

157,158

Administrative  
App. No. ENV/2017/38

No. BT/PR25530/NER/95/1239/2017  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
(NER-BPMC)

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 01/10/2019

**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 "**Diversity of white rot fungal laccase enzyme in Northeast India**" for a period of 3 Year 0 Month at a total cost of **Rs. 8350180** (Rupees Eighty Three Lakhs Fifty Thousand One Hundred and Eighty Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title : Diversity of white rot fungal laccase enzyme in Northeast India**

**2.2 Details of the Investigators:**

**Project Coordinator:**

**Prof. Rajiv Kumar Singh**  
Professor  
Department of Botany  
Rajiv Gandhi University  
Rono Hills, Doimukh  
Itanagar, Arunachal Pradesh, 791112

**Principal Investigators:**

**Prof. Rajiv Kumar Singh**  
Professor  
Department of Botany  
Rajiv Gandhi University  
Rono Hills, Doimukh  
Itanagar, Arunachal Pradesh, 791112

**Dr. Jitendra Kumar Saini**  
Assistant Professor  
Department of Microbiology,  
Central University of Haryana,  
Jant-Pall, Mahendergarh, Narnaul,  
Haryana, 123031

**CO-PI:**

**Dr. Tenya Rina**  
Assistant Professor  
Department of Botany  
Rajiv Gandhi University  
Rono Hills, Doimukh,  
Itanagar - 791112, Arunachal Pradesh

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*Vaishali*

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श्री. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
पदविका 'E' / Scientist 'E'  
बायोटेक्नॉलॉजी विभाग / Dept. of Biotechnology  
आयुष्य और जोखिम, नई दिल्ली / Mo. Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Dr. Surender Singh**  
Associate Professor  
Department of Microbiology,  
Central University of Haryana, Mahendergarh,  
Narnaul - 123031, Haryana

### 2.3 Objectives:

#### Overall Objectives:

1. To screen and select extracellular laccase producing white rot fungi isolated from different forest types of Northeast India.
2. To identify and characterize selected hyper laccase producing white rot fungi.
3. To optimize the laccase production and characterize the purified laccases of selected fungi.

### 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. 8350180/-** (Rupees Eighty Three Lakhs Fifty Thousand One Hundred and Eighty Only) as per details given below:

Institute	Year I	Year II	Year III	Total Cost (Rs.)
1. Central University of Haryana	1784760	741760	783600	3310120
2. Rajiv Gandhi University	2841820	1119120	1079120	5040060
<b>Total (Rs.)</b>	<b>4626580</b>	<b>1860880</b>	<b>1862720</b>	<b>8350180</b>

*Vaishali*

डॉ. वैशाली पंचायती / Dr. VAISHALI PANCHAYATI  
वैज्ञानिक 'B' / Scientist 'B'  
आण्विक-पदार्थों विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी संसदान / Uo Science & Tech.  
भारत संसदान, नई दिल्ली / Govt. of India, N. Delhi

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
<b>1. Rajiv Gandhi University</b>				
Equipment	1652700.00			1652700.00
Manpower	729120.00	729120.00	729120.00	2187360.00
Overhead	50000.00	50000.00	50000.00	150000.00
Travel	60000.00	40000.00	50000.00	150000.00
Consumables	300000.00	250000.00	200000.00	750000.00
Contingency	50000.00	50000.00	50000.00	150000.00
<b>Total (Rs.)</b>	<b>2841820.00</b>	<b>1119120.00</b>	<b>1079120.00</b>	<b>5040060.00</b>
<b>2. Central University of Haryana</b>				
Equipment	943000.00			943000.00
Manpower	401760.00	401760.00	453600.00	1257120.00
Overhead	50000.00	50000.00	45000.00	145000.00
Travel	40000.00	40000.00	35000.00	115000.00
Consumables	300000.00	200000.00	200000.00	700000.00
Contingency	50000.00	50000.00	50000.00	150000.00
<b>Total (Rs.)</b>	<b>1784760.00</b>	<b>741760.00</b>	<b>783600.00</b>	<b>3310120.00</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:

<b>Demand No. 87</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2019-2020
<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
<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

The Recurring expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -In-Aid General

#### 4. Terms & Conditions:

Additional Terms and Conditions, specific for Twinning R&D program for NER:

- Both NER and Rest of India (RoI), Institutions scientists should work together for the objectives stated in the sanction of the project and any deviation from this would attract closure of the project at any point of time.
- In the project review meetings, both the PIs from NER and RoI Institutions should participate and make presentation.
- The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.
- The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.
- The project personal such as Research Associate, JRF or SRF, Research Assistant are also to be trained at least once in the collaborating national institute.
- The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.
- The Non-Recurring items must be procured and installed within 18-months of the sanction of the project, failing which the PIs have to return the remaining/unutilized Non Recurring grant with 10% of Interest.
- In case the amount of grant-in-aid is refunded, the whole or a part amount of the grant, with an interest at 10% per annum there on shall be recovered.

