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Agri/2017/147  
Administrative

**No. BT/PR25758/NER/95/1300/2017**  
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: 03 /12/2020

**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: **"Functional characterization of the regulatory genes involved in pungency in Capsicum sp."** for a period of 3 Year 0 Month at a total cost of Rs. **11044196** (Rupees One Crores Ten Lakhs Fourty Four Thousand One Hundred and Ninety Six Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "Functional characterization of the regulatory genes involved in pungency in Capsicum sp."

**Details of the Investigators:**

**2.2**

**Project Cordinator**

**Dr. Pranjan Barman**

Assistant Professor

Biotechnology

Gauhati University

Department of Biotechnology, Gauhati University, Guwahati,  
Assam, 781014

**Principal Investigators:**

*Vaughali*

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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

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Gauhati University  
Department of Biotechnology,  
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**Dr. Chethan D J**

Assistant Professor  
Dept. of Microbiology &  
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**Dr. Giridhar Parvatam**

Principal Scientist  
Plant Cell Biotechnology  
CENTRAL FOOD  
TECHNOLOGICAL RESEARCH  
INSTITUTE, MYSORE

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**CO-PI:**

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## 2.3 Objectives:

### Overall Objectives:

1. Expression analysis of transcription factor genes CaMYB31, erf and Jerf using qRT-PCR in placental tissue of fruits of Capsicum genotypes of North Eastern states in India at different developmental stages (10, 20, 30, 40, 50 and 60 DPA)
2. Cloning of full length genes encoding Capsicum annum R2R3-MYB transcription factor 31 (CaMYB31) gene (Accession No: MF062086), Jasmonate and ethylene responsive factor (Jerf- Accession Number: KF169943) and ethylene-responsive factor-like protein (Erf-Accession Number: KF060657) and its ectopic over expression into north eastern variety of Capsicum sp.
3. Whole Transcriptome analysis in the wild type and its comparison with the knockdown transgenic plants
4. Analysis for transcript profiling - RNA seq data
5. Molecular and phytochemical analysis of over expressed transgenic plants
6. Compilation of completion report and research paper writing
7. Expression analysis of CaMYB31, Erf and Jerf in Capsicum sp. under controlled climatic conditions in vitro (light and temperature)
8. Phytochemical analysis of the wild type and transgenic plants in treated plants and preparation of report
9. Generation of double stranded RNAi construct for CaMYB31, Erf and Jerf genes
10. Studies on Regulation of CaMYB31, Erf and Jerf gene in Capsicum sp through gene silencing, Generation of knock down transgenic plants
11. Validation of regulated expressed transgenic plants – Molecular and phytochemical analysis and preparation of report
12. Cloning of CaMYB31, Erf and Jerf genes into E. coli protein expression vectors
13. Using the expressed and purified protein of CaMYB31, ERF and JERF, generate antibodies and analyse it for detecting the in-situ expressed protein.
14. Expression of erf and Jerf into pGAL vectors for analysing specific functional association.
15. Analysis of the functional interaction and the roles of CaMYB31, ERF and JERF and preparation of report

### Institute wise Objectives:

#### CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE

1. Expression analysis of CaMYB31, Erf and Jerf in Capsicum sp. under controlled climatic conditions in vitro (light and temperature)
2. Phytochemical analysis of the wild type and transgenic plants in treated plants and preparation of report

#### Gauhati University

1. Expression analysis of transcription factor genes MYB, erf and Jerf using qRT-PCR in placental tissue of fruits of Capsicum sp of North Eastern states in India at different developmental stages (10, 20, 30, 40, 50 and 60 DPA)
2. Cloning of full length genes encoding Capsicum annum R2R3-MYB transcription factor 31 (CaMYB31) gene (Accession No: MF062086), Jasmonate and ethylene responsive factor (Jerf- Accession Number: KF169943) and ethylene-responsive factor-like protein (Erf-Accession

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Number: KF060657) and its ectopic over expression into north eastern variety of Capsicum sp.

3. Whole Transcriptome analysis in the wild type and its comparison with the knockdown transgenic plants.
4. Analysis for transcript profiling - RNA seq data
5. Molecular and phytochemical analysis of over expressed transgenic plants
6. Compilation of completion report and research paper writing

#### **Karnatak University Dharwad**

1. Cloning of CaMYB31, Erf and Jerf genes into E. coli protein expression vectors
2. Using the expressed and purified protein of CaMYB31, ERF and JERF, generate antibodies and analyse it for detecting the in-situ expressed protein
3. Expression of erf and Jerf into pGAL vectors for analysing specific functional association.
4. Analysis of the functional interaction and the roles of CaMYB31, ERF and JERF and preparation of report

#### **R.V. College of Engineering**

1. Generation of double stranded RNAi construct for CaMYB31, Erf and Jerf genes
2. Regulation of CaMYB31, Erf and Jerf gene in Capsicum sp through gene silencing, Generation of knock down transgenic plants
3. Validation of regulated expressed transgenic plants – Molecular and phytochemical analysis and preparation of report

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## 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. **11044196/-** (Rupees One Crores Ten Lakhs Fourty Four Thousand One Hundred and Ninety Six Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE	1378400	378400	378400	<b>2135200</b>
2. Gauhati University	3482000	1822000	1176996	<b>6480996</b>
3. Karnatak University Dharwad	553400	353400	328400	<b>1235200</b>
4. R.V. College of Engineering	397600	397600	397600	<b>1192800</b>
<b>Total (Rs.)</b>	<b>5811400</b>	<b>2951400</b>	<b>2281396</b>	<b>11044196</b>

### Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
<b>1. Gauhati University</b>				
Equipment	2450000.00			<b>2450000.00</b>
Manpower	432000.00	432000.00	486996.00	<b>1350996.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Travel	40000.00	30000.00	30000.00	<b>100000.00</b>
Consumables	500000.00	1300000.00	600000.00	<b>2400000.00</b>
Contingency	10000.00	10000.00	10000.00	<b>30000.00</b>
<b>Total (Rs.)</b>	<b>3482000.00</b>	<b>1822000.00</b>	<b>1176996.00</b>	<b>6480996.00</b>
<b>2. CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE</b>				
Equipment	1000000.00			<b>1000000.00</b>
Manpower	278400.00	278400.00	278400.00	<b>835200.00</b>
Consumables	100000.00	100000.00	100000.00	<b>300000.00</b>
<b>Total (Rs.)</b>	<b>1378400.00</b>	<b>378400.00</b>	<b>378400.00</b>	<b>2135200.00</b>
<b>3. Karnatak University Dharwad</b>				
Equipment	200000.00			<b>200000.00</b>
Manpower	278400.00	278400.00	278400.00	<b>835200.00</b>
Consumables	75000.00	75000.00	50000.00	<b>200000.00</b>
<b>Total (Rs.)</b>	<b>553400.00</b>	<b>353400.00</b>	<b>328400.00</b>	<b>1235200.00</b>
<b>4. R.V. College of Engineering</b>				
Manpower	297600.00	297600.00	297600.00	<b>892800.00</b>
Consumables	100000.00	100000.00	100000.00	<b>300000.00</b>
<b>Total (Rs.)</b>	<b>397600.00</b>	<b>397600.00</b>	<b>397600.00</b>	<b>1192800.00</b>

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### 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 debitible to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
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
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitible to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
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 and D program for NER a. 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.

b. In the project review meetings, both the PIs from NER and RoI Institutions should participate and make presentation.

c. The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.

d. The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.

e. 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.

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f. The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.

g. 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.

h. 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.

**4.2A** 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 Utilisation 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.

**5.** No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

**6.** The DIRECTOR, CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE, Mysore, Karnataka and The Principal, R.V. College of Engineering, Bangalore, Karnataka and The Registrar, Gauhati University, Guwahati, Assam and The Registrar, Karnatak University Dharwad, Dharwad, Karnataka 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-05/2019 dated on 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 Organisations 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 Organisation 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 compulsorily comply the same before undertaking such activities.

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11. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/1594/2020-2021** dated **December, 03 2020**.

12. This sanction order has been noted at serial no. 81-82 in the Register of Grants.

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(Dr. Vaishali Panjabi)  
Scientist 'E'

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

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Dr. PRANJAN BARMAN (Project Co-ordinator), Department of Biotechnology, Gauhati University, Gopinath Bordoloi Nagar, Guwahati, Assam, India PIN
- 3 The DIRECTOR, CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE, Central Food Technological Research Institute (CSIR-CFTRI).  
Address: The Director, Cheluvemba Manson, Central Food Technological Research Instit, Mysore - 570020, Karnataka
- 4 The Principal, R.V. College of Engineering, R.V. VIDYANIKETAN POST, Bangalore - 560059, Karnataka
- 5 The Registrar, Gauhati University, Gopinath Bordoloi nagar,, Guwahati University, Guwahati - 781014, Assam
- 6 The Registrar, Karnatak University Dharwad, Pavatenagar, Dharwad - 580003, Karnataka
- 7 Dr. Ashwani Sharma, Assistant Professor, Biotechnology, R.V. College of Engineering, Department of Biotechnology R V College of Engineering, Mysore Road, Bengaluru, Bangalore - 560059, Karnataka
- 8 Dr. Bhaben Tanti, Professor, Department of Botany, Gauhati University, Gauhati University, Gopinath Bordoloi Nagar, Guwahati 781014, Guwahati Assam - 781014, Assam
- 9 Dr. Chethan D J, Assistant Professor, Dept. of Microbiology & Biotechnology, Karnatak University Dharwad, Dept. of Microbiology & Biotechnology Karnatak University,  
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- 10 Dr. Giridhar Parvatam, Principal Scientist, Plant Cell Biotechnology, CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE, Plant Cell Biotechnology, CSIR-Central Food Technological Research Institute Mysore, Mysore - 570020, Karnataka
- 11 Dr. Nagashree N Rao, Associate Professor, Biotechnology, R.V. College of Engineering, : R V College of Engineering, Mysore Road, Bengaluru, Bangalore - 560059, Karnataka
- 12 Dr. Nandini Prasad Shetty, Scientist, Plant Cell Biotechnology, Central Food Tech. Research Institute, Mysore, Plant Cell Biotechnology, CSIR-Central Food Technological Research Institute Mysore, Mysore - 570020, Karnataka

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- 13 Dr. Pranjan Barman, Assistant Professor, Biotechnology, Gauhati University, Department of Biotechnology, Gauhati University, Guwahati - 781014, Assam
- 14 Mr. Shivandappa S, Assistant Professor, Biotechnology, RV College of Engineering, R V College of Engineering, Mysore Road, Bengaluru, Bangalore - 560059, Karnataka
- 15 Cash Section, DBT (2 copies).
- 16 Sanction Folder.
- 17 File Copy.

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**Annexure -I**

Details of the Equipment sanctioned for the implementation of the project entitled **"Functional characterization of the regulatory genes involved in pungency in Capsicum sp."**:

<b>Gauhati University</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Shaker Incubator	1	600000.00
2.	Agarose Gel Electrophoresis System	1	350000.00
3.	Refrigerated centrifuge	1	500000.00
4.	Rotary evaporator	1	500000.00
5.	Online UPS Power backup (10KVa)	1	500000.00
<b>Total</b>			<b>2450000.00</b>
<b>CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Temperature and LED light controlled growth chamber	1	1000000.00
<b>Total</b>			<b>1000000.00</b>
<b>Karnatak University Dharwad</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Water bath shaker incubator	1	200000.00
<b>Total</b>			<b>200000.00</b>

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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Annexure -II**

Details of the manpower sanctioned for the implementation of the project entitled "Functional characterization of the regulatory genes involved in pungency in Capsicum sp.":

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
<b>1. CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE</b>					
Project Assistant For conducting experiments and generating data	1	278400	278400	278400	835200
<b>Total(Rs.)</b>		<b>278400</b>	<b>278400</b>	<b>278400</b>	<b>835200</b>
<b>2. Gauhati University</b>					
Junior Research Fellow JRF	1	432000	432000	0	864000
Senior Research Fellow SRF	1	0	0	486996	486996
<b>Total(Rs.)</b>		<b>432000</b>	<b>432000</b>	<b>486996</b>	<b>1350996</b>
<b>3. Karnatak University Dharwad</b>					
Project Assistant For conducting experiments and generating data	1	278400	278400	278400	835200
<b>Total(Rs.)</b>		<b>278400</b>	<b>278400</b>	<b>278400</b>	<b>835200</b>
<b>4. R.V. College of Engineering</b>					
Project Assistant For conducting experiments and generating data	1	297600	297600	297600	892800
<b>Total(Rs.)</b>		<b>297600</b>	<b>297600</b>	<b>297600</b>	<b>892800</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-05/2019 dated 10.07.2020 (For Project Assistant) and DST OM No. SR/S9/Z-08/2018 dated 30.01.2019 (For JRF/SRF).

उत्तर प्रदेश विज्ञान प्रौद्योगिकी विभाग  
 उत्तर प्रदेश सरकार  
 बायोटेक्नोलॉजी विभाग, प्रौद्योगिकी विकास  
 और प्रोद्योगिकी मंत्रालय, नई दिल्ली  
 बायोटेक्नोलॉजी विभाग, प्रौद्योगिकी विकास  
 और प्रोद्योगिकी मंत्रालय, नई दिल्ली

*Vaishali*

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

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 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

81-82

Agri/2017/147  
Administrative

**No. BT/PR25758/NER/95/1300/2017**  
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: 03 /12/2020

**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: **"Functional characterization of the regulatory genes involved in pungency in Capsicum sp."** for a period of 3 Year 0 Month at a total cost of Rs. **11044196** (Rupees One Crores Ten Lakhs Fourty Four Thousand One Hundred and Ninety Six Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "Functional characterization of the regulatory genes involved in pungency in Capsicum sp."

**Details of the Investigators:**

**2.2**

**Project Cordinator**

**Dr. Pranjan Barman**

Assistant Professor

Biotechnology

Gauhati University

Department of Biotechnology, Gauhati University, Guwahati,

Assam, 781014

**Principal Investigators:**

*Vaughali*

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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

भारतीय प्रौद्योगिकी संस्थान दिल्ली  
एन.डी.ए. बिल्डिंग, लोधी रोड,  
नई दिल्ली-110003

**Dr. Pranjan Barman**

Assistant Professor  
Biotechnology  
Gauhati University  
Department of Biotechnology,  
Gauhati University,

**Dr. Chethan D J**

Assistant Professor  
Dept. of Microbiology &  
Biotechnology  
Karnatak University Dharwad  
Dept. of Microbiology &

**Dr. Giridhar Parvatam**

Principal Scientist  
Plant Cell Biotechnology  
CENTRAL FOOD  
TECHNOLOGICAL RESEARCH  
INSTITUTE, MYSORE

**Dr. Nagashree N Rao**

Associate Professor  
Biotechnology  
R.V. College of Engineering  
: R V College of Engineering,  
Mysore Road, Bengaluru,

**CO-PI:**

**Dr. Bhaben Tanti**

Professor  
Department of Botany  
Gauhati University  
Gauhati University,  
Gopinath Bordoloi  
Nagar, Guwahati  
781014, Guwahati  
Assam - 781014,  
Assam

**Dr. Ashwani Sharma**

Assistant Professor  
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Engineering  
Department of  
Biotechnology R V  
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Mysore Road,  
Bengaluru, Bangalore -  
560059, Karnataka

**Mr. Shivandappa S**

Assistant Professor  
Biotechnology  
RV College of  
Engineering  
R V College of  
Engineering, Mysore  
Road, Bengaluru,

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Bangalore - 560059,  
Karnataka

**Dr. Nandini Prasad  
Shetty**

Scientist  
Plant Cell  
Biotechnology  
Central Food  
Tech.Research  
Institute, Mysore  
Plant Cell  
Biotechnology, CSIR-  
Central Food  
Technological Research  
Institute Mysore,  
Mysore - 570020,  
Karnataka

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## 2.3 Objectives:

### Overall Objectives:

1. Expression analysis of transcription factor genes CaMYB31, erf and Jerf using qRT-PCR in placental tissue of fruits of Capsicum genotypes of North Eastern states in India at different developmental stages (10, 20, 30, 40, 50 and 60 DPA)
2. Cloning of full length genes encoding Capsicum annum R2R3-MYB transcription factor 31 (CaMYB31) gene (Accession No: MF062086), Jasmonate and ethylene responsive factor (Jerf- Accession Number: KF169943) and ethylene-responsive factor-like protein (Erf-Accession Number: KF060657) and its ectopic over expression into north eastern variety of Capsicum sp.
3. Whole Transcriptome analysis in the wild type and its comparison with the knockdown transgenic plants
4. Analysis for transcript profiling - RNA seq data
5. Molecular and phytochemical analysis of over expressed transgenic plants
6. Compilation of completion report and research paper writing
7. Expression analysis of CaMYB31, Erf and Jerf in Capsicum sp. under controlled climatic conditions in vitro (light and temperature)
8. Phytochemical analysis of the wild type and transgenic plants in treated plants and preparation of report
9. Generation of double stranded RNAi construct for CaMYB31, Erf and Jerf genes
10. Studies on Regulation of CaMYB31, Erf and Jerf gene in Capsicum sp through gene silencing, Generation of knock down transgenic plants
11. Validation of regulated expressed transgenic plants – Molecular and phytochemical analysis and preparation of report
12. Cloning of CaMYB31, Erf and Jerf genes into E. coli protein expression vectors
13. Using the expressed and purified protein of CaMYB31, ERF and JERF, generate antibodies and analyse it for detecting the in-situ expressed protein.
14. Expression of erf and Jerf into pGAL vectors for analysing specific functional association.
15. Analysis of the functional interaction and the roles of CaMYB31, ERF and JERF and preparation of report

### Institute wise Objectives:

#### CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE

1. Expression analysis of CaMYB31, Erf and Jerf in Capsicum sp. under controlled climatic conditions in vitro (light and temperature)
2. Phytochemical analysis of the wild type and transgenic plants in treated plants and preparation of report

#### Gauhati University

1. Expression analysis of transcription factor genes MYB, erf and Jerf using qRT-PCR in placental tissue of fruits of Capsicum sp of North Eastern states in India at different developmental stages (10, 20, 30, 40, 50 and 60 DPA)
2. Cloning of full length genes encoding Capsicum annum R2R3-MYB transcription factor 31 (CaMYB31) gene (Accession No: MF062086), Jasmonate and ethylene responsive factor (Jerf- Accession Number: KF169943) and ethylene-responsive factor-like protein (Erf-Accession

Dr. Vanshika  
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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi



Number: KF060657) and its ectopic over expression into north eastern variety of Capsicum sp.

