

Sericulture Success Story of Innovation and Sustainable Growth



Shri. Jaydeb Mondal

Age:-36year

Village- Harekrishnapur,

Block- Karimpur-I, District- Nadia (W.B.)

Mobile number- 9733730483

Experience of silkworm rearing: 20 years

Shri Jaydev Mondal, a farmer from Harekrishnapur, has been involved in sericulture for many years, relying on his small landholding of 0.33 acres (one bigha). Initially, his livelihood was primarily dependent on silkworm cocoon production, yielding an annual income of only ₹27,000-₹40,000. He cultivated local mulberry varieties and reared $M \times M$ and $M \times Bi$ silkworm hybrids, working diligently for 28-31 days from the hatching of silkworm eggs to the silk cocoon production stage. However, Due to insufficient knowledge regarding proper incubation, black boxing, and maintaining optimal temperature levels and humidity, the hatching success rate of silkworm eggs was limited to 65-75%, with a yield of 26-34 kg per 100 DFLs (Disease-Free Layings).

Shri Mondal's situation began to turn after participating in an awareness and technical demonstration program organized by the Central Sericultural Research and Training Institute (CSRTI), Berhampore. Through this initiative, he acquired knowledge of advanced techniques in silkworm rearing, resulting in substantial improvements in his productivity. Currently, Shri Mondal cultivate 0.92 acres of the S 1635 mulberry variety and 0.083 acres of the C-2038 variety. He plans to expand his cultivation by an additional 0.083 acres of C-2038 saplings in 2024, bringing his total mulberry cultivation to 1.0 acre.

Chawki rearing, involves raising silkworms in a controlled microclimate from the time they hatch until the end of their second molt, covering the first two stages of their development. This technology in sericulture is of utmost importance to ensure that healthy young silkworm larvae are provided to farmers for later-stage rearing.

Through various extension programs, Shri Mondal also learned about the benefits of using Chawki larvae for silkworm rearing. His approach allowed him to save up to 8 to 10 days of time,

cut labor costs, and conserve mulberry leaves. By procuring Chawki from a commercial Chawki Rearing Center (CRC), he saw a marked improvement in yield. The adoption of CRC larvae led to a significant increase in the number of healthy silkworms, leading to an average yield of 55.57 kg from rearing of 100 DFLs bi-voltine larvae and 41.85 kg from multi-voltine larvae. This shift in technique substantially boosted his income, elevating his annual net income to around ₹1, 92,237.

As an early adopter of modern sericulture techniques in his locality, Shri Mondal has achieved impressive success in sericulture. He has made him a role model in his community, demonstrating how adopting new practices can lead to substantial personal and financial growth. He has a child presently enrolled in Class 10 at a prestigious school. Shri Mondal's transition from the conventional practices to adoption of innovative sericulture techniques has transformed his livelihood and significantly elevated his family's standard of living.

Now he swear that after using modern technologies he has renewed the confidence in sericulture since need not worry about the risk associated with conventional rearing method.

	
<p>Jaideb Mondal with his old plantation Variety:- S1635</p>	<p>In his rearing house with shelf rearing racks</p>
	
<p>Jaideb Mondal with his New plantation (Variety : C-2038)</p>	<p>Luxuriant silkworm cocoon production</p>

Annual silkworm rearing details with economic evaluation of technological advancement:-

#	Race	Crop Name	DFLs	Cocoon producti on (Kg.)	Yield/ 100dfls (Ava.)	Rate (Rs)	Total Amount (Rs.)	Total Net income Rs.(Approx)
1	Bi X Bi	Agrahani	150	82.50	55.00	475	39187.00	33187.00
		Falguni	200	112.00	56.00	475	53200.00	46200.00
Subtotal:-			350	194.50	55.57		92387.00	79387.00
2	M X Bi N x (Sk6 x Sk7)	Agrahani	100	47.00	47.00	450	21150.00	21150.00
		Baishakhi	200	86.00	43.00	450	38700.00	33700.00
		Jaistha	200	80.00	40.00	425	34000.00	29000.00
		Aswina	200	80.00	40.00	425	34000.00	29000.00
Subtotal:-			700	293.00	41.85		127850.00	112850.00
Grand Total :-			1050	486.50	46.33		220237.00	192237.00

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