PHYSICAL TARGET FOR THE YEAR 2017-18

CENTRAL TASAR RESEARCH & TRAINING INSTITUTE, RANCHI – 835 303, JHARKHAND

1. Organisational set up - Nested units:

Unit	Place
RSRS/RMRS/RTRS	**Tropical :** Baripada (Odisha), Dumka (Jharkhand), Bhandara (Maharashtra), Jagdalpur (Chhattisgarh), Warangal (Andhra Pradesh) **Temperate :** Imphal (Manipur), Bhimtal (Uttarakhand)
SSBC	-
REC	**Tropical :** Hatgamharia (Jharkhand), Bangriposi (Odisha), Katghora (Chhattisgarh), Robertsganj (Uttar Pradesh), Bhadrachalam (Andhra Pradesh), Kapistha (West Bengal) **Temperate :** Gopeswar/Pithoragarh (Uttarakhand), Palampur (Himachal Pradesh), Yaikongpao (Manipur), Umrangsu (Assam), Kikruma (Nagaland)
Sub REC	-
P4	**Tropical :** **Bivoltine** - Chakradharpur (Jharkhand), Jarmundi (Jharkhand), **Trivoltine -** Katghora (Chhattisgarh)

2. Projects:

Item	Target	Remarks	Page No.
1. Projects			
1.1 Projects of earlier year continued through the year 2017-18	18	**Annex-I**	21
1.2 Projects concluded during the year 2017-18	03	**Annex-II**	39
1.3 New Projects initiated during 2017-18	05	**Annex-III**	42
1.4 Pilot Studies / Programme of work of earlier year continued through the year 2017-18	05	**Annex-IV**	47
2. Extension communication programs (No.)		**Annex-V**	60
2.1. Farmers meet cum exhibition/ Krishi Mela	10	-	-
2.2. Field day / Farmers day	38	-	-
2.3. Awareness programme	44	-	-
2.4. Vichar Gosthi	54	-	-
2.5. Workshop / Seminar	02	-	-
3. Transfer of Technology (No. of technologies)	08	**Annex-VI**	61
4. Training (No. of persons to be trained)	835	**Annex-VII**	111

