

No. BT/PR24992/NER/95/946/2017  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
(NERBPMC)

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 06/09/2019

**ORDER**

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**SCREENING OF ANTI-CANCER ACTIVITY OF A FEW TRADITIONAL MEDICINAL PLANTS OF NORTH EAST INDIA.**" for a period of 3 Year 0 Month at a total cost of Rs. **8440480** (Rupees Eighty Four Lakhs Fourty Thousand Four Hundred and Eighty Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "**SCREENING OF ANTI-CANCER ACTIVITY OF A FEW TRADITIONAL MEDICINAL PLANTS OF NORTH EAST INDIA.**"

**2.2 Details of the Investigators:**

**Project Cordinator**

**Prof. Manabendra Dutta Choudhury**  
Professor  
Department of Life Science and Bioinformatics  
Assam University  
Department of Life Science & Bioinformatics,  
Assam University Silchar, Silchar, Assam, 788011

**Principal Investigators:**

**Prof. Manabendra Dutta Choudhury**  
Professor  
Department of Life Science and Bioinformatics  
Assam University

**Dr. Anusri Tripathi**  
Assistant Professor (Molecular Biology)  
Dept. of Biochemistry and Medical Biotechnology  
Calcutta School Of Tropical

**CO-PI:**

**Dr. Anupam Das Talukdar**  
Assistant Professor  
Department of Life Science & Bioinformatics,  
Assam University  
Department of Life Science & Bioinformatics,  
Assam University Silchar,  
Silchar - 788011, Assam

Generated through eProMIS

*Vanshika*  
श्री. वैशाली गुणवंत / Dr. VAISHALI GUNWANT  
वैज्ञानिक 'B' / Scientist 'B'  
उपमोटेक-संशोधनी विभाग / Dept. of Biotechnology  
निजीत मंत्रालय, भारत-9 / M/o Science & Tech.  
नया दिल्ली / New Delhi, India

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*2/12/19*

## 2.3 Objectives:

### Overall Objectives:

1. Plant collection, solvent extraction and purification
2. Structure Elucidation of Isolated purified fraction.
3. Determination of Anti cancerous activity of plant extracts.
4. Determination of any tissue specificity of such anti cancerous activity of plant extracts.
5. Effect of anti cancerous plant extracts on apoptotic activity , oncogene and tumor suppressor genes' expression of those cancerous cells.

### Institute wise Objectives:

#### Assam University

1. Plant collection, solvent extraction and purification
2. Structure elucidation of Isolated purified fraction

#### Calcutta School Of Tropical Medicine

1. Determination of anti-cancerous activity
2. Determination of any tissue specificity of such anti-cancerous activity of the plant-extracts
3. Effect of anti-cancerous plant-extracts on apoptotic activity, oncogene and tumor suppressor genes' expression of those cancerous cells

## 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. **8440480/-**(Rupees Eighty Four Lakhs Fourty Thousand Four Hundred and Eighty Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Assam University	3512760	1001760	653600	5168120
2. Calcutta School Of Tropical Medicine	1710280	801280	760800	3272360
<b>Total (Rs.)</b>	<b>5223040</b>	<b>1803040</b>	<b>1414400</b>	<b>8440480</b>

*Vandana*

श्री. विजय शंकर / Dr. VISHAY SHANKAR  
अधीक्षक / In-charge  
आयुर्वेद प्रौद्योगिकी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, मंत्रालय / Min. 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. Assam University</b>				
Equipment	1911000.00			<b>1911000.00</b>
Manpower	401760.00	401760.00	453600.00	<b>1257120.00</b>
Overhead	100000.00	100000.00	100000.00	<b>300000.00</b>
Travel	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	1000000.00	400000.00		<b>1400000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>
<b>Total (Rs.)</b>	<b>3512760.00</b>	<b>1001760.00</b>	<b>653600.00</b>	<b>5168120.00</b>
<b>2. Calcutta School Of Tropical Medicine</b>				
Equipment	699000.00			<b>699000.00</b>
Manpower	461280.00	461280.00	520800.00	<b>1443360.00</b>
Overhead	50000.00	40000.00	40000.00	<b>130000.00</b>
Travel	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables	400000.00	200000.00	100000.00	<b>700000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>
<b>Total (Rs.)</b>	<b>1710280.00</b>	<b>801280.00</b>	<b>760800.00</b>	<b>3272360.00</b>