3. Whole Transcriptome analysis in the wild type and its comparison with the knockdown transgenic plants.
4. Analysis for transcript profiling - RNA seq data
5. Molecular and phytochemical analysis of over expressed transgenic plants
6. Compilation of completion report and research paper writing

#### **Karnatak University Dharwad**

1. Cloning of CaMYB31, Erf and Jerf genes into E. coli protein expression vectors
2. Using the expressed and purified protein of CaMYB31, ERF and JERF, generate antibodies and analyse it for detecting the in-situ expressed protein
3. Expression of erf and Jerf into pGAL vectors for analysing specific functional association.
4. Analysis of the functional interaction and the roles of CaMYB31, ERF and JERF and preparation of report

#### **R.V. College of Engineering**

1. Generation of double stranded RNAi construct for CaMYB31, Erf and Jerf genes
2. Regulation of CaMYB31, Erf and Jerf gene in Capsicum sp through gene silencing, Generation of knock down transgenic plants
3. Validation of regulated expressed transgenic plants – Molecular and phytochemical analysis and preparation of report

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## 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. **11044196/-** (Rupees One Crores Ten Lakhs Fourty Four Thousand One Hundred and Ninety Six Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE	1378400	378400	378400	<b>2135200</b>
2. Gauhati University	3482000	1822000	1176996	<b>6480996</b>
3. Karnatak University Dharwad	553400	353400	328400	<b>1235200</b>
4. R.V. College of Engineering	397600	397600	397600	<b>1192800</b>
<b>Total (Rs.)</b>	<b>5811400</b>	<b>2951400</b>	<b>2281396</b>	<b>11044196</b>

### Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
<b>1. Gauhati University</b>				
Equipment	2450000.00			<b>2450000.00</b>
Manpower	432000.00	432000.00	486996.00	<b>1350996.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Travel	40000.00	30000.00	30000.00	<b>100000.00</b>
Consumables	500000.00	1300000.00	600000.00	<b>2400000.00</b>
Contingency	10000.00	10000.00	10000.00	<b>30000.00</b>
<b>Total (Rs.)</b>	<b>3482000.00</b>	<b>1822000.00</b>	<b>1176996.00</b>	<b>6480996.00</b>
<b>2. CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE</b>				
Equipment	1000000.00			<b>1000000.00</b>
Manpower	278400.00	278400.00	278400.00	<b>835200.00</b>
Consumables	100000.00	100000.00	100000.00	<b>300000.00</b>
<b>Total (Rs.)</b>	<b>1378400.00</b>	<b>378400.00</b>	<b>378400.00</b>	<b>2135200.00</b>
<b>3. Karnatak University Dharwad</b>				
Equipment	200000.00			<b>200000.00</b>
Manpower	278400.00	278400.00	278400.00	<b>835200.00</b>
Consumables	75000.00	75000.00	50000.00	<b>200000.00</b>
<b>Total (Rs.)</b>	<b>553400.00</b>	<b>353400.00</b>	<b>328400.00</b>	<b>1235200.00</b>
<b>4. R.V. College of Engineering</b>				
Manpower	297600.00	297600.00	297600.00	<b>892800.00</b>
Consumables	100000.00	100000.00	100000.00	<b>300000.00</b>
<b>Total (Rs.)</b>	<b>397600.00</b>	<b>397600.00</b>	<b>397600.00</b>	<b>1192800.00</b>

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विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

### 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 debit to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
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
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debit to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
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 and D program for NER a. 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.

b. In the project review meetings, both the PIs from NER and RoI Institutions should participate and make presentation.

c. The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.

d. The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.

e. 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.

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विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

f. The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.

g. 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.

h. 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.

**4.2A** 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 Utilisation 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.

**5.** No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

**6.** The DIRECTOR, CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE, Mysore, Karnataka and The Principal, R.V. College of Engineering, Bangalore, Karnataka and The Registrar, Gauhati University, Guwahati, Assam and The Registrar, Karnatak University Dharwad, Dharwad, Karnataka 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-05/2019 dated on 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 Organisations 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 Organisation 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.

*Vaishali*

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विज्ञान और प्रौद्योगिकी, मंत्रालय / Mo Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

11. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/1594/2020-2021** dated **December, 03 2020**.

12. This sanction order has been noted at serial no. 81-82 in the Register of Grants.

Vaishali

(Dr. Vaishali Panjabi)  
Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

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

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Dr. PRANJAN BARMAN (Project Co-ordinator), Department of Biotechnology, Gauhati University, Gopinath Bordoloi Nagar, Guwahati, Assam, India PIN
- 3 The DIRECTOR, CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE, Central Food Technological Research Institute (CSIR-CFTRI).  
Address: The Director, Cheluvemba Manson, Central Food Technological Research Instit, Mysore - 570020, Karnataka
- 4 The Principal, R.V. College of Engineering, R.V. VIDYANIKETAN POST, Bangalore - 560059, Karnataka
- 5 The Registrar, Gauhati University, Gopinath Bordoloi nagar,, Guwahati University, Guwahati - 781014, Assam
- 6 The Registrar, Karnatak University Dharwad, Pavatenagar, Dharwad - 580003, Karnataka
- 7 Dr. Ashwani Sharma, Assistant Professor, Biotechnology, R.V. College of Engineering, Department of Biotechnology R V College of Engineering, Mysore Road, Bengaluru, Bangalore - 560059, Karnataka
- 8 Dr. Bhaben Tanti, Professor, Department of Botany, Gauhati University, Gauhati University, Gopinath Bordoloi Nagar, Guwahati 781014, Guwahati Assam - 781014, Assam
- 9 Dr. Chethan D J, Assistant Professor, Dept. of Microbiology & Biotechnology, Karnatak University Dharwad, Dept. of Microbiology & Biotechnology Karnatak University,  
Dharwad-580003, Dharwad - 580003, Karnataka
- 10 Dr. Giridhar Parvatam, Principal Scientist, Plant Cell Biotechnology, CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE, Plant Cell Biotechnology, CSIR-Central Food Technological Research Institute Mysore, Mysore - 570020, Karnataka
- 11 Dr. Nagashree N Rao, Associate Professor, Biotechnology, R.V. College of Engineering, : R V College of Engineering, Mysore Road, Bengaluru, Bangalore - 560059, Karnataka
- 12 Dr. Nandini Prasad Shetty, Scientist, Plant Cell Biotechnology, Central Food Tech. Research Institute, Mysore, Plant Cell Biotechnology, CSIR-Central Food Technological Research Institute Mysore, Mysore - 570020, Karnataka

Vaishali

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- 13 Dr. Pranjan Barman, Assistant Professor, Biotechnology, Gauhati University, Department of Biotechnology, Gauhati University, Guwahati - 781014, Assam
- 14 Mr. Shivandappa S, Assistant Professor, Biotechnology, RV College of Engineering, R V College of Engineering, Mysore Road, Bengaluru, Bangalore - 560059, Karnataka
- 15 Cash Section, DBT (2 copies).
- 16 Sanction Folder.
- 17 File Copy.

BAHMAN LARAVI 10 \ विवरण दिनांक 10  
 3 \ कनिष्ठ  
 उपलब्धता 10 \ मार्गदर्शक विवरण दिनांक  
 10 \ कनिष्ठ 10 \ मार्गदर्शक विवरण दिनांक  
 10 \ कनिष्ठ 10 \ मार्गदर्शक विवरण दिनांक

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**वैज्ञानिक 'ई' / Scientist 'E'**  
**बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology**  
**विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.**  
**भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi**

BAHMAN LARAVI 10 \ विवरण दिनांक 10  
 3 \ कनिष्ठ  
 उपलब्धता 10 \ मार्गदर्शक विवरण दिनांक  
 10 \ कनिष्ठ 10 \ मार्गदर्शक विवरण दिनांक  
 10 \ कनिष्ठ 10 \ मार्गदर्शक विवरण दिनांक

**Annexure -I**

Details of the Equipment sanctioned for the implementation of the project entitled **"Functional characterization of the regulatory genes involved in pungency in Capsicum sp."**:

<b>Gauhati University</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Shaker Incubator	1	600000.00
2.	Agarose Gel Electrophoresis System	1	350000.00
3.	Refrigerated centrifuge	1	500000.00
4.	Rotary evaporator	1	500000.00
5.	Online UPS Power backup (10KVa)	1	500000.00
<b>Total</b>			<b>2450000.00</b>
<b>CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Temperature and LED light controlled growth chamber	1	1000000.00
<b>Total</b>			<b>1000000.00</b>
<b>Karnatak University Dharwad</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Water bath shaker incubator	1	200000.00
<b>Total</b>			<b>200000.00</b>

*Vaishali*

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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योग. मंत्रालय / M/o 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 "Functional characterization of the regulatory genes involved in pungency in Capsicum sp.":

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
<b>1. CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE</b>					
Project Assistant For conducting experiments and generating data	1	278400	278400	278400	835200
<b>Total(Rs.)</b>		<b>278400</b>	<b>278400</b>	<b>278400</b>	<b>835200</b>
<b>2. Gauhati University</b>					
Junior Research Fellow JRF	1	432000	432000	0	864000
Senior Research Fellow SRF	1	0	0	486996	486996
<b>Total(Rs.)</b>		<b>432000</b>	<b>432000</b>	<b>486996</b>	<b>1350996</b>
<b>3. Karnatak University Dharwad</b>					
Project Assistant For conducting experiments and generating data	1	278400	278400	278400	835200
<b>Total(Rs.)</b>		<b>278400</b>	<b>278400</b>	<b>278400</b>	<b>835200</b>
<b>4. R.V. College of Engineering</b>					
Project Assistant For conducting experiments and generating data	1	297600	297600	297600	892800
<b>Total(Rs.)</b>		<b>297600</b>	<b>297600</b>	<b>297600</b>	<b>892800</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-05/2019 dated 10.07.2020 (For Project Assistant) and DST OM No. SR/S9/Z-08/2018 dated 30.01.2019 (For JRF/SRF).

DR. VAISHALI PANJABI  
 वैशाली पंजाबी  
 बायोटेक्नोलॉजी विभाग, प्रोबिओटिक्स  
 एवं फूड साइंस, प्रोबिओटिक्स विभाग  
 आई. आई. टी. दिल्ली  
 नई दिल्ली-110016

*Vaishali*

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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
 वैज्ञानिक 'ई' / Scientist 'E'  
 बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi



BP-2020-21-2335

FILE NO. MTR/2020/000534  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
 (a statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-B, Pocket-5, Vasant Kunj  
 New Delhi-110070

Dated: 11-Dec-2020

**ORDER**

Subject: Financial Sanction of the research project titled **?NOVEL APPROXIMATIONS OF RATIONAL MAPPINGS AND THEIR RELEVANCE IN PHYSICAL PROBLEMS?** under the guidance of **Dr. Hemen Dutta, Mathematics, Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014** - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned fellowship at a total cost of **Rs. 6,60,000/- (Rs. Rupees Six Lakh Sixty Thousand only Only)** for a duration of 36 months.

The items of expenditure for which the total allocation of **Rs. 6,60,000/-** has been approved are given below:

S. No	Budget Head	Amount	Total (in Rs.)
1	Research Grant	Rs. 2,00,000/- per annum(for a period of three years)	6,00,000
2.	Overheads	Rs. 20,000/- per annum	60,000
3.	Total Cost		6,60,000

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 2,20,000/- (Rupees Two Lakh Twenty Thousand only)** to **Gauhati University, Jalukbari, Guwahati, Assam** being the first installment of the grant for the year 2020-2021 for implementation of the said research project.

3. The expenditure involved is debit to **Fund for Science & Engineering Research (FSER)**  
 This release is being made under **MATRICS - MATRICS Expert Committee**

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. **SERB/F/5324/2020-2021** dated **09 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Purpose for which grants can be used are detailed at website ([www. http://serb.gov.in/matrix.php](http://www.serb.gov.in/matrix.php)).

7. Total expenditure for International travel cannot exceed **Rs.2,00,000** of the overall budget.

8. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The release amount of **Rs. 2,20,000/- (Rupees Two Lakh Twenty Thousand only)** will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Gauhati University Branch, Gauhati University Campus, Guwahati-14, Assam, India
IFSC/RTGS Code	SBIN002060
Email address of PI	duttah@gauhati.ac.in
Email id of A/C Holder	nodalofficer@gauhati.ac.in
Email address of concerned officer	ms_ms@serbonline.in

11. The institute will furnish Utilization certificate(UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

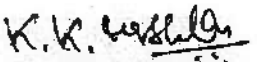
13. The File no. MTR/2020/000534 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

14. As this is the first grant for the fellowship, no previous U/C is required.

15. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

16. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

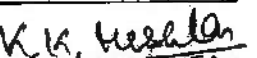
17. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

  
(Dr. Magesh K K)  
Scientist D  
ms\_ms@serbonline.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Hemen Dutta Mathematics Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014 Email: <a href="mailto:duttah@gauhati.ac.in">duttah@gauhati.ac.in</a> Mobile: 919435482749 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Registrar, Gauhati University, Gauhati University, Jalukbari, Guwahati, Assam  (Receipt of Grant may be intimated by name to the undersigned)

  
(Dr. Magesh K K)  
Scientist D  
ms\_ms@serbonline.in

Centre for English Language Studies

School of Interdisciplinary Studies

Sunway University

No.5 Jalan Univeristi, Bandar Sunway

47500 Selangor Darul Eshan, Malayasia.

**The Transnational Sustainable Education Research Network**

An Asian focused collaboration of educational researchers and language experts will investigate possible avenues for a better educational landscape in resource scarce areas, with the hope that our joint efforts provide sustainable and culturally appropriate learning opportunities for all. The primary focus is on English language education as an empowering tool within a multilingual landscape. The network is a collaboration among leading universities in Malaysia, Indonesia, India, Nepal, Hong Kong and China to date.

Focus groups link individual researchers around shared research areas, such as Meritocracy in English Language Teaching. As such, I am happy to write this letter to you indicating Sunway University's Centre for English Language Studies interest, commitment and support for sharing research, expertise and possible joint publications through researcher-to-researcher linkages between our institution and other Universities.

In this focus group, I am glad that Professor Padmini Bhuyan Boruah (Gauhati University, India), Dr Nivedita Malini Barua (Gauhati University, India) and Dr Khamseng Baruah, (Gauhati University, India) have agreed to work with Prof. Stephen Hall (Sunway University, Malaysia), Assoc. Prof. Dr. Tamas Kiss (Sunway University, Malaysia), Mr. Samuel Isaiah (Edufication, Malaysia), Dr. Nicholas Lee, Prof. Amol Padwad (Ambedkar University, India) and Assoc. Prof. Dr. Krishna Dixit (Ambedkar University, India) on a research project entitled **Meritocracy and language status in India and Malaysia: A comparative study**, with logistic coordination from CELS Sunway University.

Preliminary findings will be communicated and shared with a broader professional audience at a virtual / blended conference organized by Sunway University CELS.

I look forward to ongoing discussion and sharing publication outcomes which will showcase commonalities, as well as the specific findings from each of our unique contexts. Your collaboration is very valued.

Professor Stephen J Hall

Head Centre for English Language Studies  
Dean School of interdisciplinary Studies

Professor Padmini Bhuyan Boruah, Ph. D

Head, Department of English Language Teaching  
Gauhati University, Guwahati – 781014, India

Centre for English Language Studies  
School of Interdisciplinary Studies

Sunway University  
No.5 Jalan Univeristi, Bandar Sunway  
47500 Selangor Darul Eshan, Malaysia.

**The Transnational Sustainable Education Research Network**

An Asian focused collaboration of educational researchers and language experts will investigate possible avenues for a better educational landscape in resource scarce areas, with the hope that our joint efforts provide sustainable and culturally appropriate learning opportunities for all. The primary focus is on English language education as an empowering tool within a multilingual landscape. The network is a collaboration among leading universities in Malaysia, Indonesia, India, Nepal, Hong Kong and China to date.

Focus groups link individual researchers around shared research areas, such as Multilingualism in English Language Teaching. As such, I am happy to write this letter to you indicating Sunway University's Centre for English Language Studies interest, commitment and support for sharing research, expertise and possible joint publications through researcher-to-researcher linkages between our institution and other Universities.

In this focus group, I am glad that Professor Padmini Bhuyan Boruah and Assistant Professor Dr Pranjana Kalita Nath of the Department of English Language Teaching, Gauhati University, India have agreed to work with Professor Stephen Hall of Sunway University, Malaysia, Dr. Tamas Kiss (Sunway University, Malaysia), Dr Barli Bram (Sanata Dhamma University, Yogyakarta, Indonesia), Prof Laxman Gnawali (Kathmandu University Nepal), Prof Motikala Subba Dewan, (Tribhuvan University Nepal) and Prof. Padmini Shankar (The English and Foreign Languages University, Hyderabad, India) on a research project entitled **English Language Teachers' reflections on negotiating policies, identity and practice**, with logistic coordination from CELS Sunway University.