Annex-I

2.1.1. Projects of earlier year to be continued during 2017-18

At Main Institute

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
1.	PIB-4697	Development of superior hybrids of *Terminalia arjuna* and *T. Tomentosa* for high leaf yield and quality.	May 2012	Sept. 2018	1. Evaluation of hybrids. 2. Multiplication of isolated hybrids through cuttings.	1. Evaluation of hybrids. 2. Multiplication of isolated hybrids through cuttings.	1. Evaluation of hybrids. 2. Multiplication of isolated hybrids through cuttings. 3. Raising and maintenance of clonal orchard.	1. Evaluation of hybrids. 2. Multiplication of isolated hybrids through cuttings. 3. Raising and maintenance of clonal orchard.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	0.55	-	-	0.55
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.40	-	-	0.40
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.15	-	-	0.15
	Total	**1.05**	**-**	**-**	**1.05**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
2.	PPS-4725	Soil Health Cards for Tasar Sericulture Farmers	Oct. 2016	Sept. 2019	75 samples will be analyzed for pH, EC, organic carbon and all macro and micronutrients.	75 samples will be analyzed for pH, EC, organic carbon and all macro and micronutrients.	100 samples will be analyzed for pH, EC, organic carbon and all macro and micronutrients.	100 samples will be analyzed for pH, EC, organic carbon and all macro and micronutrients.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	3.00	Digital pH Meter, Digital EC Meter, Analytical Balance & Centrifuge	The details are indicated in the project document.	3.00
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	3.00	Double Distillation Water Plant & Reverse Osmosis Plant		3.00
B.	1. Input Cost under Technology Transfer	-	Water Recycling Plant & Turbidometer		-
	2. Input cost under Technology Trial Programme	-	Micropipette & Pipette Controller		-
C.	Seminar/Farmer's day/Vichar Gosthi	-	Mridaparikshak Soil Testing Kit		-
D.	Transport and travel under collaborative programme of work/projects	1.00	Miscellaneous items like Wooden Rack Almirah, Refrigerator, Split Air Conditioner, *etc*.		1.00
	Total	**7.00**		**13.55**	**20.55**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
3.	PPA-4715	Effect of plant growth promoting rhizosphere microorganisms on leaf nutrient content of primary tasar host plants in forest and block plantation.	Oct. 2016	Sept. 2019	Rhizosphere soil sample collection from different tasar rearing regions (forest / block plantation).	Isolation and enumeration of plant growth promoting rhizosphere micro-organisms (PGPMs) composition.	1. Isolation and maintenance of pure cultures of PGPMs. 2. Estimation of Nitrogen fixing capacity of *Azotobacter* isolates.	Estimation of nutrients in soil and leaf samples.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	1.50	Incubator	2.00	3.50
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.50	Microscopes	1.00	1.50
B.	1. Input Cost under Technology Transfer	-	Computer and printer	0.40	0.40
	2. Input cost under Technology Trial Programme	-	Camera	0.20	0.20
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	1.20	-	-	1.20
	Total	**3.20**	**-**	**3.60**	**6.80**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
4.	ARE-4719	Studies of population dynamics of stem borer (s) in tasar host plant and their management through IPM approaches	Oct. 2016	Sept. 2019	1. Procurement of instruments, nylon nets, cages, glasswares, chemicals & other materials. 2. Survey of tropical tasar producing areas for distribution & collection of Stem borers and their natural enemies in relation to ecological factors.	1. Survey of tropical tasar producing areas for distribution & collection of Stem borers and their natural enemies in relation to ecological factors. 2. Identification Stem borers from tropical tasar growing areas (IARI/ ZSI / FRI).	1. Survey of tropical tasar producing areas for distribution & collection of stem borer & their natural enemies. 2. Identification Stem borers from tropical tasar growing areas (IARI/ZSI/FRI). 3. Evaluation on extent of damage caused by the beetles in relation to age of plants. Mating & egg laying behavior of the beetle. 4. Set up of experiment for management of stem borers through IPM approaches.	1. Survey of tropical tasar producing areas for distribution & collection of stem borer & their natural enemies. 2. Identification Stem borers from tropical tasar growing areas (IARI/ZSI/FRI). 3. Evaluation on extent of damage caused by the beetles in relation to age of plants. Mating & egg laying behavior of the beetle. 4. Set up of experiment for management of stem borers through IPM approaches.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	1.50	Tree Syringe/Tree Injector	3.00	4.50
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	1.25	Farm implements	1.50	2.75
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.50	-	-	0.50
	Total	**3.25**	**-**	**4.50**	**7.75**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
5.	PRE-4720	Efficacy of selected insecticides in controlling the gall fly, *Trioza fletcher minor* infesting tasar host plants	Nov. 2016	Oct. 2016	1. Recording of data on gall infestation at weekly interval before and after application of different insecticides. 2. To find some natural enemies of gall fly. 3. Impact of insecticides on tasar silkworm rearing and its parameters.	1. Recording of data on gall infestation at weekly interval before and after application of different insecticides. 2. To find some natural enemies of gall fly. 3. Impact of insecticides on tasar silkworm rearing and its parameters.	1. Recording of data on gall infestation at weekly interval before and after application of different insecticides. 2. To find some natural enemies of gall fly. 3. Impact of insecticides on tasar silkworm rearing and its parameters. 4. Compilation of Data and its analysis	1. Compilation of Data and its analysis. Pruning of tasar host plants. 2. Preparation of plantation for testing of efficacy of insecticides against gall fly.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	0.90	Sprayer (02 Nos.)	0.20	1.10