**2.6 Equipment:**

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

**2.7 Manpower:**

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

**3. Head of Account:**

The Non-Recurring expenditure involved is debitable to:

<b>Demand No. 87</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2019-2020
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Biotechnology Research and Development
<b>3425.60.200.29.17</b>	Assistance for Research and Development
<b>3425.60.200.29.17.35</b>	Grants for creation of capital assets

The Recurring expenditure involved is debitable to:

*Vandana*

डॉ. विमली राजेश्वरी / Dr. VIMALI RAJESHWARI  
वैज्ञानिक 'B' / Scientist 'B'  
मनोदैनिकी विभाग / Deptt. of Chronobiology  
विज्ञान और प्रौद्योगिकी, संसद भवन 6, इंदिरा  
गांधी सड़क, नई दिल्ली / Cent. of Ind. H. Techn

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

#### 4. Terms & Conditions:

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

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

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

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

4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the 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, Calcutta School Of Tropical Medicine, Kolkata, West Bengal and The Registrar, Assam University, Silchar, 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-09/2012 dated on 21 Oct 2014. 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.
11. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/1425/2019-2020** dated **August, 22 2019**.
12. This sanction order has been noted at serial no. 78, 79 in the Register of Grants.

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

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

श्री. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
शुद्धि क्र. 'E' / Scientist 'E'  
पाण्डित्यमूर्तिली प्रिण्ट / Dept. of Biotechnology  
इण्डिया और गवर्न. भवन / Page No. 5 of 7  
नया दिल्ली, नई दिल्ली / Govt. of India, Delhi

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Prof. Manabendra Duttachoudhury (Project Co-ordinator), Assam University, Silchar - 788011, ASSAM
- 3 The Director, Calcutta School Of Tropical Medicine, 108, Chittaranjan Avenue, Kolkata - 700073, West Bengal
- 4 The Registrar, Assam University, Silchar - 788011, Assam
- 5 Dr. Anupam Das Talukdar, Assistant Professor, Department of Life Science & Bioinformatics., Assam University, Silchar - 788011, Assam
- 6 Dr. Anusri Tripathi, Assistant Professor (Molecular Biology), Dept. of Biochemistry and Medical Biotechnology, Calcutta School Of Tropical Medicine, SIRSA, Block-1, Flat: 8B; 59 Lake Road; Kolkata- 700029, West Bengal
- 7 Prof. Manabendra Dutta Choudhury, Professor, Department of Life Science and Bioinformatics, Assam University, Silchar - 788011, Assam
- 8 Cash Section, DBT (2 copies).
- 9 Sanction Folder.
- 10 File Copy.

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

श्री. वैशाली पंजाबी / Dr. VAISHALI PANJABI  
शुद्धि क्र. 'E' / Scientist 'E'  
पाण्डित्यमूर्तिली प्रिण्ट / Dept. of Biotechnology  
इण्डिया और गवर्न. भवन / Page No. {5 of 7}  
नया दिल्ली, नई दिल्ली / Govt. of India, Delhi

## Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled "SCREENING OF ANTI-CANCER ACTIVITY OF A FEW TRADITIONAL MEDICINAL PLANTS OF NORTH EAST INDIA.":

<b>Assam University</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Fume Hood	1	1176000.00
2.	Rotary Evaporator	1	735000.00
<b>Total</b>			<b>1911000.00</b>
<b>Calcutta School Of Tropical Medicine</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	-80 C deep freezer	1	699000.00
<b>Total</b>			<b>699000.00</b>

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

Dr. Vaishali Panjabi / Dr. Vaishali Panjabi  
 Scientist 'E' / Scientist 'E'  
 Calcutta School of Tropical Medicine / Calcutta School of Tropical Medicine  
 1, Beliaghata, Calcutta - 700010 / Beliaghata, Calcutta - 700010  
 India / India

## Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled "SCREENING OF ANTI-CANCER ACTIVITY OF A FEW TRADITIONAL MEDICINAL PLANTS OF NORTH EAST INDIA.":

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
<b>1. Assam University</b>					
Junior Research Fellow JRF	1	401760	401760	0	803520
Senior Research Fellow SRF	1	0	0	453600	453600
<b>Total(Rs.)</b>		<b>401760</b>	<b>401760</b>	<b>453600</b>	<b>1257120</b>
<b>2. Calcutta School Of Tropical Medicine</b>					
Junior Research Fellow JRF	1	461280	461280	0	922560
Senior Research Fellow SRF	1	0	0	520800	520800
<b>Total(Rs.)</b>		<b>461280</b>	<b>461280</b>	<b>520800</b>	<b>1443360</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-09/2012 dated 21.10.2014.