Preliminary findings will be communicated and shared with a broader professional audience at a virtual / blended conference organized by Sunway University CELS.

I look forward to ongoing discussion and sharing publication outcomes which will showcase commonalities, as well as the specific findings from each of our unique contexts. Your collaboration is very valued.

Professor Stephen J Hall  
Head Centre for English Language Studies  
Dean School of interdisciplinary Studies

Professor Padmini Bhuyan Boruah, Ph. D  
Head, Department of English Language Teaching  
Gauhati University, Guwahati – 781014, India

**GOVERNMENT OF ASSAM**  
STATE INNOVATION & TRANSFORMATION AAYOG (SITA), ASSAM  
JANATA BHAWAN, BLOCK-A, 1st FLOOR, DISPUR, GUWAHATI-781006  
Tel. & Fax No. 0361-2217496  
email : vchairmanassam2016@gmail.com

No. SITA/AS/95/2018 /199

Dated, Dispur the 21<sup>st</sup> January, 2021

To/

The Registrar,  
Gauhati University

Sub. Maintenance of grant-in aids in an interest bearing separate account-reg.

Sir,

It is to inform that the proposal for the project titled " An approach for enhancement of Muga silk worm production in Assam", submitted by Professor Manab Deka, Director, GUIST, Gauhati University has been approved by SITA (State Innovation & Transformation Aayog), Government of Assam at an Estimated total cost of 164.30 lakhs for three years in phase wise manner.

This may be noted for compliance that the Institute/Agency will keep whole Of the grant in a separate bank account earning interest and the interest so earned should be reported to SITA in the Utilization Certificate and Statement of Expenditure. The interest earned will be treated as a credit to the Institute/Agency and shall be adjusted towards further instalment of the grant and/ or during final settlement of accounts.

Yours faithfully

*Remyon*  
21/1/2021  
Officer on Special Duty  
State Innovation & Transformation Aayog (SITA)  
Dispur

Memo No. SITA/AS/95/2018 /199-A

Dated, the Dispur the 21<sup>st</sup> January, 2021

Copy to:

- 1.P.S to the Hon'ble Vice Chairman, SITA for kind appraisal of Vice Chairman.
- 2.PS to CEO, SITA for kind appraisal of CEO.
- 3.PI of the project, Professor Manab Deka, Director, GUIST, Gauhati University

POCC  
SHOT ON POCB

*Sdt*  
Officer on Special Duty  
State Innovation & Transformation Aayog (SITA)

GOVERNMENT OF ASSAM  
STATE INNOVATION & TRANSFORMATION AAYOG (SITA), ASSAM  
JANATA BHAWAN, BLOCK-A, 1st FLOOR, DISPUR, GUWAHATI-781006  
Tel. & Fax No. 0361-2237496  
email : vchairmanassam2016@gmail.com

No. SITA/AS/95/2018 /207

Dated, Dispur the 8<sup>th</sup> February, 2021

To,  
The Registrar  
Gauhati University  
Jalukbari

Sub.: Forwarding of Cheque No.000053 dated. 02-02-2021

Sir,

With reference to the subject cited above, please find herewith a cheque no. 000053 dated 02-02-2021 amounting Rs. 14,40,000/- (Rupees fourteen lakh forty thousand) only in connection with the release of 1<sup>st</sup> instalment for the study titled "An Approach for enhancement of Muga & Worm Production in Assam" for favour of your necessary action.

You are also requested to submit Utilization Certificate in GFR-12 after utilization of aforesaid fund for taking necessary action from this end.

Enclo:As Stated

Yours faithfully

*Harmony m' 8/2/2021*  
Officer on Special Duty  
State Innovation & Transformation Aayog (SITA)  
Dispur

Memo No. SITA/AS/95/2018 /207-A

Dated, the Dispur the 8<sup>th</sup> February, 2021

Copy to:

1. P.S to the Hon'ble Vice Chairman, SITA for kind appraisal of Vice Chairman.
2. PS to CEO, SITA for kind appraisal of CEO.

*sd/-*  
Officer on Special Duty  
State Innovation & Transformation Aayog (SITA)  
Dispur

**File No. NRDMS/11/1848/011/L-1/18**

Government of India  
Ministry of Science & Technology  
Department of Science & Technology  
NGP Division (earlier NRDMS)

Technology Bhavan,  
New Mehrauli Road,  
New Delhi-110016  
Dated: 24.03.2021

**ORDER**

**Subject: Financial support for conducting 21 days Summer/Winter School (level-1) on "Geospatial Science and Technologies" under National Geospatial Program (NGP) earlier NRDMS programme of Department of Science & Technology, New Delhi by Prof. Anup Saikia, Gauhati University, Guwahati, Assam-781014.**

The National Geospatial Programme Division-NGP (earlier Natural Resources Data Management System-NRDMS) of the Department of Science & Technology Government of India, focuses on capacity building at various levels for planning and implementation in a spatio-temporal context in a multilevel framework. The NGP-DST over the last ten year has been supporting an exclusive training programme (21 days and 3 days) for various target groups. The capacity building programme of NGP has now evolved into a strong programme that has over the last ten years conducted 166 programs of three week duration benefitting over 5000 participants from academia, Government and research institutions across the country. During last year, 32 training programmes have been organized through various participating agencies all over the country. NGP-DST supports the participating institution with not only with financial resources as well as with knowledge resources required to conduct the program. A one stop portal (<http://dst-iget.in>) has been set up to facilitate the teaching-learning process. All the coordinators/ PI are requested to follow the guideline and the portal course material on.

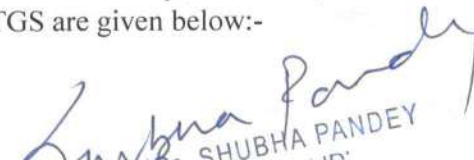
2. Sanction of the President is conveyed for the approval of Rs. 10,00,000/- (Rupees Ten Lakh only) for conducting the training programme mentioned in the subject under the supervision of Prof. Anup Saikia, Gauhati University, Guwahati, Assam-781014.

The budgetary details of the programme are as under:

S. No.	Item	Amount in (Rs.)
1.	Boarding / Lodging	5,00,000/-
2.	GPS / Other Hardware	1,00,000/-
3.	Training Kit	50,000/-
4.	Travel cost	1,00,000/-
5.	Honorarium to experts	1,00,000/-
6.	Contingencies	50,000/-
	Overhead	1,00,000/-
	<b>Total</b>	<b>10,00,000/-</b>

3. Sanction of the President is also conveyed for the payment of Rs. 5,00,000/- (Rupees Five Lakh only) to Gauhati University, Guwahati, Assam as the first instalment of grant under "General Head" for organizing the above mentioned Training Programme.

4. The Amount of Rs. 5,00,000/- will be drawn by the Drawing and Disbursing Officer, Department of Science & Technology will be disbursed to Gauhati University, Guwahati, Assam. The bank details for electronic transfer of funds through RTGS are given below:-

  
Dr. SHUBHA PANDEY  
वैज्ञानिक 'डी' / Scientist 'D'  
विज्ञान और प्रौद्योगिकी विभाग  
DEPT. OF SCIENCE & TECHNOLOGY  
सरकार / Govt. of India  
New Delhi-110016

221-222

Admin Order

No. BT/PR41726/NER/95/1849/2021  
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: 25/03/2021

**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 "**Mass-multiplication, cultivation, value addition, and popularization of *Docynia indica* among tribal communities of Assam and Meghalaya.**" for a period of 3 Year 0 Month at a total cost of Rs. **6854040/-** (Rupees Sixty Eight Lakhs Fifty Four Thousand and Fourty Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title : Mass-multiplication, cultivation, value addition, and popularization of *Docynia indica* among tribal communities of Assam and Meghalaya.**

**2.2 Details of the Investigators:**

**Project Coordinator**

**Dr. Pranjan Barman**

Assistant Professor,  
Department of Biotechnology,  
Gauhati University,  
Guwahati - 781014, Assam

**Principal Investigators:**

**Dr. Pranjan Barman**

Assistant Professor,  
Department of Biotechnology,  
Gauhati University,  
Guwahati - 781014, Assam

**Dr. Kishor Goswami**

Professor,  
Department of Humanities & Social Sciences,  
IIT-Kharagpur, Kharagpur -721302, West  
Bengal

**CO-PI:**

**Dr. Naba Kumar Hazarika**

Lecturer,  
Department of Rasa Shastra & Bhaishya  
Kalpana,  
Government Ayurvedic College & Hospital,  
Jalukbari, Guwahati - 781014, Assam

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'E' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योग. मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi



**Dr. Manas Das**  
Assistant Professor,  
Department of Zoology,  
Gauhati University,  
Guwahati-781014, Assam

### 2.3 Objectives:

#### Overall Objectives:

1. Generating baseline information on traditional uses of *Docynia indica* fruit among the ethnic communities and to identify and analyze the factors that influence the adoption of *Docynia indica* at farmers' levels.
2. Mass-multiplication of *Docynia indica* through vegetative propagation and nursery establishment, standardization of traditional knowledge based value addition and popularization through awareness campaign and meetings.
3. Assessment of demand for and supply of *Docynia indica* in the local and regional markets.

### 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. **6854040/- (Rupees Sixty Eight Lakhs Fifty Four Thousand and Forty Only)** as per details given below:

Institute	Year I	Year II	Year III	Total Cost (Rs.)
1. Gauhati University	1912080	1112080	1277760	<b>4301920</b>
2. IIT-Kharagpur	741760	991760	818600	<b>2552120</b>
<b>Total (Rs.)</b>	<b>2653840</b>	<b>2103840</b>	<b>2096360</b>	<b>6854040</b>

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक / Scientist 'B'  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Institute wise details are:**

Budget Head	Year I	Year II	Year III	Total(Rs.)
<b>1. Gauhati University</b>				
Equipment	800000.00			<b>800000.00</b>
Manpower	682080.00	682080.00	737760.00	<b>2101920.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	200000.00	200000.00	200000.00	<b>600000.00</b>
Contingency	30000.00	30000.00	40000.00	<b>100000.00</b>
Travel	50000.00	50000.00	50000.00	<b>150000.00</b>
Training & Awareness Campaign	100000.00	100000.00	200000.00	<b>400000.00</b>
<b>Total (Rs.)</b>	<b>1912080.00</b>	<b>1112080.00</b>	<b>1277760.00</b>	<b>4301920.00</b>
<b>2. IIT-Kharagpur</b>				
Manpower	401760.00	401760.00	453600.00	<b>1257120.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Travel including Fieldwork	200000.00	400000.00	200000.00	<b>800000.00</b>
Consumables	50000.00	100000.00	75000.00	<b>225000.00</b>
Contingency	40000.00	40000.00	40000.00	<b>120000.00</b>
<b>Total (Rs.)</b>	<b>741760.00</b>	<b>991760.00</b>	<b>818600.00</b>	<b>2552120.00</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. 88	Department of Biotechnology
<b>3425</b>	Other Scientific Research 2020-2021
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.37</b>	Industrial and Entrepreneurship Development
<b>3425.60.200.37.00</b>	Assistance to Industrial and Entrepreneurship Development
<b>3425.60.200.37.00.35</b>	Grants for creation of capital assets

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

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

<b>Demand No. 88</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2020-2021
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.37</b>	Industrial and Entrepreneurship Development
<b>3425.60.200.37.00</b>	Assistance to Industrial and Entrepreneurship Development
<b>3425.60.200.37.00.31</b>	Grants -in-Aid General

#### 4. Terms & Conditions:

- a. 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.
  - b. 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. **As per provision contained in the Rule 230 (8) of GFR 2017, all interest/other earning occurred against grant-in-aid shall be mandatorily remitted to the Consolidated Fund of India (CFI) through the online portal [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in) only.**
5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Director, IIT, Kharagpur, West Bengal and The Registrar, Gauhati University, Guwahati, Assam 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-05/2019 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 compulsorily comply the same before undertaking such activities.
11. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their SAN No. **102/IFD/SAN/3095/2020-2021** dated **March 23, 2021**.
12. This sanction order has been noted at serial no. \_\_\_\_\_ in the Register of Grants.

Vaishali

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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**To,**  
The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi - 110 003.

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Dr. Pranjan Barman,(Project Co-ordinator), Assistant Professor, Department of Biotechnology, Gauhati University, Guwahati -781014, Assam
- 3 The Director, Indian Institute of Technology, Kharagpur - 721302, West Bengal
- 4 The Registrar, Gauhati University, Guwahati - 781014, Assam
- 5 Dr. Kishor Goswami, Professor, Department of Humanities & Social Sciences, Indian Institute of Technology, Kharagpur - 721302, West Bengal
- 6 Dr. Manas Das, Assistant Professor, Department of Zoology, Gauhati University, Guwahati - 781014, Assam
- 7 Dr. Naba Hazarika, Lecturer, Department of Rasa Shastra & Bhaishya Kalpana, Government Ayurvedic College & Hospital, Jalukbari - 781014, Guwahati, Assam
- 8 Cash Section, DBT (2 copies).
- 9 Sanction Folder.
- 10 File Copy.

Vaishali

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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Annexure -I**

Details of the Equipment sanctioned for the implementation of the project entitled **"Mass-multiplication, cultivation, value addition, and popularization of Docynia indica among tribal communities of Assam and Meghalaya "**:

<b>Gauhati University</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Microcentrifuge	1	105000.00
2.	Oven	1	100000.00
3.	Autoclave	1	95000.00
4.	Nursery preparation (Construction, renovation)	1	500000.00
<b>Total</b>			<b>800000.00</b>

*Vaishali*

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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o 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  
**"Mass multiplication, cultivation, value addition, and popularization of  
Docynia indica among tribal communities of Assam and Meghalaya":**

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
<b>1. Gauhati University</b>					
Junior Research Fellow @ Rs. 31,000/+16% HRA 1 <sup>st</sup> & 2 <sup>nd</sup> year	1	431520	431520	0	<b>863040</b>
Senior Research Fellow @ Rs. 35,000/- + 16% HRA 3 <sup>rd</sup> year	1	0	0	487200	<b>487200</b>
Field Worker @Rs. 18000, + 16% HRA 1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> year	1	250560	250560	250560	<b>751680</b>
Total(Rs.)		<b>682080</b>	<b>682080</b>	<b>737760</b>	<b>2101920</b>
<b>2. IIT-Kharagpur</b>					
Junior Research Fellow @ Rs. 31,000/+ 8% HRA 1 <sup>st</sup> & 2 <sup>nd</sup> year	1	401760	401760	0	<b>803520</b>
Senior Research Fellow @ Rs. 35,000/- + 8% HRA 3 <sup>rd</sup> year	1	0	0	453600	<b>453600</b>
Total(Rs.)		<b>401760</b>	<b>401760</b>	<b>453600</b>	<b>1257120</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-05/2019 dated 10.07.2020 and OM No. SR/S9/Z-08/2018 dated 30.01.2019.**

*Vaishali*

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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

221-222

Admin Order

No. BT/PR41726/NER/95/1849/2021

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: 25/03/2021

**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 "**Mass-multiplication, cultivation, value addition, and popularization of *Docynia indica* among tribal communities of Assam and Meghalaya.**" for a period of 3 Year 0 Month at a total cost of Rs. **6854040/-** (Rupees Sixty Eight Lakhs Fifty Four Thousand and Fourty Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title : Mass-multiplication, cultivation, value addition, and popularization of *Docynia indica* among tribal communities of Assam and Meghalaya.**

**2.2 Details of the Investigators:**

**Project Coordinator**

**Dr. Pranjan Barman**

Assistant Professor,  
Department of Biotechnology,  
Gauhati University,  
Guwahati - 781014, Assam

**Principal Investigators:**

**Dr. Pranjan Barman**

Assistant Professor,  
Department of Biotechnology,  
Gauhati University,  
Guwahati - 781014, Assam

**Dr. Kishor Goswami**

Professor,  
Department of Humanities & Social Sciences,  
IIT-Kharagpur, Kharagpur -721302, West  
Bengal

**CO-PI:**

**Dr. Naba Kumar Hazarika**

Lecturer,  
Department of Rasa Shastra & Bhaisjya  
Kalpana,  
Government Ayurvedic College & Hospital,  
Jalukbari, Guwahati - 781014, Assam

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'E' / Scientist 'E'  
बायोटेकनोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी विभाग / Mo Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Dr. Manas Das**  
Assistant Professor,  
Department of Zoology,  
Gauhati University,  
Guwahati-781014, Assam

## 2.3 Objectives:

### Overall Objectives:

1. Generating baseline information on traditional uses of *Docynia indica* fruit among the ethnic communities and to identify and analyze the factors that influence the adoption of *Docynia indica* at farmers' levels.
2. Mass-multiplication of *Docynia indica* through vegetative propagation and nursery establishment, standardization of traditional knowledge based value addition and popularization through awareness campaign and meetings.
3. Assessment of demand for and supply of *Docynia indica* in the local and regional markets.