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.20	Computer and accessories and Printer cum Scanner (One set)	0.80	1.00
B.	1. Input Cost under Technology Transfer	-			
	2. Input cost under Technology Trial Programme	-			
C.	Seminar/Farmer's day/Vichar Gosthi	-	Microscope (01 No.)	1.50	1.50
D.	Transport and travel under collaborative programme of work/projects	-	-	-	-
	Total	**1.10**	**-**	**2.50**	**3.60**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
6.	AIB-4717	Improvement of tropical tasar silkworm for high silk yield through recurrent selection	Oct. 2016	Sept. 2019	1. Collection of Daba (semi-domestic & wild) from different agroclimatic regions. 2. Selection for higher shell weight. Study of their phenotypic characters. 3. Grainage and crossing (Daba-semi-domestic x Daba - wild) stocks and 1st crop rearing of F_1 populations.	1. Selection of F_1 cocoons based on the shell weight and silk ratio. 2. Grainage, family selection and preparation of crossing.	1. 2nd crop rearing of population on Arjun plants and cocoon consignment in the grainage.	1. Study of Post-cocoon characters & selection, consign-ment.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	0.25	Weed Cutter	0.40	0.65
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	2.05	Electronic Weighing Balance	1.00	3.05
B.	1. Input Cost under Technology Transfer	-	Dusting Machine (2 No.)	0.06	0.06
	2. Input cost under Technology Trial Programme	-	Rocker Sprayer (2 No.)	0.24	0.24
C.	Seminar/Farmer's day/Vichar Gosthi	-	Microscopes (4 No.)	0.30	0.30
D.	Transport and travel under collaborative programme of work/projects	0.75	-	-	0.75
	Total	**3.05**	**-**	**2.00**	**5.05**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
7.	AIE-3555	Cryopreservation of Tasar silkworm, *Antherea mylitta* semen and its artificial insemination [Collaborative project with CSGRC, Hosur]	Feb. 2016	Jan. 2019	Preservation of age marked cocoons for artificial insemination.	Study of rearing and grainage performance of inseminated and control. Supply of Age marked cocoons to CSGRC Hosur	Temporal Impact cryopreservation on semen & repetition of experiments	Artificial insemination. Comparative physiology of cryo-preserved and inseminated insect.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.75	Defreeze (-20^{o}C)	1.25	2.00
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.25	-	-	0.25
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.50	-	-	0.50
	Total	**1.50**	**-**	**1.25**	**2.75**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
8.	PIP-4716	Gut-symbiont associations in *Antheraea mylitta* Drury feeding on Sal flora and their physiological implications	Oct. 2016	Sept. 2019	Collection of Sal based tasar ecoraces and isolation of bacteria.	1. Isolation of phyllosphere bacteria from Sal leaves of different locations. 2. Isolation of bacterial DNA using metagenomic approach.	1. Molecular identification of the isolated gut bacteria. 2. Isolation of bacterial DNA using culture dependent and Pure culturing of culturable bacteria.	1. Molecular identification of isolated phyllosphere bacteria. 2. Isolation of bacterial DNA using culture dependent and Pure culturing of culturable bacteria.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand Total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	4.50	Anaerobic chamber	1.00	5.50
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	1.00	Bacteriological incubator	2.00	3.00
B.	1. Input Cost under Technology Transfer	-	-	-	
	2. Input cost under Technology Trial Programme	-	-	-	
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	
D.	Transport and travel under collaborative programme of work/projects	1.00	-	-	1.00
E.	Outsourcing	5.00	-	-	5.00
	Total	**11.50**	**-**	**3.00**	**14.50**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
9.	APS-4721	Development of tasar silkworm egg laying and collection device.	Oct. 2016	Sept. 2018	Designing and manufacturing of suitable egg laying devices and new egg laying procedures.	Evaluation of suitable egg laying devices	Evaluation of suitable egg laying devices	Designing and fabrication of the machine for the collection of tasar silkworm layings.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.00	Designing and manufacturing of suitable egg laying devices	0.50	0.50
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.75	Designing of the machine for the collection of tasar silkworm layings	1.00	1.75
B.	1. Input Cost under Technology Transfer	-			
	2. Input cost under Technology Trial Programme	-	Fabrication of the machine	5.00	5.00
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.50	-	-	0.50
	Total	**1.25**	**-**	**6.50**	**7.75**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
10.	ARE-4710	Studies on the seasonal incidence, biology and management of Ichneumonid wasp, *Xanthopimpla pedator* in tasar cultivation	March 2016	Feb. 2019	1. Procurement of instruments, nylon nets, cages, glass wares, chemicals and other materials. 2. Survey of tasar producing areas for distribution and collection of *Xanthopimpla pedator* and other species in relation to ecological factors.	1. Survey, characterization and biology of *Xanthopimpla pedator.* 2. Seasonal abundance, crop loss assessment, feeding and breeding behavior and host parasite relationship of *Xanthopimpla pedator* in relation to ecological factors. 3. Occurrence of alternate host & natural enemies of *X. pedator.* 4. Extraction and identification of the chemical volatiles and olfactometer studies.	1. Survey, characterization and biology of *Xanthopimpla pedator.* 2. Seasonal abundance, crop loss assessment, feeding and breeding behavior and host parasite relationship of *Xanthopimpla pedator* in relation to ecological factors. 3. Occurrence of alternate host & natural enemies of *X. pedator.* 4. Extraction and identification of the chemical volatiles & olfactometer studies.	1. Extraction and identification of the chemical volatiles & olfactometer studies 2. Set up experiment for management of yellow fly with identified chemical volatiles (attractants /repellants).