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

Dr. Vaishali Panjabi  
 Scientist 'E'  
 DST, New Delhi  
 Phone: 011-26109111/26109112  
 Fax: 011-26109113/26109114  
 Email: vaishali@seri.res.in

Admin Order

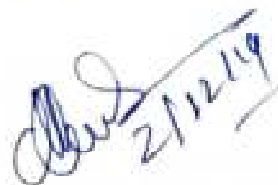
Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the payment of **Rs.3120.00 Lakhs (Rupees Thirty One Crore Twenty Lakhs Only)** to Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 towards the "Towards disbursement of Micro grant for implementation of projects under the Foldscope scheme" as per break-up given below:

(Rs. in Lakhs)						
Sr. No.	Item	Number of Schools/ Colleges/ Institute/ University	Total budget per School/ Colleges/Institute/ University	Total Budget	1 <sup>st</sup> Installment (75%of total budget)	2 <sup>nd</sup> Installment (25%of total budget)
I	NER Schools (Category-A)	33	4.00	132.00	98.00	34.00
II	Other Regions of India Schools (Category-A)	84	4.00	336.00	252.00	84.00
III	NER Colleges/Institute / Universities (Category-B)	81	8.00	648.00	486.00	162.00
IV	Other Regions of India Colleges/Institute / Universities (Category-B)	247	8.00	1976.00	1483.00	493.00
Total (A)				3092.00	2319.00	773.00
V	Budget for the Project Secretariat to BCIL (B)			28.00	28.00	0.00
Grand Total (A+B)				3120.00	2347.00	773.00*

\*The second installment will be released after the review of technical & scientific progress report and submission of UC/SE after 6 months.

2. The list of approved School/Colleges/Institute/ Universities of category A & B may be seen at Annexure-I to IV.

UP

  
2/12/19



3. The budget details for awardees under category 'A' and category 'B', and the budget breakup of Project Secretariat to BCIL may be seen at **Annexure- V**.
4. The budget for Item-I [NER (Schools)] and Item-III [NER (Colleges/Institute/ University)] will be debitible by the NER budget head.
5. The budget for Item-II (Other Regions of India Schools), IV (Other Regions of India Colleges/Institute/ Universities) & V (Project Secretariat to BCIL, Detailed Budget for Category A & B) will be debitible from Biotechnology Research and Development (R&D) head.
6. The Foldscope and Micro grants shall be disbursed to the Schools, Colleges and Universities by the NER-BPMC/BCIL as per the **Annexure-I to V**.
7. **Time Schedule:** The duration of the project is 1 Year 0 Month from the date of this sanction order.
8. The expenditure involved is debitible to:

<b>Demand No. 85</b>	<b>Department of Biotechnology</b>
<b>3425</b>	<b>Other Scientific Research 2017-2018</b>
<b>3425.60</b>	<b>Others (Sub Major Head)</b>
<b>3425.60.200</b>	<b>Assistance to other Scientific Bodies (Minor Head)</b>
<b>3425.60.200.29</b>	<b>Biotechnology Research and Development</b>
<b>3425.60.200.29.17</b>	<b>Assistance for Research and Development</b>
<b>3425.60.200.29.17.31</b>	<b>Grants-in-aid General</b>

9. The other terms and conditions governing this sanction are attached at **Annexure- VI**.
10. 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 by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release.
11. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the Institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
12. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
13. The Managing Director, Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 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.

up

*[Handwritten Signature]*  
2/12/18

**Budget Details for Awardees under the Category 'A' (Educational and Training Tool):**

The budget of Rs. 4.00 lakhs will be provided with the following breakup:

S.No.	Items	Amount (Rs. in lakhs)
1.	Consumables	1.00
2.	Travel	2.50
3.	Contingency	0.50
	<b>TOTAL</b>	<b>4.00</b>

