

## 1. Success Story on impact of Improved technologies in Muga host plant management and rearing

**Name of the Farmer: Sri Atul Gogoi, Khongia, Chopagoni village of Nazira block, Nazira of Sivasagar District**



**Technologies in Practice:** Sri Atul Gogoi has 5 acres of area of Som plantation. He practiced the following improved technologies of muga culture which were demonstrated by the scientific/ technical staff of CMER&TI, Lahdoigarh.

### Host Plants:

- Spacing of host plants
- Application FYM and Vermicompost
- Pruning and pollarding schedule
- Control of stem borer

### Rearing:

- Early stage rearing
- Biological control of uzi fly
- Lahdoi for control of Muscardine disease

### Seed:

- Disease free layings

### Benefits / Impact of Technologies:

Sri Atul Gogoi has conducted muga rearing for last 20 years. But, acreage of systematic plantation has been increased by adopting improved package of practices. Leaf yield and quality have been improved. Thus rearing capacity and cocoon production have been increased. During 2016-17, his income becomes two fold from last year. He has successfully completed rearing of 1010 dfls which produced 26,000 seed cocoon and 16.7 Kg Raw silk with an income of Rs. 318000/- during 2016-17. Crop wise dfl rearing and cocoon production are as stated below:

Crop	No of dfls reared	No of cocoons produced
Aherua	340	28000
Bhodia	170	8000
Kotia	640	70000

## 2. Success Story on impact of Improved technologies in Muga Silkworm rearing

**Name of the Farmer:** Sri Puna Rajkonwar, Mathurapur village of Charaideo, Sivasagar District



### Technologies in Practice:

Sri Puna Rajkonwar has no plantation of his own. But he is conducting muga rearing in Mathurapur farm, tengapukhuri and Charaideo farm of State Sericulture Department. He practiced the following improved technologies of muga culture which were demonstrated by the scientific/ technical staff of CMER&TI, Lahdoigarh time to time.

### Rearing:

- Early stage rearing
- Biological control of uzi fly
- Lahdoi for control of Muscardine disease

### Seed:

- Disease free layings

### Benefits:

Sri Puna Rajkonwar has been conducting muga rearing and grainage for last 40 years. But, by adopting improved package of practices in silkworm rearing, cocoon production has been increased from 40 to 60 per dfl. His annual income level from Mugaculture is stated as below:

Year	Annual Income (Rs.)
2012-13	2,00,400.00
2013-14	3,08,000.00
2014-15	1,27,500.00
2015-16	2,32,500.00

### 3. Success Story on impact of Eri silk based multiple farming

Name of the Farmers: Smt. Nirmali Kachari and Smt. Rita Gogoi of Titabar area, Jorhat district



#### Technologies in practice

Smt. Nirmali Kachari and Smt. Rita Gogoi two educated women of an interior village of Titabar area of Jorhat district took the ISDS sponsored training on pre cocoon activities of eri culture organized by CMER&TI, Lahdoigarh during 2013. Both the women took challenge to change their economic condition by engaging themselves in multifarious activities. They expressed that the ISDS training has great influence for expansion of their day to day activities. Smt. Nirmali Kachari a 36 year aged higher secondary passed woman involved herself in different activities like, ericulture, paddy cultivation, vegetables cultivation, tea cultivation, dairy, etc. in integrated way. Smt. Rita Gogoi of 35 years aged also engaged in similar type of activities including fishery, piggery, tailoring, etc. They have followed the following improved technologies as stated below:

**Host Plant:**

- Systematic Castor and Kesseru plantation
- Improved package of practices in cultivation and maintenance of plantation

**Rearing:**

- Improved method of eri rearing

**Seed:**

- Disesae free layings

**Benefits:**

Smt. Nirmali Kachari's family has 1.3 acres of land for paddy cultivation, 0.7 acres for tea cultivation and 0.3 acres high land around their home for vegetable crop cultivation. The activities and income generation pattern pre and post training period are indicated below.

#	Activities	Income generation (Rs.)	
		Pre ISDS training	Post ISDS training
1	Paddy cultivation (1.3 acres)	25000.00	25000.00
2	Tea cultivation (0.7 acres)	50000.00	90000.00
3	Eri culture	5-10 dfls /crop 4-5 crops/year	10-20 dfls /crop 4-5 crops/year
	Cut cocoon	1000.00 (8000 nos.)	2000.00 (15000 nos.)
	Yarn	3600.00 (3 kg)	6000.00 (5 kg)
	Fabric	5000.00	9000.00
	<b>Total</b>	<b>9600.00</b>	<b>17000.00</b>
4	Diary	14400.00 (30 L./month)	14400.00 (30 L/month)
5	Weaving	4000.00	6000.00
6	Vegetable	8000.00	10000.00
7	Poultry farm	-	3000.00
	<b>Grand Total</b>	<b>111000.00</b>	<b>165400.00</b> (49 % gain in income)

Smt. Rita Gogoi's family has 2 acres of land for paddy cultivation, 0.8 acres bigha for tea cultivation and 1 bigha high land around their home for vegetable crop cultivation. The activities and income generation pattern during pre and post training period are evaluated as follows.

#	Activities	Income generation (Rs.)	
		Pre ISDS training	Post ISDS training
1	Paddy cultivation (2.0 acres)	30000.00	30000.00
2	Tea cultivation (0.8 acres)	50000.00	70000.00 (0.5 bigha new plantation)
3	Eri culture	5-10 dfls /crop	10-20 dfls /crop

		4-5 crops/year	4-5 crops/year
	Cut cocoon	1000.00 (7000 nos.)	1500.00 (10000 nos.)
	Yarn	3500.00 (3 kg)	6000.00 (5 kg)
	Fabric	6000.00	10000.00
4	Diary	14400.00 (30 L./month)	14400.00 (30 L/month)
5	Weaving	4000.00	6000.00
6	Poultry farm	-	3000.00
7	Piggery	-	11000.00
8	Tailoring	-	2000.00
9	Fishery	-	5000.00
<b>Total</b>		<b>108900.00</b>	<b>158900.00</b> <b>(45.91% gain in income)</b>

Thus it was observed that ISDS training has a positive impact on rural economy as well as skill development of rural poor particularly women folk through self employment generation and enhancement of total income.

#### 4. Success Story on impact of Eri C2 breed rearing

Name of the Farmer: Smti Dipti Kachari, a leading Eri rearer of Kosukhat, Titabar, Jorhat district



#### Technologies in Practice:

Various awareness programmes on ericulture like field day and group discussions from time to time has been conducted to sensitize the farmers of Titabar area for their economic upliftment through ericulture as a full time engagement. CMER&TI, Lahdoigarh under the farmer training programmes disseminated knowledge on improved eri technologies for rearing including development of eri breed C2.

Smti Dipti Kachari practiced the following technologies as stated below:

#### Rearing:

- Improved method of eri rearing

#### Seed:

- Disesae free layings

#### Breed:

- Improved eri C2 breed

**Benefits:** Cocoon production has been increased to 12-15 kg shell per 100 dfl as compared to 6-8 kg in the case of the local eco-races. Her annual income from ericulture ranges from Rs.25, 000 to Rs 30,000 through rearing of 200-250 dfls of eri C2 breed per annum as a partial occupation.