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	1.50	Trinocular Stereo Zoom Microscope with digital Photomicrography	4.00	5.50
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.50		-	0.50
B.	1. Input Cost under Technology Transfer			-	-
	2. Input cost under Technology Trial Programme		Olfactometer	0.75	0.75
C.	Seminar/Farmer's day/Vichar Gosthi		-	-	-
D.	Transport and travel under collaborative programme of work/projects	1.50	-	-	1.50
	Total	**3.50**	**-**	**4.75**	**8.25**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
11.	ARP-4718	Studies and use of selective metabolites extracted from the rhizosphere and phylloplane bacteria in control of *Am*CPV infecting the tropical tasar silkworm.	Oct. 2016	Sept. 2019	Extraction of secondary metabolites.	Extraction of secondary metabolites	1. Extraction of secondary metabolites. 2. Purification of viral polyhedra. 3. *In vivo* inhibition studies.	*In vivo* inhibition studies.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	2.00	Rotary evaporator with CVT (Constant voltage transformer)	8.00	10.00
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.50	Digital pH meter	0.30	0.80
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.10	-	-	0.10
E.	Outsourcing	1.00	-	-	1.00
	Total	**3.60**	**-**	**8.30**	**11.90**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
12.	CYR-4722	Development of ecorace specific package for production of quality tasar yarns	Oct. 2016	Sept. 2019	1. Standardization of crop / race-wise sorting, grading, stifling methods, storage condition, mono cocoon test & cocoon quality parameters. 2. Standardization of bulk reeling using productive wet and dry reeling machines. Tasar yarn from cocoons of each ecorace is to be tested.	1. Standardization of cooking recipe for cocoon of different ecorace considering economic feasibility for wet & dry reeling and optimized cooking methodology with fuel & chemicals device. 2. Standardization of reeling machines and process parameters keeping in view of the technical & economic viability based on silk recovery and quality.	Testing of produced yarn from Daba, Raily, Modal and Sukinda for winding, denier, strength, elongation, cohesion and uniformity/ evenness, *etc*. and analyses of results.	Standardization of post yarn techniques viz., re-reeling, lacing, skein and book making processes.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.25	Cohesion Tester	0.50	0.75
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	1.55	Cocoon Storage Cages /Racks	0.50	2.05
B.	1. Input Cost under Technology Transfer	-	Yarn and Fabric Storage Box	0.25	0.25
	2. Input cost under Technology Trial Programme	-	Cooking Vessels/ Devices / Pressure Cooker /Tools	0.25	0.25
C.	Seminar/Farmer's day/Vichar Gosthi	0.30	Platform Digital Balance (10-25 kg) and Balance (capacity 25 mg – 500 gm)	0.20 + 0.40	0.90
D.	Transport and travel under collaborative programme of work/projects	0.50	Laptop/desktop computer	0.45	0.95
	Total	**2.60**	**-**	**2.55**	**5.15**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
13.	CYF-7077	Grading of tasar raw silk yarn – Development of method and procedures	Feb. 2016	Jan. 2019.	Production of tasar yarn samples on different reeling machine.	Testing of tasar silk yarn samples for testing and grading.	Analysis of the data.	Fine tuning and standardization of the procedure.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.20	-	-	0.20
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	1.55	-	-	1.55
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.30	-	-	0.30
	Total	**2.05**	**-**	**-**	**2.05**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
14.	CED-4723	Studies on utilization of solar energy in tasar post cocoon technology operations	Aug. 2016	July 2019	Developing a solar operated cocoon stifling drying chamber.	Developing a solar cooker for tasar cocoons cooking / softening.	1. Developing a solar cooker for tasar cocoons cooking / softening. 2. Developing/ modifying existing reeling, re-reeling, winding doubling and twisting machines to be operated by solar energy.	Developing/modifying existing reeling, re-reeling, winding doubling and twisting machines to be operated by solar energy.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	2.00	Silk Technology Cell (Furniture & Fixtures)	1.50	3.50
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	1.00	Motorized Reeling Cum Twisting Machine (MRTM)	0.40	1.40
B.	1. Input Cost under Technology Transfer	-	Motorized Charkha	0.20	0.20
	2. Input cost under Technology Trial Programme	-	Vertical Reeling Machine	0.30	0.30
C.	Seminar/Farmer's day/Vichar Gosthi	-	Cocoon Cooking Device	0.50	0.50
D.	Transport and travel under collaborative programme of work/projects	1.00	Wet-Reeling Machine (Single Basin)	0.40	1.40
E.	Manpower	3.36*	Re-Reeling Machine	0.20	3.56
F.	Institutional Overhead Charges	1.00*	Wet Processing Machine (Degumming, Bleaching & Dyeing)	4.00	5.00
			Finishing Machine (Calendaring)	2.00	2.00
	Total	**8.36**	**-**	**9.50***	**17.86**