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

4.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in Annexure-IV

4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning Interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

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डॉ. वीशाली पंजाबी / Dr. WASHALI PANJABI  
वैज्ञानिक 'B' / Scientist B  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, पंजाब / Mo Science & Tech.  
संस्कृत संस्थान, नई दिल्ली / Govt. of India, N. Delhi

5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Registrar, Central University of Haryana, Mahendergarh, Haryana and The Registrar, Rajiv Gandhi University, Itanagar, Arunachal Pradesh would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.
7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-08/2018 dated 30 Jan 2019. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.
9. If the Research Project Involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at [www.nbaindia.org](http://www.nbaindia.org)
10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clearance, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project Investigator(s) and Host Institution(s) shall compulsory comply the same before undertaking such activities.
11. This Issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/2310/2019-2020 dated September, 30 2019**
12. This sanction order has been noted at serial no. 157,158 in the Register of Grants.

*Vaishali*

**(Dr. Vaishali Panjabi)**  
**Scientist 'E'**

**To,**

The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi – 110 003.

सौ. वैशाली पंजानी / Dr. VAISHALI PANJABI  
श्रेणी 'E' / Scientist 'E'  
आरोग्यविज्ञान विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी विभाग / Min. Science & Tech.  
राज्य सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Prof. Rajiv Kumar Singh (Project Co-ordinator), Professor, Department Of Botany, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar 791112, Arunachal Pradesh
- 3 The Registrar, Central University of Haryana, Jant-Pali Village, Mahendergarh District, Pali, Haryana 123029, Narnaul - 123029, Haryana
- 4 The Registrar, Rajiv Gandhi University, Doimukh, Rono Hills, Itanagar - 791112, Arunachal Pradesh
- 5 Prof. Rajiv Kumar Singh, Professor, Department Of Botany, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar - 791112, Arunachal Pradesh
- 6 Dr. Jitendra Kumar Saini, Assistant Professor, Department of Microbiology, Central University of Haryana, Jant-Pali, Mahendergarh, Haryana, Narnaul - 123031, Haryana
- 7 Dr. Surender Singh, Associate Professor, Department of Microbiology, Central University of Haryana, Mahendergarh, Narnaul - 123031, Haryana
- 8 Dr. Tenya Rina, Assistant Professor, Department of Botany, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar, Arunachal Pradesh
- 9 Cash Section, DBT (2 copies).
- 10 Sanction Folder.
- 11 File Copy.

*Vaishali*  
**(Dr. Vaishali Panjabi)**  
**Scientist 'E'**

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सहसंचालक/सहायक निदेशक / Dep. of Microbiology  
विज्ञान और प्रौद्योगिकी, पंजाबराज्य / Haryana  
संसाधन विभाग / Dept. of Science & Tech.  
एन.डी.ए.ए.ए., नई दिल्ली / Govt. of India, N. Delhi

## Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled "Diversity of white rot fungal laccase enzyme in Northeast India":

<b>Rajiv Gandhi University</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Water bath (Stirred)	1	52395.00
2.	BOD Incubator	1	268695.00
3.	Freeze dryer (Lyophilizer)	1	1149750.00
4.	Peristaltic pump with tubing	1	124110.00
5.	Liquid Nitrogen Container	1	57750.00
<b>Total</b>			<b>1652700.00</b>
<b>Central University of Haryana</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Protein purification system	1	800000.00
2.	Analytical weighing balance	1	47500.00
3.	Deep Freezer (-20 °C)	1	95500.00
<b>Total</b>			<b>943000.00</b>



**(Dr. Vaishali Panjabi)**  
**Scientist 'E'**

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
 विज्ञानिक 'ई' / Scientist 'E'  
 सूक्ष्मजीव-वैज्ञानिक विभाग / Dept. of Microbiology  
 विज्ञान और प्रौद्योगिकी, पंजाबराज्य / M.Sc. Science & Tech.  
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

## Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled "Diversity of white rot fungal laccase enzyme in Northeast India":

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
<b>1. Central University of Haryana</b>					
Junior Research Fellow (JRF @ Rs. 31,000/- + 8 % HRA p.m. for the 1st & 2nd yr SRF @ Rs. 35,000/- + 8 % HRA p.m. for 3rd yr)	1	401760	401760	453600	1257120
<b>Total(Rs.)</b>		<b>401760</b>	<b>401760</b>	<b>453600</b>	<b>1257120</b>
<b>2. Rajiv Gandhi University</b>					
Lab cum Field Attendant (@ Rs 10,000/- per month consolidated)	1	120000	120000	120000	360000
Research Associate (@ Rs 47000/- + 8 % HRA p.m.)	1	609120	609120	609120	1827360
<b>Total(Rs.)</b>		<b>729120</b>	<b>729120</b>	<b>729120</b>	<b>2187360</b>

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST OM No. SR/S9/Z-08/2018 dated 30.01.2019 for JRF/SRF/RA and OM No. SR/S9/Z-05/2019 dated 21.08.2019 for all other categories.

*Vaishali*  
(Dr. Vaishali Panjabi)  
Scientist 'E'

डॉ. विशाली पंजाबी / Dr. VAISHALI PANJABI  
श्रेणी 'ई' / Scientist 'E'  
आयुर्वेद-प्रौद्योगिकी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, मंत्रालय / Min. Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi