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Administrative
(Application No: AGRI/2015/58)

File No. BT/PR16724/NER/95/265/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER BPMC)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 31 / 1 / 2017

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "**Development of molecular markers for identification of leafhopper subfamily Deltocephalinae (Hemiptera: Cicadellidae)**" by Dr G. T. Behere, ICAR Research Complex for NEH Region, Umiam, Meghalaya and Dr. Naresh M. Meshram, Indian Agricultural Research Institute, New Delhi at a total cost of ₹ 46.69 Lakhs (Rupees Forty Six Lakhs and Sixty Nine Thousand Only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Development of molecular markers for identification of leafhopper subfamily Deltocephalinae (Hemiptera: Cicadellidae)

2.2 Project Investigators

2.2.1 Principal Investigator:
(Parent Institute)

Dr G. T. Behere
Senior Scientist
Division of Entomology
ICAR Research Complex for NEH Region,
Umroi Road, Umiam, Meghalaya-793103

2.2.2 Co-Investigators:
(Parent Institute)

Dr. Dnyaneshwar Madhukar Firake
Scientist
Division of Entomology
ICAR Research Complex for NEH Region,
Umroi Road, Umiam, Meghalaya-793103

2.2.4 Principal Investigator:
(Collaborating Institute)

Dr. Naresh M. Meshram
Scientist
Department of Entomology,
Indian Agricultural Research Institute,
Pusa Campus, New Delhi-110012

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**2.2.5 Co-Investigators:
(Collaborating Institute)**

Dr. Shashank P. R.
Scientist
Department of Entomology,
Indian Agricultural Research Institute,
Pusa Campus, New Delhi-110012

2.3 Objectives:

1. Survey and collection of agriculturally important deltocephalines from different geographic locations in North-East India. Focus will be the Meghalaya, Sikkim, Mizoram, Tripura and Arunachal Pradesh.
2. To Biosystematic studies involving identification, morphological characterization and documentation of collected deltocephalines leafhopper.
3. Development of molecular markers/tools using integrative characterization (traditional and molecular).
4. To established the evolutionary or phylogenetic relationship between various genus and species of deltocephalines leafhopper using integrative taxonomy.
5. Development of bioinformatics tools and inventories of Indian deltocephalines leafhopper

2.4 Time Schedule:

The duration of the project is **Three Years** from the date of issue of sanction order.

2.5 Equipment Details:

2.5.1 ICAR Research Complex for NEH Region, Umiam, Meghalaya

Sl. No.	Description of equipment	Grant Recommended (₹ in lakhs)
1	Digital SLR Camera	0.50
2	Nanodrop	3.00
Total		3.50

2.5.2 Indian Agricultural Research Institute, New Delhi
NIL

2.6 Manpower:

Fellowship Conditions:

A year wise detail of manpower as proposed has been furnished below. HRA will be as per the Govt. Norms, an indication as stated below for the JRF and SRF's emoluments will be provided as a part of sanction order. JRF shall be ₹ 25,000/- + HRA for the 1st two years and ₹ 28,000/- + HRA for the 3rd year for SRF and applicable, (JRF - Post graduate Degree in Basic Science with NET qualification or graduate degree in Professional course with NET qualification or post graduate degree in professional course) JRF without NET qualification shall be ₹ 12,000/- + HRA for the 1st two years and ₹ 14,000/- + HRA for the 3rd year for SRF.

- For JRF/SRF/RA salary is as per the revised DST OM SR/S9/Z-09/2012, dated October 21, 2014.
- For Project Assistant salary is as per the revised DST OM C.30011/1/2007-IFD, dated 21st July 2008

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