

*Vanya  
Sector*



## ASSISTANCE TO PRIVATE TASAR GRAINEURS (Capacity: 5,000 dfls per operation)

### VANYA SEED COMPONENT 1

1 Name of the sector	Tropical Tasar - Seed
2 Continuation/innovative	Continuation
3 Unit cost	Rs.2,32,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A Construction activity</b>					
1	Construction of grainage building (30' x 12' with 5' verandah) with water storage facility	Sq.ft.	420	300	1,26,000
2	Provision for storage and drainage of water	Lumpsum	--	--	17,000
	<b>Sub-total</b>				<b>1,43,000</b>
<b>B Grainage equipment</b>					
1	Microscope with light arrangement	No.	2	5,000	10,000
2	Egg laying boxes/nylon net bags	No.	3,500	4	14,000
3	Egg laying cabinet (wooden)	No.	1	6,500	6,500
4	Wooden moth testing table (5 ft x 1.5 ft)	No.	1	4,000	4,000
5	Wooden stools	No.	2	750	1,500
6	Plastic drum (60 ltr)	No.	1	1,000	1,000
7	Plastic bucket (20 ltr)	No.	5	200	1,000
8	Plastic tub (small -10 ltr)	No.	5	150	750
9	Plastic tub (big - 20 ltr)	No.	5	300	1,500
10	Plastic mug	No.	5	50	250
11	Mortar & pestle	No.	5	320	1,600
12	Measuring cylinder (Plastic)	No.	1	300	300
13	Physical balance	No.	1	1,500	1,500
14	Disinfection mask	No.	2	400	800
15	Galvanized iron wire (2.5 mm)	Kg	2	150	300
16	Wet & dry thermometer	No.	1	400	400
17	Maximum - Minimum Thermometer	No.	1	400	400
18	Gator sprayer	No.	1	5,000	5,000
	<b>Sub-total</b>				<b>50,800</b>
<b>C Consumables</b>					
1	Formalin/KOH/soap/bleaching powder	Lumpsum	--	--	600
2	Blotting paper, muslin cloth, scissors	Lumpsum	--	--	500
3	Slides and cover slips	Lumpsum	--	--	600
4	Lime	Lumpsum	--	--	100
5	Soap & detergent powder	Lumpsum	--	--	200

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## ASSISTANCE TO PRIVATE TASAR GRAINEURS (Capacity: 5,000 dfls per operation)

### VANYA SEED COMPONENT 1

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
6	White wash & annual maintenance	Lumpsum	--	--	700
	<b>Sub-total</b>				<b>2,700</b>
<b>D Moth testers</b>					
	Moth testers @ 10 man days per operation	MD	10	200	2,000
<b>E Working capital</b>					
	Seed cocoons	No.	20,000	1.5	30,000
<b>F Solar lantern</b>					
		Lumpsum	--	--	<b>3,500</b>
	<b>Sub-total</b>				<b>35,500</b>
	<b>TOTAL</b>				<b>2,32,000</b>

#### 4 Technical specifications/Norms

One grainage building (30' x 12' x 10') with all side 5' verandah @ Rs. 300 per sq. ft. Walls built of local brick and mortar with cemented floor and with zinc sheet or thatched roofing.

Land for construction of the building shall be the beneficiary contribution.

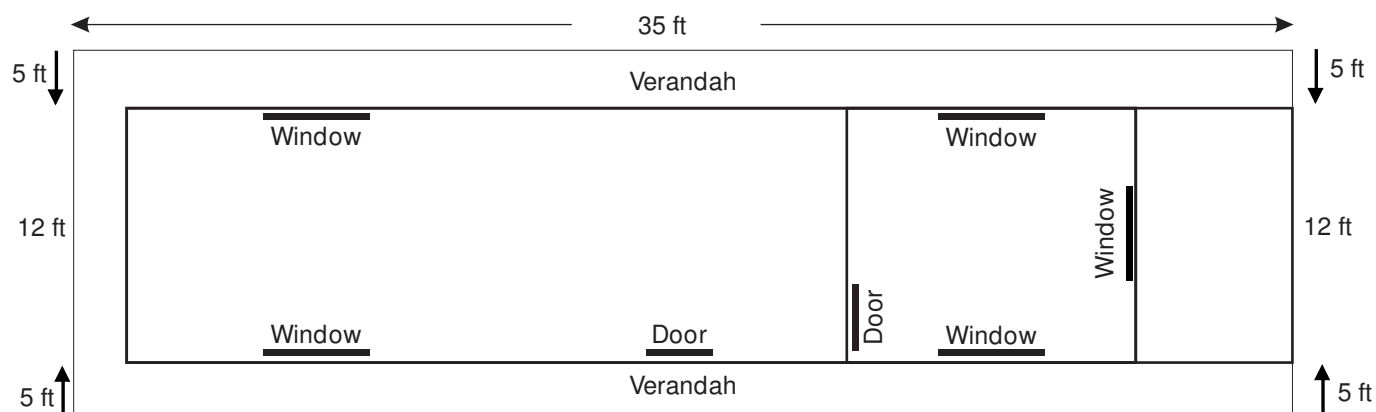
Separate provision of 5' x 12' room for oviposition, moth examination, egg washing etc.

Provision for storage of water, drainage of water etc., @ Rs. 17,000.

Capacity to preserve 20,000 seed cocoons and to produce 5000 dfls/operation(dfl weight - 2g.)

Moth testers shall be empanelled under different states through structured training like Integrated Skill Development Scheme of CSB, service providers/community resource persons promoted under MoRD/ NABARD assisted projects etc.

#### 5 Plan / Design



## ASSISTANCE TO EXISTING TASAR GRAINEURS FOR UPGRADATION OF SEED PRODUCTION CAPACITY (Capacity: 5,000 dfls per operation)

## VANYA SEED COMPONENT 1A

1	<b>Name of the sector</b>	Tropical Tasar - Seed
2	<b>Continuation/innovative</b>	Innovative
3	<b>Unit cost</b>	Rs.42,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	<b>Equipment/Consumables</b>				
1	Repair of grainage building	Lumpsum	--	--	10,000
2	Repair & service of microscope	Lumpsum	--	--	2,000
3	Egg laying box/Nylon net bag	No.	1,500	4	6,000
4	Disinfection mask	No.	1	400	400
5	Galvanized iron wire (2.5 mm)	Lumpsum	--	--	300
6	Repair & service of other equipment	Lumpsum	--	--	1,000
7	Supply of consumables	Lumpsum	--	--	1,800
	<b>Sub-total</b>				21,500
<b>B</b>	<b>Moth testers</b>				
	Moth testers @ 10 man days per operation	MD	10	200	2,000
<b>C</b>	<b>Working capital</b>				
	Seed cocoons	No.	10,000	1.5	15,000
<b>D</b>	<b>Solar lantern</b>				
		Lumpsum	--	--	3,500
	<b>Sub-total</b>				20,500
	<b>TOTAL</b>				42,000

#### 4 Technical specifications/Norms

Joint Inspection Committee comprising members from CSB and State to inspect the existing private graineur for assistance.

Repairs of grainage building may involve addition of oviposition, moth examination and egg washing space.

Repair and service of equipment may include purchase of spares.

Provisions are indicative and may vary based on requirement in each case.

Assistance shall be extended to existing private graineurs who produce 5,000 dfls/operation.

Moth testers shall be empanelled under different States through structured training like Integrated Skill Development Scheme of CSB, service providers/community resource persons promoted under MoRD/ NABARD assisted projects.

**ASSISTANCE FOR STRENGTHENING OF TASAR  
SEED MULTIPLICATION INFRASTRUCTURE (TROPICAL TASAR)  
(Capacity- 25000 dfls Basic Seed)**

**VANYA SEED  
COMPONENT 2**

1	<b>Name of the sector</b>	Tropical Tasar - Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs.5,00,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	<b>Construction/ renovation of PPC building (including boundary wall)</b>	<b>Lumpsum</b>	--	--	<b>2,00,000</b>
<b>B</b>	<b>Grainage equipment</b>				
1	Microscope with light arrangement	No.	2	5,000	10,000
2	Egg laying cabinet	No.	2	6,500	13,000
3	Gator sprayer	No.	1	5,000	5,000
4	Electronic weighing balance (2 kg capacity)	No.	1	15,000	15,000
5	Humidifier	No.	1	8,000	8,000
6	Egg drying chamber	No.	1	6,000	6,000
7	Centrifuge (R8)	No.	1	22,000	22,000
8	Generator (5 KV)	No.	1	55,000	55,000
9	Mixer grinder	No.	1	3,000	3,000
	<b>Sub-total</b>				<b>1,37,000</b>
<b>C</b>	<b>Working capital &amp; consumables</b>				
1	Cost of seed cocoons	Lumpsum	--	--	1,00,000
2	Operational cost	Lumpsum	--	--	48,000
3	Consumables:				
	Glass ware	Lumpsum	--	--	5,000
	Chemicals	Lumpsum	--	--	5,000
	Plastic items	Lumpsum	--	--	5,000
	<b>Sub-total</b>				<b>1,63,000</b>
	<b>TOTAL</b>				<b>5,00,000</b>

**4 Technical specifications/Norms**

- PPC with a capacity to preserve 1.5 lakh cocoons and production of 25,000 basic dfls/ annum
- Assistance shall be extended on receipt of details of utilisation/impact of similar component availed during XI Plan. This includes the linkages established with the seed and commercial rearers for procurement of seed cocoons and disposal of dfls.
- Provisions are flexible and shall be decided by a Joint Technical Committee.
- Applicable only for basic seed production with proper linkages.
- The working capital of Rs.1.63 lakh shall be deposited in a Special Saving Account as non-erodable corpus.

## ESTABLISHMENT OF BASIC SEED PRODUCTION UNIT (BY SHGS/CO-OPERATIVES/NGOS)

(Preservation capacity - 1.5 lakh cocoons & 25000 dfls basic seed)

### VANYA SEED COMPONENT 2A

1 Name of the sector	Tropical Tasar - Seed
2 Continuation/innovative	Innovative
3 Unit cost	Rs.43,00,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A Construction of grainage building &amp; boundary wall</b>					
1	Compound wall	Lumpsum			2,00,000
2	Construction of grainage building (Ground Floor)	Sq.ft.	2,400	800	19,20,000
	Construction of grainage building (Verandah)	Running ft.	200	400	80,000
3	Construction of grainage building (First Floor)	Sq.ft.	1,350	700	9,45,000
4	Bore well digging, pipeline installation, Construction of septic tank, generator room etc.	Lumpsum	--	--	5,00,000
	<b>Sub-total</b>				<b>36,45,000</b>
<b>B Grainage equipment</b>					
1	Microscope with light arrangement	No.	10	5,000	50,000
2	Egg laying boxes	No.	15,000	3.50	52,500
3	Egg laying cabinet	No.	2	6,500	13,000
4	Moth testing table - wooden (5 ft x 1.5 ft.)	No.	5	4,000	20,000
5	Chair - wooden (with arms)	No.	10	1,000	10,000
6	Gator sprayer	No.	2	5,000	10,000
7	Plastic drum (60 ltr)	No.	4	1,000	4,000
8	Plastic bucket (20 ltr)	No.	10	200	2,000
9	Plastic tub (small-10 ltr)	No.	10	150	1,500
10	Plastic tub (big- 20 ltr)	No.	20	300	6,000
11	Mortar & pestle	No.	100	320	32,000
12	Measuring cylinder (plastic)	No.	2	300	600
13	Electronic weighing balance (2 kg capacity)	No.	1	15,000	15,000
14	Humidifier	No.	1	8,000	8,000
15	Egg drying chamber	No.	1	6,000	6,000
16	Centrifuge (R23)	No.	1	65,000	65,000
17	Generator (5 KVA)	No.	1	55,000	55,000
18	Disinfection mask	No.	7	400	2,800

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## ESTABLISHMENT OF BASIC SEED PRODUCTION UNIT (BY SHGS/CO-OPERATIVES/NGOS)

### VANYA SEED COMPONENT 2A

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
19	Galvanized Iron wire (2.5 mm)	Kg	5	150	750
20	Wet & Dry Thermometer	No.	3	400	1,200
21	Max.- Min. thermometer	No.	3	400	1,200
22	Almirah	No.	1	5,000	5,000
23	Office table	No.	1	3,000	3,000
	<b>Sub-total</b>				<b>3,64,550</b>
<b>C</b>	<b>Working Capital and Consumables</b>				
1	Seed cocoons	No.	1,50,000	1.60	2,40,000
2	Operational cost:				
	Engagement of moth tester	MD	40	200	8,000
	Engagement of skilled workers	MD	180	175	31,500
	Khus-khus mats	No.	20	250	5,000
3	Consumables:				
	Glass ware	Lumpsum			3,000
	Chemicals	Lumpsum			3,000
	<b>Sub-total</b>				<b>2,90,500</b>
	<b>TOTAL</b>			Round off:	<b>43,00,050</b> 43,00,000

#### 4 Technical specifications/Norms

Construction of grainage building: Ground floor - 2400 sq. ft @ Rs. 800 per sq.ft with around verandah and first floor - 1350 Sq. ft @ Rs.700 per sq.ft along with bore well, pipeline, septic tank, generator room etc. with moulded brick, mortar and RCC roof.

Land shall be contributed by the group or any donor on long term lease. Land along with building shall be the property of Community Based Organization.

Separate provision for oviposition, moth examination, egg washing, office room etc.

Provision for storage of water, drainage of water, vacant space etc.

Capacity to preserve 1.5 lakh seed cocoons and to produce 25,000 dfls/year

This scheme may be availed specially for projects dovetailed with assistance from MoRD, RKVY etc., with 25% share from CDP.