Each school will be twinned with a North East school

**Budget Details for Awardees under the Category 'B' (Research Tool):**

The budget of Rs. 8.00 lakhs will be provided with the following breakup:

S.No.	Items	Amount (Rs. in lakhs)
1.	Consumables	2.00
2.	Travel	2.00
3.	Contingency	1.00
4.	Manpower (1 JRF @ 25,000/- p.m.)	3.00
	<b>TOTAL</b>	<b>8.00</b>

**Budget for the Project Secretariat:-**

Sl. No.	Item	Amount (Rs. in lakhs)
1	Hiring Finance Officer (Inos.) @ Rs. 45,000/-pm	5.40
2	Hiring of Programme Officer (Ino.) @Rs. 35,000/- pm	4.20
3	Overhead Charges for management of the Scheme	18.40
	<b>Total</b>	<b>28.00</b>

**Roles and Responsibilities of the Project Secretariat:-**

- Manage disbursement of funds to the 4454 applications, maintenance of accounts for disbursed amount, financial check and balances, monitor progress of the proposals.
- Telephone/ courier/photocopy etc. (Communication with PIs, photocopies of UC/SE formats, large number of mailers etc).
- Cost towards travel of the NERBPMC/BCIL team for organizing workshops.
- Courier of Foldscopes to the applicants.
- Customs clearance of the Foldscope consignment.
- Assist DBT in organising workshops

 2/12/19





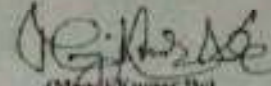
**ASSAM UNIVERSITY, SILCHAR**  
(A Central University Established by an Act of Parliament)

**NOTIFICATION**

*The under-mentioned candidate is declared to have qualified for award of the degree of Doctor of Philosophy (Ph.D) on 1<sup>st</sup> January, 2018 from Assam University for the thesis submitted by him/her on the title noted against his/her name. The award of Degree of Doctor of Philosophy is subject to confirmation by the Board of Research Studies and the Executive Council of Assam University.*

*The Degree will be conferred to him/her at the next commencement of the University. Particulars of the candidate are as follows:-*

Name	Mamun Das
Department	Life Science and Bioinformatics
Ph.D Registration No. & Date	46.D/1124/10, Dt. 22.09.10
Title of the thesis	Morpho-taxonomic studies on the family Gramineae in Southern Assam with particular reference to their catagular structures
Supervisor	Dr. Debjani Bhattacharyya

  
(Manoj) Kumar Das  
Deputy Registrar (Research)

No. AURW-130321/04/2018/Vol-I

Date: 02.01.2018

Copy forwarded for information:-

1. All Registrars of Indian Universities
2. The Secretary, Department of Higher Education, Ministry of Human Resource Development, Govt. of India, Shastri Bhawan, New Delhi.
3. The Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi - 110002
4. The Secretary General, Association of Indian Universities, AIU House, Kotla Marg, New Delhi
5. The Secretary to the Govt. of Assam, Department of Education, Assam
6. The DPE (Higher Education), Assam, Kabiligara, Gauhati - 781006
7. Dena of the Schools, AUS
8. Heads of the PG Departments, AUPS/AUTC



**ASSAM UNIVERSITY, SILCHAR**

*(A Central University Established by an Act of Parliament)*

**NOTIFICATION**

*The under mentioned candidate is declared to have qualified for award of the degree of Doctor of Philosophy (Ph.D) on 24<sup>th</sup> February, 2016 from Assam University for the thesis submitted by him/her on the title noted against his/her name. The award of Degree of Doctor of Philosophy is subject to ratification by the Board of Research Studies and the Executive Council of Assam University.*

*The Degree will be conferred in honour at the next convocation of the University. Particulars of the candidate are as follows:-*

<i>Name</i>	<i>:</i>	<i>LalramEima Darling</i>
<i>Department</i>	<i>:</i>	<i>Life Sciences &amp; Bioinformatics</i>
<i>Ph.D Registration No. &amp; Date</i>	<i>:</i>	<i>PH.D/1137/10 Dt. 22.09.2010</i>
<i>Title of the thesis</i>	<i>:</i>	<i>Morpho-taxonomic Studies on Lianas in Tripura with Special Reference to Reproductive Attributes of Some Threatened Taxa</i>
<i>Supervisor</i>	<i>:</i>	<i>Dr. G. GhantaCharyya</i>