## 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. **6854040/- (Rupees Sixty Eight Lakhs Fifty Four Thousand and Fourty Only)** as per details given below:

Institute	Year I	Year II	Year III	Total Cost (Rs.)
1. Gauhati University	1912080	1112080	1277760	<b>4301920</b>
2. IIT-Kharagpur	741760	991760	818600	<b>2552120</b>
<b>Total (Rs.)</b>	<b>2653840</b>	<b>2103840</b>	<b>2096360</b>	<b>6854040</b>

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक / Scientist  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, मंत्रालय / Min. Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi





Rupam Sarma &lt;rupam.sarma@gmail.com&gt;

**Sanction Order : CRG/2020/002720**

2 messages

**SERB\_Administrator@serbonline.in** <SERB\_Administrator@serbonline.in>  
To: serbinfo1@gmail.com

Tue, Apr 6, 2021 at 4:44 PM

**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Department of Science and Technology, Government of India

Dear Dr. Rupam Jyoti Sarma,

The below details for **Science & Engineering Research Board (SERB)** Sanction Order (*attached to this mail*)

**Sanction Order No** CRG/2020/002720  
**Sanction Date** 26 March, 2021  
**PI Name** Dr. Rupam Jyoti Sarma  
**Institute/University** Gauhati University , Jalukbari, Guwahati, Assam, Guwahati, Assam-781014  
**PI Account Number** 38422220812  
**Bank & Branch Name** State Bank of India GUWAHATI UNIVERSITY BRANCH, GUWAHATI UNIVERSITY CAMPUS PIN 781014  
**Amount** INR 610000/-  
**In Rupees** Six Lakh Ten Thousand  
**UTR No** RBI0882110838135  
**Transaction Date** 29 March, 2021

**SERB Reference Number:**

Bill No:-GIA/7831/2020-2021

Diary No / Finance No SERB/F/8141/2020-2021

**Confirmation** of receipt of funds may be sent by **email** only.**IMPORTANT:**

- SEPARATE Utilization Certificates (UCs)** for **Recurring and Non Recurring (even if DISBURSED BY SERB THROUGH ONE SANCTION ORDER)** for your project) should be **sent directly** to the grant Sanctioning Authority by name (signatory of the sanction order ) **within twelve months of the closure of the financial year in which the grants were released irrespective of whether the subsequent instalment of grant is due for release or not.**
- However, if any unspent balance is to be **refunded**, kindly ensure that the unutilized amount may be refunded immediately by way of an **a/c payee cheque/DD** drawn in favour of "**Fund for Science & Engineering**

**Research", payable at New Delhi and forwarded to the undersigned at the address given below:**

--

**Under Secretary**

**Science & Engineering Research Board (SERB)**

**(A statutory body under the Government of India's Department of Science & Technology)**

5 & 5A, Lower Ground Floor, Vasant Square Mall

Vasant Kunj, New Delhi 110070

INDIA

+91-11-40000328/9

+91-11-40000319/49/52

+91-9818223293

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**SERB\_Administrator@serbonline.in** <SERB\_Administrator@serbonline.in>  
To: [info@serbonline.in](mailto:info@serbonline.in)

Tue, Apr 6, 2021 at 4:44 PM

[Quoted text hidden]

 **Sanction order for CRG/2020/002720.pdf**  
129K

250-252  
250-251

**Admin Order**

**No. BT/PR41760/NER/95/1856/2021**  
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: 30/03/2021

**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: "**Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and Promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India**" for a period of 3 Year 0 Month at a total cost of Rs. **17423405/-** (Rupees One Crores Seventy Four Lakhs Twenty Three Thousand Four Hundred and Five Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "**Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and Promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India**"

**2.2 Details of the Investigators:**

**Project Coordinator**

**Dr. Susheel Kumar Sharma**

Scientist

Department of Plant Pathology

ICAR Research Complex for NEH Region, Manipur Centre,  
Lamphelpat, Imphal - 795004, Manipur

**Principal Investigators:**

**Dr. Susheel Kumar Sharma**

Scientist

Department of Plant Pathology

ICAR Research Complex for NEH Region, Manipur Centre,  
Lamphelpat, Imphal - 795004, Manipur

**Dr. Debasish Borbora**

Assistant Professor

Department of Biotechnology

Gauhati University

Kamrup - 781014, Assam

**Dr. Rajeev Sarmah**

Associate Professor

Department of Botany

Assam Down Town University

Gandhi Nagar, Kamrup - 781026, Assam

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक / Scientist  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Dr. Veda Krishnan**

Scientist  
Department of Biochemistry  
ICAR- Indian Agricultural Research Institute (IARI), Pusa  
Campus,  
New Delhi - 110012

**Mr. Pranjal Baruah,**

General Secretary, Mushroom Development Foundation  
(MDF), Uzanbazar, Guwahati - 781001, Assam

**CO-PI:**

**Dr. Raghuvveer Singh**

Scientist  
Department of Plant Pathology  
ICAR Research Complex for NEH  
Region, Basar - 791101, Arunachal  
Pradesh

**Dr. Minakshi Bhattacharjee**

Associate Professor  
Department of Biotechnology  
Assam Down Town University, Gandhi  
Nagar, Kamrup - 781026, Assam

**Dr. Mohammad Imtiyaj Khan**

Assistant Professor  
Department of Biotechnology  
Gauhati University  
Gopinath Bordoloi Nagar, Kamrup -  
781014, Assam

**Dr. Subhra Saikat Roy**

Senior Scientist  
Department of Horticulture  
ICAR Research Complex for NEH  
Region, Manipur Centre, Lamphelpat,  
Imphal-795004, Manipur

**Dr. Arati Ningombam**

Scientist  
Department of Agricultural  
Entomology  
ICAR Research Complex for NEH  
Region, Manipur Centre, Lamphelpat,  
Imphal - 795004, Manipur

**Dr. Anil Dahuja**

Principal Scientist  
Department of Biochemistry  
ICAR- Indian Agricultural Research  
Institute (IARI), Pusa Campus, New  
Delhi - 110012

*Vaughan*

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वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
निकाज और प्रौद्योगिकी, मंत्रालय / Mo. Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

## 2.3 Objectives:

### Overall Objectives:

1. Large scale evaluation, validation and need based refinement of the cultivation technology of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) mushrooms using locally available substrates
2. Exploration of agripreneurial potential of Shiitake and Maitake mushrooms through supply of quality spawn and skill development on mushroom production technologies to farmers and local growers including unemployed women of North East India
3. Evaluation of nutraceuticals and bioactive compounds of Shiitake and Maitake mushrooms
4. Utilizing mushroom spent substrate for the production of vermicompost

### Institute wise Objectives:

#### Assam Down Town University

1. Exploration of agripreneurial potential of Maitake mushroom through supply of quality spawn and imparting training towards capacity building on mushroom production technologies to farmers and local growers including unemployed women of Northeast India
2. Utilizing mushroom spent substrate for the production of vermicompost

#### Gauhati University

1. Large scale evaluation, validation and need based refinement of the cultivation technology of Maitake (*Grifola frondosa*) mushroom using locally available substrates
2. Exploration of agripreneurial potential of Maitake mushroom through supply of quality spawn and imparting training towards capacity building on mushroom production technologies to farmers and local growers including unemployed women of Northeast India
3. Evaluation of nutraceuticals of Maitake mushroom, identification of diseases and competitive inhibitor organisms that effect productivity under local conditions

#### ICAR Research Complex for North East Hill Region

1. Large scale evaluation, validation and need based refinement of the cultivation technology of shiitake mushroom using locally available substrates
2. Exploration of agripreneurial potential of shiitake mushroom through skill development and nutritional branding based on scientific validation

#### ICAR-Indian Agricultural Research Institute

1. Evaluation of key bioactives and validation for their anti-hyperglycaemic, anti-ageing and anti-cancerous activities using in vitro models in the shiitake germplasm of NER for nutritional labeling

## 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. **17423405/-** (Rupees One Crores Seventy Four Lakhs Twenty Three Thousand Four Hundred and Five Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. ASSAM DOWN TOWN UNIVERSITY	528400	528400	378400	<b>1435200</b>
2. Gauhati University	2490155	1992975	1454755	<b>5937885</b>
3. ICAR Research Complex for North East Hill	3135040	1385040	1436880	<b>5956960</b>

250-252  
250-251

**Admin Order**

**No. BT/PR41760/NER/95/1856/2021**  
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: 30/03/2021

**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: "**Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and Promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India**" for a period of 3 Year 0 Month at a total cost of Rs. **17423405/-** (Rupees One Crores Seventy Four Lakhs Twenty Three Thousand Four Hundred and Five Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "**Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and Promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India**"

**2.2 Details of the Investigators:**

**Project Coordinator**

**Dr. Susheel Kumar Sharma**

Scientist

Department of Plant Pathology

ICAR Research Complex for NEH Region, Manipur Centre,  
Lamphelpat, Imphal - 795004, Manipur

**Principal Investigators:**

**Dr. Susheel Kumar Sharma**

Scientist

Department of Plant Pathology

ICAR Research Complex for NEH Region, Manipur Centre,  
Lamphelpat, Imphal - 795004, Manipur

**Dr. Debasish Borbora**

Assistant Professor

Department of Biotechnology

Gauhati University

Kamrup - 781014, Assam

**Dr. Rajeev Sarmah**

Associate Professor

Department of Botany

Assam Down Town University

Gandhi Nagar, Kamrup - 781026, Assam

*Vaishali*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक / Scientist  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Dr. Veda Krishnan**

Scientist  
Department of Biochemistry  
ICAR- Indian Agricultural Research Institute (IARI), Pusa  
Campus,  
New Delhi - 110012

**Mr. Pranjal Baruah,**

General Secretary, Mushroom Development Foundation  
(MDF), Uzanbazar, Guwahati - 781001, Assam

**CO-PI:**

**Dr. Raghuveer Singh**

Scientist  
Department of Plant Pathology  
ICAR Research Complex for NEH  
Region, Basar - 791101, Arunachal  
Pradesh

**Dr. Minakshi Bhattacharjee**

Associate Professor  
Department of Biotechnology  
Assam Down Town University, Gandhi  
Nagar, Kamrup - 781026, Assam

**Dr. Mohammad Imtiyaj Khan**

Assistant Professor  
Department of Biotechnology  
Gauhati University  
Gopinath Bordoloi Nagar, Kamrup -  
781014, Assam

**Dr. Subhra Saikat Roy**

Senior Scientist  
Department of Horticulture  
ICAR Research Complex for NEH  
Region, Manipur Centre, Lamphelpat,  
Imphal-795004, Manipur

**Dr. Arati Ningombam**

Scientist  
Department of Agricultural  
Entomology  
ICAR Research Complex for NEH  
Region, Manipur Centre, Lamphelpat,  
Imphal - 795004, Manipur

**Dr. Anil Dahuja**

Principal Scientist  
Department of Biochemistry  
ICAR- Indian Agricultural Research  
Institute (IARI), Pusa Campus, New  
Delhi - 110012

*Vaughan*

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
निकाज और प्रौद्योगिकी, मंत्रालय / Mo. Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

## 2.3 Objectives:

### Overall Objectives:

1. Large scale evaluation, validation and need based refinement of the cultivation technology of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) mushrooms using locally available substrates
2. Exploration of agripreneurial potential of Shiitake and Maitake mushrooms through supply of quality spawn and skill development on mushroom production technologies to farmers and local growers including unemployed women of North East India
3. Evaluation of nutraceuticals and bioactive compounds of Shiitake and Maitake mushrooms
4. Utilizing mushroom spent substrate for the production of vermicompost

### Institute wise Objectives:

#### Assam Down Town University

1. Exploration of agripreneurial potential of Maitake mushroom through supply of quality spawn and imparting training towards capacity building on mushroom production technologies to farmers and local growers including unemployed women of Northeast India
2. Utilizing mushroom spent substrate for the production of vermicompost

#### Gauhati University

1. Large scale evaluation, validation and need based refinement of the cultivation technology of Maitake (*Grifola frondosa*) mushroom using locally available substrates
2. Exploration of agripreneurial potential of Maitake mushroom through supply of quality spawn and imparting training towards capacity building on mushroom production technologies to farmers and local growers including unemployed women of Northeast India
3. Evaluation of nutraceuticals of Maitake mushroom, identification of diseases and competitive inhibitor organisms that effect productivity under local conditions

#### ICAR Research Complex for North East Hill Region

1. Large scale evaluation, validation and need based refinement of the cultivation technology of shiitake mushroom using locally available substrates
2. Exploration of agripreneurial potential of shiitake mushroom through skill development and nutritional branding based on scientific validation

#### ICAR-Indian Agricultural Research Institute

1. Evaluation of key bioactives and validation for their anti-hyperglycaemic, anti-ageing and anti-cancerous activities using in vitro models in the shiitake germplasm of NER for nutritional labeling

## 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. **17423405/-** (Rupees One Crores Seventy Four Lakhs Twenty Three Thousand Four Hundred and Five Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. ASSAM DOWN TOWN UNIVERSITY	528400	528400	378400	<b>1435200</b>
2. Gauhati University	2490155	1992975	1454755	<b>5937885</b>
3. ICAR Research Complex for North East Hill	3135040	1385040	1436880	<b>5956960</b>



Region				
4. Indian Agricultural Research Institute	2211280	1111280	770800	<b>4093360</b>
<b>Total (Rs.)</b>	<b>8364875</b>	<b>5017695</b>	<b>4040835</b>	<b>17423405</b>

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
<b>1. ICAR Research Complex for North East Hill Region</b>				
Equipment	1650000.00			<b>1650000.00</b>
Manpower	635040.00	635040.00	686880.00	<b>1956960.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Travel	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	700000.00	600000.00	600000.00	<b>1900000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>
<b>Total (Rs.)</b>	<b>3135040.00</b>	<b>1385040.00</b>	<b>1436880.00</b>	<b>5956960.00</b>
<b>2. Gauhati University</b>				
Equipment	200000.00			<b>200000.00</b>
Manpower	916800.00	916800.00	916800.00	<b>2750400.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	350000.00	300000.00	300000.00	<b>950000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>
Cost of Training & Demonstration Unit	923355.00	676175.00	137955.00	<b>1737485.00</b>
<b>Total (Rs.)</b>	<b>2490155.00</b>	<b>1992975.00</b>	<b>1454755.00</b>	<b>5937885.00</b>
<b>3. Indian Agricultural Research Institute</b>				
Equipment	1100000.00			<b>1100000.00</b>
Manpower	461280.00	461280.00	520800.00	<b>1443360.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Travel	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	500000.00	500000.00	100000.00	<b>1100000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>
<b>Total (Rs.)</b>	<b>2211280.00</b>	<b>1111280.00</b>	<b>770800.00</b>	<b>4093360.00</b>
<b>4. ASSAM DOWN TOWN UNIVERSITY</b>				
Manpower	278400.00	278400.00	278400.00	<b>835200.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	150000.00	150000.00		<b>300000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>

<b>Total (Rs.)</b>	<b>528400.00</b>	<b>528400.00</b>	<b>378400.00</b>	<b>1435200.00</b>
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## 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. 88</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2020-2021
<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:

<b>Demand No. 88</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2020-2021
<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>3425.60.200.29.17.31</b>	Grants -in-Aid General

## 4. Terms & Conditions:

Additional Terms and Conditions

- 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.

h. 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.
- 4.2A** 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. If the institute fails to give the interest earned details, Overhead grant may be withheld in subsequent releases. **As per provision contained in the Rule 230 (8) of GFR 2017, all interest/other earning occurred against grant-in-aid shall be mandatorily remitted to the Consolidated Fund of India (CFI) through the online portal [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in) only.**
- 5.** No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 6.** The Director, ICAR Research Complex for North East Hill Region, Shillong, Meghalaya and The Director, Indian Agricultural Research Institute, New Delhi, Delhi (UT) and The Registrar, Assam Down Town University, Guwahati, Assam and The Registrar, Gauhati University, Guwahati, Assam 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-05/2019 dated on 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 Organisations 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 Organisation 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/3240/2020-2021** dated **March 30, 2021**.
- 12.** This sanction order has been noted at serial no. 251-252 in the Register of Grants.

250

Vaishali

(Dr. Vaishali Panjabi)

Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI

वैज्ञानिक 'ई' / Scientist 'E'

बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology

विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.

भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**To,**

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

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Director, ICAR Research Complex for North East Hill Region, Shillong - 793103, Meghalaya
- 3 The Director, Indian Agricultural Research Institute, Pusa Campus, New Delhi - 110012
- 4 The Registrar, Assam Down Town University, Gandhinagar, Guwahati - 781026, Assam
- 5 The Registrar, Gauhati University, Guwahati - 781014, Assam
- 6 Dr. Anil Dahuja, Principal Scientist, Department of Biochemistry, ICAR- Indian Agricultural Research Institute (IARI), Pusa Campus, New Delhi - 110012
- 7 Dr. Arati Ningombam, Scientist, Department of Agricultural Entomology, ICAR Research Complex for NEH Region, Manipur Centre, Lamphelpat, Imphal - 795004, Manipur
- 8 Dr. Subhra Saikat Roy, Senior Scientist, Department of Horticulture, ICAR Research Complex for NEH Region, Manipur Centre, Lamphelpat, Imphal-795004, Manipur
- 9 Dr. Mohammad Imtiyaj Khan, Assistant Professor, Department of Biotechnology, Gauhati University, Gopinath Bordoloi Nagar, Kamrup - 781014, Assam
- 10 Dr. Minakshi Bhattacharjee, Associate Professor, Department of Biotechnology, Assam Down Town University, Gandhi Nagar, Kamrup - 781026, Assam
- 11 Dr. Raghuvver Singh, Scientist, Department of Plant Pathology, ICAR Research Complex for NEH Region, Basar - 791101, Arunachal Pradesh
- 12 Dr. Veda Krishnan, Scientist, Department of Biochemistry, ICAR- Indian Agricultural Research Institute (IARI), Pusa Campus, New Delhi - 110012
- 13 Dr. Rajeev Sarmah, Associate Professor, Department of Botany, Assam Down Town University, Gandhi Nagar, Kamrup - 781026, Assam
- 14 Dr. Debasish Borbora, Assistant Professor, Department of Biotechnology, Gauhati University, Kamrup - 781014, Assam
- 15 Dr. Pranjal Baruah, General Secretary, Mushroom Development Foundation (MDF), Uzanbazar, Guwahati - 781001, Assam
- 16 Dr. Susheel Kumar Sharma, Scientist, Department of Plant Pathology, ICAR Research Complex for NEH Region, Manipur Centre, Lamphelpat, Imphal - 795004, Manipur
- 17 Cash Section, DBT (2 copies).
- 18 Sanction Folder.
- 19 File Copy.