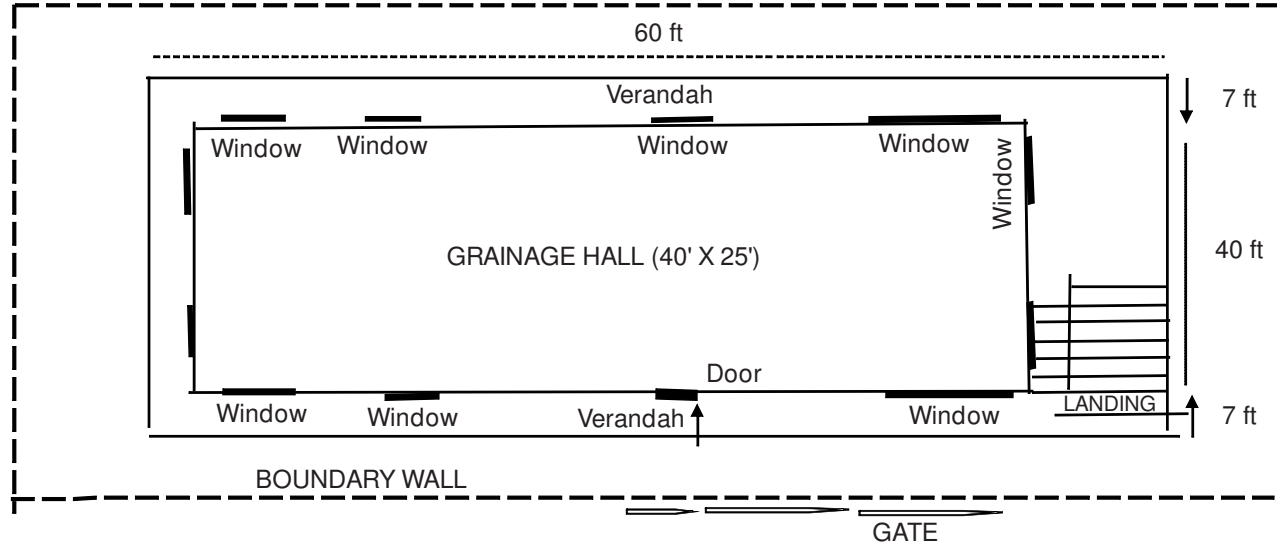


**ESTABLISHMENT OF BASIC SEED PRODUCTION UNIT  
(BY SHGS/CO-OPERATIVES/NGOS)**

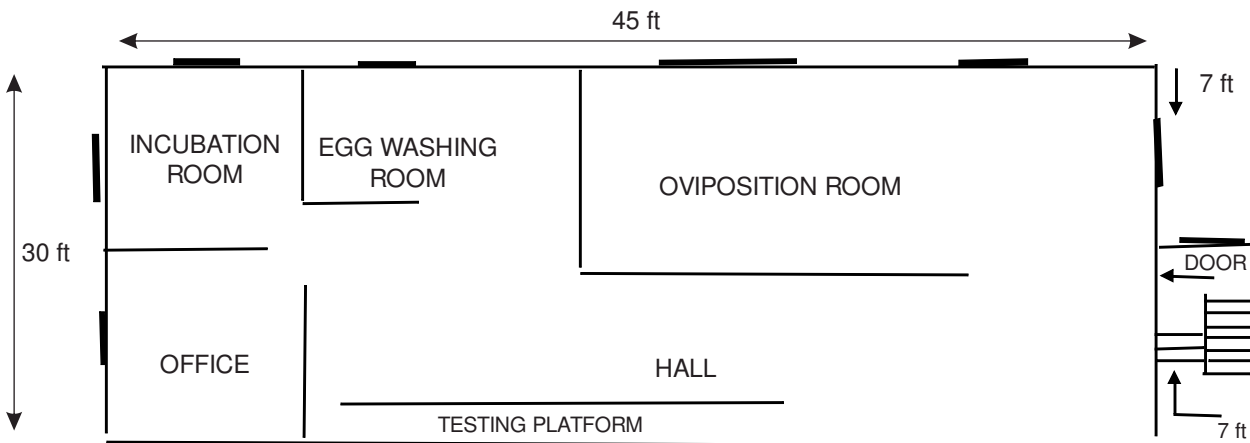
**VANYA SEED  
COMPONENT 2A**

**5. Plans / Designs**

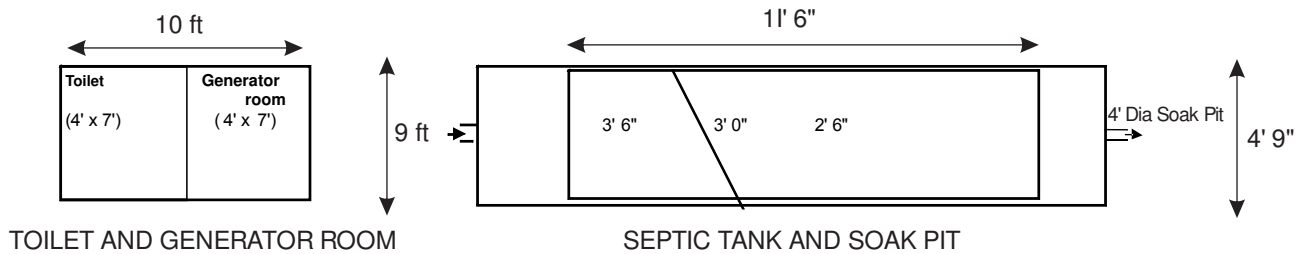
**a. Ground Floor**



**b. First Floor**



**On Ground Floor**



## ASSISTANCE FOR STRENGTHENING OF SEED MULTIPLICATION INFRASTRUCTURE (OAK TASAR)

### VANYA SEED COMPONENT 3

1	<b>Name of the sector</b>	Oak Tasar - Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs.15,00,000
4	<b>Zones</b>	North-East and North-West

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	<b>Grainage building</b> (40' x 25' x 10') with 5' all side verandah.	Sq.ft.	1,000	800	8,00,000
<b>B</b>	<b>Grainage equipment</b>				
1	Refrigerator (280 ltr)	No.	2	16,000	32,000
2	Iron pipe cocoon hanging stand (6.5' x 3.25' x 6.5')	No.	12	1,500	18,000
3	Nylon net ( 7' x 4' x 7')	No.	12	1,000	12,000
4	Plastic crate (transportation of seed cocoons)	No.	30	550	16,500
5	Gator sprayer	No.	2	5,000	10,000
6	Room heater (blower)	No.	4	2,200	8,800
7	Humidifier	No.	4	8,000	32,000
8	Flame gun with gas	No.	2	4,000	8,000
9	Gas heater with thermostat control (alternate energy source)	No.	2	6,000	12,000
10	Light microscope and light arrangement	No.	4	6,000	24,000
11	Mortar and estle	No.	20	400	8,000
12	Thermometer (Dry & Wet-2 No. and Min. & Max.-2 No.)	No.	4	400	1,600
13	Moth examination table (5' x 2.5')	No.	2	4,000	8,000
14	Air conditioner ( 1.5 T) in Oviposition/incubation room	No.	2	28,000	56,000
15	Working table - steel frame with wooden top (5' x 3')	No.	4	3,000	12,000
16	Laboratory revolving stool	No.	8	1,000	8,000
17	Wooden bench (5' x 1.5')	No.	5	1,000	5,000
18	Scissors	No.	5	100	500
19	Galvanized iron wire ( 2.5 mm)	Kg	5	150	750
20	Egg laying device	No.	4,000	5	20,000
21	Grainage mask	No.	10	500	5,000
22	Rubber gloves	No.	6	100	600
23	Centrifuge (R-23) with all accessories	No.	1	65,000	65,000
24	Mixer-grinder	No.	2	3,000	6,000
25	Loose egg washing tray	No.	1	15,000	15,000
26	Loose egg drying cabinet	No.	2	6,000	12,000
27	Plastic basin/ tub - 20 ltr	No.	4	200	800
28	Plastic bucket- 20 ltr	No.	4	300	1,200
29	Plastic drum -100 ltr	No.	2	1,200	2,400

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## ASSISTANCE FOR STRENGTHENING OF SEED MULTIPLICATION INFRASTRUCTURE (OAK TASAR)

### VANYA SEED COMPONENT 3

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
30	Plastic dust bins with lid	No.	4	200	800
31	Electronic weighing balance (1-2 kg capacity)	No.	1	15,000	15,000
32	Glassware-beaker, pippet, funnel, measuring cylinder etc.	Lumpsum	--	--	2,050
	<b>Sub Total</b>				<b>4,19,000</b>
<b>C</b>	<b>Working Capital and Consumables (chemicals)</b>				
1	Working capital for seed cocoons	No	1,50,000	1	1,50,000
2	Operation cost - (40 moth testers/year for 5 years)	Lumpsum	200	200	40,000
3	Chemicals: Formaldehyde, Sericlor, KOH, K2 Co3, Bleaching Powder, Lime, Bed disinfectants, soap & detergents etc.	Lumpsum	--	--	4,700
4	Glass slide	Pkt	30	80	2,400
5	Cover slip	Pkt	30	80	2,400
6	Muslin sloth	M	50	80	4,000
7	Egg box ( 50 dfls capacity)	No.	2,000	6	12,000
8	Blotting paper (No.)	No.	100	5	500
	<b>Sub Total</b>				<b>2,16,000</b>
<b>D</b>	<b>Alternate power arrangement</b>				
	Generator - 5 KVA with accessories	No.	1	65,000	65,000
	<b>Sub Total</b>				<b>65,000</b>
<b>E</b>	<b>Total</b>				<b>15,00,000</b>

#### 5 Technical specifications/Norms

- One grainage building (40' x 25') with all side verandah, with brick walls, concrete floor and roof with C.G.I. sheet/Zinc sheet rested on wooden frame and false ceiling.
- Facility for cocoon preservation, coupling, oviposition, moth examination and incubation,
- Facility for running water supply, electrical fittings, generator room, septic tank, etc.
- Facility for Fujiwara method of pebrine detection
- Capacity to preserve 1.5 lakh seed cocoons and to produce 30,000 dfls/year.

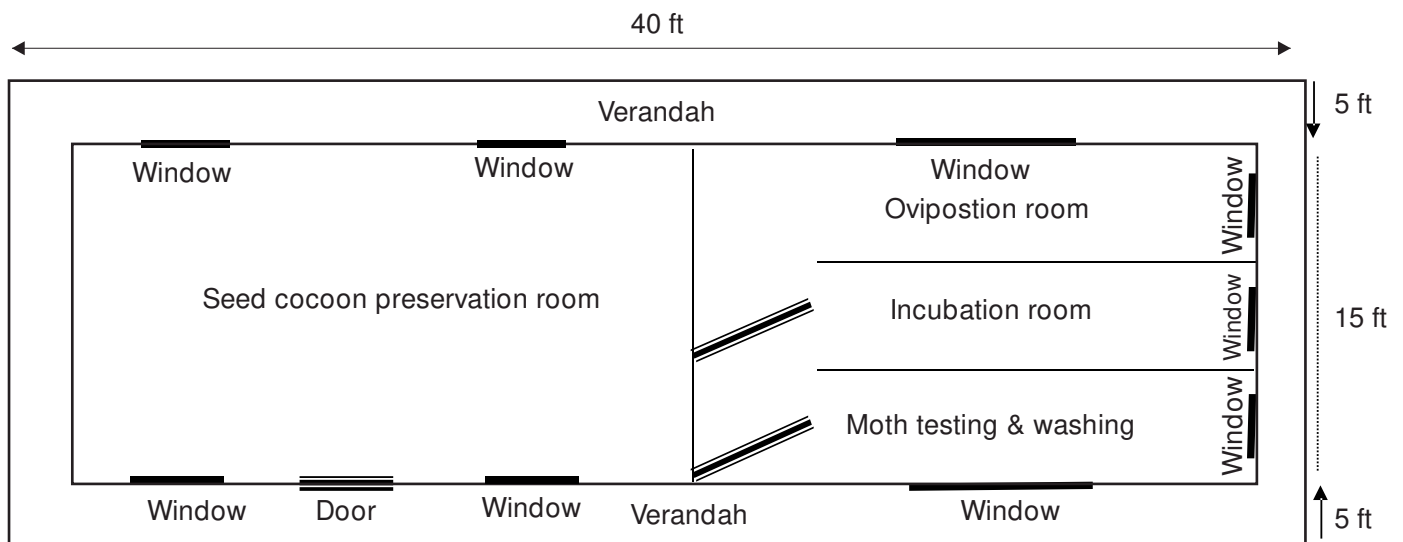
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## ASSISTANCE FOR STRENGTHENING OF SEED MULTIPLICATION INFRASTRUCTURE (OAK TASAR)

### VANYA SEED COMPONENT 3

#### 5 Plan / Design specifications

- Plinth Height : 2.5'
- Plinth : Brick, stone, cement
- Floor : Cement plastering
- Post/ Pillar : RCC
- Wall : Brick with cement: sand mortar
- Roof : C.G.I.Sheet, Zinc Sheet rested on wooden frame.
- False Ceiling : Wooden/Aluminium frame with asbestos
- Exhaust fan
- Separate generator room



Indicative Plan for Oak Tasar seed Multiplication Unit

Note: Rs. 800/- per sqr. ft is considered in view of high cost of construction

## ASSISTANCE FOR TROPICAL TASAR REARERS

### VANYA SEED COMPONENT 4

1	<b>Name of the sector</b>	Tropical Tasar- Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs. 20,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	<b>Rearing equipment</b>				
1	Secateur/looping shear	No.	2	500	1,000
2	Low volume sprayer (one for 10 rearers)	No.	1	500	500
3	Nylon net (40'x30'x10')	No.	1	4,000	4,000
4	Bamboo	No.	12	75	900
	<b>Sub-total</b>				<b>6,400</b>
<b>B</b>	<b>Maintenance of tasar host plants (0.7 ha.)</b>				
5	Cost of fertilizers - NPK mixture for 2100 plants @ 200 g/plant	kg	420	18	7,560
6	Cost of insecticides for foliar spray	Lumpsum			340
7	Leaf surface microbes & other bio-inputs	Lumpsum			100
8	Cultural operations	Lumpsum			2,000
	<b>Sub-total</b>				<b>10,000</b>
<b>C</b>	<b>Tasar silkworm rearing</b>				
9	Cost of tasar silkworm dfls*	No.	200	6	1,200
10	Slaked lime	kg	50	8	400
11	Bleaching powder	kg	5	35	175
12	Sodium hypochlorite	kg	0.5	150	75
13	Spraying of Sodium hypochlorite	Lumpsum	--	--	550
14	Jeevandhara	Lumpsum	--	--	100
15	Disinfectants - TKO etc.	Lumpsum	--	--	200
16	Application of disinfectants				900
	<b>Sub-total</b>				<b>3,600</b>
	<b>TOTAL</b>				<b>20,000</b>

\* Applicable to only seed rearers

#### 4 Technical specifications/Norms

Sprayer shall be provided for a group of 10 rearers and the provision shall be used for hiring the sprayer, when it is taken up as an individual activity.

Provisions for fertilizers, insecticides, Leaf Surface Microbes are made as per recommendations by CTR&TI, Ranchi

Provisions for improved technologies viz., Jeevan Dhara, TKO have been made.

Lumpsum provisions are made towards activities where manual labour is involved as the minimum wage differs from state to state.

Lumpsum provisions are made towards fertilizer cost as composition need to be decided based on soil quality and analysis.

Provisions are made for 0.7 ha. with brushing capacity of 200 dfls in view of more care required in case of seed rearing.

Provisions for bamboo, dfl cost and inter-cultural operations shall be the beneficiary share.

The benefit of the scheme is extended to commercial rearers with a brushing capacity of 400 dfls utilising 1 ha plantation.

## ASSISTANCE FOR OAK TASAR SEED REARERS

### VANYA SEED COMPONENT 4A

1	<b>Name of the sector</b>	Oak Tasar - Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs.19,000 and 17,500
4	<b>Zones</b>	North-West and North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-West (Rs.)	North-East (Rs.)
<b>A</b>	<b>Polythene tent/Tarpaulin and accessories (20' x 20')</b>	Lumpsum			2,000	2,200
1	Polyhouse NW/Nylon net for NE	No.	4	1,500	6,000	7,200
2	50% shaded plastic net	Mtr.	25	120	3,000	0
3	Bamboo poles and GI wire	Lumpsum			1,100	1,200
4	Erection of polyhouse/nylon nets	Lumpsum			400	400
	<b>Sub-total</b>				<b>12,500</b>	<b>11,000</b>
<b>B</b>	<b>Rearing equipment</b>					
1	Pruning secature	No.	1	250	250	250
2	Pruning saw	No.	2	250	0	500
3	Nylon net 3 mm size	Mtr.	25	30	750	0
4	Material for machan (North-West)	No.	1	500	500	0
5	GI box (4 'x 2.5' x 2.5')	No.	1	1,100	1,100	1,200
6	Rain coat	No.	1	500	500	600
7	Gum boots	No.	1	500	500	600
8	Torch/lantern	No.	1	500	500	600
9	Plastic tray	No.	3	450	1,350	1,500
10	Bamboo basket	No.	2	200	400	300
11	Plastic bucket, mug, basin etc.	Lumpsum	--	--	300	450
	<b>Sub-total</b>				<b>6,150</b>	<b>6,000</b>
<b>C</b>	<b>Consumables</b>					
	Chemicals/disinfectants	Lumpsum	--	--	350	500
	<b>Sub-total</b>				<b>350</b>	<b>500</b>
	<b>TOTAL ( A+ B+ C)</b>				<b>19,000</b>	<b>17,500</b>

#### 5 Technical specifications/Norms

- Rearing capacity : 200 dfls of 2g each/crop
- Poly house (4 No. 30' x 18' for each rearing house) for north-western zone. Polythene shall be of 90 GSM ultraviolet treated.
- Polythene/tarpaulin tent (20' x 20') for storage of equipment during rearing for North-Western zone.
- Nylon net for outdoor silkworm rearing (15' x 15' x 9' size) for North-East sector.
- Provision of polythene/tarpaulin sheds for living and storage of equipment during rearing in North-west.
- Cost of silkworm seed to be borne by the beneficiary.
- Cost of 12 Bamboo poles shall be of Rs. 80 each
- Chemicals/disinfectants: TKO/Sodium hypochlorite/bleaching powder.

## ASSISTANCE FOR MOBILE TESTING FACILITY FOR DISEASE MONITORING AND SEED COCOON TESTING

### VANYA SEED COMPONENT 4B

1	<b>Name of the sector</b>	Tropical Tasar - Seed
2	<b>Continuation/innovative</b>	Innovative
3	<b>Unit cost</b>	Rs. 610,000

#	Items/Particulars	Quantity	Rate (Rs.)	Amount (Rs.)
1	<b>Mobile pick-up van</b> (customised with laboratory tables, wash basin, water tank, generator etc)	1		4,00,000
2	<b>Testing equipment</b>			
	Centrifuge (R23) with accessories	1	65,000	65,000
	Binocular Microscope	2	20,000	40,000
	Chemicals	Lumpsum	--	15,000
	Glassware	Lumpsum	--	15,000
	Stationary etc.	Lumpsum	--	15,000
	<b>Sub-total</b>			<b>1,50,000</b>
3	<b>Moth tester @ 60 man days per year</b>	300 MD	200	60,000
	<b>Total</b>			<b>6,10,000</b>

#### 4 Technical specifications/Norms

- Pick-up van with four seated (customised) provided to each of tasar producing state and shall be under the control of BTSSO for effective maintenance and monitoring.
- BTSSO shall keep the fund towards engaging driver, fuel charges & maintenance and incidental charges for sustenance of the activity.
- Testing equipment with battery backup and lighting.
- Joint Monitoring Team comprise representatives from BTSSO, CTR&TI, DOS, NGO to inspect the assistance.
- Provision has been made for chemicals, glassware and consumables.

## ASSISTANCE TO STATE DEPARTMENTS FOR STRENGTHENING OF ERI FARM-CUM-GRAINAGES

## VANYA SEED COMPONENT 5

1	<b>Name of the sector</b>	Eri Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs. 12,48,000
4	<b>Zones</b>	Applicable to all zones

#	Items/Particulars	Unit	Quantity	Rate/Unit (Rs.)	Total (Rs.)
<b>A</b>	<b>Raising &amp; maintenance of perennial plantation</b>	acre	4	31,000	1,24,000
1	One Rearing & Grainage Building of (28' x 22') size with all side 6' Varandah and facility for oviposition, moth examination, running water supply, electricity fittings, generator room etc.	Sq.ft.	616	700	4,31,200
<b>B</b>	<b>Grainage equipment</b>				
1	Refrigerator (280 ltr)	No.	1	16,000	16,000
2	Steel racks (6.5' x 3.25' x 6.5') 6 tier	No.	8	4,000	32,000
3	Nylon net ( 7' x 4' x 7')	No.	8	1,000	8,000
4	Cocoon preservation tray (Plastic)	No.	100	450	45,000
5	Plastic crate for seed cocoon transportation	No.	30	550	16,500
6	Foot sprayer	No.	2	4,500	9,000
7	Room heater (Blower)	No.	2	2,200	4,400
8	Humidifier	No.	2	8,000	16,000
9	Pedestal fan	No.	2	2,500	5,000
10	Light microscope with high quality lenses and light arrangement	No.	5	6,000	30,000
11	Mortar & Pestle	No.	20	400	8000
12	Centrifuge R-23 with accessories	No.	1	65,000	65,000
13	Mixer-grinder	No.	2	3,000	6,000
14	Wet & dry Thermometer	No.	2	400	800
15	Min & Max - Thermometer	No.	2	400	800
16	Air conditioner (1.5 T) in Oviposition/incubation room	No.	2	28,000	56,000
17	Moth examination wooden Table (5' x 2.5')	No.	2	4,000	8,000
18	Working table - steel frame with wooden top (5' x 3')	No.	5	3,000	15,000
19	Wooden stool	No.	10	250	2,500
20	Wooden bench (5' x 1.5')	No.	4	1,000	4,000
21	Scissors	No.	5	80	400
22	Ant Well	No.	40	50	2,000
23	Galvanized Wire ( 2.5 mm)	Kg	10	150	1,500

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**ASSISTANCE TO STATE DEPARTMENTS FOR  
STRENGTHENING OF ERI FARM-CUM-GRAINAGES**

**VANYA SEED  
COMPONENT 5**

#	Items/Particulars	Unit	Quantity	Rate/Unit (Rs.)	Total (Rs.)
24	Egg laying device	Nos.	10,000	5	50,000
25	Grainage mask	No.	6	500	3,000
26	Plastic basin/ Tub - 20 ltr	No.	4	300	1,200
27	Plastic bucket- 20 ltr	No.	4	200	800
28	Plastic drum (100 ltr)	No.	2	1,200	2,400
29	Plastic dustbin with lid	No.	4	200	800
30	Electronic balance (1-2 kg capacity)	No.	1	15,000	15,000
31	Beaker - 100 ml, 250 ml, 500 ml, 1000 ml	Lumpsum			1,500
32	Pipette	No.	5	200	1,000
33	Absorbent cotton roll	No.	5	200	1,000
34	Measuring cylinder etc.	No.	5	200	1,000
35	Rubber gloves	No.	6	100	600
36	Miscellaneous				2,200
	<b>Cost of grainage equipment</b>				<b>4,32,400</b>
<b>C</b>	<b>Revolving capital for seed cocoons</b>		<b>4,00,000</b>	<b>0.4</b>	<b>1,60,000</b>
<b>D</b>	<b>Consumables</b>				
1	Formaldehyde	l	10	100	1,000
2	K <sub>2</sub> CO <sub>3</sub>	Kg	1	1,000	1,000
3	Bleaching powder	Kg	40	30	1,200
4	Soap & Detergent	Lumpsum			500
5	Lime	Lumpsum			500
6	Bed disinfectants	Lumpsum			2,000
7	Glass slide	Pkt	15	80	1,200
8	Cover Slip	Pkt	15	80	1,200
9	Muslin Cloth	M	30	80	2,400
10	Egg carrying box	No.	4,000	6	24,000
11	Blotting paper	No.	50	5	250
12	Miscellaneous	Lumpsum			150
	<b>Cost of Consumables</b>				<b>35,400</b>
<b>E</b>	Portable generator 5 KVA with accessories	No.	1	65,000	65,000
	<b>Total</b>				<b>12,48,000</b>

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## ASSISTANCE TO STATE DEPARTMENTS FOR STRENGTHENING OF ERI FARM-CUM-GRAINAGES

### VANYA SEED COMPONENT 5

#### 5 Technical specifications/Norms

Capacity : 25000 dfls/operation (four times/year), Annual capacity: 1,00,000 dfls/year.

1 No. Rearing and Grainage Building (28' x 22') with 6' all side verandah.

Facility for rearing, cocoon preservation, coupling, oviposition, moth examination, incubation.

Facility for running water supply, electrical fittings, generator room, etc.

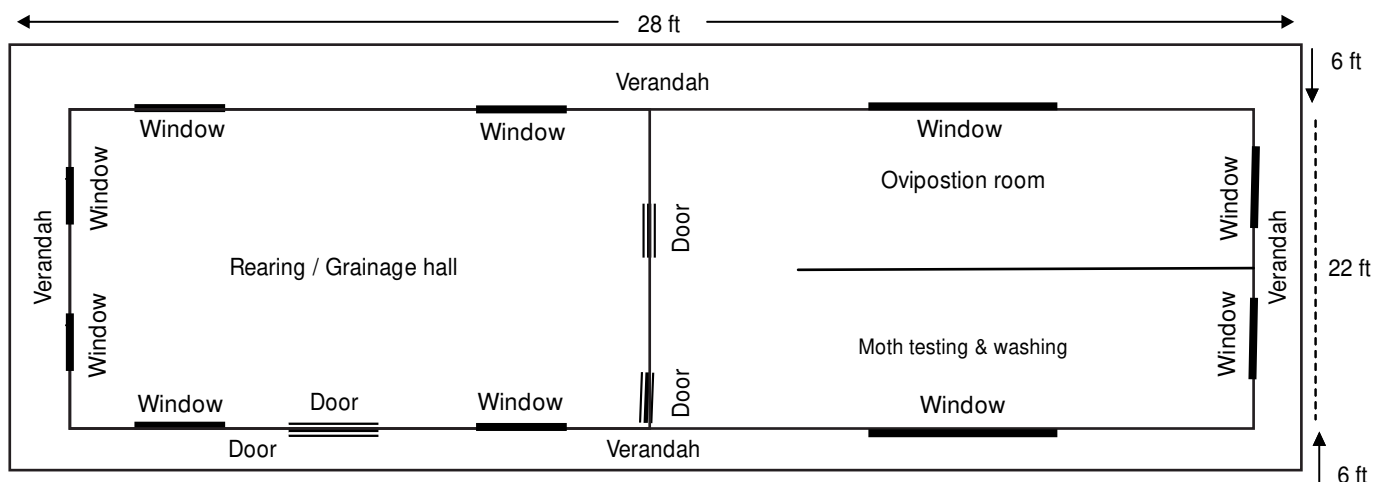
Facility for Fujiwara method of pebrine detection/microscopic examination.

Capacity to preserve 1.0 lakh seed cocoons to produce 25,000 dfls/cycle.

Revolving Capital for seed cocoons is one time assistance.

#### 6 Plan / Design specifications

- Plinth Height : 2.5'
- Plinth : Brick, stones, cement
- Floor : Cement plastering
- Post/ Pillar : RCC
- Wall : Brick with cement: sand: mortar
- Roof : C.G.I. sheet, zinc sheet rested on wooden frame.
- False Ceiling : Wooden/Aluminium frame with asbestos
- Exhaust fan
- Separate generator room



**Indicative plan for Eri farm-cum-grainage**

## ASSISTANCE TO ERI PRIVATE GRAINEURS

### VANYA SEED COMPONENT 5A

1 <b>Name of the sector</b>	Eri Seed
2 <b>Continuation/innovative</b>	Innovative
3 <b>Unit cost</b>	Rs. 2.33 lakh (Outside NE) and 2.40 lakh (NE)
4 <b>Zones</b>	Applicable to all zones

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Outside NE (Rs.)	North-East (Rs.)
<b>A</b>	<b>Grainage building of 30' x12' size with 5' verandah</b>	Lumpsum			<b>1,20,000</b>	<b>1,25,000</b>
<b>B</b>	<b>Grainage equipment</b>					
1	Steel rack ( 6.5' x 3.25' x 6.5' ) 6 tier	No.	4	4,000	16,000	16,000
2	Nylon net ( 7' x 4' x 7' )	No.	4	1,000	4,000	4,000
3	Cocoon preservation tray ( Bamboo)	No.	50	70	3,500	3,500
4	Plastic crate for cocoon transportation	No.	10	550	5,500	5,500
5	Foot sprayer	No.	1	4,500	4,500	4,500
6	Light microscope with high quality lenses & light arrangement	No.	2	6,000	12,000	12,000
7	Mortar & pestle	No.	5	400	2,000	2,000
8	Wet & dry thermometer	No.	1	400	400	400
9	Moth examination Table - ( 5' x 2' ) / concrete slab	No.	1	2,000	2,000	2,000
10	Centrifuge (R-8) including all accessories	No.	1	22,000	22,000	22,000
11	Wooden stool	No.	2	250	500	500
12	Wooden bench (5' x 1.5')	No.	1	1,000	1000	1,000
13	Egg laying device	No.	2,000	5	10,000	10,000
14	Grainage mask	No.	2	500	1,000	1,000
15	Rubber gloves	No.	2	100	200	200
16	Plastic basin/ Tub - 20 ltr	No.	4	300	1,200	1,200
17	Plastic bucket - 20 ltr.	No.	4	200	800	800
18	Big plastic drum for water storage -100 ltr	No.	2	1,200	2,400	2,400
19	Weighing balance (1 kg)	No.	1	2,000	2,000	2,000
20	Glassware - beaker, pippete, measuring cylinder, funnel, wash bottle etc.	Lumpsum			1,720	1,720
	<b>Sub-total</b>				<b>92,720</b>	<b>92,720</b>
<b>C</b>	<b>Consumables</b>					
1	Formaldehyde, KOH, K <sub>2</sub> CO <sub>3</sub> , Bleaching Powder	Lumpsum			600	600
2	Lime	Kg	25	4	100	100
3	Soaps & detergent powder	Lumpsum			150	150
4	Glass slide	Pkt	8	80	640	640
5	Cover slip	Pkt	8	80	640	640

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## ASSISTANCE TO ERI PRIVATE GRAINEURS

### VANYA SEED COMPONENT 5A

#	Items/Particulars	Unit	Quantity	Rate (Rs)	Outside NE (Rs)	North East (Rs)
6	Muslin cloth	M	5	80	400	400
7	Egg box ( 50 dfls capacity)	No.	100	6	600	600
8	Blotting paper (No.)	No.	20	5	100	100
	<b>Sub-total</b>				<b>3,230</b>	<b>3,230</b>
<b>D</b>	<b>Working capital for seed cocoons</b>		20,000	0.4	8,000	8,000
<b>E</b>	<b>Electrical fittings</b>					
1	Solar lantern	No	1	4,000	4,000	4,000
2	Ceiling fan		1	1,200	1,200	1,200
3	Tube light with all accessories		2	550	1,100	1,100
	<b>Sub-total</b>				<b>6,300</b>	<b>6,300</b>
<b>F</b>	<b>Insurance of equipment and maintenance</b>	Lumpsum			<b>2,750</b>	<b>4,750</b>
	<b>Total</b>				<b>2,33,000</b>	<b>2,40,000</b>

### 5 Technical specifications/Norms

Capacity - to produce 5000 dfls/cycle and 20000 dfls/ year, seed cocoon: dfls ratio- 4:.

Grainage building of 30' x 12' with two sides 5 'verandah. Walls built of local brick and mortar and cemented floor. Roof with thatched or zinc sheet material supported with false ceiling to maintain hygiene and disinfection.

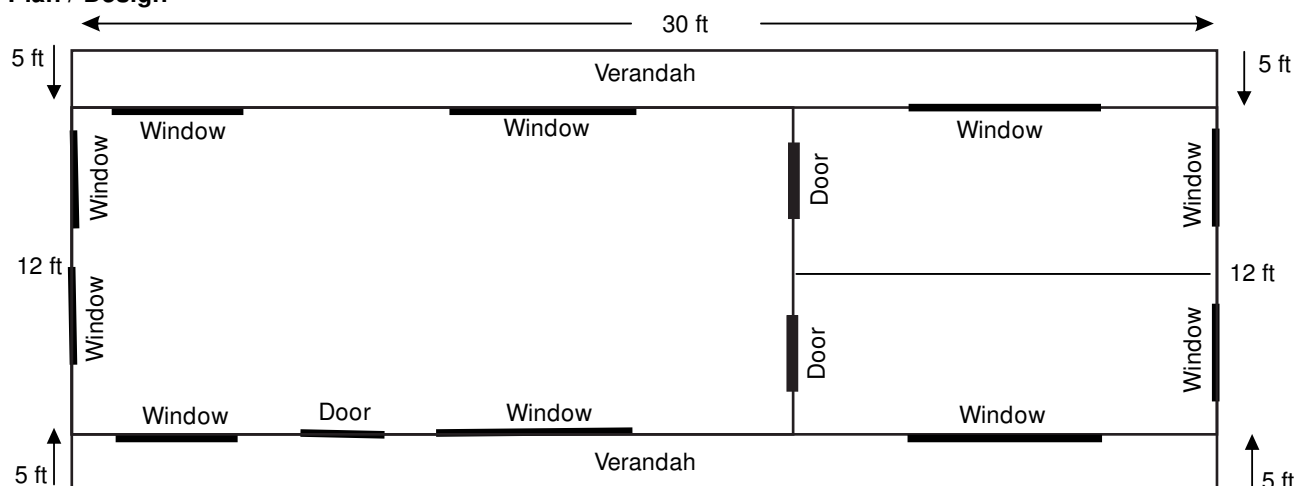
Building with a minimum of three compartments - for cocoon preservation, oviposition and microscopic examination with provision for egg washing and incubation.

Equipment facilities for microscopic examination for disease free seed production.

Working capital for purchase of seed cocoons from seed rearers.

Provision for solar lantern ( subsidized) and insurance - one time.

### 6 Plan / Design



Indicative plan for Eri private grainage

## ASSISTANCE TO ERI ADOPTED SEED REARERS

### VANYA SEED COMPONENT 5B

1	<b>Name of the sector</b>	Eri - Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs. 16,000
4	<b>Zones</b>	Applicable to all zones

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)	Other States (Rs.)
<b>A Inputs for plantation maintenance</b>						
1	Cost of FYM @ 3 kg/ plant/year	Kg	1,350	0.8	1,080	2,250
2	Urea	Kg	110	8	880	624
3	SSP	Kg	190	7	1,330	700
4	MOP	Kg	20	8	160	104
5	Application of FYM & fertilizers	No	450	1	450	450
6	Basin formation, hoeing and weeding ( twice/year)	No	450	1.5	675	0
	<b>Sub-total</b>				<b>4,575</b>	<b>4,128</b>
<b>B Start-up tools</b>						
1	Rearing platform (bamboo or steel frame)	No.	2	1,250	2,500	2,600
2	Plastic Rearing Tray	No.	4	450	1,800	1,800
3	Hooks and G.I. Wire	Lumpsum			500	0
4	Shaded net for self rearing support for other states	M	8	120	0	960
5	Plastic Mountage/Chandrike	No.	40	70	2,800	2,800
6	Leaf Preservation Chamber	Lumpsum	-	-	500	500
7	Plastic Basket/Basin	Lumpsum	-	-	200	200
8	Knapsack Sprayer for disinfection	No.	1	2,500	2,500	2,500
9	Chemical, bleaching powder & disinfectants	Lumpsum	-	-	625	512
	<b>Sub-total</b>				<b>11,425</b>	<b>11,872</b>
	<b>TOTAL</b>				<b>16,000</b>	<b>16,000</b>

### 5 Technical specifications/Norms

450 perennial plants/ 4000 castor/ tapioca plants / acre ; Capacity - upto 50 dfls/crop.

Input support for maintenance of perennial plants in North-East and castor/tapioca in non-traditional states. Plantation size -1.0 acre.

Plastic rearing trays (3' x 2') are for incubation, brushing, black boxing and chawki rearing.

Provision for hooks and G.I. Wire for adult stage bunch rearing in North-Eastern states.

Provision for shelf rearing for adult stage bunch rearing in non- traditional states outside North-East.

Support for disinfection and bed disinfectants to minimize disease incidence and improve productivity.

## UPGRADATION OF STATE ERI BASIC SEED FARM-CUM-GRAINAGES

## VANYA SEED COMPONENT 5C

1	Name of the sector	: Eri - Seed
2	Continuation/innovative	: Innovative
3	Unit cost	: Rs. 12,38,000
4	Zone	: North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>A Fixed cost</b>					
1	Raising & maintenance of plantation	acre	4	31,000	1,24,000
2	Renovation of two rearing houses and one grainage hall	Lumpsum	--	--	6,00,000
	<b>Sub-total</b>				<b>7,24,000</b>
<b>B Rearing equipment</b>					
1	Steel rearing rack (6.5' x 3.25' x 6.5') - 6 tier	No.	14	4,000	56,000
2	Ant well	No.	32	50	1,600
3	Plastic tray	No.	160	450	72,000
4	Leaf preservation chamber	No.	2	2,500	5,000
5	Plastic mountage	No.	160	70	11,200
6	Plastic basin/bucket	Lumpsum	--	--	250
7	Plastic dustbin with lid	No.	2	200	400
	<b>Sub-total</b>				<b>1,46,450</b>
<b>C Grainage equipment</b>					
1	Refrigerator (280 ltr)	No.	1	16,000	16,000
2	Steel grainage rack (6.5' x 3.25' x 6.5') - 6 tier	No.	8	4,000	32,000
3	Nylon net (7' x 4' x 7')	No.	8	1,000	8,000
4	Light microscope with high quality lens & light arrangement	No.	2	6,000	12,000
5	Room heater (blower)	No.	2	2,200	4,400
6	Automatic weather system	Set	1	50,000	50,000
7	Humidifier	No.	2	8,000	16,000
8	Foot sprayer	No.	1	4,500	4,500
9	Pedestal fan	No.	2	2,000	4,000
10	Ant well	No.	32	50	1,600
11	Plastic crates for seed cocoon transportation	No.	30	550	16,500
12	Working table - steel frame with wooden top (5' x 3')	No.	2	3,000	6,000
13	Wooden stool	No.	5	250	1,250
14	Bucket - 20 ltr	No.	4	200	800

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## UPGRADATION OF STATE ERI BASIC SEED FARM-CUM-GRAINAGES

### VANYA SEED COMPONENT 5C

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Amount (Rs)
15	Plastic basin-20 ltr	No.	4	300	1200
16	Scissors	No.	5	80	400
17	Plastic dustbin with lid	No.	5	200	1,000
18	Mortar & pestle	No.	20	400	8,000
19	Centrifuge with accessories (Remi-28)	No.	1	65,000	65,000
20	Glassware	Lumpsum	--	--	2,500
21	Electronic balance (1- 2 kg. capacity)	No.	1	15,000	15,000
	<b>Sub-total</b>				<b>2,66,150</b>
<b>D</b>	<b>Consumables</b>				
1	Formaldehyde	ltr.	10	100	1,000
2	K <sub>2</sub> CO <sub>3</sub> / KOH	Kg	1	1,000	1,000
3	Bleaching powder	Kg	40	30	1,200
4	Soap & detergents	Lumpsum	--	--	500
5	Lime	Lumpsum	--	--	500
6	Bed disinfectants	Lumpsum	--	--	2,000
7	Glass slide	Pkt	15	80	1,200
8	Cover slip	Pkt	15	80	1,200
9	Muslin cloth	M	30	80	2,400
10	Egg carrying box	No.	4,000	6	24,000
11	Blotting paper	No.	50	5	250
12	Miscellaneous	Lumpsum	--	--	1,150
	<b>Sub-total</b>				<b>36,400</b>
<b>E</b>	<b>Portable generator 5 KVA with accessories</b>	No.	1	65,000	65,000
	<b>TOTAL</b>				<b>12,38,000</b>

### 5 Technical specifications/Norms

Capacity to rear 200 P2 dfls/crop and 800 dfls/year.

Capacity to produce 8000 P1dfls/crop and 32000 dfls annually.

Renovation of 2 existing rearing houses each with 100 dfls rearing capacity.

Renovation of one existing grainage house to process 40000 seed cocoons/cycle and produce 8000 basic (P1) dfls and shall include provision for water supply, generater room, septic tank and electrical fittings.

Provision for rearing equipment for 200 P2 dfls/cycle

Applicable to existing State Eri farm-Grainages for upgradation to Eri Basic Seed (P2) Farm-cum-Grainage.

Facility to cater to the requirement of P-1 dfls of State farm-cum-grainages and seed rearers linked to private graineurs.

State can avail support for all or any of the sub-components as per need.

Automatic weather system for basic seed units only for recording climatic conditions.

## ASSISTANCE FOR ESTABLISHMENT OF SELF HELP ERI GRAINAGE UNITS

## VANYA SEED COMPONENT 5D

1	<b>Name of the sector</b>	Eri-Seed
2	<b>Continuation/innovative</b>	Innovative
3	<b>Unit cost</b>	Rs. 8,400
4	<b>Zone</b>	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>A</b>	Group formation, capacity building & group meeting expenses for one year	No.	1	3,500	3,500
<b>B</b>	Working capital for cost of seed cocoon (for one year)	No.	5,000	0.4	2,000
<b>C</b>	<b>Equipment for seed production and oviposition device</b>				
1	Bamboo grainage stand	No.	1	300	300
2	Bamboo cocoon preservation tray	No.	10	70	700
3	Egg laying device	No.	200	5	1,000
4	Plastic basin/Tub - big	No.	2	100	200
5	Plastic bucket - big	No.	2	100	200
<b>D</b>	Consumables	Lumpsum	--	--	500
	<b>Total</b>				<b>8,400</b>

### 5 Technical specifications/Norms

- Capacity to produce 1000 dfls/crop and 4000 dfls/annum to meet the requirement of the group members.
- Group of 20 eri rearers to form a SHG as per norms to produce commercial seed to cater their requirement.
- Self Help Eri Grainages units to be supported by State farm-cum-grainages/CBOs/NGOs for organisation, P1 seed supply and moth examination for disease monitoring.
- Provision to support SHEG for procurement of seed cocoon and grainage equipments.
- Provision to support group formation and capacity building.
- SHEG to avail specific training for eri seed production under Beneficiary Empowerment Program.



## MOBILE TESTING AND CERTIFICATION UNITS

### VANYA SEED COMPONENT 5E

1	<b>Name of the sector</b>	Vanya-Seed (Muga & Eri)
2	<b>Continuation/innovative</b>	Innovative
3	<b>Unit cost</b>	Rs. 6,70,000
4	<b>Zone</b>	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>A</b>	<b>Fixed cost</b>				
	Mobile van (customised with laboratory tables, wash basin, water tank)	No.	1		4,00,000
<b>B</b>	<b>Testing equipment, chemicals and appliances</b>				
1	Centrifuge (Remi-R-23 model) with all accessories	No.	1	65,000	65,000
2	Mixer - Grinder and additional cups	Set	2	3,000	6,000
3	Binocular Microscope	No.	2	20,000	40,000
4	Chemicals	Lumpsum	--	--	15,000
5	Glassware	Lumpsum	--	--	15,000
6	Stationary	Lumpsum	--	--	15,000
7	Miscellaneous	Lumpsum	--	--	5,000
	<b>Sub-total</b>				<b>1,61,000</b>
<b>C</b>	Moth testers (80 days /year)	No.	400	200	80,000
<b>D</b>	Portable generator (1KVA) and accessories electrical cables etc.	No.	1	29,000	29,000
	<b>Total</b>				<b>6,70,000</b>

### 5 Technical specifications/Norms

Initiative for disease monitoring in seed crops & government/private grainages using Fujiwara method of Testing.

Pick-up van with four seater (customised) provided to MSSO units/DOS/CBOs for effective maintenance and disease monitoring.

Fuel charges, maintenance and incidental charges (engaging driver) will be borne by Seed Organization component of MSSO/ESSO.

Testing equipments are in line with Basic Seed Production Units (BSPU).

Joint Monitoring Team comprise representatives from MSSO, CMERTI, DOSs, NGO to inspect the assistance.

Provision for chemicals, glasswares, consumables and moth testers for 5 years. Moth testers will be trained at MSSO units under BEP.

## ASSISTANCE TO MUGA PRIVATE GRAINEURS

### VANYA SEED COMPONENT 6

1	<b>Name of the sector</b>	Muga-Seed
2	<b>Continuation/innovative</b>	Innovative
3	<b>Unit cost</b>	Rs. 2,55,000
4	<b>Zones</b>	North-East and other adjoining areas

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
<b>A</b>	Grainage building of 30' x 12' size with 5' verandah	Lumpsum			1,25,000
<b>B</b>	<b>Grainage equipment</b>				
1	Steel racks (6.5' x 3.25' x6.5') 6 tier	No.	4	4,000	16,000
2	Nylon nets (7' x 4' x 7')	No.	4	1,000	4,000
3	Cocoon preservation trays (Bamboo)	No.	50	70	3,500
4	Plastic crate for cocoon transportation	No.	10	550	5,500
5	Foot sprayer	No.	1	4,500	4,500
6	Light microscope with high quality lenses & light arrangement	No.	2	6,000	12,000
7	Mortar and pestle	No.	5	400	2,000
8	Thermometer wet and dry	No.	1	400	400
9	Moth examination table - 5' x 2.5'/concrete slab	No.	1	1,500	1,500
10	Centrifuge (R-8C with 16 ml and 32 ml head) including all accessories	No.	1	22,000	22,000
11	Wooden stool	No.	10	250	2,500
12	Wooden bench (5' x 1.5')	No.	4	1,000	4,000
13	Egg laying device	No.	2000	5	10,000
14	Grainage mask	No.	2	500	1,000
15	Ruber gloves	No.	2	100	200
16	Plastic basin/Tub - 20 ltr	No.	4	300	1200
17	Plastic bucket - 20 ltr	No.	4	200	800
18	Plastic drum (100 ltr)	No.	2	1,200	2400
19	Weighing balance (1 kg)	No.	1	2,000	2000
20	Glassware - beaker, pippete, measuring cylinder, funnel, wash bottle etc.	Lumpsum	--	--	1200
	<b>Sub-total</b>				<b>96,700</b>
<b>C</b>	<b>Consumables</b>				
1	Formaldehyde, KOH, K <sub>2</sub> CO <sub>3</sub> , Bleaching Powder	Lumpsum	--	--	700
2	Lime	kg	25	4	100
3	Soaps & detergent powder	Lumpsum	--	--	150
4	Glass slide	Pkt	8	80	640

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## ASSISTANCE TO MUGA PRIVATE GRAINEURS

### VANYA SEED COMPONENT 6

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
5	Cover slip	Pkt	8	80	640
6	Muslin cloth	M	5	80	400
7	Egg box (50 dfls capacity)	No.	100	6	600
8	Blotting paper (No.)	No.	20	5	100
	<b>Sub-total</b>				<b>3,330</b>
<b>D</b>	<b>Working capital for seed cocoons</b>		20,000	1	20,000
<b>E</b>	<b>Electrical fitting</b>				
	Solar lantern	No.	1	4,000	4,000
	Ceiling fan		1	1,300	1,300
	Tube light with fittings		2	600	1,200
	<b>Sub-total</b>				<b>6,500</b>
<b>F</b>	<b>Insurance of equipments and maintenance</b>	Lumpsum	--	--	3,470
<b>G</b>	<b>TOTAL</b>				<b>2,55,000</b>

VANYA

### 5 Technical specifications/Norms

Capacity - to produce 5000 dfls/cycle and 10000 dfls/year.

Grainage building of 30' x 12' with 5' two side verandah. Walls built of local brick and mortar and cemented floor. Roof with thatched or zinc sheet material supported with false ceiling to maintain hygiene and disinfection.

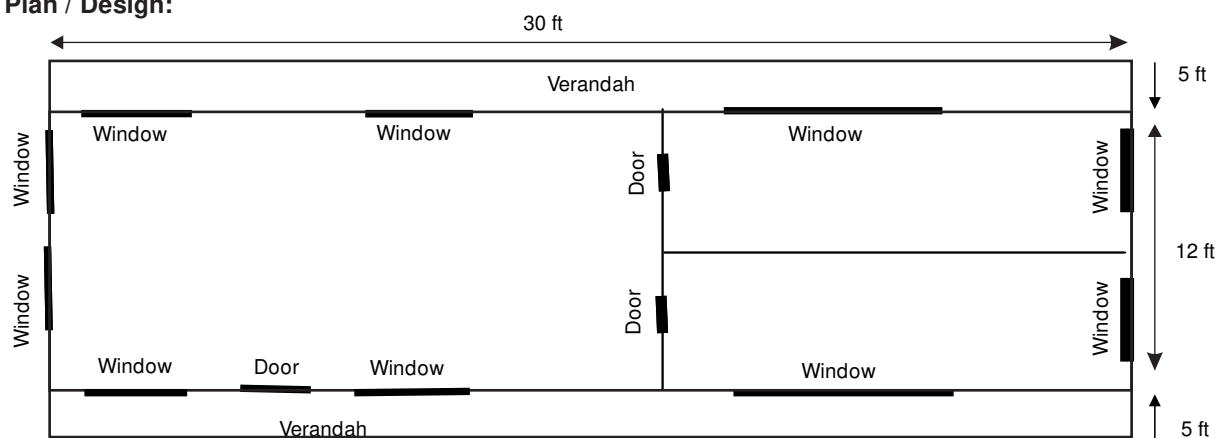
Building with a minimum of three compartments - for cocoon preservation, oviposition and microscopic examination with provision for egg washing and incubation.

Equipment facilities for microscopic examination for disease free seed production.

Working capital for purchase of seed cocoons from seed rearers.

Provision for solar lantern (subsidized) and insurance - one time.

### 6 Plan / Design:



Indicative plan for Muga private grainage

## ASSISTANCE TO EXISTING MUGA PRIVATE GRAINEUR FOR UPGRADATION OF SEED PRODUCTION CAPACITY

## VANYA SEED COMPONENT 6A

1 <b>Name of the sector</b>	Muga-Seed
2 <b>Continuation/innovative</b>	Innovative
3 <b>Unit cost</b>	Rs. 82,000
4 <b>Zone</b>	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
<b>A</b>	<b>Fixed cost</b>				
1	Repair of grainage building	No.	1	15,000	15,000
<b>B</b>	<b>Equipment for Fujiwara method Testing</b>				
1	Centrifuge (Remi-R8C mode ) with accessories	No.	1	22,000	22,000
2	Mixer - grinder	No.	1	3,000	3,000
3	Single pan balance	No.	1	1,000	1,000
4	Plastic crate for seed cocoon transportation	No.	8	550	4,400
5	Foot sprayer for disinfection	No.	1	4,500	4,500
6	Egg laying device	No.	2,000	5	10,000
7	Mortar & Pestle	No.	5	400	2,000
8	Repair & service of equipment like microscope, iron stand etc.	Lumpsum	--	--	2,000
	<b>Sub-total</b>				<b>48,900</b>
<b>C</b>	<b>Working capital for seed cocoons</b>		10,000	1	10,000
<b>D</b>	<b>Consumables</b>				
1	Egg carrying box	No.	200	6	1,200
2	Glass slide	Pkt	5	80	400
3	Cover slip	Pkt	5	80	400
4	Glassware - beakers, funnel, pipette, measuring cylinder, wash bottle etc.	Lumpsum	--	--	1,200
5	Disinfectants & chemicals	Lumpsum	--	--	900
	<b>Sub-total</b>				<b>4,100</b>
<b>E</b>	<b>Solar lantern (subsidized cost share)</b>	Lumpsum	--	--	4,000
	<b>TOTAL</b>				<b>82,000</b>

### 5 Technical specifications/Norms

Applicable only to those who are consistently involved in production of muga commercial seed.