*Funds from Ministry of New & Renewable Energy (MNRE), Govt. of India, New Delhi.

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
15.	AIT-4724	Isolation and characterization of sericin from tasar silk waste for commercial utilization. [Funded by DBT]	Sept. 2016	Aug. 2018	Isolation of sericin from tasar silk waste.	characterization of sericin from tasar silk waste	Isolation of sericin from different ecoraces of tasar silkworm	Isolation of sericin from cocoons of different food plants of tasar silkworm

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand Total* (A+B)
A.	1. Chemicals/Glassware's required for project work	2.50	Defreeze (-20^{o}C)	1.77	4.27
	2. Miscellaneous items (Farm Consumable/ Stationery/Contingencies, *etc*.)	1.25	Vacuum pump with kit	0.62	1.37
B.	1. Input Cost under Technology Transfer	-	Normal Centrifuge	0.37	0.37
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.75	-	-	0.75
E.	Manpower	3.60			
	Total	**8.10**	**-**	**2.76**	**10.86***

*Funds from DBT, New Delhi.

At Nested Units

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
1.	ARP-4714	Identification of early sprouting and fast growing genotypes of *Quercus serrata* for raising block plantation in North-West India [RTRS, Bhimtal]	March 2016	Feb. 2020	1. Preparation of saplings through cutting obtained from the plants obtained from air layers. 2. Raising of clonal orchard/Seed orchard. 3. Bioassay on selected mother trees.	1. Preparation of saplings through cutting obtained from the plants obtained from air layers. 2. Raising of clonal orchard/Seed orchard. 3. Bioassay on selected mother trees.	1. Preparation of saplings through cutting obtained from the plants obtained from air layers. 2. Raising of clonal orchard /Seed orchard. 3. Bioassay on selected mother trees.	1. Preparation of saplings through cutting obtained from the plants obtained from air layers. 2. Raising of clonal orchard /Seed orchard. 3. Bioassay on selected mother trees.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.50	--	-	0.50
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	0.70	-	-	0.70
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	1.00	-	-	1.00
	Total	**2.20**	-		**2.20**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
2.	AIB-4706	Conservation of Andhra local ecorace *Antheraea mylitta* Drury through natural regeneration methods in Andhra Pradesh. [RTRS, Warangal]	April 2014	March 2019	Survey, collection and preservation of the cocoons of Andhra Local ecorace.	Processing of seed cocoons and preparation of dfls, adopting of different insect release methods in the core zone in 1st and 2nd crops to the tune of 1000 No. (cocoons/ dfls/Chawki worms), and collection of 14000 cocoons.	Processing of seed cocoons & preparation of dfls, adopting of different insect release methods in the core zone in 3rd crop to the tune of 400 No. (cocoons/ dfls/ Chawki worms), and collection of 6000 cocoons in core zone and 100 dfls in peripheral zone with collection of 1500 cocoons.	Survey, collection and preservation of wild & reared cocoons of Andhra Local ecorace.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	0.25	-	-	0.25
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	1.00	-	-	1.00
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	1.00	-	-	1.00
D.	Transport and travel under collaborative programme of work/projects	1.00	-	-	1.00
	Total	**3.25**	-	**-**	**3.25**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
3.	AIB-4709	Assessment of conservation status of tasar ecoraces in Odisha and their characterization including genetic diversity for delineation of conservation areas. [RTRS, Baripada]	Nov. 2015	Oct. 2018	Survey, collection of cocoons / larvae; Collection of geographical, food plants, soil, meteorological and behavioural data; preparation of physical map (Boudh, Gajapati)	Analysis for morphological and quantitative traits (cocoon, pupa, moth); PCT traits; genetic variability in the populations collected from different areas.	Repetition of survey in the above area for II (Autumn) crop generation and additional survey in Kalahandi, Phulbani, Khairpal, Sundergarh.	Survey, collection of cocoons; Collection of geographical, food plants, soil, meteorological and behavioural data, preparation of physical map (Nuapada, Nowrangpur).

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	-	GPS tool - 2 No.	0.50	0.50
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	1.50	Digital Camera (SLR) - 1 No.	0.35	1.85
B.	1. Input Cost under Technology Transfer	-	Electronic Balance - 1 No.	0.50	0.50
	2. Input cost under Technology Trial Programme	-	pH meter - 1 No.	0.35	0.35
C.	Seminar/Farmer's day/Vichar Gosthi	-	Soil Conductivity Meter - 1 No.	0.30	0.30
D.	Transport and travel under collaborative programme of work/projects	1.50	-	-	1.50
	Total	**3.00**	-	**2.00**	**5.00**

