

ANNEXURE - II

COLLABORATIVE PROJECTS WITH TEA RESEARCH ASSOCIATION: PROJECT -II A STUDY ON THE EVALUATION OF THE EFFECT OF CONKAR SUPER AGAINST TEA LOPPERS AND SUKOMI + AGAINST SUCKING PESTS

Phase I (0 - 12 months): May 2017 – April 2018

Objectives

1. Evaluation of a bio-formulation developed by GRV for the management of tea loopers & sucking pests in tea .

Methodology/Experimental Design to Accomplish the Stated Objective: The parameters to be tested include:

- a. Dosage determination – on artificial diet/ host leaves
- b. Bio-efficacy on different pests
- c. Micro-plot field testing

2. Mass multiplication of *H. talaca* under lab conditions

Methodology/Experimental Design to Accomplish the Stated Objective:

Collection of *H. talaca* from disease/parasitoid free samples will be collected and their mass rearing will be maintained under laboratory conditions.

3. Evaluation of a bio-formulation

Methodology/Experimental Design to Accomplish the Stated Objective: Following standard protocol the above mentioned laboratory/micro-plot/large scale field trials would be carried out

Division of work Phase I – Objectives 1 – 3 to be carried out by TRA under Dr. A. Babu.

Phase II (13 - 24 months): May 2018 – April 2019

Objectives

1. Phototoxicity testing
2. Tainting test (Tea leaves flavour)
3. Large scale field trials – Season I for the Project I
4. CIB requirement (IMO certification)
5. **Residue trials – To be done after completion of the work which will be charged extra.**

Division of work phase II - Objectives 1 and 5 to be carried out by TRA, Nagrakata by Dr. A. Babu and his team



ANNEXURE -III

Budget Requirements for Project I & II

S. No.	Manpower	Year (1)	Year (2)	Cost (In Lakhs)
1.	One Junior Research Fellow @ Rs 21,000/- + 10% HRA /- (Rs. 23,100) If (M.Sc) or Two Project assistants@ Rs 11,550	2,77,200	2,77,200	5,54,400
	Total	2,77,200	2,77,200	5,54,400

*Manpower for M.Sc (@Rs. 21000 plus 10% HRA (2100) = Rs. 23100/ month. For B.Sc candidates (2), a sum of Rs 11,550 (consolidated) each

S. No.	Item	Year(1)	Year (2)	Cost Total
1.	Consumables (chemicals & Glasswares)	1,50,000	1,50,000	2,00,000
2.	Travel	75,000	75,000	1,50,000
3.	Contingency & Miscellaneous	75,000	75,000	1,50,000
	Total (Recurring)	3,00,000	3,00,000	6,00,000
	Grand Total	5,77,000	5,77,000	11,54,400

Payment could be made on quarterly basis ($@1,44,250 \times 4$) = 5,77,000 for First year

($@1,44,250 \times 4$) = 5, 77,000 for II year

Justification:

Junior Research Fellows-	for laboratory works and maintaining the insect culture and for carrying out the bioassays in <i>vitro/in vivo</i>
Travel	for collection of insects from different areas and also for conducting field trials
Chemicals	for preparation of artificial diet for looper/Biochemical profiling of made tea.
glassware/Insect cages/ plastic containers (autoclavable)	For rearing of loopers in disease free condition and also for culturing of other insects. Glasswares needed for the biochemical analysis