Joint committee (CSB & State) shall inspect and recommend the specific requirement.

Renovation of existing building along with arrangement for running water supply.

Equipment facilities for seed cocoon preservation & microscopic examination of disease. Fujiwara method of disease monitoring is mandatory.

One time assistance for working capital for purchase of seed cocoons from seed rearers.

## ASSISTANCE TO STATE DEPARTMENTS FOR STRENGTHENING OF MUGA SEED MULTIPLICATION INFRASTRUCTURE (P2)

## VANYA SEED COMPONENT 7

1	<b>Name of the sector</b>	Muga-Seed
2	<b>Continuation/innovative</b>	Continuation
3	<b>Unit cost</b>	Rs. 30,99,000
4	<b>Zones</b>	North-East and North-West zones

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
<b>A</b>	Raising & Maintenance of Perennial Plantation	Acre	4	31,000	1,24,000
<b>B</b>	Construction/Upgradation of Two Grainage Buildings of (38' x 32') size with all side 6' Verandah and facility for cocoon preservation, oviposition, moth examination, running water supply, electricity fittings, generator room etc.	Sq.ft.	2,432	700	17,02,400
	Two Cocoon Mounting Hall (30' x 16') with two side verandah	Sq.ft.	960	600	5,76,000
<b>C</b>	<b>Grainage Equipment</b>				
1	Refrigerator (280 ltr)	No.	1	16,000	16,000
2	Steel racks (6.5' x 3.25' x 6.5') 6 tier	No.	8	4,000	32,000
3	Nylon Net ( 7 x 4' x 7)	No.	8	1,000	8,000
4	Cocoon Preservation tray (Plastic)	No.	100	450	45,000
5	Plastic Crate	No.	20	550	11,000
6	Foot Sprayer	No.	2	4,500	9,000
7	Room Heater (Blower)	No.	2	2,200	4,400
8	Humidifier	No.	2	8,000	16,000
9	Pedestal fan	No.	2	2,500	5,000
10	Light Microscope with high quality lenses & light arrangement	No.	5	6,000	30,000
11	Mortar & Pestle	No.	20	400	8,000
12	Centrifuge (Model Remi R-23 with all accessories)	No.	1	65,000	65,000
13	Mixer-cum-grinder	No.	2	3,000	6,000
14	Wet & Dry Thermometer	No.	2	400	800
15	Min & Max. Thermometer	No.	2	400	800
16	Air Conditioner (1.5 T) in oviposition/ incubation room	No.	2	28,000	56,000
17	Moth Examination Table - (5' x 2.5')	No.	2	4,000	8,000
18	Working table - Steel frame with wooden top	No.	5	3,000	15,000
19	Wooden Stool	No.	10	250	2,500
20	Wooden Bench (5' x 1.5')	No.	4	1,000	4,000
21	Scissors	No.	5	80	400

Contd...

## ASSISTANCE TO STATE DEPARTMENTS FOR STRENGTHENING OF MUGA SEED MULTIPLICATION INFRASTRUCTURE (P2)

## VANYA SEED COMPONENT 7

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
22	Ant Well	No.	40	50	2,000
23	Galvanized Wire (2.5 mm)	Kg	10	150	1,500
24	Egg Laying Device	No.	4,000	5	20,000
25	Grainage mask	No.	6	500	3,000
26	Plastic Basin/ Tub - 20 ltr	No.	6	300	1,800
27	Plastic Bucket - 20 ltr	No.	6	200	1,200
28	Plastic Drum (100 ltr)	No.	2	1,200	2,400
29	Plastic Dustbin with lid	No.	6	200	1,200
30	Electronic Balance (1-2 kg capacity)	No.	1	15,000	15,000
31	Beaker - 100 ml, 250 ml, 500 ml, 1000 ml	Lumpsum	--	--	1,500
32	Pipette	No.	5	200	1,000
33	Absorbent cotton roll	No.	5	200	1,000
34	Measuring Cylinder etc	No.	5	200	1,000
35	Rubber Gloves	No.	6	100	600
	<b>Sub-total</b>				<b>3,96,100</b>
<b>D</b>	<b>Revolving capital</b>	Lumpsum	2,00,000	1	2,00,000
<b>E</b>	<b>Consumables</b>				
1	Formaldehyde	l	10	100	1,000
2	K <sub>2</sub> CO <sub>3</sub>	Kg	1	1,000	1,000
3	Bleaching powder	Kg	40	30	1,200
4	Soap & Detergents etc.	Lumpsum	--	--	500
5	Lime	Lumpsum	--	--	500
6	Bed disinfectants for self use	Lumpsum	--	--	2,250
7	Glass slides	Pkt	15	80	1,200
8	Cover Slips	Pkt	15	80	1,200
9	Muslin Cloth	M	30	80	2,400
10	Egg carrying boxes	No.	4,000	6	24,000
11	Blotting paper (No.)	No.	50	5	250
	<b>Sub-total</b>				<b>35,500</b>
<b>F</b>	<b>Portable generator 5 KVA with accessories</b>	No.	1	65,000	65,000
	<b>TOTAL</b>				<b>30,99,000</b>

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## ASSISTANCE TO STATE DEPARTMENTS FOR STRENGTHENING OF MUGA SEED MULTIPLICATION INFRASTRUCTURE (P2)

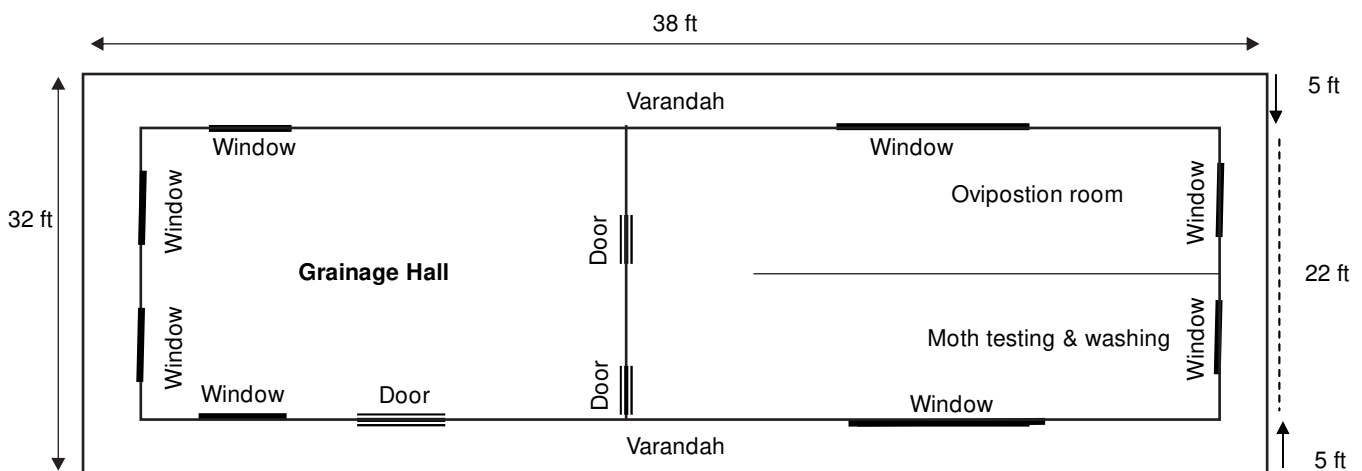
## VANYA SEED COMPONENT 7

### 5 Technical specifications/Norms

- Capacity : 30000 dfls/operation (twice/year), Annual capacity: 60,000 dfls/year.
- Two Grainage Buildings (38' x 32") with all side verandah and two mounting halls.
- Capacity to process 1.5 lakh seed cocoon/grainage operation.
- Facility for cocoon preservation, coupling, oviposition, moth examination, incubation.
- Facility for running water supply, electrical fittings, generator room, etc.
- Facility for Fujiwara method of pebrine detection/microscopic examination.
- One time assistance for revolving capital for purchase of seed cocoon from seed rearers.
- Scheme applicable to Govt. as well as private sector for P2 Basic seed production.

### 6 Plan / Design specifications

- Plinth Height : 2.5'
- Plinth : Brick, stones, cement
- Floor : Cement plastering
- Post/ Pillar : RCC
- Wall : Brick with cement : sand mortar
- Roof : C.G.I. sheet, Zinc sheet rested on wooden frame.
- False Ceiling : Wooden/Aluminium frame with asbestos
- Exhaust fan
- Separate generator room



Indicative plan for Muga seed multiplication unit

## ASSISTANCE FOR ESTABLISHMENT OF MUGA P-3 BASIC SEED PRODUCTION UNIT

## VANYA SEED COMPONENT 7A

1	<b>Name of the sector</b>	Muga-Seed
2	<b>Continuation/innovative</b>	Innovative
3	<b>Unit cost</b>	Rs. 20,35,000
4	<b>Zones</b>	Common to Nort-East and North-West

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
<b>A</b>	Raising and maintenance of perennial plantation	acre	2	31,000	62,000
<b>B</b>	Construction/Upgradation of one Grainage Building of (38' x 32') size with all side 5' Verandah and facility for cocoon preservation, oviposition, moth examination, running water supply, electricity fittings, generator room etc.	Sq.ft.	1,216	800	9,72,800
1	Cocoon Mounting Halls (Two, 30' x 16' size) with two side verandah	Sq.ft.	960	600	5,76,000
2	Box type mountages	No.	60	400	24,000
<b>C</b>	<b>Grainage equipment</b>				
1	Refrigerator (280 ltr)	No.	1	16,000	16,000
2	Steel racks (6.5' x 3.25' x 6.5') 6-tier	No.	4	4,000	16,000
3	Nylon Net (7' x 4' x 7')	No.	4	1,000	4,000
4	Cocoon Preservation tray (Plastic)	No.	48	450	21,600
5	Plastic Crate	No.	15	550	8,250
6	Foot Sprayer	No.	2	4,500	9,000
7	Room Heater (Blower)	No.	2	2,200	4,400
8	Humidifier	No.	2	8,000	16,000
9	Pedestal fan	No.	2	2,500	5,000
10	Light Microscope with high quality lenses & light arrangement	No.	5	6,000	30,000
11	Mortar & Pestle	No.	20	400	8,000
12	Centrifuge - Remi-R-8 with all accessories	No.	1	22,000	22,000
13	Mixer-cum-grinder	No.	2	3,000	6,000
14	Wet & Dry Thermometer	No.	2	600	1,200
15	Air Conditioner (1.5 T) in Oviposition/ incubation room	No.	2	28,000	56,000
16	Moth Examination Table - (5' x 2.5')	No.	2	4,000	8,000
17	Working table - Steel frame with wooden top	No.	5	3,000	15,000
18	Wooden Stool	No.	10	250	2,500
19	Wooden Bench (5' x 1.5')	No.	4	1,000	4,000
20	Scissors	No.	5	80	400

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**ASSISTANCE FOR ESTABLISHMENT  
OF MUGA P-3 BASIC SEED PRODUCTION UNIT**

**VANYA SEED  
COMPONENT 7A**

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
21	Ant Well	No.	40	50	2,000
22	Galvanized wire (2.5 mm)	Kg	10	150	1,500
23	Egg laying device	No.	3,000	5	15,000
24	Grainage mask	No.	4	500	2,000
25	Plastic basin/ Tub - 20 ltr	No.	4	300	1,200
26	Plastic bucket- 20 ltr	No.	4	200	800
27	Plastic drum (100 ltr)	No.	2	1,200	2,400
28	Plastic dustbin with lid	No.	4	200	800
29	Electronic dalance ( 1-2 kg capacity)	No.	1	15,000	15,000
30	Beaker - 100 ml, 250 ml, 500 ml, 1000 ml	Lumpsum	--	--	2,500
31	Pipette	No.	5	200	1,000
32	Absorbent cotton roll	No	5	200	1,000
33	Measuring cylinder etc.	No.	5	200	1,000
34	Rubber gloves	No.	4	100	400
	<b>Sub-total</b>				<b>2,99,950</b>
<b>D</b>	<b>Consumables</b>				
1	Formaldehyde	l	10	100	1,000
2	K <sub>2</sub> CO <sub>3</sub>	Kg	1	1,000	1,000
3	Bleaching powder	Kg	40	30	1,200
4	Soap & detergents etc.	Lumpsum	--	--	500
5	Lime	Lumpsum	--	--	500
6	Bed disinfectants for self use	Lumpsum	--	--	2,000
7	Glass slide	Pkt	15	80	1,200
8	Cover slip	Pkt	15	80	1,200
9	Muslin cloth	M	30	80	2,400
10	Egg carrying box	No.	4,000	6	24,000
11	Blotting paper (No.)	No.	50	5	250
	<b>Sub-total</b>				<b>35,250</b>
<b>E</b>	<b>Portable generator 5 KVA with accessories</b>	No.	1	65,000	65,000
	<b>TOTAL</b>				<b>20,35,000</b>

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## ASSISTANCE FOR ESTABLISHMENT OF MUGA P-3 BASIC SEED PRODUCTION UNIT

### VANYA SEED COMPONENT 7A

#### 5 Technical specifications/Norms

Capacity to rear 600 P3 Seed / crop and 1200 dfls/annum.

Capacity : to produce 5000 P2 dfls operation (twice/year), Annual capacity: 10,000 P2 dfls/year.

One Grainage Building (38' x 32") with all side verandah and two mounting halls - New construction.

Facility for rearing, cocoon preservation, coupling, oviposition, moth examination, incubation.

Facility for running water supply, electrical fittings, generator room, etc.

Facility for Fujiwara method of pebrine detection/microscopic examination.

#### 6 Plan / Design specifications

Plinth height : 2.5'

Plinth : Brick, stone, cement

Floor : Cement plastering

Post/ Pillar : RCC

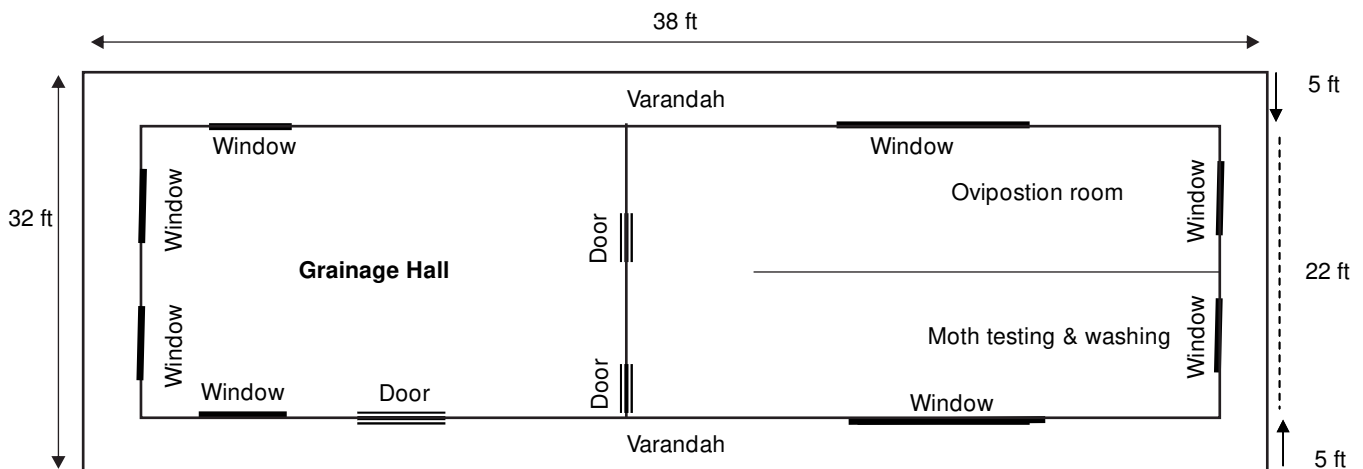
Wall : Brick with cement: sand mortar

Roof : C.G.I. sheet, Zinc sheet rested on wooden frame.

