledgeable with sericulture practices since her childhood as their family was practicing sericulture. She has a positive outlook and works hard for benefits. She is also interested and ready to learn the new technologies in mulberry sericulture. She regularly attends the technical and training programmes organized by DoS & CSB. of any Departmental she is always ready to attend regularly and reply feed backs very positive.

So far, the crop performances undertaken by her were always successful. The cocoon harvests have improved with higher yields and earns around Rs. 28000/- currently by rearing 130 dfls in two crops. The net returns from sericulture are very encouraging according to her and its cost-benefit is higher than any other agriculture crop.

She is conducting silkworm rearing in a small scale in a crop, but increased the number of crops. Through this approach, she could improve her economic status and support her husband to meet the financial needs of the family. She guides other farmers in the community with timely advice.

Year	No. of crops	Dfls /crop	Cocoon Yield	Gross Income (Rs.)	Net Returns (Rs.)
2017-18	1	80	32.00	11000	6000
2018-19	2	45	33.00	11550	9300
2019-20	2	130	97.00	33950	28500



Family Welfare - Mulberry Sericulture

Name: Shri Kakati Borang

Address: 12-mile, Ruksin
East Siang Dist., Pasighat
Arunachal Pradesh
PIN: 791 102
Mobile: 7005743414



Shri Kakati Borang is a diligent farmer from Village-12th Mile near Poba wildlife reserve forest in the East Siang district. The area is an under-developed locale and most of the farmers practice Mulberry Sericulture through traditional techniques. He has a happy and small family with wife and two children. The farmers in the area are not able to earn enough money from agricultural crops. Mr. Borang initiated mulberry sericulture with the financial assistance under NERTPS project in Arunachal Pradesh (2015-16). He has 0.3 acre mulberry plantation with an improved variety (S1635 in 90 x 90 cm spacing). He maintains the farm by applying manures/fertilizers etc. as recommended and grows quality mulberry leaves for silkworm rearing.



The required infrastructure facilities like rearing house, appliances etc. were also been supported under NERTPS. His brushing capacity improved leaps and bounds by following improved technological practices. He is at present rearing two crops per annum (Autumn & Spring). He rears crossbreed and bivoltine hybrids and harvests very good quality cocoons.

Currently, his brushing capacity increased over the years and also the cocoon yields. He is continuously earning good amounts of money by involving in sericulture farming. He is able provide financial support for his entire family.



Year	No. of crops	Dfls /crop	Cocoon Yield	Gross Income (Rs.)	Net Returns (Rs.)
2017-18	1	20	15.00	5250	4000
2018-19	2	75	26.25	9184	6000
2019-20	2	100	54.25	18987	15500

CSRTI - Berhampore

SUCCESS STORIES

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Published by

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