

**No. BT/PR17852/BIC/101/1003/2016**

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated:19.12.2017

**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 entitled "**Molecular taxonomy and systematics of Trigonella and Melilotus (Fabaceae) germplasm resources**" for a period of 3 Year 0 Month at a total cost of Rs. **3509007** (Rupees Thirty Five Lakhs Nine Thousand and Seven Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title : Molecular taxonomy and systematics of Trigonella and Melilotus (Fabaceae) germplasm resources**

**2.2 Details of the Investigators:**

**Dr. Rakhee Shyam Dangi**

Department of Cell and Molecular  
Biology  
Rajiv Gandhi Institute of  
Information technology and  
Biotechnology, Pune, Maharashtra,  
411046

**CO-PI:**

**Dr. Suryaprakasa Rao**

Visiting Faculty  
Department of Biology  
Indian Institute of Science Education and  
Research (IISER), Pune - 411008, Maharashtra

**Dr. Madhukar B Khetmalas**

Professor,  
Department of Biotechnology  
Rajiv Gandhi Institute of Information Technology and Biotechnology, Pune

### 2.3 Objectives:

1. To resolve the taxonomy of species belonging to the T. emodi complex using molecular data.
2. To infer the interrelationships among Trigonella species belonging to section Falcatulae, Ellipticae and Foenum-graecum
3. To develop a species-level phylogeny for Melilotus utilizing molecular, cytological and morphological data sets to identify major lineages.
4. Writing of monograph

### 2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

### 2.5 Project Cost:

The total cost of the project is Rs. **3509007/-** (Rupees Thirty Five Lakhs Nine Thousand and Seven Only) as per details given below:

Budget Head	Year I	Year II	Year III	Total (Rs.)
Equipment	907207.00			<b>907207.00</b>
Manpower	510000.00	510000.00	556800.00	<b>1576800.00</b>
Contingency	25000.00	25000.00	25000.00	<b>75000.00</b>
Travel	75000.00	50000.00	25000.00	<b>150000.00</b>
Consumables	300000.00	300000.00	200000.00	<b>800000.00</b>
<b>Total (Rs.)</b>	<b>1817207.00</b>	<b>885000.00</b>	<b>806800.00</b>	<b>3509007.00</b>

### 2.6 Equipment

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

### 2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

### 3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
<b>3425</b>	Other Scientific Research 2017-2018
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
<b>3425.60.200.29.17</b>	Assistance for Research and Development
<b>3425.60.200.29.17.35</b>	Grants for creation of capital assets

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