False ceiling : Wooden/Aluminium frame with asbestos

Exhaust fan

Separate generator room



Indicative plan for Muga seed multiplication unit

## ASSISTANCE TO MUGA ADOPTED SEED REARERS (Capacity-200 dfls / seed crop)

### VANYA SEED COMPONENT 7B

1 Name of the sector	Muga-Seed
2 Continuation/innovative	Innovative
3 Unit cost	Rs. 74,500
4 Zone	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	North-East (Rs.)
<b>A</b>	<b>Inputs/equipment for plantation maintenance (1 acre)</b>				
1	Urea	Kg	40	8	320
2	SSP	Kg	56	7	392
3	MOP	Kg	15	8	120
4	FYM @ 0.5 cft/plant	Cft	225	10	2,250
5	Pruning saw or secateur	No.	1	250	250
6	Insecticide	Lumpsum	--	--	500
	<b>Sub-total</b>				<b>3,832</b>
<b>B</b>	<b>Rearing appliances</b>				
1	Nylon rearing net (40' x 30')for chawki rearing	No.	2	4,000	8,000
2	Box type Mountage (technology popularization)	No.	12	400	4,800
3	Plastic Basket/Basin (No.)	Lumpsum	--	--	500
4	Knapsack Sprayer for disinfection	No.	1	2,500	2,500
5	Bleaching powder & disinfectants	Lumpsum	--	--	868
	<b>Sub-total</b>				<b>16,668</b>
<b>C</b>	<b>Mounting hall-cum-watch &amp; ward shed</b>				
1	Solar lantern (subsidized cost)	No.	1	4,000	4,000
	<b>Sub-total</b>				<b>54,000</b>
	<b>TOTAL</b>				<b>74,500</b>

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## ASSISTANCE TO MUGA ADOPTED SEED REARERS (Capacity-200 dfls / seed crop)

### VANYA SEED COMPONENT 7B

#### 5 Technical specifications/Norms

Capacity - 200 dfls/seed crop.

Input support for maintenance of plantation in 1.0 acre.

Nylon rearing net for early stage rearings.

Box type moutange for mounting of silkworm - popularization of technology.

Mounting hall for cocoon mounting. Mounting hall also covers provision for hooks and G.I. wire require for hanging Jali.

Support for disinfection and bed disinfectants to minimize disease incidence and improve productivity.

#### 6 Plan/ Design specifications of mounting hall

Size : 22' x 16'

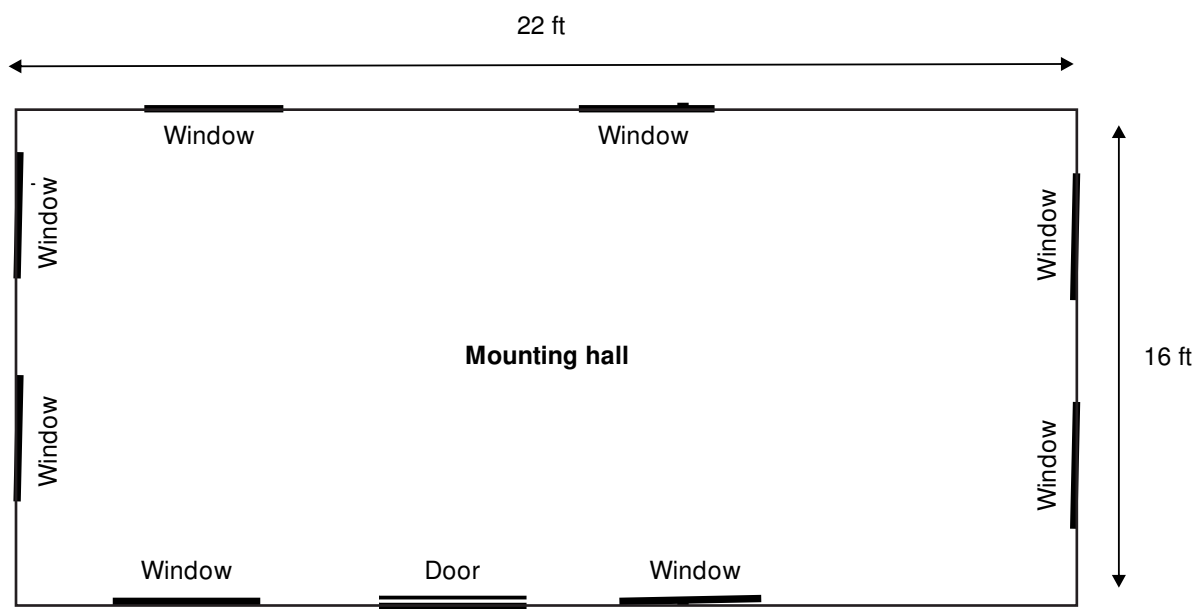
Plinth Height : 1.5'

Floor : Cement plastering

Post/ Pillar : RCC

Wall : Brick with cement: sand mortar or other local material

Roof : Thatched roof.



Indicative plan for mounting hall

## SUPPORT TO REARERS FOR AUGMENTATION OF TASAR HOST PLANTATION

(Spacing : 3 m x 1.8 m : 1852 plants)

### VANYA COCOON COMPONENT 1

1	<b>Name of the Sector</b>	Tropical Tasar - Cocoon
2	<b>Continuation / Innovative</b>	Continuation
3	<b>Unit Cost</b>	Rs. 40000 (Unit: 1 ha.)

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Asan and Arjuna seedlings including 10% mortality	No.	2,037	3.00	6,111
2	Soil conservation				
	a. Staggered trench (6 ft x 2 ft x 2 ft)	No.	250	33.00	8,250
	b. Cattle proof trench (4 ft x 3 ft)	cft	7,000	1.50	10,500
3	Pit digging (1.5 ft x 1.5 ft x 1 ft)	No.	1,852	3.50	6,482
4	Vermicompost @ 400 g / plant	Kg	741	5.00	3,704
5	Anti-termite treatment	Lumpsum	--	--	275
6	Transportation	Lumpsum	--	--	400
7	Filling of pits	Lumpsum	--	--	1,000
8	Transplantation of seedling	No.	1,852	1.50	2,778
9	Intercropping	Lumpsum	--	--	500
	<b>TOTAL</b>				<b>40,000</b>

#### 4 Technical specifications/Norms

Provision of additional 10% seedlings has been kept towards mortality while transplanting

Lumpsum provisions are made towards fertilizer cost as composition need to be decided based on soil quality and analysis

Lumpsum provisions are made towards activities where manual labour is involved as the minimum wage differs from state to state and the said activities would be the beneficiary contribution.

In view of successful experience under Special SGSY and NABARD-TDF projects on large scale, spacing and vermi-compost is decided

Provision has been made for intercropping during initial period of establishment to support rearing of 300 dfls

## ASSISTANCE FOR BENEFICIARIES FOR RAISING TASAR FOOD PLANT SEEDLINGS (KISAN NURSERIES)

(Bed size: 6 m x 1.2 m; No. of beds: 100; Capacity: 55000 seedlings)

### VANYA COCOON COMPONENT 1A

<b>1 Name of the Sector</b>	Tropical Tasar - Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs. 80,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Nursery land preparation	MD	20	135	2,700
2	FYM	Kg	20,000	0.8	16,000
3	Polythene bags	Kg	110	125	13,750
4	Seed (Arjun/Asan)	Kg	200	4	800
5	Collection of seeds in gunny bags	MD	8	135	1,080
6	Soaking of seeds & Miscellaneous works	MD	4	135	540
7	Filling of bags with Growing Medium & seed sowing	MD	150	135	20,250
8	Water supply	Lumpsum	--	--	5,000
9	Watering to the nursery	MD	10	135	1,350
10	Weeding of poly bags (once during the nursery)	MD	15	135	2,025
11	Plant protection chemicals	Lumpsum	--	--	750
12	Application of chemicals	MD	4	135	540
13	Knapsack sprayer	No.	2	2,500	5,000
14	Shade net	M	50	175	8,750
15	Incidental expenses	Lumpsum	--	--	1,500
	<b>TOTAL</b>				<b>80,000</b>
	<b>Production cost per seedling</b>				<b>1.455</b>

#### 4 Technical specifications/Norms

Growing medium (2 kg per polythene bag): Soil:Sand FYM/ Vermi-compost- 3:2:1

Polythene bags per kg: 500 (110 kg per 55000 seedlings)

No of Arjun seeds per kg= 350

Germination of seeds: 80% (70000 seeds to raise 55000 seedlings)

No of seedlings required for 1 ha (including 10% mortality) at 3 m x 1.8 m spacing : 2174

No of seedlings required for 25 ha including the 10% mortality : 54350 (or say 55000)

To obtain 55000 seedlings, about 70000 seeds require for sowing

Bed size: 6 m x 1.2 m, capacity: 55000 seedlings (for 25 ha @ 2174 per ha). Land requirement: 1.00 acre

Labour oriented activities would be the beneficiary contribution.

## ASSISTANCE TO TASAR COMMERCIAL REARERS FOR DEVELOPMENT OF CHAWKI GARDEN

(Spacing- 1.8 m x 1.8 m : 309 plants)

### VANYA COCOON COMPONENT 1B

<b>1 Name of the Sector</b>	Tropical Tasar - Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs. 6300

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Asan and Arjuna seedlings including 10% mortality	No.	3395	3	10,185
2	Soil conservation				
	Staggered trench (6 ft x2 ft x 2 ft)	No.	279	33.00	9,207
	Cattle proof trench (4 ft x 3 ft)	cft	7,500	1.50	11,250
3	Pit digging (1.5 ft x1.5 ft x 1ft)	No.	3,086	3.50	10,801
4	Vermi-compost @ 400 g / plant	Kg	1,234	5.00	6,172
5	Anti-termite treatment	Lumpsum	--	--	300
6	Transportation and filling of pits	Lumpsum	--	--	3,500
7	Transplantation of seedlings	No.	3,086	1.50	4,629
8	Basin formation and weeding	No.	3,086	1.50	4,629
9	Inter-cropping	Lumpsum	--	--	2,000
	<b>TOTAL</b>				<b>62,673</b>
	<b>Unit cost for raising 0.1 ha of chawki garden</b>				<b>6,300</b>

#### 4 Technical specifications/Norms

Chawki garden with 309 plants (spacing of 1.8 m x 1.8 m) to take care of chawki rearing in natural host flora or other block plantation

Provision of additional 10% seedlings has been kept towards mortality while transplanting

Lumpsum provisions are made towards fertilizer cost as composition need to be decided based on soil quality and analysis

Lumpsum provisions are made towards activities where manual labour is involved as the minimum wage differs from state to state.

Labour component would be the beneficiary contribution.

In view of successful experience under Special SGSY and NABARD-TDF projects on large scale, spacing and vermi-compost is decided

Provision has been made for inter-cropping during initial period of establishment

As far as possible, chawki gardens of SHGs will be raised together for better maintenance

The assistance is to support chawki rearing of 300 dfls.

## ASSISTANCE TO TASAR REARERS FOR MAINTENANCE OF EXISTING CHAWKI PLANTATION

(Spacing : 1.8 m x 1.8 m; No. of plants : 309)

### VANYA COCOON COMPONENT 1C

<b>1 Name of the Sector</b>	Tropical Tasar- Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs. 1400 (per ha)

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Hoeing and basin formation	No.	6,172	1.50	9,258
2	Spraying of neem based insecticide and Leaf Surface Microbes	Lumpsum	--	--	600
3	Fertilizer (75:25:25 kg N:P:K/ha)	kg	250	18	4,500
<b>TOTAL</b>					<b>14,358</b>
<b>Unit cost for maintenance of 0.1ha of chawki garden</b>					<b>1,400</b>

#### 4 Technical specifications/Norms

Chawki garden raised during earlier plan periods and also during XII Plan will be assisted for maintenance for two years for better survival

Lumpsum provisions are made towards fertilizer cost as composition need to be decided based on soil quality and analysis

Lumpsum provisions are made towards activities where manual labour is involved as the minimum wage differs from state to state.

Labour component would be the beneficiary contribution.

In view of successful experience under Special SGSY and NABARD-TDF projects on large scale, spacing and vermi-compost is decided

Assistance is subject to assessment on No.of survived plants by a suitable technical committee

The assistance is for supporting chawki rearing of 300 dfls.



## ASSISTANCE TO TASAR REARERS FOR MAINTENANCE OF EXISTING TASAR PLANTATION

(Unit: 1.0 ha.: Chawki-0.1 ha and Block Plantation-0.9 ha)

### VANYA COCOON COMPONENT 1D

<b>1 Name of the Sector</b>	:	Tropical Tasar - Cocoon
<b>2 Continuation / Innovative</b>	:	Innovative
<b>3 Unit Cost</b>	:	Rs. 17,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Soil conservation	Lumpsum			2,500
2	Vermi-compost @ 200 gm/ plant	kg	694	5.00	3,470
3	Anti-termite/ anti-fungal treatment	Lumpsum	--	--	500
4	Spraying of neem based insecticide & leaf surface Microbes	Lumpsum	--	--	600
5	Fertilizer (75:25:25 kg N:P:K/ha)	kg	125	18	4,500
6	Application of vermi-compost & fertilisers	Lumpsum	--	--	1,250
7	Basin formation and weeding	No.	3,472	1.25	4,340
<b>TOTAL</b>					<b>17,160</b>
					<b>Or say 17,000</b>

#### 4 Technical specifications/Norms

Spacing: 3m x 1.8m-1667 plants; 10% chawki garden: 1.8m x 1.8m-309 plants.

Block plantation raised during earlier plan periods and also during XII Plan will be assisted for maintenance for two years for better survival

Lumpsum provisions are made towards fertilizer cost as composition need to be decided based on soil quality and analysis

Lumpsum provisions are made towards activities where manual labour is involved as the minimum wage differs from state to state. Labour component would be the beneficiary contribution.

In view of successful experience under Special SGSY and NABARD-TDF projects on large scale, spacing and vermi-compost is decided.

Assistance is subject to assessment on No. of survived plants by a suitable technical committee

Soil conservation includes correcting cattle proof trench and staggered trenches for better soil and moisture conservation.