Annex-II

2.1.2. Projects continued through and to be concluded during 2017-18

At Main Institute

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
1.	AIP-4711	Screening of fast growing drought tolerant accessions of *Terminalia arjuna* for raising block plantation	March 2016	February 2018	Clonal propagation of selected accessions of *Terminalia arjuna* through cuttings.	Comparative study of growth behaviour of different accessions of *Terminalia arjuna* for drought tolerance.	Comparative study of growth behaviour of different accessions of *Terminalia arjuna* for drought tolerance.	Comparative study of growth behaviour of different accessions of *Terminalia arjuna* for drought tolerance.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	0.45	-	-	0.45
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	0.15	-	-	0.15
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.30	-	-	0.30
	Total	**0.90**	-	-	**0.90**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
2.	ARP-4713	Isolation of Thermo-tolerant line(s) of tasar Silkworm *Antheraea mylitta* Drury through molecular studies	March 2016	Feb. 2018	Procurement of Daba BV and Daba TV cocoons from different hotter places in Chhattisgarh, Odisha and Telangana and exposing them at 46^{o}C for 4 hrs.	First crop rearing and grainage behaviour studies for Daba BV &TV and molecular studies	Second crop rearing and grainage behaviour studies for Daba BV & TV and molecular studies	1. Third crop rearing and grainage behavior studies for Daba TV and molecular studies. 2. Compilation of package of practices & recommendation.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	3.30	SDS-PAGE system (mini gel dual type), along with power pack, transblot system and accessories (Two sets)	3.00	6.30
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.50	Table Top Cooling Centrifuge	2.50	3.00
B.	1. Input Cost under Technology Transfer	-	Environmental Chamber	3.00	3.00
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	-	-	-	-
	Total	**3.80**		**8.50**	**12.30**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
3.	ARP-4712	Development of chemical based technology for easy detection of *Nosema mylittansis*, the causative pathogen of Pebrine disease in tasar silkworm, *Antheraea mylitta D*. using light microscopy.	March 2016	Oct. 2017	1. *In vitro* study of chemicals for the removal/dissolution of unwanted particles. 2. Staining of collected samples in different stains.	1. Staining of collected samples in different stains. 2. Microscopic identification of different vegetative stages.	1. Microscopic identification of different vegetative stages. 2. Reconfirmation of salient observation in 1st crop	-

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.50	-	-	0.50
	2. Miscellaneous items (Farm Consumable/ Stationery/Contingencies, *etc*.)	0.70	-	-	0.70
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.50	-	-	0.50
	Total	**1.70**	-	**-**	**1.70**

<u>At Nested Units</u> – No projects concluded during 2016-17

Annex- III

2.1.3. New projects to be initiated during 2017-18

At Main Institute

Sl. No.	Code	Title	Start	Closure	Objectives	Expected outcome
1.	To be allotted	Development of superior hybrids of *Terminalia arjuna* and *Terminalia tomentosa* for high leaf yield and quality: Identification of hybrids by using molecular tools.	March 2017	Feb. 2019	1. To study mode of maternal and paternal inheritance of chloroplast DNA in developed cross hybrids of *T. arjuna* and *T. tomentosa* for authentic identification of hybrids. 2. To know the restriction fragment length polymorphism (RFLP) patterns of amplified cpDNA-PCR products of both parents and hybrids for authentic identification of hybrids. 3. To know the segregation of specific markers like RAPD, ISSR and SSR from their parents and developed cross hybrids (F1 generation) to know the original parents and their hybrids.	Identification of *Terminalia* cross hybrids from parents by using various molecular tools for their commercial exploitation.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	2.50	Vortex mixture	0.25	2.75
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.25	Micropipettes (0.2, 50, 100, 200, 1000 and 5000 µl)	1.00	1.25
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	0.50	-	-	0.50
	Total	**3.25**	**-**	**1.25**	**4.50**

Sl. No.	Code	Title	Start	Closure	Objectives	Expected outcome
2.	To be allotted	Development of package for optimum nutritional requirement of tasar host plants for producing quality tasar cocoons	June 2017	May 2020	1. To supply each plant with adequate nutrients in balanced proportion to ensure healthy vegetative growth and more nutritive leaves. 2. To refine and optimize the nutrient application package for soil health and cocoon quality which are ecologically safe, technically sound and economically feasible.	Effective nutrient recommendation can be developed for quality cocoon production.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.50	Portable Digital pH meter	1.00	1.50
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	0.65	Digital Camera	0.25	0.90
B.	1. Input Cost under Technology Transfer	-	Miscellaneous items - Soil auger & Measuring tape	0.10	0.10
	2. Input cost under Technology Trial Programme	-			
C.	Seminar/Farmer's day/Vichar Gosthi	-	Trolly	0.15	0.15
D.	Transport and travel under collaborative programme of work/projects	1.00	-	-	1.00
	Total	**2.15**	**-**	**1.50**	**3.65**