*Vaishali*

**(Dr. Vaishali Panjabi)**

**Scientist 'E'**

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**Annexure -I**

Details of the Equipment sanctioned for the implementation of the project entitled "**Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and Promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India**":

<b>ICAR Research Complex for North East Hill Region</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Controlled Temperature BOD Incubator	1	350000.00
2.	Laminar Air flow hood	1	300000.00
3.	Horizontal Floor Model Autoclave	1	400000.00
4.	Refrigerator Freezer	1	150000.00
5.	Automatic Temperature controller units with timer	1	100000.00
6.	Wood crusher	1	150000.00
7.	Bag filling machine	1	200000.00
<b>Total</b>			<b>1650000.00</b>
<b>Gauhati University</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Autoclave	1	35000.00
2.	pH meter	1	75000.00
3.	Analytical balance (0.1 mg)	1	90000.00
<b>Total</b>			<b>200000.00</b>
<b>Indian Agricultural Research Institute</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	CO2 incubator	1	500000.00
2.	Cell imaging microscope	1	600000.00
<b>Total</b>			<b>1100000.00</b>

*Vaishali*

**(Dr. Vaishali Panjabi)**

Dr. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'

बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o 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 "**Exploring Nutraceutical Potential of Shiitake (*Lentinula edodes*) and Maitake (*Grifola frondosa*) Mushrooms and Promotion of its Production for Entrepreneurial and Socioeconomic Livelihood in North East India**":

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
<b>1. ASSAM DOWN TOWN UNIVERSITY</b>					
Research Assistant / Project Assistant @Rs. 20000/- + 16% HRA 1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> year	1	278400	278400	278400	<b>835200</b>
<b>Total(Rs.)</b>		<b>278400</b>	<b>278400</b>	<b>278400</b>	<b>835200</b>
<b>2. Gauhati University</b>					
Laboratory Assistant @Rs. 20000/- + 16% HRA 1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> year	2	556800	556800	556800	<b>1670400</b>
Field coordinator / Project Coordinator @Rs. 30000/- Fixed per month 1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> year	1	360000	360000	360000	<b>1080000</b>
<b>Total(Rs.)</b>		<b>916800</b>	<b>916800</b>	<b>916800</b>	<b>2750400</b>
<b>3. ICAR Research Complex for North East Hill Region</b>					
Field Worker @Rs. 18000/- + 8% HRA 1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> year	1	233280	233280	233280	<b>699840</b>
Project Associate-I @Rs. 31000/- + 8% HRA 1 <sup>st</sup> and 2 <sup>nd</sup> year	1	401760	401760	0	<b>803520</b>
Project Associate-II @Rs. 35000/- + 8% HRA 3 <sup>rd</sup> year	1	0	0	453600	<b>453600</b>
<b>Total(Rs.)</b>		<b>635040</b>	<b>635040</b>	<b>686880</b>	<b>1956960</b>
<b>4. Indian Agricultural Research Institute</b>					
Junior Research Fellow @ Rs. 31,000/+24% HRA 1 <sup>st</sup> &2 <sup>nd</sup> year and Senior Research Fellow @ Rs. 35,000/- + 24% HRA 3 <sup>rd</sup> year	1	461280	461280	520800	<b>1443360</b>
<b>Total(Rs.)</b>		<b>461280</b>	<b>461280</b>	<b>520800</b>	<b>1443360</b>

*Vaishali*

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 10.07.2020 for all other categories.



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

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक 'ई' / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / Mo Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

भारतीय अन्तरिक्ष अनुसंधान संगठन

अन्तरिक्ष विभाग

भारत सरकार

अन्तरिक्ष भवन

न्यू बी ई एल रोड, बेंगलूरु - 560 231, भारत

दूरभाष : +91 80 2341 5474

फैक्स :



Indian Space Research Organisation

Department of Space

Government of India

Antariksh Bhavan

New BEL Road, Bengaluru - 560 231, INDIA

Tel (Off) : +91 80 2341 5474

Fax :

Dr. M A Paul  
Assoc. Director, RESPOND & AI  
CBPO

☎: 080-23415269/22172269  
FAX-080-23412471  
email:respond@isro.gov.in

ISRO/RAC-S/GU/2021-22

July 20, 2021

Dear Dr. Madhurjya Bora,

**Sub: Approval of Annual Grants to RACS at Gauhati University, Guwahati- reg.**

This has reference to your letter dated June 29, 2021 requesting for release of ISRO grants for the Regional Academic Centre for Space at Gauhati University, Guwahati. In this regard, I wish to inform you that, Chairman, ISRO/Secretary, DOS has approved the following:

1. Approval of annual grants of ₹34,67,112/- (**Rupees Thirty Four Lakh Sixty Seven Thousand One Hundred and Twelve only**) towards meeting the expenditure of the RACS during the year 2021-22 (Copy enclosed).
2. Release of an amount of ₹22,62,528/- (**Rupees Twenty Two Lakh Sixty Two Thousand Five Hundred and Twenty Eight only**) as first instalment (which includes total grants for equipment during first year) towards expenditure during the year 2021-22.
3. The terms and conditions for the ISRO approval are in accordance with the DOS sanction order. Annual report on the RACS activities, Fund Utilization Certificate (FUC) and Audited Accounts Statement (AAS) for the ISRO grants should be submitted on completion of the financial year. The FUC and AAS should be sent to The Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru: 560 094 with a copy to the undersigned.

**You may kindly note that the above grant is only One fourth of the total grants to be released during the financial year 2021-22.** You may kindly submit the Statement of Expenditure for the First Quarter in the enclosed format after the utilization of the released amount. The Statement of Expenditure shall be signed by Head of the Institute. Based on the fund status as per the Statement of Expenditure submitted by you, the grants for the next quarter will be released.



You may kindly note that, as per the Government of India rules, the interest accrued on the ISRO grants shall not be used for any purpose and it is mandatory to refund the interest amount accrued to the **Consolidated Fund of India** at the completion of financial year. The amount shall be refunded through a Demand Draft (DD) drawn in favor of Pay & Accounts Officer, Dept. of Space Bengaluru/through electronic means. In case of DD, the DD shall be sent to the Pay & Accounts Officer, Dept. of Space, Antariksh Bhavan, ISRO HQs, New BEL Road, Bengaluru: 560 094.

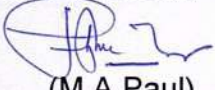
As per the revised fellowship norms, you have to appoint a person with PG Degree in Basic Science OR Graduate/Post Graduate Degree in Professional Course selected through a process described through any one of the following: (a) Scholars who are selected through **National Eligibility Tests – CSIR-UGC NET including lectureship (Assistant Professorship) and GATE** (b) The selection process through National level examinations conducted by Central Government Departments and their Agencies and institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc. as JRF. For more details, please find the enclosed orders.

You are also requested to submit the details of equipment procured for the projects in the enclosed format at the end of the financial year.

**You are requested to send the enclosed Grant-in-Aid bill and Electronic Transfer Mandate Form duly filled and signed in original to the Pay and Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru : 560 094 with a copy to the undersigned for releasing the grants at the earliest.**

With Regards,

Yours sincerely,



(M A Paul)

**Dr. Madhurjya P Bora**  
**Regional Coordinator**  
**Professor, Physics Department**  
**Gauhati University**  
**Guwahati: 781 014**  
**Assam**

CC: Director, CBPO, ISRO HQs  
Vice Chancellor, Gauhati University, Guwahati, Assam  
Registrar, Gauhati University, Guwahati, Assam  
JPMC Members, ISRO

No.DS\_2B.13012(2)/9/2021-Sec.2  
भारत सरकार/Government of India  
अंतरिक्ष विभाग/Department of Space  
\*\*\*

Antariksh Bhavan,  
New BEL Road,  
Bengaluru - 560 094.

July 20 , 2021

The Vice Chancellor,  
Gauhati University,  
Guwahati – 781 014.

Sir,

Sub: Grant-in-aid – RESPOND – Release of grant for the Regional Academic Centre for Space activities at Gauhati University – First instalment - reg.

\* \* \*

I am directed to convey the sanction of the President to a grant of ₹34,67,112/- (Rupees Thirty four lakh sixty seven thousand one hundred and twelve only) to meet the expenditure towards the projects and other activities of Regional Academic Centre for Space at Gauhati University, Guwahati during the year 2021-2022 and also for the release of ₹22,62,528/- to meet the expenditure as the first instalment.

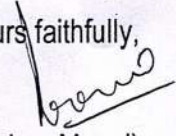
2. An amount of ₹22,62,528/- (Rupees Twenty two lakh sixty two thousand five hundred and twenty eight only) will be paid to you by the Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru - 560 094 on receipt of the bill.
3. The grant-in-aid sanctioned shall be subject to the terms and conditions mentioned in the Annexure enclosed.
4. A separate account for the grant-in-aid sanctioned will have to be maintained which are subject to scrutiny by the Indian Audit and Accounts Department who will also have the right of access to the Book of Accounts.
5. Accounts of expenses incurred out of grant should be prepared, maintained and authenticated by approved auditors. The final accounts statement in duplicate duly audited should be sent to the Pay & Accounts Officer, Department of Space, Bengaluru - 560 094 at the end of each financial year of support.
6. The future installment of sanctioned grant/release of new grant-in-aid shall be subject to mandatory usage of Expenditure, Advance and Transfer (EAT) module in PFMS portal. An e-Utilisation Certificate shall be submitted in GFR 12A format (GFR 2017) through PFMS- EAT module.

2/-

7. The interest earned from grants released, if any, should be returned to Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru – 560 094 in the form of Demand Draft at the end of each financial year of support.

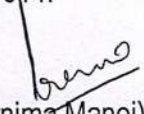
8. The expenditure involved is debitible to "Head: 3402.00.103.09.00.31- Space Research- Space Sciences-RESPOND- GIA-General" - under 'Grant No.94 - Department of Space' for the financial year 2021-2022.

Yours faithfully,

  
(पूर्णिमा मनोज/Poornima Manoj)  
(वरिष्ठ लेखा अधिकारी/Sr.Accounts Officer)

Copy for information and necessary action to:

1. The Director, CBPO, ISRO Hq., Bengaluru
2. Associate Director, RESPOND & AI, ISRO Hq., Bengaluru  
(Ref No.RAC-S/RES/2021-22 dated 06.07.2021)
3. The Director General of Audit, Environment & Scientific Departments, AGCR Building, IP Estate, New Delhi – 110 002.
4. The Director, O/o the Director General of Audit, Environment & Scientific Departments, Antariksh Bhavan, New BEL Road, Bengaluru - 560 094
5. Chief Controller of Accounts, DOS
6. Senior Accounts Officer, ISRO Hq., Bengaluru
7. The Pay & Accounts Officer, Department of Space, Bengaluru - With a request to make the payment of ₹22,62,528/- (Rupees Twenty two lakh sixty two thousand five hundred and twenty eight only) in favour of "The Registrar, Gauhati University" on receipt of the Bill.:
8. The Senior Head (Internal Audit), DOS, Bengaluru
9. Dr. Madhurjya P Bora, Coordinator, RAC-S, Gauhati University, Guwahati– 781 014.

  
(पूर्णिमा मनोज/Poornima Manoj)  
(वरिष्ठ लेखा अधिकारी/Sr.Accounts Officer)



विश्वविद्यालय अनुदान आयोग  
University Grants Commission  
शिक्षा मंत्रालय, भारत सरकार  
(Ministry of Education, Govt. of India)  
बहादुर शाह जफर मार्ग नई दिल्ली-110002  
Bahadurshah Zafar Marg, New Delhi - 110002



FD Diary No. 2990  
Dated:05.08.2021

Dated: August, 2021

No.F.19-255/2021(BSR)

The Under Secretary (FD-III)  
University Grants Commission  
Bahadur Shah Zafar Marg  
New Delhi-110 002.

19 AUG 2021

**Sub:-** Approval cum Sanction letter for Mid-Career Award Grant to faculty/Professors of Science departments of various universities under "UGC-BSR Mid-Career Award Grant"-Release of grant for the financial year 2021-2022 under Revenue- First Installment-regarding.

Sir/Madam,

The University Grants Commission convey its approval and allocate a sum of ₹10,00,000/-(Rupees Ten Lakh only) to the Registrar, Gauhati University, Guwahati-781 014(Assam) towards Mid-Career Award Grant to the faculty members of science departments who are continued to be in active service for augmenting of research facilities(but not as contingent grant) to further facilitate in research work under the scheme of UGC-BSR Mid-Career Award Grant.

Accordingly, I am further directed to convey the sanction of the University Grants Commission on account grant of ₹8,00,000/-(Rupees Eight Lakh Only)(80% of the approval grant of ₹10,00,000/-) to the Registrar, Gauhati University, Guwahati-781 014(Assam) towards Mid-Career Award Grant to Faculty Members/Professors for Science Department for the Revenue expenditure to be incurred during the financial year 2021-2022 as per details given below:-

Name of the Scheme	Head of Account	Name of Faculty/Professor	Name of Department	Amount Approved	Amount being release (80%)
"UGC-BSR Mid-Career Award Grant"	3(D) 31	Prof. Prodeep Phukan	Chemistry	₹10,00,000/-	₹8,00,000/-

- The University/institution shall ensure that all the payments of approved items to the beneficiaries/vendors shall be made only through the EAT module of PFMS.
- The sanctioned amount is debitible to Head of Account 3 (D) 31 and is valid for payment during the financial year 2021-2022.
- The amount of the Grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the Registrar, Gauhati University, Guwahati-781 014(Assam) through Electronic mode as per the following details:

a. Details (Name & Address) of Account Holder	:	The Registrar, Gauhati University, Guwahati-781 014(Assam)
b. Account No.	:	10671301129
c. Name & Address of Bank Branch	:	Reserve Bank of India, 6, Sansad Marg, Sansad Marg Area, New Delhi-110001
d. MICR Code	:	-
e. IFSC Code/ Branch Code	:	RBIS0PFMS01
f. Type of Account	:	Saving

- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- The University/institution shall maintain proper accounts of the expenditure out of the Grant which shall be utilized only on the approved items of expenditure.
- The University/institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs,2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRS, 2017 and instructions/guideline there under from time to time.
- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the UGC as early as possible after the close of the current financial year.



सत्यमेव जयते

No.F.30-386/2017 (BSR)

The Under Secretary FD-III Section,  
University Grants Commission  
Bahadur Shah Zafar Marg,  
New Delhi – 110002.

5.110-14(I)  
विश्वविद्यालय अनुदान आयोग  
University Grants Commission  
शिक्षा मंत्रालय, भारत सरकार  
(Ministry of Education, Govt. of India)  
बहादुर शाह जफर मार्ग नई दिल्ली-110002  
Bahadurshah Zafar Marg, New Delhi - 110002



ज्ञान-विज्ञान विमुक्तये

FD Diary No. 3621  
Dated : 13.09.2021

Dated: September, 2021

o/c

23 SEP 2021

**Subject: - Approval-cum-Sanction letter for UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments of various Universities – Release of the grant for the year 2021-2022 under Revenue Second Installment-regarding.**

Sir,

I am directed to convey the sanction of the University Grants Commission for payment of ₹1,98,099/- (Rupees One Lakh Ninety Eight Thousand Ninety Nine only)(20% of approved Grant ₹10.00 Lakh) by way of reimbursement to the Registrar, Gauhati University, Guwahati-781014 Assam towards UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments as per details given below, the expenditure to be incurred during 2021-2022.

Name of the Item	Head of Account	Name of Faculty / Professor	Name of Departments	Amount being Sanctioned (20%)	Amount Already Sanctioned (80%)	Total grant Sanctioned
UGC-BSR Start-up grant for newly recruited faculty	3(D) 31	Dr. Niraj Agarwala	Botany	₹1,98,099/-	₹8,00,000/-	₹9,98,099/-

- The University/Institution shall ensure that all the payments of approved items to the beneficiaries/Vendors shall made through the EAT module of PFMS.
- The sanctioned amount is debitable to the major Head 3(D) 31 and is valid for payment during the financial year 2021-22 only.
- The amount of the Grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the Registrar, Gauhati University, Guwahati-781014, Assam through Electronic mode as per the following details:

a.	Details (Name & Address) of Account Holder	:	The Registrar, Gauhati University, Guwahati-781014 Assam
b.	Account No.	:	10671301129
c.	Name & Address of Bank Branch	:	Reserve Bank of India, 6, Sansad Marg, Sansad Marg Area, New Delhi, Delhi 110001
d.	MICR Code	:	-
e.	IFSC Code	:	RBIS0PFMS01
f.	Type of Account	:	Saving

- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2017 and instructions/guideline there under from time to time.
- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the UGC as early as possible after the close of the current financial year.
- The assets acquired wholly or substantially out of University Grants Commission's Grant Shall not be disposed or encumbered or utilized for the purposes other than those for which the grants was given, without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.
- A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed proforma.

Deanship  
महा कौशिक / महा  
शिक्षा अधिकारी  
विश्वविद्यालय  
University  
शिक्षा मंत्रालय  
Ministry of Education  
नई दिल्ली

11. The grantee institution shall ensure the utilization of grants-in-aid for which it is being **sanctioned** / paid. In case of non-utilization/part utilization thereof, simple interest @ 10 % per annum as amended from time to time on the unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.
12. The University / Institution shall follow strictly the Government of India / UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal (for persons with disability etc.)] in teaching and non-teaching posts.
13. The University / Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.
14. The sanction is issued in exercise of the delegation of powers vide UGC Order No. 130/2013 [F.No. 10-11/12 (Admn. IA & B)] dated 28/5/2013.
15. The University /Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009.
16. The University / Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
17. The accounts of the University / Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2017
18. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
19. An amount of Rs.8,00,000/- (Rupees Twenty Four lakh Only) Out of the grant Rs.8,00,000/- (Rupees Eight Lakh Only) Sanctioned vide letter No.30-386/2017(BSR) dated 12.12.2017 has been utilized for the purpose for which it has sanctioned and noted **P.No.17 & S.No.75** (BCR Register 2017-2018).
20. This issues with the concurrence of IFD vide Diary No.1583 Dated 12.08.2021.
21. This issues with the approval of **Secretary, UGC** vide Diary No.67463 Dated 27.08.2021

Noted in BCR Register 2021-2022 at P.No. 51 & S.No. 52

Yours faithfully,

*Megha Kaushik*  
20/9/21  
(Megha Kaushik)

Education Officer

मेघा कौशिक / MEGHA KAUSHIK

शिक्षा अधिकारी / Education Officer

विश्वविद्यालय अनुदान आयोग

University Grants Commission

शिक्षा मंत्रालय, भारत सरकार

Ministry of Education, Govt. of India  
नई दिल्ली-110 002 / New Delhi-110 002

Copy forwarded for information and necessary action to:-

1. **The Registrar,**  
Gauhati Universtiy,  
Guwahati-781014 Assam.  
He/She is requested to abide by these instructions/guidelines of sanction order.
2. **The Secretary (Education),**  
The State Government of Assam  
Guwahati.
3. **The Head,**  
Department of Botany,  
Gauhati Universtiy,  
Guwahati-781014, Assam.
4. **Dr. Niraj Agarwala**  
Assistant Professor  
Department of Botany,  
Gauhati Universtiy,  
Guwahati-781014, Assam.
5. **The Director General of Audit,**  
Central Revenues, AGCR Building,  
I.P. Estate, New Delhi.
6. **Guard File.**



*Poonam Arora*  
(Poonam Arora)  
Section Officer



विश्वविद्यालय अनुदान आयोग  
University Grants Commission  
विद्या मंत्रालय, भारत सरकार  
(Ministry of Education, Govt. of India)  
बहादुर शाह जफर मार्ग नई दिल्ली-110002  
Bahadurshah Zafar Marg, New Delhi - 110002



ज्ञान-विज्ञान विमुक्तये

FD Diary No. 5824  
Dated: 10.11.2021

Dated: November, 2021

No.F.30-585/2021(BSR)

The Under Secretary FD-III Section,  
University Grants Commission  
Bahadur Shah Zafar Marg,  
New Delhi - 110002.

18 NOV 2021

**Subject: -** Approval-cum-Sanction letter for UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments of various Universities – Release of the grant for the year 2021-2022 under revenue.

Sir,

The University Grants Commission convey its approval and allocate a sum of ₹20,00,000/- (Rupees Twenty Lakh Only) (@10.00 Lakh to each faculty) to the Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam being the UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level of Science Departments.

Accordingly, I am further directed to convey the sanction of the University Grants Commission for payment of ₹16,00,000/- (Rupees Sixteen Lakh only) (80% of the approved Grant of ₹10.00 Lakh to each faculty) to the Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam towards UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments as per details given below, the expenditure to be incurred during 2021-2022.

Name of the Item	Head of Account	Name of Faculty/Professor	Name of Departments	Amount Approved (₹)	Amount being released (₹)
UGC-BSR Start-up grant for newly recruited faculty at Assistant Professors level	3(D) 31	Dr. Arabinda Baruah	Chemistry	10,00,000/-	8,00,000/-
		Dr. Himangshu Prabal Goswami		10,00,000/-	8,00,000/-
				Total	20,00,000/-

- \*Grantee Institutions of the UGC shall ensure that all the payments of approved items to the beneficiaries/vendors shall be made only through the TSA module of PFMS and assignments received from the UGC through TSA module have to be utilized before 31<sup>st</sup> March of the year. Balances remaining unutilized at the close of the year (31<sup>st</sup> March) will lapse to the Government and hence written back in Government Account".
- The sanctioned amount is debit to the major Head 3(D) 31 and is valid for payment during the financial year 2021-22 only.
- The amount of the Grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam through Electronic mode as per the following details:

a.	Details (Name & Address) of Account Holder	:	The Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam
b.	Account No.	:	10671301129
c.	Name & Address of Bank Branch	:	Reserve Bank of India, 6, Sansad Marg, Sansad Marg Area, New Delhi-110001
d.	MICR Code	:	-
e.	IFSC Code/ Branch Code	:	RBIS0PFMS01
f.	Type of Account	:	Saving

- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2017 and instructions/guideline there under from time to time.

8. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the UGC as early as possible after the close of the current financial year.
  9. The assets acquired wholly or substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grants was given, without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.
  10. A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed proforma.
  11. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned / paid. In case of non-utilization/part utilization thereof, simple interest @ 10 % per annum as amended from time to time on the unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.
  12. The University / Institution shall follow strictly the Government of India / UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal (for persons with disability etc.)] in teaching and non-teaching posts.
  13. The University / Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1978 etc.
  14. The sanction is issued in exercise of the delegation of powers vide UGC Order No. 130/2013 [F.No. 10-11/12 (Admn. IA & B)] dated 28/5/2013.
  15. The University /Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009.
  16. The University / Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
  17. The accounts of the University / Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2017.
  18. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
  19. This issues with the concurrence of IFD vide Diary No. 2381 Dated 01.10.2021.
  20. This issues with the approval of Chairman, UGC vide Diary No. 45483 Dated:08.10.2021.
- Noted in BCR Register 2021-2022 at P.No...60.... & S.No. 80

Yours faithfully,

(Megha Kaushik)  
Education Officer

Copy forwarded for information and necessary action to:-

1. The Registrar,  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
- He/She is requested to abide by these instructions/guidelines of sanction order.
2. The Secretary (Education)the State Government of Assam,  
Guwahati
3. The Head,  
Department of Chemistry  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
4. Dr. Arabinda Baruah  
Assistant Professor,  
Department of Chemistry  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
5. Dr. Himangshu Prabal Goswami  
Assistant Professor,  
Department of Chemistry  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
6. The Director General of Audit,  
Central Revenues, AGCR Building,  
I.P. Estate, New Delhi.
7. Guard file

(Prasanna Arora)  
Section Officer





विश्वविद्यालय अनुदान आयोग  
University Grants Commission  
विद्या मंत्रालय, भारत सरकार  
(Ministry of Education, Govt. of India)  
बहादुर शाह जफर मार्ग नई दिल्ली-110002  
Bahadurshah Zafar Marg, New Delhi - 110002



ज्ञान-विज्ञान विमुक्तये

FD Diary No. 5824  
Dated: 10.11.2021

Dated: November, 2021

No.F.30-585/2021(BSR)

The Under Secretary FD-III Section,  
University Grants Commission  
Bahadur Shah Zafar Marg,  
New Delhi - 110002.

18 NOV 2021

**Subject: -** Approval-cum-Sanction letter for UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments of various Universities – Release of the grant for the year 2021-2022 under revenue.

Sir,

The University Grants Commission convey its approval and allocate a sum of ₹20,00,000/- (Rupees Twenty Lakh Only) (@10.00 Lakh to each faculty) to the Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam being the UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level of Science Departments.

Accordingly, I am further directed to convey the sanction of the University Grants Commission for payment of ₹16,00,000/- (Rupees Sixteen Lakh only) (80% of the approved Grant of ₹10.00 Lakh to each faculty) to the Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam towards UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments as per details given below, the expenditure to be incurred during 2021-2022.

Name of the Item	Head of Account	Name of Faculty/Professor	Name of Departments	Amount Approved (₹)	Amount being released (₹)
UGC-BSR Start-up grant for newly recruited faculty at Assistant Professors level	3(D) 31	Dr. Arabinda Baruah	Chemistry	10,00,000/-	8,00,000/-
		Dr. Himangshu Prabal Goswami		10,00,000/-	8,00,000/-
		Total		20,00,000/-	16,00,000/-


- \*Grantee Institutions of the UGC shall ensure that all the payments of approved items to the beneficiaries/vendors shall be made only through the TSA module of PFMS and assignments received from the UGC through TSA module have to be utilized before 31<sup>st</sup> March of the year. Balances remaining unutilized at the close of the year (31<sup>st</sup> March) will lapse to the Government and hence written back in Government Account".
- The sanctioned amount is debit to the major Head 3(D) 31 and is valid for payment during the financial year 2021-22 only.
- The amount of the Grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam through Electronic mode as per the following details:

a.	Details (Name & Address) of Account Holder	:	The Registrar, Gauhati University, Gopinath Bordoloi Nagar, Gawahati-781 014, Assam
b.	Account No.	:	10671301129
c.	Name & Address of Bank Branch	:	Reserve Bank of India, 6, Sansad Marg, Sansad Marg Area, New Delhi-110001
d.	MICR Code	:	-
e.	IFSC Code/ Branch Code	:	RBIS0PFMS01
f.	Type of Account	:	Saving

- The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- The University / Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.
- The University / Institution may follow the General Financial Rules, 2017 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2017 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2017 and instructions/guideline there under from time to time.


8. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the UGC as early as possible after the close of the current financial year.
  9. The assets acquired wholly or substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grants was given, without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.
  10. A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed proforma.
  11. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned / paid. In case of non-utilization/part utilization thereof, simple interest @ 10 % per annum as amended from time to time on the unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.
  12. The University / Institution shall follow strictly the Government of India / UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal (for persons with disability etc.)] in teaching and non-teaching posts.
  13. The University / Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1978 etc.
  14. The sanction is issued in exercise of the delegation of powers vide UGC Order No. 130/2013 [F.No. 10-11/12 (Admn. IA & B)] dated 28/5/2013.
  15. The University /Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009.
  16. The University / Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
  17. The accounts of the University / Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2017.
  18. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
  19. This issues with the concurrence of IFD vide Diary No. 2381 Dated 01.10.2021.
  20. This issues with the approval of Chairman, UGC vide Diary No. 45483 Dated:08.10.2021.
- Noted in BCR Register 2021-2022 at P.No...60.... & S.No. 80

Yours faithfully,

  
(Megha Kaushik)  
Education Officer

Copy forwarded for information and necessary action to:-

1. The Registrar,  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
- He/She is requested to abide by these instructions/guidelines of sanction order.
2. The Secretary (Education)the State Government of Assam,  
Guwahati
3. The Head,  
Department of Chemistry  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
4. Dr. Arabinda Baruah  
Assistant Professor,  
Department of Chemistry  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
5. Dr. Himangshu Prabal Goswami  
Assistant Professor,  
Department of Chemistry  
Gauhati University,  
Gopinath Bordoloi Nagar,  
Gawahati-781 014, Assam
6. The Director General of Audit,  
Central Revenues, AGCR Building,  
I.P. Estate, New Delhi.
7. Guard file

  
(Purnima Arora)  
Section Officer



**icmr**  
INDIAN COUNCIL OF  
MEDICAL RESEARCH  
Serving the nation since 1911

भारताय आयुर्विज्ञान अनुसंधान पारषद  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य एवं परिवार  
कल्याण मंत्रालय, भारत सरकार

Indian Council of Medical Research  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India

No. Tribal/CFP/17/2018-ECD-II

Dated:

To

**The Director,**  
Guwahati University,  
Jalukbari,  
Guwahati-781014,  
Assam

**Sub: Payment of Staff Salary of 6 months to Research Assistant & Project Technician-III for the project entitled, "Evaluate the role of oxidative stress in HEV related pregnancy complications and outcome: A hospital based study from northeast India" under Dr. Sujoy Bose, Assistant Professor, Guwahati University, Guwahati, Assam**

Dear Sir,

This is in reference to your letter No.NIL, dated 05.08.2021 regarding Staff Salary of 6 months to Research Assistant & Project Technician-III of the above project from 20.06.2021 to 19.12.2021.

I would like to convey herewith approval of Competent Authority for payment of **Rs.3,06,900/-** on account of Staff Salary of 6 months to Research Assistant & Project Technician-III of the above project for the period 20.06.2021 to 19.12.2021.

*(Handwritten signature)*  
25/11/2021  
(Ved Prakash)

Administrative Officer

**Accounts-V,ICMR** together with a Formal Bill of **Rs. 3,06,900/-** for payment to The Director, Guwahati University, Jalukbari, Guwahati-781014, Assam

Copy to:-

- Dr. Sujoy Bose, Assistant Professor, Guwahati University, Jalukbari, Guwahati-781014, Assam**
- Mrs. Vandana, Sr. Technical Officer (2), ICMR**

*(Handwritten signature)*  
25/11/2021  
(Ved Prakash)

Administrative Officer

**Budget for Six**  
**(20.06.2021 to 19.12.2021)**

Head	Positions	Salary per month	During the requested extension period of 6 months
A	Research Assistant(1)	32350/-	1,94,100/-
	Project Technician-III(1)	18800/-	1,12,800/-
	<b>Total</b>	-	<b>3,06,900/-</b>

*Ved Prakash*  
*23/7/2021*  
(Ved Prakash)  
Administrative Officer

**BODOLAND TERRITORIAL COUNCIL SECRETARIAT:::KOKRAJHAR**  
**(WPT&BC DEPARTMENT)**

No. BTC/WPT-102/2021/7,

Dated Kokrajhar the 6<sup>th</sup> December/2021

From : Smt. Pami Brahma, ACS  
Joint Secretary,  
BTC, Kokrajhar  
To : The Addl. Director cum CHD,  
WPT&BC Department, BTC, Kokrajhar  
Sub : **Administrative Approval.**

Sir,

With reference to the subject cited above, I am directed to say that the Bodoland Territorial Council is pleased to accord Administrative Approval as financial Assistance for launching different research-based project, infrastructure development, organizing workshop & seminars under the initiative of National Institute of Bodology (NIB) at an estimated cost Rs 63,43,800.00 (Rupees sixty-three lakhs forty-three thousand eight hundred) only.

Sl No.	Name of proposed project	Amount
1	Multilingual Dictionary of Bodo- Dimasa-Kokborok-English	Rs.6,30,000.00
2	Bodo and Dimasa Heritage Dijital Archive	Rs.6,15,000.00
3	Linguistic Documentation of Bodo Language	Rs.6,00,100.00
4	Bodo Mother tonge based multilingual Education: A model for quality education.	Rs.5,85,000.00
5	Devlopment of Digital Study materials	Rs.4,14,000.00
6	A premiminery study on the livelihood of the Meches in Nepal and Bodos in BTR	Rs.8,84,700.00
7	A Documentation of Bodo culture (with reference to folk song folk dance, folk tale and folk belief)	Rs.4,45,000.00
8	Origin and Development of Bodo drama A historical and analytical study	Rs.4,70,000.00
9	A survey on sources of Bodo Oral Tradition to Reconstruct the history of Bodos.	Rs.5,00,000.00
10	Human Development Report in BTR	Rs.6,00,000.00
11	Webside Development of NIB	Rs.1,00,000.00
12	Publication (textbooks, children's materials, translated works, etc.)	Rs.5,00,000.00

Total Rs.63,43,800.00

(Rupees Sixty-three lakhs forty-three thousand eight hundred) only

The expenditure will be met from the "Council Fund" under the Head of Account- 8443-Civil Deposit (BTC) and Debitable to the Head of Account 2225 WPT & BC, 02 ST 800-OE, 0107 Assistance to BAC -000-26- other charges 99-other (vi) FA to NIB for Instructure Dev. & various Activities under SOPD- Grant No.78 for the year 2021-22.

Yours faithfully,

Encl : As stated above.

Joint Secretary,  
Bodoland Territorial Council,  
Kokrajhar

Memo No. 102/2021/7,

Dated Kokrajhar the 6<sup>th</sup> December/2021

**Copy to:-**

1. SSO. to the C.E.M. WPT & BC of BTC, Kokrajhar
2. P. S. to the Principal Secretary, BTC, Kokrajhar
3. Sri Adaram Basumatary, Ph.D. President, NIB, Kokrajhar/ Sri Bihung Brahma, Ph.D. Secretary, NIB, Kokrajhar for information and necessary action.

Joint Secretary,  
Bodoland Territorial Council,  
Kokrajhar

FILE NO. CRG/2021/007925-G  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 13 December, 2021

**ORDER**

Subject: Research project entitled **Synthetic strategies based on carbodiimide coupling for biologically significant heterocyclic scaffolds** under the guidance of Dr. Prodeep Phukan, Chemistry, Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014.

1. In continuation of SERB's sanction order No. CRG/2021/007925 dated 13 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.1267000/-** under 'Grants-in-aid General' to Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website ([www.serb.gov.in](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 13 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Organic Chemistry**) (General).
5. The Sanction has been issued with the approval of the competent authority on **07 December, 2021** and vide Diary No. **SERB/F/5143/2021-2022** dated **09 December, 2021**.
6. The release amount of **Rs. 1267000/-** (Rupees Twelve Lakh Sixty Seven Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Guwahati University Branch, Gauhati University, Guwahati-781014, Assam
IFSC/RTGS Code	SBIN0002060
Email id of A/C Holder	treasurer@gauhati.ac.in
Email id of PI	pphukan@yahoo.com

(Dr. Arvind Chaudhary)  
Scientist D  
ms-ocpac@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi  
Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<b>Dr. Prodeep Phukan</b> <b>Chemistry</b> <b>Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014</b> <b>Email: pphukan@yahoo.com</b> <b>Mobile: 91943511114</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)

5.	<b>Registrar, Gauhati University, Gauhati University, Jalukbari, Guwahati, Assam</b>  (Receipt of Grant may be intimated by name to the undersigned)
----	--

  
**(Dr. Arvind Chaudhary)**  
Scientist D  
ms-ocpac@serb.gov.in

FILE NO. CRG/2021/007925

**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**

(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 13 December, 2021

**ORDER**

Subject: Financial Sanction of the research project titled **Synthetic strategies based on carbodiimide coupling for biologically significant heterocyclic scaffolds** under the guidance of Dr. Prodeep Phukan, Chemistry, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 5181264/- (Rs. Fifty One Lakh Eighty One Thousand Two Hundred and Sixty Four Only)** with break-up of **Rs. 1500000/- under Capital (Non-recurring) head** and **Rs. 3681264/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 5181264/-** has been approved are given below:

The following budget may be considered for **Gauhati University, Jalukbari, Guwahati, Assam**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Electro-organic synthesis Reactor -> Cold circulator bath (-80°C) / reactor for low temperature reactions -> Cold trap (-50°C) -> Gaussian 16 Software (with Gaussview 6.0) -> Balance	1500000
A'	Total (Non-Recurring)	1500000
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1350240 1800000 60000
2	Recurring - IV : (Overhead Charges)	471024
B'	Total (Recurring)	3681264
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>5181264</b>

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ( [www.serb.gov.in](http://www.serb.gov.in)).

3. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

4. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

5. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

6. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

8. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital



assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

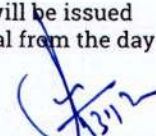
10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. CRG/2021/007925 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

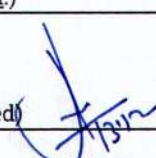
14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

  
(Dr. Arvind Chaudhary)  
Scientist D  
ms-ocpac@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<b>Dr. Prodeep Phukan</b> <b>Chemistry</b> <b>Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014</b> <b>Email: pphukan@yahoo.com</b> <b>Mobile: 919435111114</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	<b>Registrar, Gauhati University,</b> <b>Gauhati University, Jalukbari, Guwahati, Assam</b>  (Receipt of Grant may be intimated by name to the undersigned)

  
(Dr. Arvind Chaudhary)  
Scientist D  
ms-ocpac@serb.gov.in

FILE NO. CRG/2021/007925-C  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 13 December, 2021

**ORDER**

Subject: Research project entitled **Synthetic strategies based on carbodiimide coupling for biologically significant heterocyclic scaffolds** under the guidance of Dr. Prodeep Phukan, Chemistry, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014.

1. In continuation of SERB's sanction order No. CRG/2021/007925 dated 13 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.1500000/-** under 'Grants-in-aid Capital' to Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website ([www.serb.gov.in](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 13 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debitible to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Organic Chemistry**) (Capital).
5. The Sanction has been issued with the approval of the competent authority on **07 December, 2021** and vide Diary No. **SERB/F/5142/2021-2022** dated **09 December, 2021**.
6. The release amount of **Rs. 1500000/-** (Rupees Fifteen Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:


PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Guwahati University Branch, Gauhati University, Guwahati-781014, Assam
IFSC/RTGS Code	SBIN0002060
Email id of A/C Holder	treasurer@gauhati.ac.in
Email id of PI	pphukan@yahoo.com

(Dr. Arvind Chaudhary)  
Scientist D  
ms-ocpac@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi  
Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

4.	<p><b>Dr. Prodeep Phukan</b> <b>Chemistry</b> <b>Gauhati University , Jalukbari, guwahati, assam, Guwahati, Assam-781014</b> <b>Email: pphukan@yahoo.com</b> <b>Mobile: 919435111114</b></p> <p>(Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar, Gauhati University,</b> <b>Gauhati University, Jalukbari, Guwahati, Assam</b></p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
**(Dr. Arvind Chaudhary)**  
Scientist D  
ms-ocpac@serb.gov.in

भारत सरकार/Government of India  
विज्ञान और प्रौद्योगिकी मंत्रालय/Ministry of Science and Technology  
विज्ञान और प्रौद्योगिकी विभाग/Department of Science and Technology  
(अंतरराष्ट्रीय सहयोग प्रभाग/International Cooperation Division)

प्रौद्योगिकी भवन/Technology Bhavan  
नया महरौली मार्ग/New Mehrauli Road  
नई दिल्ली /New Delhi -110 016

No. SR/MF/PS-02/2021-GU (E-37122)

Dated: 31.12.2021

Sanction Order

Sub: The research project titled "Indian Participation in the ALICE Experiment at CERN" under the guidance of Dr. Buddhadeb Bhattacharjee, Department of Physics, Gauhati University, Guwahati-781 014 (Assam).

In continuation of Government of India sanction order No. 3015/1/2021/Gen/R&D-I/13283 dated 03.11.2021, sanction of the President is hereby accorded for DST contribution of Rs. 3,62,50,000/- (Rupees three crores sixty two lakhs and fifty thousand only) to "Gauhati University, Guwahati- 781 014 (Assam)". The date of start of the project will be 03.11.2021, i.e., the date of sanction of the project by Government of India. The date of completion of the project will be 31.10.2026. The detailed break-up of General and Capital Components of the project cost is as under.

Grants-in-aid General: Rs.2,22,50,000/-

Grants for creation of capital assets: Rs. 1,40,00,000/-

Budget Head	(Amounts in Rupees lakhs)					Total
	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year	5 <sup>th</sup> year	
<b>General (Revenue)</b>						
Human Resource Expenses	15.00	15.00	15.00	15.00	15.00	75.00
Domestic Travel Expenses <sup>^</sup>	5.00	5.00	5.00	5.00	5.00	25.00
Foreign Travel Expenses <sup>^</sup>	20.00	20.00	20.00	20.00	20.00	100.00
Office Expenses	0.50	0.50	0.50	0.50	0.50	2.50
Contingency	1.00	1.00	1.00	1.00	1.00	5.00
Overheads	3.00	3.00	3.00	3.00	3.00	15.00
<b>Sub-Total General</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>222.50</b>
<b>Capital including M&amp;O Contributions</b>						
Machinery & Equipment	60.00	20.00	15.00	20.00	10.00	125.00
Materials & Supplies	3.00	2.00	-	-	-	5.00
Major Works	10.00	-	-	-	-	10.00
<b>Sub-Total Capital</b>	<b>73.00</b>	<b>22.00</b>	<b>15.00</b>	<b>20.00</b>	<b>10.00</b>	<b>140.00</b>
<b>Total</b>	<b>117.00</b>	<b>66.50</b>	<b>59.50</b>	<b>64.50</b>	<b>54.50</b>	<b>362.50</b>

<sup>^</sup>as per Govt. of India norms.

- Sanction of the President is also accorded for payment of Rs.11,00,000/- (Rupees eleven lakhs only) to "Gauhati University, Guwahati-781 014 (Assam)" being first installment of the grant for implementation of the above said project. Since it is first installment of grant, no previous UC is applicable.
- The amount of Rs. 11,00,000/- (Rupees eleven lakhs only) will be drawn by Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the "Gauhati University, Guwahati-781 014 (Assam)" through their bank account details given below:

Name of the bank account holder	Gauhati University, Guwahati
Saving bank account number	39394514021
Name of the bank and branch	State Bank of India, Gauhati University branch, Guwahati
IFSC Code	SBIN0002060
MICR Code	781002015

- The expenditure involved is debit able to:

Demand No. 88	Department of Science and Technology
3425	Other Scientific Research (Major Head)
60.	Others
200	Assistance to other Scientific Bodies (Minor Head)
71.	Research and Development
01.	Mega Facilities for Basic Research
71.01.31	Grants-in-aid General (Previous: Mega Facilities-3425.60.200.45.01.31)

*Jauhari*

31.12.2021



**Regional Academic Centre for Space (RAC-S)**  
ISRO - Gauhati University

Gauhati University  
Assam 781014, India  
[racs.gauhati.ac.in](http://racs.gauhati.ac.in)

Ref. : GU/RAC-S/Proj/2022/03

07-01-2022

To  
**Dr Hemen Kumar Kalita**  
Department of Physics  
Gauhati University

Sub. : Financial Grant

Dear Dr Kalita

We are pleased to inform you that an amount of ₹ **10.5 Lakh (ten Lakh fifty thousand)** has been released toward the **1st year expenditure** of your sponsored research project under GU RAC-S (details attached with this letter). You are hereby requested to initiate the project for sanction of the same through the Project Cell of Gauhati University.

Sincerely

**Dr Madhurjya P Bora**  
Regional Coordinator, GU RAC-S



**Dr Madhurjya P BORA, Professor of Physics**  
Convenor (Web Management) | Coordinator (RAC-S)

Tel : +91-98540-63419 Email : [racs@gauhati.ac.in](mailto:racs@gauhati.ac.in) | [mpbora@gauhati.ac.in](mailto:mpbora@gauhati.ac.in)  
Physics Department, Gauhati University, Guwahati, Assam 781014, India

FILE NO. TAR/2021/000251  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, government of India)

Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 11-Jan-2022

**ORDER**

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to Dr. Ranjit Thakuria, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014- under the mentorship of Ramesh Chandra Deka, at Tezpur University Napaam, Tezpur, Assam - 784028- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of Rs. 18,30,000/- (Rs. Rupees Eighteen Lakh Thirty Thousand only) for a duration of 36 months. The date of start of the project will be 07 December, 2021. The items of expenditure for which the total allocation of Rs. 18,30,000/- has been approved are given below:

The following budget is proposed for

**Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 (Parent)**

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 ( @0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

**Tezpur University Napaam, Tezpur, Assam - 784028 (Host)**

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 ( on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) to Gauhati University, Jalukbari, Guwahati, Assam, Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to Tezpur University Napaam, Tezpur, Assam - 784028 being the first installment of the grant for the year 2021-2022 for implementation of the said research project.

3. The expenditure involved is debitable to

**Fund for Science & Engineering Research (FSER)**

**This release is being made under Teachers Associateship For Research Excellence (TARE). (Organic Chemistry)**

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/6637/2021-2022 dated 04 January, 2022

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

**Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014 (Parent) :**

PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Gauhati University Branch, Gauhati University Campus, Guwahati-14
IFSC/RTGS Code	SBIN0002060
Email address of PI	ranjit.thakuria@gmail.com
Email id of A/C Holder	registrar@gauhati.ac.in
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

**Tezpur University Napaam, Tezpur, Assam - 784028 (Host) :**

PFMS Unique Code	TU
Account Name	Tezpur University R&D
Account Number	30448821505
Bank Name & Branch	State Bank of India Tezpur University branch, Napaam, Tezpur, Sonitpur, Assam-784028, Tel- 03712-273361
IFSC/RTGS Code	SBIN0014259
Email address of PI	ranjit.thakuria@gmail.com
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of Mentor	Ramesh Chandra Deka

9. Both the institutes will furnish Utilization certificate(UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. **TAR/2021/000251** may also be mentioned in all research communications arising from the above project with due acknowledgement of **SERB**.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "**FUND FOR SCIENCE AND ENGINEERING RESEARCH**" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

  
(Dr. T Thangaradjou)  
Scientist F  
msls@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p>(i) <b>Dr. Ranjit Thakuria</b> Chemistry Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 Email: ranjit.thakuria@gmail.com Mobile: 919707930828</p> <p>(ii) <b>Ramesh Chandra Deka</b> Tezpur University Napaam, Tezpur, Assam - 784028</p> <p>(Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p>(i) Registrar, Gauhati University, Jalukbari, Guwahati, Assam</p> <p>(ii) Registrar Tezpur University Napaam, Tezpur, Assam - 784028</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. T Thangaradjou)  
Scientist F  
msls@serb.gov.in

**No. BT/PR44877/SPD/24/850/2021**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 21-01-2022

**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 "**Establishment of Rural Bio-resource Complex through Integrated Aquaculture practices at Goalpara, the Aspirational district of Assam**" for a period of 2 Year 0 Month at a total cost of Rs. **48,65,250/-** (Rupees Fourty Eight Lakhs Sixty Five Thousand Two Hundred and Fifty Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :**                   **Establishment of Rural Bio-resource Complex through Integrated Aquaculture practices at Goalpara, the Aspirational district of Assam**

**2.2 Details of the Investigators:**

**Prof. Dandadhar Sarma**

Professor  
Department of Zoology  
Guwahati University  
Dept of Zoology, Gauhati  
781014, Assam

**CO-PI:**

**Mr. Hrishikesh Choudhury**

Assistant Professor  
Zoology, Guwahati University  
Department of Zoology, Gauhati University, Guwahati-781014 (Assam), Guwahati - 781014, Assam

**2.3 Objectives:**

1. To promote integrated composite fish cum duck/backyard poultry farming in rural set up to enhance livelihood of selected beneficiaries of Goalpara district of Assam through Hands on training
2. To promote aquarium fabrication and its management along with culture & breeding of candidate's indigenous/exotic species of ornamental fishes.
3. To promote cat fish (Magur & Pabda) culture and breeding using low cost technology

**2.4 Time Schedule:**

The duration of the project is 2 Year 0 Month from the date of this sanction order.

**2.5 Project Cost:**

The total cost of the project is **Rs. 48,65,250/-**(Rupees Fourty Eight Lakhs Sixty Five Thousand Two Hundred and Fifty Only) as per details given below:



Budget Head	Year I	Year II	Total(Rs.)
Equipment	1097250.00		1097250.00
Manpower	684000.00	684000.00	1368000.00
Overhead	50000.00	50000.00	100000.00
Consumables	500000.00	500000.00	1000000.00
Contingency	150000.00	150000.00	300000.00
Travel	100000.00	100000.00	200000.00
Training & demonstration	400000.00	400000.00	800000.00
<b>Total (Rs.)</b>	<b>2981250.00</b>	<b>1884000.00</b>	<b>4865250.00</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**



**No. BT/PR44877/SPD/24/850/2021**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 21-01-2022

**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 "**Establishment of Rural Bio-resource Complex through Integrated Aquaculture practices at Goalpara, the Aspirational district of Assam**" for a period of 2 Year 0 Month at a total cost of Rs. **48,65,250/-** (Rupees Fourty Eight Lakhs Sixty Five Thousand Two Hundred and Fifty Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :**                   **Establishment of Rural Bio-resource Complex through Integrated Aquaculture practices at Goalpara, the Aspirational district of Assam**

**2.2 Details of the Investigators:**

**Prof. Dandadhar Sarma**

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Dept of Zoology, Gauhati  
781014, Assam

**CO-PI:**

**Mr. Hrishikesh Choudhury**

Assistant Professor  
Zoology, Guwahati University  
Department of Zoology, Gauhati University, Guwahati-781014 (Assam), Guwahati - 781014, Assam

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The duration of the project is 2 Year 0 Month from the date of this sanction order.

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The total cost of the project is **Rs. 48,65,250/-**(Rupees Fourty Eight Lakhs Sixty Five Thousand Two Hundred and Fifty Only) as per details given below:

Budget Head	Year I	Year II	Total(Rs.)
Equipment	1097250.00		1097250.00
Manpower	684000.00	684000.00	1368000.00
Overhead	50000.00	50000.00	100000.00
Consumables	500000.00	500000.00	1000000.00
Contingency	150000.00	150000.00	300000.00
Travel	100000.00	100000.00	200000.00
Training & demonstration	400000.00	400000.00	800000.00
<b>Total (Rs.)</b>	<b>2981250.00</b>	<b>1884000.00</b>	<b>4865250.00</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**



FILE NO. CRG/2021/002942-C

**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 03 March, 2022

**ORDER**

Subject: Research project entitled **Development of a fluorescence resonance energy transfer based device for in situ detection of heavy metals in ground water** under the guidance of Dr. Simanta Hazarika, Physics, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 and by Dr. Manos PratimChakrapani Kalita, Associate Professor, Physics, Gauhati University.

1. In continuation of SERB's sanction order No. CRG/2021/002942 dated 03 March, 2022, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 970000/-** under 'Grants-in-aid Capital' to Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website ([www.serb.gov.in](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 03 March, 2022.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics)**) (Capital).
5. The Sanction has been issued with the approval of the competent authority on **03 March, 2022** and vide Diary No. **SERB/F/9459/2021-2022** dated **03 March, 2022**.
6. The release amount of **Rs. 970000/-** (Rupees Nine Lakh Seventy Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Gauhati University Campus, Guwahati-14
IFSC/RTGS Code	SBIN0002060
Email id of A/C Holder	registrar@gauhati.ac.in
Email id of PI	hazarikasimanta@yahoo.co.in

*Nilotpal Ghosh*  
(Dr. Nilotpal Ghosh)

MS

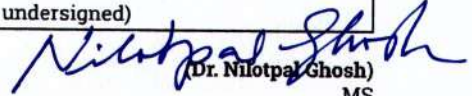
nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

4.	<p><b>Dr. Simanta Hazarika</b> <b>Physics</b> <b>Gauhati University , Jalukbari, guwahati, assam, Guwahati, Assam-781014</b> <b>Email: hazarikasimanta@yahoo.co.in</b> <b>Mobile: 919101552932</b></p> <p><b>Dr. Manos PratimChakrapani Kalita</b> <b>Physics</b> <b>Gauhati University</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar, Gauhati University,</b> <b>Gauhati University, Jalukbari, Guwahati, Assam</b></p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

FILE NO. CRG/2021/002942  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 03 March, 2022

**ORDER**

Subject: Financial Sanction of the research project titled **Development of a fluorescence resonance energy transfer based device for in situ detection of heavy metals in ground water** under the guidance of Dr. Simanta Hazarika, Physics, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 and by Dr. Manos PratimChakrapani Kalita, Associate Professor, Physics, Gauhati University - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 2227720/- (Rs. Twenty Two Lakh Twenty Seven Thousand Seven Hundred and Twenty Only)** with break-up of **Rs. 970000/- under Capital (Non-recurring) head and Rs.1257720/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2227720/-** has been approved are given below:

The following budget may be considered for **Gauhati University, Jalukbari, Guwahati, Assam**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> 405 nm diode laser -> FLAME-T-UV-VIS- ES Spectrometer & accessories, along with optical fibers, software and a Laptop -> Fluorescence Accessories: Cuvette, Cuvette Holder -> UV LEDs, PMT, Photodiode, CCD Camera and their drivers & accessories	970000
A'	<i>Total (Non-Recurring)</i>	<b>970000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	835200 210000 10000
2	Recurring - IV : (Overhead Charges)	202520
B'	<i>Total (Recurring)</i>	<b>1257720</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>2227720</b>

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ( [www.serb.gov.in](http://www.serb.gov.in)).
3. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
4. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
5. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
6. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
8. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.



9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

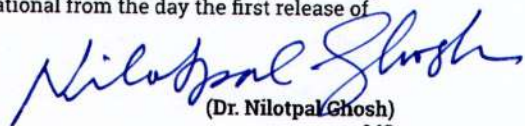
10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. CRG/2021/002942 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

  
(Dr. Nilotpal Ghosh)

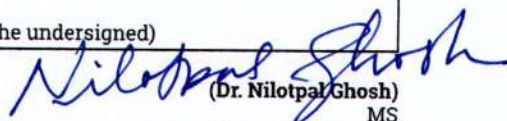
MS

nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p><b>Dr. Simanta Hazarika</b> Physics Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014 Email: hazarikasimanta@yahoo.co.in Mobile: 919101552932</p> <p><b>Dr. Manos PratimChakrapani Kalita</b> Physics Gauhati University (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar, Gauhati University,</b> Gauhati University, Jalukbari, Guwahati, Assam</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Nilotpal Ghosh)

MS

nilotpal@serb.gov.in

FILE NO. CRG/2021/002942-G  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 03 March, 2022

**ORDER**

Subject: Research project entitled **Development of a fluorescence resonance energy transfer based device for in situ detection of heavy metals in ground water** under the guidance of Dr. Simanta Hazarika, Physics, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 and by Dr. Manos PratimChakrapani Kalita, Associate Professor, Physics, Gauhati University.

1. In continuation of SERB's sanction order No. CRG/2021/002942 dated 03 March, 2022, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.425000/-** under 'Grants-in-aid General' to Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 03 March, 2022.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics)**) (General).
5. The Sanction has been issued with the approval of the competent authority on **03 March, 2022** and vide Diary No. **SERB/F/9460/2021-2022** dated **03 March, 2022**.
6. The release amount of **Rs. 425000/-** (Rupees Four Lakh Twenty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

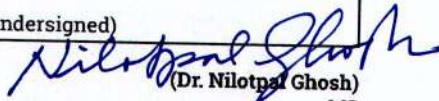
PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Gauhati University Campus, Guwahati-14
IFSC/RTGS Code	SBIN0002060
Email id of A/C Holder	registrar@gauhati.ac.in
Email id of PI	hazarikasimanta@yahoo.co.in

  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi  
Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

4.	<p><b>Dr. Simanta Hazarika</b> Physics Gauhati University , Jalukbari, guwahati, assam, Guwahati, Assam-781014 Email: hazarikasimanta@yahoo.co.in Mobile: 919101552932</p> <p><b>Dr. Manos PratimChakrapani Kalita</b> Physics Gauhati University (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar, Gauhati University,</b> <b>Gauhati University, Jalukbari, Guwahati, Assam</b></p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

FILE NO. CRG/2021/002942-C

**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 03 March, 2022

**ORDER**

Subject: Research project entitled **Development of a fluorescence resonance energy transfer based device for in situ detection of heavy metals in ground water** under the guidance of Dr. Simanta Hazarika, Physics, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 and by Dr. Manos PratimChakrapani Kalita, Associate Professor, Physics, Gauhati University.

1. In continuation of SERB's sanction order No. CRG/2021/002942 dated 03 March, 2022, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 970000/-** under 'Grants-in-aid Capital' to Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website ([www.serb.gov.in](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 03 March, 2022.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics)**) (Capital).
5. The Sanction has been issued with the approval of the competent authority on **03 March, 2022** and vide Diary No. **SERB/F/9459/2021-2022** dated **03 March, 2022**.
6. The release amount of **Rs. 970000/-** (Rupees Nine Lakh Seventy Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	GAUUNIV
Account Name	General Account Guwahati University
Account Number	38422220812
Bank Name & Branch	State Bank of India Gauhati University Campus, Guwahati-14
IFSC/RTGS Code	SBIN0002060
Email id of A/C Holder	registrar@gauhati.ac.in
Email id of PI	hazarikasimanta@yahoo.co.in

*Nilotpal Ghosh*  
(Dr. Nilotpal Ghosh)

MS

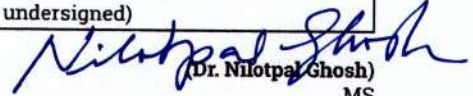
nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
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4.	<p><b>Dr. Simanta Hazarika</b> <b>Physics</b> <b>Gauhati University , Jalukbari, guwahati, assam, Guwahati, Assam-781014</b> <b>Email: hazarikasimanta@yahoo.co.in</b> <b>Mobile: 919101552932</b></p> <p><b>Dr. Manos PratimChakrapani Kalita</b> <b>Physics</b> <b>Gauhati University</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar, Gauhati University,</b> <b>Gauhati University, Jalukbari, Guwahati, Assam</b></p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

FILE NO. CRG/2021/002942  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 03 March, 2022

**ORDER**

Subject: Financial Sanction of the research project titled **Development of a fluorescence resonance energy transfer based device for in situ detection of heavy metals in ground water** under the guidance of Dr. Simanta Hazarika, Physics, Gauhati University, Jalukbari, guwahati, assam, Guwahati, Assam-781014 and by Dr. Manos PratimChakrapani Kalita, Associate Professor, Physics, Gauhati University - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 2227720/- (Rs. Twenty Two Lakh Twenty Seven Thousand Seven Hundred and Twenty Only)** with break-up of **Rs. 970000/- under Capital (Non-recurring) head and Rs.1257720/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2227720/-** has been approved are given below:

The following budget may be considered for **Gauhati University, Jalukbari, Guwahati, Assam**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> 405 nm diode laser -> FLAME-T-UV-VIS- ES Spectrometer & accessories, along with optical fibers, software and a Laptop -> Fluorescence Accessories: Cuvette, Cuvette Holder -> UV LEDs, PMT, Photodiode, CCD Camera and their drivers & accessories	970000
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>970000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	835200 210000 10000
2	Recurring - IV : (Overhead Charges)	202520
<b>B'</b>	<b>Total (Recurring)</b>	<b>1257720</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>2227720</b>

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ( [www.serb.gov.in](http://www.serb.gov.in)).
3. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
4. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
5. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
6. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
8. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

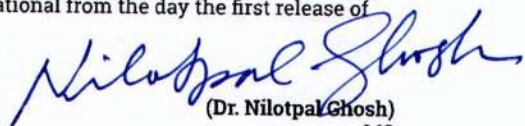
10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. CRG/2021/002942 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

  
(Dr. Nilotpal Ghosh)

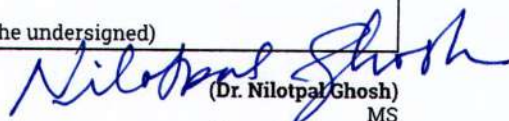
MS

nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
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5.	<p><b>Registrar, Gauhati University,</b> Gauhati University, Jalukbari, Guwahati, Assam</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Nilotpal Ghosh)

MS

nilotpal@serb.gov.in

FILE NO. CRG/2021/002942-G  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(A statutory body of the Department of Science & Technology, Government of India)  
Science and Engineering Research Board  
3rd & 4th Floor, Block II  
Technology Bhavan, New Mehrauli Road  
New Delhi - 110016

Dated: 03 March, 2022

**ORDER**

Subject: Research project entitled **Development of a fluorescence resonance energy transfer based device for in situ detection of heavy metals in ground water** under the guidance of Dr. Simanta Hazarika, Physics, Gauhati University, Jalukbari, Guwahati, Assam, Guwahati, Assam-781014 and by Dr. Manos PratimChakrapani Kalita, Associate Professor, Physics, Gauhati University.

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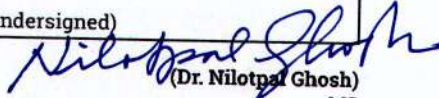
  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi  
Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
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4.	<p><b>Dr. Simanta Hazarika</b> Physics Gauhati University , Jalukbari, guwahati, assam, Guwahati, Assam-781014 Email: hazarikasimanta@yahoo.co.in Mobile: 919101552932</p> <p><b>Dr. Manos PratimChakrapani Kalita</b> Physics Gauhati University (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar, Gauhati University,</b> <b>Gauhati University, Jalukbari, Guwahati, Assam</b></p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

**Admin**

**No. BT/KIS/123/SP45599/2022**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
**Dated:23.03.2022**

**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 "**Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) in Udalguri & Dima Hasao district,**" for a period of 2 Year 0 Month at a total cost of Rs. **10961600/-** (Rupees One Crores Nine Lakhs Sixty One Thousand Six Hundred Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title : Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) in Udalguri & Dima Hasao district,**

**2.2 Details of the Investigators:**

**Project Coordinator**

**Prof. Dandadhar Sarma**  
Professor  
Department of Zoology  
Guwahati University,  
Guwahati, Assam, 781014

**CO-PI:**

1. **Dr. Sarbojit Thaosen,**  
Assistant Professor, Department of Zoology,  
Haflong Govt. College, Haflong-788819 (Assam)
2. **Mr. Kabin Medhi,**  
Subject Matter Specialist  
Fishery Science, Krishi Vigyan Kendra, Dima Hasao : 788819
3. **Dr. Lopamudra Kemprai,**  
Veterinary Officer & Assistant Secretary Waimzing NGO,  
Haflong788819
4. **Mr. Ratul Ch Bharali,**  
Head, Department of Zoology,  
Udalguri College, Udalguri (BTAD), Assam-784509
5. **Dr. P. K. Pradhan-PI,**  
Principal Scientist, ICARNBFGR, Lucknow-226002
6. **Dr. Aditya Kumar,**  
Co-PI, Scientist, ICAR-NBFGR, Lucknow-226002
7. **Dr. Raghvendra Singh,**  
Scientist, ICAR-NBFGR, Lucknow-226002

**2.3 Objective:**

1. Demonstration of Integrated fish (Indian major carps) backyard poultry (Kamrupa Breed) farming at farmers' level in two selected districts (Udalguri and Dima Hasao) in Assam.
2. Demonstration of Integrated fish (Indian major carps) - Pig (Hampshire Cross Breed) at farmers' level in two selected districts (Udalguri and Dima Hasao) in Assam.
3. Demonstration of Integrated fish (Indian major carps) - Duck (Khaki Campbell Breed) at farmers' level in two selected districts (Udalguri and Dima Hasao) in Assam.
4. To organise training programmes for farmers in two district of Assam (Udalguri and Dima Hasao) on the above packages of practices.

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
वैज्ञानिक / Scientist 'E'  
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology  
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.  
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110070

AQIS ID: 1-10282673891

**RPS - Sanction Letter**

**File No. 8-216/FDC/RPS-NER/POLICY-1/2020-21**

**Date: 29 March 2022**

**The Drawing and Disbursing Officer**  
All India Council for Technical Education  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi-110070,

**Sub: Release of a sum of Rs. 2123625/- being the 1<sup>st</sup> installment of the total grant of Rs.2427000/- for conduct of Project under Research Promotion Scheme for the North East Region (RPS-NER) during the financial year 2021-22.**

Sir,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of **Rs.2123625/- (Rupees Twenty One Lakh Twenty Three Thousand Six Hundred Twenty Five Only)** as 1<sup>st</sup> installment out of a total approved grant-in-aid of **Rs.2427000/-** for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

I.	Name and address of the Beneficiary Institution (University / College / Institution)	:	Registrar / Director / Principal, GAUHATI UNIVERSITY INSTITUTE OF SCIENCE AND TECHNOLOGY, GUWAHATI-781014, ASSAM
II.	Principal Investigator's Name & Dept.	:	Dr. DEBABRAT BAISHYA BIOTECHNOLOGY
III.	Co-Principal Investigator's Name & Dept.	:	MADHURI DAS (BIOTECHNOLOGY)
IV.	Grant-in-aid Sanctioned	:	Rs.2427000/- (Rs.1820250/- for non-recurring and Rs.606750/- for recurring expenditure)
V.	Amount to be Released during the year 2021-22 (as 1 <sup>st</sup> installment)	:	Rs.2123625/- (Rs.1820250/- Full amount of non-recurring & Rs.303375/- 50 % of recurring sanctioned)
VI.	Project Duration	:	3 Years
VII.	Title of the Project	:	INTEGRATIVE APPROACH OF ENHANCED VERSATILITY OF XYLOOLIGOSACCHARIDES NANOFORMULATIONS AND ITS ANTIPROLIFERATIVE FUNCTION TOWARDS COLORECTAL ADENOCARCINOMA INHIBITION

**I. Release of funds:**

- The amount of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of GAUHATI UNIVERSITY INSTITUTE OF SCIENCE AND TECHNOLOGY, GUWAHATI-781014, ASSAM through PFMS.
- The sanctioned grant-in-aid is debitible to the **Major Head "601.7.a (RPS Plan)" Gen.** and is valid for payment during the financial year 2021-22.
- The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and principles of the Scheme.
- The grant-in-aid is being released in conformity with the Terms & Conditions as well as norms of the scheme as already communicated and also being communicated in this letter.

**II. Maintenance of account by the Institute/PI:**

- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The grant is intended to cover items of expenditure/equipment approved by AICTE.
- Acknowledgement of receipt of grant and letter of acceptance of terms and conditions is to be submitted to AICTE within 15 days from the receipt of the grant to the following address:

**Director (Faculty Development Cell), AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070**

:: 2 ::

4. The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any officer designated by them.
5. The Principal and PI of the institute are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS details submitted by them alongwith the Proposal, in which the grant is being released. In case of any omission, the same should be reported to AICTE immediately along with refund of entire grant: -

Institute Pan No.	Bank Name	Bank Branch	Bank Branch Add.	Account Holder Name	Account Type	Account Number	IFSC Code
AAAJG0286A	STATE BANK OF INDIA	Gauhati University Branch	Gopinath Bordoloi Nagar, Guwahati - 781014	GU Project Account	Saving Account	40778780633	SBIN0002060

6. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/Government of India from time to time. Grantee institution must follow GFR guidelines in procuring the sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
7. **Interest accrued on the sanctioned grant-in-aid will be reported and refunded to AICTE and not adjusted against the subsequent installment.**

### III. General Instructions:

1. It should be ensured that no RPS project in favour of the same P.I. has been sanctioned during the last 03 years before utilizing this amount and the matter be brought to the notice of this Council immediately in case a faculty is sanctioned multiple RPS Projects.
2. The duration of Project is 03 years and the **date of release of the grant by AICTE shall be taken as the date of commencement of the project.** The Registrar/Director/Principal shall intimate about the receipt of the grant to AICTE. Any Expenditure, incurred prior to issuance of this Sanction Order, would not allowed to be adjusted in the grant and if the University/Institution do not take-up the project work **within 6 months** of the receipt of the grant, approval shall *ipso facto* lapse and the Institute has to necessarily refund the entire grant to AICTE along with interest within a month. In case the grant is not refunded within said duration 18% interest will be levied on it. The grant has to be refunded to AICTE, through RTGS as per details given below:

Account Number	55113199952
Name of the Account Holder	Member Secretary, AICTE, New Delhi
Bank Name	State Bank of India
Branch Name	Shashtri Bhawan, New Delhi
IFSC Code	SBIN0050203

3. The Institute may constitute a Project Monitoring Committee (PMC). The composition of the PMC shall be as under:
  - i. Principal/Director of the institution (Chairperson)
  - ii. Two HODs from institute (Members)
  - iii. In case of private institute one subject expert from government institute, not below the rank of Associate Professor (Member)
  - iv. Coordinator of the project (Member Secretary)
4. The grant shall be utilized strictly for the purpose as specified in the sanction letter. Re-appropriation of funds from one Head to another is strictly not permitted viz. Recurring and non-recurring Heads. Further, the equipment(s)/item(s) purchased should be as per the specifications and individual item-wise costs sanctioned by AICTE, and not taking the total grant sanctioned as one entity. Item-wise purchase cost shall be matched with the sanctioned cost, and the cost of item purchased below the sanction cost shall be restricted as actual cost. If the item purchase cost is higher than its sanctioned cost, the cost shall be restricted to the sanctioned cost and the additional amount shall be met by the Institute from its own resources.
5. Similarly, the recurring grant shall be used for the items sanctioned by the AICTE. No money be used for going abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference **within the country**, the travel expenses may be met from the recurring grant.

Contd...3/-