## CONSERVATION AND UTILIZATION OF SAL BASED TASAR ECO-RACES

### VANYA COCOON COMPONENT 1E

<b>1 Name of the Sector</b>	Tropical Tasar- Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs. 4,58,300

#	Items/Particulars	Quantity	Rate (Rs.)	Amount per camp (Rs.)
<b>A Camp unit cost during the first year</b>				
1	Conservation nylon Net (50' x 25' x 25')	10	5,000	50,000
2	Green shed net (75% shaded), 30'x20' central Height: 15', side height: 12' erection on iron pole	1	75,000	75,000
3	Bamboo 20-25' height: 15 No. per net	150	120	18,000
4	Seed cocoons	25,000	3	75,000
5	Nylon rope 4 kg per net (4x20= 80 kg)	80	100	8,000
6	Grainage articles (sutli, plastic bucket & basin etc.)	Lumpsum	--	5,000
7	Rearing articles (tarpaulin shed, torch, gumboot, farm tools-saw, secature, spade etc.)	Lumpsum	--	8,000
8	Chemicals (Bleaching powder, lime, formalin, carbolic acid etc.)	Lumpsum	--	3,000
9	Grainage and rearing works	360	140	50,400
10	Transportation	Lumpsum	--	5,000
11	Training for 10 persons @ 10 days	100	150	15,000
12	Miscellaneous	Lumpsum	--	5,000
	<b>Sub-total</b>			<b>317,400</b>
<b>B Camp Unit Cost during subsequent years</b>				
1	Seed cocoons	25,000	2.5	62,500
2	Chemicals (Bleaching powder, lime, formalin, carbolic acid etc.)	Lumpsum	--	3,000
3	Grainage and rearing works	360	140	50,400
4	Transportation	Lumpsum	--	5,000
5	Training for 10 persons @ 10 days	100	150	15,000
6	Miscellaneous	Lumpsum	--	5,000
	<b>Sub-total</b>			<b>140,900</b>
	<b>TOTAL</b>			<b>458,300</b>

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## CONSERVATION AND UTILIZATION OF SAL BASED TASAR ECO-RACES

### VANYA COCOON COMPONENT 1E

Expected production/collection of cocoons under Tasar Eco-Race conservation programme (Unit: 1 Camp)			
No. of seed cocoons hanged under the shade net : 25,000			
Dfls expected @ 6 cocoons / Dfl : 4000			
Under net	In Nature		
No. of Dfls.(5 dfls per net)	50	No. of Dfls.	4,000
Yield @ 40 cocoons / Dfl	2,000	Yield @ 15cocoons / Dfl	60,000
Dfls prepn. for II crop @ 5 cocoons / Dfl	400	Dfls prepn. for II crop @ 10 cocoons / Dfl	6000
Yield @ 40 cocoons / Dfl (Commercial)	16,000	Yield @ 20 cocoons / Dfl	1,20,000
<b>Total Cocoons ( I+ II)</b>	<b>18,000</b>		<b>1,80,000</b>
<b>Total no. of cocoon production expected per camp</b>			<b>1,98,000</b>
<b>Raw silk poduction expected from one camp (kgs) @ 1000 cocoon/kg</b>			<b>198</b>
		<b>Approximately..</b>	<b>200 kg</b>

Out-put and costs for the whole programme (540 Camps)						
Particulars	Cost for Plan period/cluster					Total
	I	II	III	IV	V	
Cost per camp (Lakh Rs.)	3.174	1.409	1.409	1.409	1.409	8.81
<b>No. of camps proposed</b>						
New	100	120	140	180	0	540
Existing	0	100	120	140	180	
<b>Total</b>	<b>100</b>	<b>220</b>	<b>360</b>	<b>540</b>	<b>540</b>	<b>540</b>
No.of Clusters (@ 10 camps)	10	12	14	18	0	54
No.of Clusters (cumulative)	10	22	36	54	54	
<b>Camp expenditure (Rs. in Lakh)</b>						
New	317.40	380.88	444.36	571.32	0.00	1,713.96
Existing	0.00	140.90	169.08	197.26	253.62	760.86
<b>Total</b>	<b>317.40</b>	<b>521.78</b>	<b>613.44</b>	<b>768.58</b>	<b>253.62</b>	<b>2,474.82</b>
<b>CSB share (25%)</b>	<b>79.35</b>	<b>130.45</b>	<b>153.36</b>	<b>192.15</b>	<b>63.41</b>	<b>618.71</b>
<b>State's share (75%)</b>	<b>238.05</b>	<b>391.34</b>	<b>460.08</b>	<b>576.44</b>	<b>190.22</b>	<b>1,856.12</b>
Out-put - Raw Silk in MT @200 kg. raw silk per camp	20	44	72	108	108	352

## ASSISTANCE FOR RAISING AND MAINTENANCE OF SYSTEMATIC OAK TASAR PLANTATION

### VANYA COCOON COMPONENT 2

<b>1 Name of the Sector</b>	Tropical Tasar- Cocoon
<b>2 Continuation / Innovative</b>	Continuation
<b>3 Unit Cost (Rs.)</b>	Rs. 49,000
<b>4 Zones</b>	North-East & North-West

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	<b>Raising of Plantation</b>				
1	Land husbandary & preparation	Lumpsum	--	--	1,050
2	Anti-termite treatment	Lumpsum	--	--	300
3	Seedlings	No.	3,399	3	10,197
4	Digging of pits ( 1' x 1' x 1')	No.	3,090	1.5	4,635
5	Transplantation & filling of pits @100 pit/ MD	No.	3,090	1	3,090
6	Vermi-compost @ 400 g /plant	kg	1,236	5.0	6,180
7	Cultural operations, basin formation etc	No.	3,090	1.5	4,635
8	Insecticides	Lumpsum	--	--	373
	<b>Sub-total</b>				<b>30,460</b>
<b>B</b>	Maintenance of plantation for two years in the 2nd & 3rd year ( 3090 X 2= 6180)		6,180	3	18540
	<b>TOTAL</b>				<b>49,000</b>

#### 4 Technical specifications/Norms

3090 seedlings to be planted in 1.0 hectare of land at 1.8 m x1.8 m  
 Pits to be digged of 1' x1' x1' size.  
 Seedling cost includes 10% transportation and transplantation mortality  
 Seedlings to be procured from kisan nurseries of entrepreneurial groups against payment.  
 Provision for soil conservation/ green fencing to check grazing by cattles in North-west zone only.  
 Maintenance of 3090 plants for two years in 2nd and 3rd year @ Rs 3.0 per plant/ year  
 About 250 dfls of 2 g each/ year can be reared from 4th year on ward

## ASSISTANCE FOR CONSTRUCTION OF COCOON STORAGE HOUSES IN TASAR SECTOR

(Preservation capacity - 50,000 cocoons )

### VANYA COCOON COMPONENT 3

1	<b>Name of the Sector</b>	Tropical Tasar- Cocoon
2	<b>Continuation / Innovative</b>	Continuation
3	<b>Unit Cost</b>	Rs.100,000

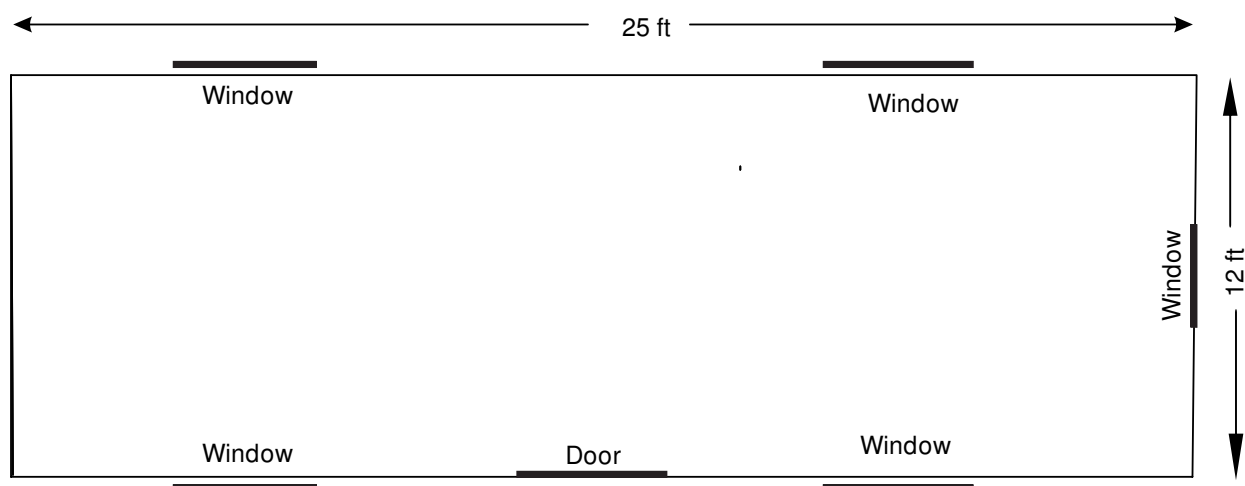
#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Construction of grainage building (25'x12') with mud wall, mud floor and thatched roof	Sq. ft.	300	275	82,500
2	Storage racks (8' x 4' x 1.5')	No.	4	2,500	10,000
3	Gunny bags and other Miscellaneous	Lumpsum	--	--	7,500
	<b>TOTAL</b>				<b>1,00,000</b>

#### 5 Technical specifications/ Norms

Mud house of 25' x 12' size with mud floor and thatched roof for group of 10 rearers

Storage facility for 50% of cocoons produced i.e., 5000 cocoons per farmer of 10 rearers totaling to 50000 cocoons

#### 6 Plan / Design



Indicative plan for Tasar cocoon storage house

## ASSISTANCE FOR CONSTRUCTION OF COCOON STORAGE AND STIFLING FACILITIES FOR TASAR REARERS

(Preservation capacity: 5 lakh cocoons )

### VANYA COCOON COMPONENT 3A

<b>1 Name of the Sector</b>	Tropical Tasar- Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs. 22,20,000

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	Construction of cocoon storage & office room	Sq. ft.	1,000	700	7,00,000
<b>B</b>	Ushnakoti - 100kg capacity	No.	1	2,25,000	2,25,000
	<b>Sub-total</b>				<b>9,25,000</b>
<b>C</b>	<b>Equipment</b>				
1	Electrical wiring with protection from lightning	No.	1	10,000	10,000
2	Almirah	No.	1	5,500	5,500
3	Cocoon storage racks (40' x 8' x 1.5')	No.	5	10,000	50,000
4	Wooden table (5' x 2.5')	No.	1	1,500	1,500
5	Chairs	No.	4	400	1,600
6	Wooden bench (6' x 1.5')	No.	1	900	900
7	White board (4' x 3')	No.	1	2,500	2,500
8	Tarpaulin for meeting & training	No.	2	2,000	4,000
9	Utentials for training purpose	Lumpsum	--	--	3,000
10	Insurance & miscellaneous expenditure	Lumpsum	--	--	6,000
	<b>Sub-total</b>				<b>85,000</b>
<b>D</b>	<b>Working capital</b>				
1	Purchase of reeling cocoons	No.	5,00,000	1.6	8,00,000
2	Advance payments to commercial rearers	No.	5,00,000	0.8	4,00,000
<b>E</b>	<b>Consumables</b>				
1	Glassware	Lumpsum	--	--	5,000
2	Chemicals	Lumpsum	--	--	5,000
	<b>Sub-total</b>				<b>12,10,000</b>
	<b>TOTAL</b>				<b>22,20,000</b>

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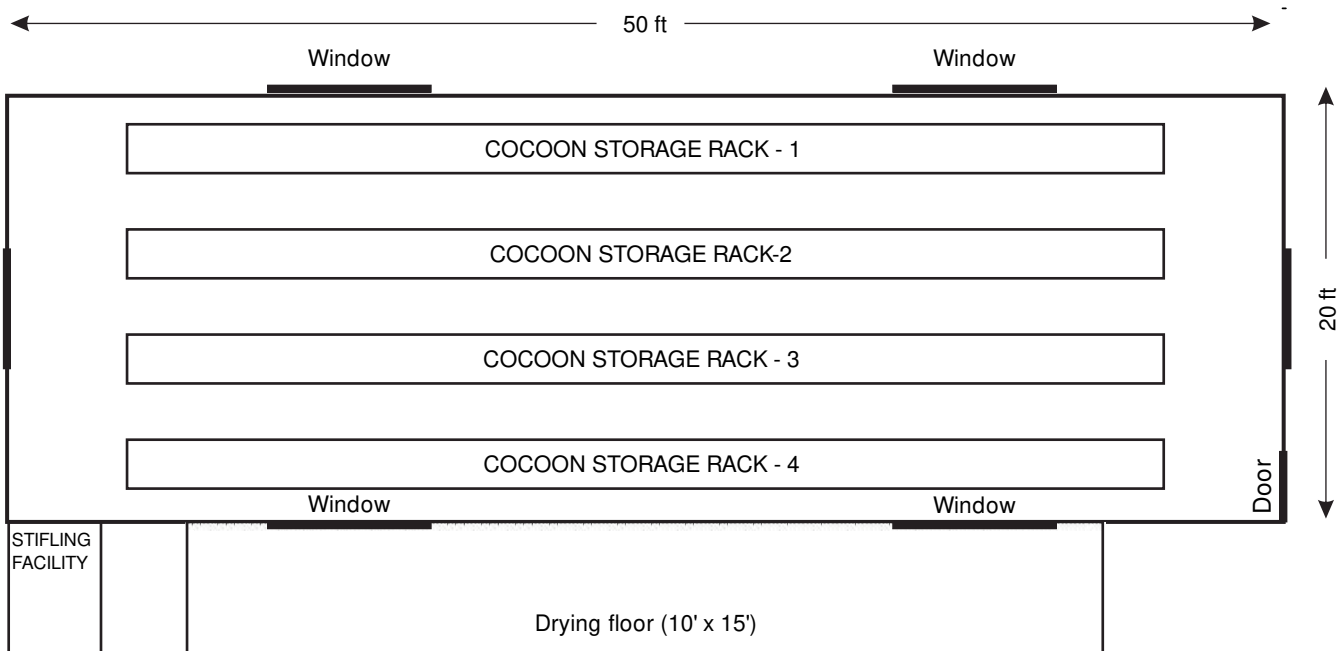
**ASSISTANCE FOR CONSTRUCTION OF COCOON STORAGE AND STIFLING FACILITIES FOR TASAR REARERS**

**VANYA COCOON COMPONENT 3A**

**4 Technical specifications/Norms**

- Storage and office room - 1000 Sq. ft. building with RCC roof, cement floor and brick walls including drying floor, civil works for ushnakoti along with hand bore well, toilet/bath facility
- Land will be contributed by the group or any donor on long term lease and would be the property of Community Based Organizations
- Cocoon stifling facility can be ushnakoti, hot air dryer or multi-fuel drier
- Capacity to preserve 5 lakh reeling cocoons
- Drying floor will be elevated of 10' x 15' size to sun dry cocoons
- Working capital will be used to pay about 30% cost of cocoons stored by commercial rearers.
- Common Facility will be used for farmers training , storage of farm inputs etc., during remaining period
- Linkages to reeler groups, provided to project clusters
- This scheme may be availed specially for projects dovetailed with assistance from MORD, RKVY etc, with 25% project grant from CSB share of CDP and the balance 75% project grant dovetailed from other funding agencies with or without state share

**5 Plan / Design**



Indicative plan for cocoon storage and stifling facility

## SUPPORT FOR CASTOR/ TAPIOCA CULTIVATORS WITH START-UP TOOLS

### VANYA COCOON COMPONENT 4

<b>1 Name of the Sector</b>	Eri - Cocoon
<b>2 Continuation / Innovative</b>	Continuation
<b>3 Unit Cost</b>	Rs.12,500
<b>4 Zones</b>	Applicable to all zones

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	Seed	kg	3	120	360
<b>B</b>	Land development (tractor ploughing and sowing)	Lumpsum	--	--	1,050
<b>C</b>	Fertilizer	kg			
	1 Urea (kg.)		78	8	624
	2 SSP (kg.)		100	7	700
	3 MOP (kg.)		13	8	104
	<b>Sub-total</b>				<b>1,428</b>
<b>D</b>	<b>Start-up tools</b>				
	1 Rearing platform (bamboo/ wooden/ steel)	No.	1	1,300	1,300
	2 Plastic rearing trays-for brushing and chawki rearing	No.	2	450	900
	3 Shaded net for self rearing support base	M	8	120	960
	4 Plastic mountage/chandrike	No.	40	70	2,800
	5 Leaf preservation chamber	Lumpsum	--	--	500
	6 Plastic basket/basin	Lumpsum	--	--	200
	7 Knapsack sprayer for disinfection	No.	1	2500	2,500
	8 Bleaching powder and disinfectants	Lumpsum	--	--	502
	<b>Sub-total</b>				<b>9,662</b>
	<b>TOTAL</b>				<b>12,500</b>

### 5 Technical specifications/Norms

Applicable to castor/ tapioca growers in non-traditional Eri states outside North eastern zone.

Castor / tapioca plantation unit : 1.0 acre

Rearing Capacity : 200 dfls/ year ( 50 dfls/ crop)

Start-up tools to rear upto 50 dfls / crop

To use partial leaf harvest (up to 30% of total available foliage) for eri silkworm rearing



## AUGMENTATION OF PERENNIAL ERI FOOD PLANTS WITH SUPPLY OF START-UP TOOLS

### VANYA COCOON COMPONENT 5

<b>1 Name of the Sector</b>	Eri - Cocoon
<b>2 Continuation / Innovative</b>	Continuation
<b>3 Unit Cost</b>	Rs. 31,000
<b>4 Zone</b>	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<b>A</b>	<b>Land development</b>				
1	Land Development (tractor/ bullocks ploughing)	Lumpsum	--	--	1050
2	Cattle Proof trench	Running Mtr	250	15	3750
3	Pit Digging	No.	450	3.5	1575
	<b>Sub-total</b>				<b>6375</b>
<b>B</b>	<b>Seedlings and transplantation</b>				
1	Seedlings including 10% transportation loss	No.	500	3	1,500
2	Transplantation of seedlings	No.	450	1.5	675
	<b>Sub-total</b>				<b>2,175</b>
<b>C</b>	<b>Inputs</b>				
1	Urea	kg	110	8	880
2	SSP	kg	190	7	1,330
3	MOP	kg	20	8	160
4	FYM / Vermi-compost @0.5 cft/plant	Cft	225	10	2,250
5	Application of inputs, basin formation, cultural operations ( Twice in a year)	Nos.	450	1.5	675
6	Plant protection (Pesticides / Insecticides)	Lumpsum	--	--	400
	<b>Sub-total</b>				<b>5,695</b>
<b>D</b>	<b>Input for intercrops</b>				
	Seed material- castor, legumes, vegetables etc. for raising as intercrops during gestation period for three years	Lumpsum	--	--	1,000
	<b>Sub-total</b>				<b>1,000</b>
<b>E</b>	<b>Maintenance of plantation</b>				
	Maintenance for 2nd and 3rd year (450 plants x 2 years)		900	9	8,100
<b>F</b>	<b>Start-up tools (for rearing 100 dfls/crop)</b>				
1	Rearing platform (bamboo)	No.	4	400	1,600
2	Bamboo chawki rearing trays -	No.	4	60	240
3	Plastic mountage/ chandrike	No.	40	70	2,800
4	Plastic basket / basin	Lumpsum	--	--	200
5	Knapsack sprayer for disinfection	No.	1	2,500	2,500
6	Bleaching powder & disinfectants	Lumpsum	--	--	315
	<b>Sub-total</b>				<b>7,655</b>
	<b>TOTAL</b>				<b>31,000</b>

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**AUGMENTATION OF PERENNIAL ERI FOOD PLANTS  
WITH SUPPLY OF START-UP TOOLS****VANYA COCOON  
COMPONENT 5****5 Technical specifications/ Norms**

Augmentation of Kessuru/ Payam/ Ailenthus (perennial) block plantation.