Sl. No.	Code	Title	Start	Closure	Objectives	Expected outcome
3.	To be allotted	Identification and ecofriendly management of nematode parasites infecting tropical tasar silkworm, *Antheraea mylitta* D.	June 2017	May 2019	1. To survey and identification of parasitic nematodes infecting tasar silkworms. 2. To develop eco-friendly management technologies against the nematodes infecting tasar silkworms.	The proposed research project will help in understanding the nematodes identification based on the morphology. The study will also help in identifying the potential bio-agents or other compounds which is having nematicidal and nematostatic property. These bio-agents will be utilized for effective management of nematodes infecting tasar silkworms. The integrated management schedule will help in the eco-friendly management of nematode infecting tasar silkworm under field conditions.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	0.50	Microscope	1.00	1.50
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	1.00	-		1.00
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/ projects	1.00	-	-	1.00
	Total	**2.50**	**-**	**1.00**	**3.50**

At Nested Units

Sl. No.	Code	Title	Start	Closure	Objectives	Expected outcome
1.	To be allotted	Development of diagnostic tool for early detection of baculovirus causing tiger band disease in *Antheraea proylei*. (RTRS, Imphal) [Collaborative project with SBRL, Bengaluru - Funded by DBT, New Delhi]	Feb. 2017	Jan. 2020	1. To characterize the baculovirus pathogen causing tiger band disease in oak tasar silkworm, *Antheraea proylei* 2. To study the pathogenesis, source and mode of transmission of the viral pathogen. 3. Validation of developed diagnostic tools in Oak tasar Grainages and egg production centres.	The proposed study will give a clear picture of etiology, pathogenesis, mode of transmission and will provide precise & reliable diagnostic tool for early detection of baculovirus causing tiger band disease in oak tasar silkworm, *Antheraea proylei*. Based on the investigation, strategies can be devised for interrupting the life cycle of the pathogen to reduce the disease spread.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.30	- 30°C freezer	4.50	4.80
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	2.50	High Speed Refrigerated Centrifuge	6.00	8.50
B.	1. Input Cost under Technology Transfer	-			
	2. Input cost under Technology Trial Programme	-	Pippetteman set & Pipette aid	0.70	0.70
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	1.00	-	-	1.00
E.	Manpower	1.68			1.68
	Total	**5.48**	**-**	**11.20**	**16.68***

*Funded by DBT, New Delhi.

Sl. No.	Code	Title	Start	Closure	Objectives	Expected outcome
2.	To be allotted	Bio-ecology, economic injury level and management of insect pests infesting oak ecosystem	June 2017	May 2020	1. To study the population dynamics and biology of major insect pests infesting oak tasar silkworm and oak plant. 2. To determine the EIL of major insect pests infesting oak silkworm and major insect pests. 3. To develop integrated pest management practices for major insect pests infesting oak tasar silkworm and oak plant.	1. Proper documentation of insect pests infesting oak ecosystem. 2. Development of improved management strategies for controlling the insect pests infesting oak ecosystem.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	1.00	Microscope (Olympus-TG-3)	2.00	3.00
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	0.50	Handycam	0.35	0.85
B.	1. Input Cost under Technology Transfer		GPS Tool	0.50	0.50
	2. Input cost under Technology Trial Programme		Dessicator	1.00	1.00
C.	Seminar/Farmer's day/Vichar Gosthi		Insect Showcase Cabinet	1.20	1.20
D.	Transport and travel under collaborative programme of work/projects	1.50	-	-	1.50
	Total	**3.00**	**-**	**5.05**	**8.05**

Annex- IV

2.1.4. Pilot Studies / Programme of work of earlier year to be continued during 2017-18

At Main Institute

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV QTR
1.	CTR&TI/HPP / POW-02	Farm Management and Developmental works	2008-09	Continuous	Regular Work (Development & maintenance of CTR&TI Farm/ Campus.	Regular Work (Development & maintenance of CTR&TI Farm/ Campus.	Regular Work (Development & maintenance of CTR&TI Farm/ Campus.	Regular Work (Development & maintenance of CTR&TI Farm/ Campus.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	-	Mini Tractor with accessories	5.00	5.00
	2. Miscellaneous items (Farm Consumable/Stationery/Contingencies, *etc*.)	4.00	Farm Equipments (Weed cutter with tree pruner, Sintax Tanks/Gator sprayer/Knapsack sprayer)	2.00	6.00
B.	1. Input Cost under Technology Transfer	-		-	-
	2. Input cost under Technology Trial Programme	-		-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	-	-	-	-
	Total	**4.00**	**-**	**7.00**	**11.00**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
2.	CTR&TI/SWP/ POW-16	Fine tuning and continual evaluation of tasar silkworm rearing on semi-synthetic diet (*Tasar Amrit*)	April 2015	Continuous	Preparatory arrangement for preparation of Diet.	Popularization of semi-synthetic diet (*Tasar Amrit*) for young age tasar silkworm rearing at farmers' level in Odisha, Maharashtra, Chhattisgarh and West Bengal.		Data compilation

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	2.50	-	-	2.50
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.20	-	-	0.20
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	0.30	-	-	0.30
D.	Transport and travel under collaborative programme of work/projects	0.60	-	-	0.60
	Total	**3.60**	**-**	**-**	**3.60**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
3.	CTR&TI/SWPT / POW-08	Application of disease management module (At CTR&TI field).	2010-11	Continuous	Pre-rearing application of different disinfect-tants (dusting & spraying of bleaching powder, slaked lime, *etc*.) and flame gunning in rearing fields at Institute's Farm.	1. Application of different disin-fections in rearing fields at Institute's Farm. 2. Sample testing of different larval stages, pupae and moths of different sections for 1st grainage & rearing.	1. Application of different disin-fections at rearing fields in Institute's Farm. 2. Sample testing of different larval stages, pupae and moths of different sections for 2nd grainage & rearing.	Post rearing application of different disinfect-tants (dusting & spraying of bleaching powder, slaked lime, *etc*.) in rearing fields at Institute's Farm.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.60	1. Sprayer/ Weed Cutter	1.50	2.10
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.75	-	-	0.75
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	-	-	-	-
	Total	**1.35**	-	**1.50**	**2.85**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
4.	CTR&TI/SWPT/ POW-09	Laboratory production and supply of Leaf surface microbe (LSM).	2002-03	Continuous	Production of leaf surface microbes and supply of ampoules to nested units of CTR&TI, Ranchi and DOSs & other agencies as per demand.	Production of leaf surface microbes and supply of ampoules to nested units of CTR&TI, Ranchi and DOSs & other agencies as per demand.	Production of leaf surface microbes and supply of ampoules to nested units of CTR&TI, Ranchi and DOSs & other agencies as per demand.	Procurement of chemicals required for the large scale production of leaf surface microbes (LSM).

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	Tentative cost*	Items (Equipments, furniture, *etc*.)	Tentative cost*	Grand total* (A+B)
A.	1. Chemicals/Glassware's required for project work	0.30	-	-	0.30
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.10	-	-	0.10
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	-	-	-	-
D.	Transport and travel under collaborative programme of work/projects	-	-	-	-
	Total	**0.40**	-	-	**0.40**

Sl. No.	Code	Title	Start	Closure	Milestone to be crossed			
					I Qtr	II Qtr	III Qtr	IV Qtr
5.	CTR&TI/SWPT / POW-17	Tasar silkworm disease management and monitoring system.	2013-14	Continuous	1. Assessment of silkworm diseases in the egg, larval & pupal stage in BSMTCs, State PPCs and nested Units of the Institute. 2. Conducting of Awareness Programmes on disease management in MKSP project area in different States.	1. Assessment of silkworm diseases in the egg, larval & pupal stage in BSMTCs, State PPCs and nested Units of the Institute. 2. Conducting of Awareness Programmes on disease management in MKSP project area in different States.	1. Assessment of silkworm diseases in the egg, larval & pupal stage in BSMTCs, State PPCs and nested Units of the Institute. 2. Conducting of Awareness Programmes on disease management in MKSP project area in different States.	1. Assessment of silkworm diseases in the egg, larval & pupal stage in BSMTCs, State PPCs and nested Units of the Institute. 2. Conducting of Awareness Programmes on disease management in MKSP project area in different States.

BUDGET DETAILS FOR THE YEAR 2017-18 (Rs. in Lakh)*****

#	A. Recurring		B. Non-Recurring		
	Operational Cost		Fixed cost		
	Particulars	**Tentative cost***	**Items** (Equipments, furniture, *etc*.)	**Tentative cost***	**Grand total* (A+B)**
A.	1. Chemicals/Glassware's required for project work	-	-	-	-
	2. Miscellaneous items (Farm Consumable/ Stationery/ Contingencies, *etc*.)	0.50	-	-	0.50
B.	1. Input Cost under Technology Transfer	-	-	-	-
	2. Input cost under Technology Trial Programme	-	-	-	-
C.	Seminar/Farmer's day/Vichar Gosthi	2.50	-	-	2.50
D.	Transport and travel under collaborative programme of work/projects	2.00	-	-	2.00
	Total	**5.00**	-	-	**5.00**