Plantation unit area - 1.0 acre, Spacing: 3 x 3 m, No of plants-450 per acre.

10% seedlings towards transportation/ mortality loss.

Capacity to support rearing of 400 dfls / year in the fourth year of establishment.

Lumpsum provision for inter cropping during gestation period (for seed material-castor/legumes/vegetables etc.)

Maintenance cost for plants in the 2nd and 3rd years only

Start-up tools to rear upto 100 dfls / crop.

Lumpsum provisions are made towards activities where manual labour is involved, as the minimum wage differs from state to state and in activities like soil conservation includes engaging tractor drawn power etc.

Manual labour shall be the beneficiary contribution.

## ASSISTANCE FOR RAISING KESSERU FOOD PLANTS NURSERY

### VANYA COCOON COMPONENT 5A

<b>1 Name of the Sector</b>	Eri - Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs.51,000
<b>4 Zone</b>	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Nursery land preparation	Lumpsum			1,650
2	Rooting medium for poly bags-sand/FYM	M	44	450	19,800
3	Polythene tubes ( 350 No. / kg; 8" x 6")	Kg	64	120	7,680
4	Seed (20000 seeds/kg; 75% germination)	Kg	2	200	400
5	Selection of seeds. re-conditioning of seed	Lumpsum	--	--	600
6	Filling of bags with growth medium and sowing of seeds @300 bags/ MD	No.	22,000	0.30	6,600
7	Watering to the nursery	Lumpsum	--	--	3,300
8	Polybag weeding (Twice during the nursery)	No.	22,000	0.2	4,400
9	Plant protection chemicals	Lumpsum	--	--	500
10	Application of chemicals	Lumpsum	--	--	440
11	Knapsack sprayer	No.	1	2500	2,500
12	Shade preparation	Lumpsum	--	--	600
13	Shade material	Lumpsum	--	--	2,000
14	Miscellaneous- rope/ GI wire				530
	<b>TOTAL</b>				<b>51,000</b>
	<b>Cost of one seedling:</b>				<b>2.55</b>

### 5 Technical specifications/Norms

Capacity: to produce 20,000 healthy seedlings / year for supporting plantation in 40 acres of land

Bed size: 6 m x 1.2 m, No. of beds: 27

Bed size: 6 m x 1.2 m to accommodate around 800 seedlings at a spacing of 15 cm X 10 cm

Growing Medium = Soil: Sand: FYM :: 1:1:1

Approximate weight of growing medium in each polythene bag = 2 kg

No. of polythene bags per kg = 350 (approximate)

No. of Kesseru seeds per kg= 4,000 (approximate)

Percentage of healthy seedling obtained from total seed sown: Around 60%

No. of seedlings required for planting in 1 acre at 3m x 3 m spacing : 450

No. of seedlings required for planting in 40 acres including the 10% damage = 20,000

Kisan nursery is proposed as the required facilities can not be created at individual level, which would be expensive.

Approximate weight of growing medium in each polythene bag = 2 kg

No. of Polythene bags per kg = 350 approximate

No. of Kesseru seeds per kg= 4,000 approximate

Percentage of healthy seedling obtained from total seed sown: Around 60%

No. of seedlings required for planting in 1 acre at 3m x 3 m spacing : 450

No. of seedlings required for planting in 40 acres including the 10% damage = 20,000

## ASSISTANCE FOR CONSTRUCTION OF ERI REARING HOUSE

(Capacity: 100 dfls per crop/operation)

## VANYA COCOON COMPONENT 6

<b>1 Name of the Sector</b>	Eri - Cocoon
<b>2 Continuation / Innovative</b>	Continuation
<b>3 Unit Cost</b>	Rs.1,00,000
<b>4 Zones</b>	Applicable to all zones

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Soil excavation for plinth ( 2.5 ft height)	MD	10	110	1,100
2	Brick/cement post/stone post	No.	12	500	6,000
3	Bricks	No.	5000	4	20,000
4	Cement	Bags	20	250	5,000
5	Sand	Cft	260	20	5,200
6	Door frame (Z-type, double pannel, 6' x 3.5' type)	No.	1	1,600	1,600
7	Window frame (wooden - 4' x 3' size)	No.	4	800	3,200
8	Door	No.	1	1,600	1,600
9	Windows	No.	4	800	3,200
10	Channels for roof	Sq. ft.	500	65	32,500
11	Cement flooring	Sq.ft	500	16	8,000
12	Labour charge	MD	60	180	10,800
13	Miscellaneous				1,800
	<b>TOTAL</b>				<b>1,00,000</b>

### 5 Technical specifications/Norms

Capacity	: to rear upto 100 Eri dfls / crop
Size	:15' x 25' (15'+ (10' for 5' two side Varandah) x10 ( LxBxH) ( 375 sq ft)
Plinth Height	: 2.5'
Plinth	: Brick, stones,cement
Floor	: Cement plastering
Post/ Pillar	: RCC or brick
Wall	: 3.5" width brick with cement: sand mortar
Roof	: C.G.I.Sheet, Zinc Sheet, or roof stone sheet (2 'X 2'), thatch grass or other similar material rested on wooden / bamboo frames.
False Ceiling	: Wooden/ bamboo framing with bamboo mesh/ foam supported with wire mesh or asbestos /gypsum board
No of door	: one (Z type double panel)- ( 6' x 3' 5")
Windows	: 4 No. wooden (4' x 3')

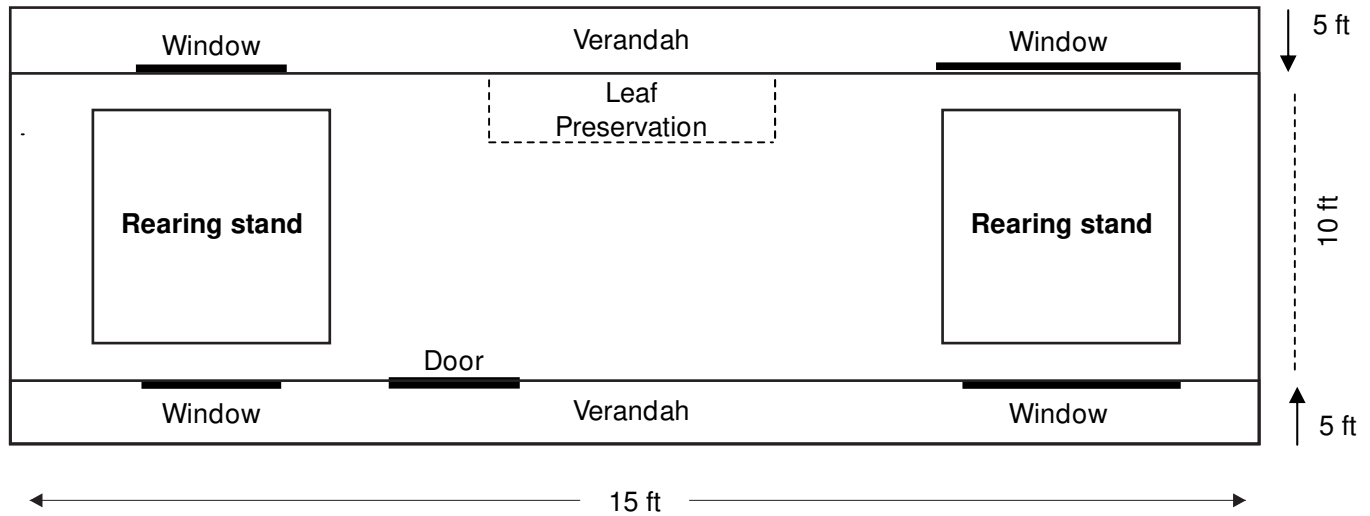
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**ASSISTANCE FOR CONSTRUCTION OF  
ERI REARING HOUSE**

(Capacity: 100 dfls per crop/operation)

**VANYA COCOON  
COMPONENT 6**

**6 Plan / Design**



Indicative plan of Eri rearing house

## AUGMENTATION & MAINTENANCE OF MUGA FOOD PLANTS WITH START-UP TOOLS

### VANYA COCOON COMPONENT 7

<b>1 Name of the Sector</b>	Muga - Cocoon
<b>2 Continuation / Innovative</b>	Continuation
<b>3 Unit Cost</b>	Rs. 31,000
<b>4 Zones</b>	North-East & North-West

x

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>A</b>	<b>Land development</b>				
1	Land Development (tractor/ bullocks ploughing)	Lumpsum	--	--	1050
2	Cattle Proof trench	Running Mtr	250	15	3750
3	Pit Digging ( 450 pits)	No.	450	3.5	1575
	<b>Sub-total</b>				<b>6375</b>
<b>B</b>	<b>Seedlings and transplantation</b>				
1	Seedlings including 10% transportation loss	No.	500	3	1,500
2	Transplantation of seedlings	No.	450	1.5	675
	<b>Sub-total</b>				<b>2,175</b>
<b>C</b>	<b>Cost of Inputs</b>				
1	Urea	kg	40	8	320
2	SSP	kg	56	7	392
3	MOP	kg	15	8	120
4	FYM / Vermicompost @0.5 cft/ plant	Cft	225	10	2,250
5	Application of inputs, basin formation, cultural operations( Twice in a year)	No.	450	1.5	675
6	Plant protection (Pesticides / Insecticides)	Lumpsum	--	--	500
	<b>Sub-total</b>				<b>4,257</b>
<b>D</b>	<b>Input for intercrops (3 years gestation period)</b>				
	Seed material- castor, legumes, vegetables etc. For raising as Intercrops during gestation period for three years	Lumpsum	--	--	1,000
<b>E</b>	<b>Maintenance of plantation</b>				
	Maintenance for 2nd and 3rd year ( 450 plants X 2 yrs)		900	9	8,100

Contd...

**AUGMENTATION & MAINTENANCE OF  
MUGA FOOD PLANTS WITH START-UP TOOLS**

**VANYA COCOON  
COMPONENT 7**

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
<b>F</b>	<b>Start-up tools</b>				
1	Pruning saw	No.	1	250	250
2	Secature	No.	1	250	250
3	Pick axe	No.	1	250	250
4	Box type Mountage	No.	12	400	4,800
5	Plastic Basket / Basin (nos.)	Lumpsum	--	--	500
6	Knapsack Sprayer for disinfection	No.	1	2,500	2,500
7	Bleaching powder & disinfectants	Lumpsum	--	--	543
	<b>Sub-total</b>				<b>9,093</b>
	<b>Total</b>				<b>31,000</b>

**5 Technical specifications/Norms**

Augmentation of Som/ Soalu block plantations

Unit area- 1.0 Acre, Spacing-3 x 3 mts, No of plants-450 per acre.

Provision of 10% seedlings towards transportation/ mortality loss

Capacity - to support rearing of 800 dfls / year in the fourth year of establishment

Provision has been made for intercropping during initial period of establishment

Maintenance cost for plants in the 2nd & 3rd years only

Start-up tools to rear upto 400 dfls / crop

Lumpsum provisions are made towards activities where manual labour is involved, as the minimum wage differs from state to state and in activities like soil conservation includes engaging tractor drawn power etc. Further, the said activities would be the beneficiary contribution.

Box type mountages for transfer of technology to field

## ASSISTANCE FOR RAISING MUGA FOOD PLANT NURSERY

## VANYA COCOON COMPONENT 7A

<b>1 Name of the Sector</b>	Muga - Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs.52,500
<b>4 Zone</b>	North-East

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	Nursery land preparation	Lumpsum	--	--	1650
2	Rooting medium for Poly bags-Sand/FYM	MT	44	450	19800
3	Polythene tubes- ( 350 nos/kg; 8" x 6")	kg	64	120	7680
5	Seed (4000 seeds/kg; 75% germination)	kg	10	200	2,000
6	Selection of seeds (pre-conditioning of seed)	Lumpsum	--	--	600
7	Filling of bags with growth medium and sowing of seeds @300 bags/ md	No.	22,000	0.3	6,600
8	Watering to the nursery	Lumpsum	--	--	3,300
9	Polythene bag weeding (Twice during the nursery)	No.	22,000	0.2	4,400
10	Plant protection chemicals	Lumpsum	--	--	500
11	Application of chemicals	Lumpsum	--	--	440
12	Knapsack sprayer	No.	1	2500	2,500
13	Shade preparation	Lumpsum	--	--	600
14	Shade material	Lumpsum	--	--	2,000
15	Miscellaneous- rope/ GI wire				430
	<b>TOTAL</b>				<b>52,500</b>

### 5 Technical specifications/Norms

Capacity : to produce 20,000 healthy seedlings / year for supporting plantation in 40 acres of land

Bed size: 6m x 1.2m, No. of beds: 27

Bed size: 6m x 1.2m to accommodate around 800 seedlings at a spacing of 15 cm X 10 cm

Growing Medium = Soil: Sand: FYM :: 1:1:1

Approximate weight of growing medium in each polythene bag = 2 Kg

No. of polythene bags per Kg = 350 (approx.)

No. of Kesseru seeds per Kg= 4,000 (approx.)

Percentage of healthy seedling obtained from total seed sown: around 60% No of seedlings required for planting in 1 acre at 3 x 3 m spacing = 450

No of seedlings required for planting in 40 acres including the 10% damage= 20,000



## ASSISTANCE FOR MAINTENANCE OF EXISTING MUGA FOOD PLANTATION

### VANYA COCOON COMPONENT 7B

<b>1 Name of the Sector</b>	Muga - Cocoon
<b>2 Continuation / Innovative</b>	Innovative
<b>3 Unit Cost</b>	Rs. 9,500
<b>4 Zones</b>	North-East & North-West

#	Items/Particulars	Unit	Quantity	Rate (Rs.)	Total (Rs.)
1	<b>Input</b>				
	Soil conservation, repair of trenches / fencing	Lumpsum	--	--	2,500
	<b>Chemical fertilizers</b>				
	Urea	kg	40	8	320
	SSP	kg	56	7	392
	MOP	kg	15	8	120
	FYM @ 0.5 Cft/ plant or vermi-compost @ 400 g/plant	Cft / kg	225	10	2,250
	Application of inputs, basin formation, cultural operations (twice in a year)	No.	450	6	2,700
	Plant protection (Pesticides / Insecticides)	Lumpsum	--	--	468
	<b>Sub-total</b>				<b>8,750</b>
2	<b>Appliances</b>				
	Pruning saw	No.	1	250	250
	Secateurs	No.	1	250	250
	Pick axe	No.	1	250	250
	<b>Sub-total</b>				<b>750</b>
3	<b>TOTAL</b>				<b>9,500</b>

### 5 Technical specifications/Norms

Maintenance of existing Som/ Soalu block plantations including Chawkie garden in 0.1 acre area. Unit area- 1.0 Acre, Spacing-3 x 3 mts, No of plants-450 per acre.

Capacity - to support rearing of 800 dfls / year

Block Plantation raised during earlier Plan periods will be assisted for maintenance for better productivity

Provisions are made towards activities where manual labour is involved as the minimum wage differs from state to state.

Labour component would be the beneficiary contribution.

Soil conservation includes correcting cattle proof trench and staggered trenches for better soil and moisture conservation

Assistance subject to assessment of survival of 450 plants/ acre by an appropriate Joint Technical Committee comprising members from CSB and State.