**(D. GhantaCharyya)**  
Deputy Registrar (Research)  
Date: 24.02.2016

No. AURW-13/02R/04/2013

Copy forwarded for information:-

1. All Registrars of Indian Universities
2. The Secretary, Department of Higher Education, Ministry of Human Resource Development, Govt. of India, Shastri Bhavan, New Delhi.
3. The Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi - 110002
4. The Secretary General, Association of Indian Universities, All India House, Kirti Marg,



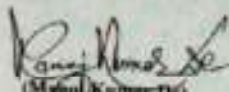
**ASSAM UNIVERSITY, SILCHAR**  
(A Central University Established by an Act of Parliament)

**NOTIFICATION**

*The under mentioned candidate is declared to have qualified for award of the degree of Doctor of Philosophy (PhD) on 6<sup>th</sup> May, 2019 from Assam University for the thesis submitted by her/his on the title noted against his/her name. The award of Degree of Doctor of Philosophy is subject to ratification by the Board of Research Studies and the Executive Council of Assam University.*

*The Degree will be conferred to her/his at the next convocation of the University. Particulars of the candidate are as follows:-*

<i>Name</i>	<i>Application</i>
<i>Department</i>	<i>Life Science and Bioinformatics</i>
<i>PhD Registration No. &amp; Date</i>	<i>PSD/2100/12, Dt. 26.09.2012</i>
<i>Title of the thesis</i>	<i>Morpho-taxonomic studies on the arboreal erioporus and larvae in Barail wildlife sanctuary, Assam</i>
<i>Supervisor</i>	<i>Dr. Debjyoti Bhattacharyya</i>

  
 (Manoj Kumar Deka)  
 Deputy Registrar (Research)  
 Date: 06.05.2019

No. AURW-13/02R/04/2018(Vol.11)

Copy forwarded for information:

1. All Registrars of Indian Universities.
2. The Secretary, Department of Higher Education, Ministry of Human Resource Development, Govt. of India, Shastri Bhawan, New Delhi.
3. The Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi - 110032.
4. The Secretary General, Association of Indian Universities, ARI House, Kofla Marg, New Delhi.
5. The Secretary to the Govt. of Assam, Department of Education, Assam.
6. The DPI (Higher Education), Assam, Kahilipasa, Guwahati - 781026.



File No. BT/PR/17127/NER/95/45/2015  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
(NER/BPMC)  
\*\*\*\*\*

Block-2, 7<sup>th</sup> Floor,  
CGO Complex, Lodhi Road  
New Delhi-110003  
Dated: 13/1/2017

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DIT's Twinning programme for the NE' titled "Investigating the molecular basis of anti-parkinsonian effects of Garcinol - a phytoconstituent of *Garcinia* sp. in animal model of Parkinson's disease" by Dr. Anupom Borah, Assam University, Silchar and Prof. Rajat Sandhir, Panjab University, Chandigarh at a total cost of ₹ 101.07 Lakhs (Rupees One Crore One Lakhs and Seven Thousand Only) for a period of three years, on the terms and conditions detailed as under:

**2.0 The Project:**

**2.1 Project Title: Investigating the molecular basis of anti-parkinsonian effects of Garcinol - a phytoconstituent of *Garcinia* sp. in animal model of Parkinson's disease**

**2.2 Project Investigators**

**2.2.1 Principal Investigator:** Dr. Anupom Borah,  
**(Parent Institute)** Assistant Professor  
Dept. of Life Science and Bioinformatics,  
Assam University, Silchar-788011, Assam

**2.2.2 Principal Investigator:** Prof. Rajat Sandhir,  
**(Collaboration Institute)** Professor,  
Dept. of Biochemistry  
Panjab University, Chandigarh-160014

**2.3 Objectives:**

**2.3.1 Assam University, Silchar:**

1. To investigate the neuroprotective effects of garcinol if any in animal model of Parkinson's disease.
2. To assess the dopamine restorative potency of garcinol in *in vitro* and *in vivo* system as well as in animal model of Parkinson's disease.
3. To assess the role of garcinol in preventing hyperhomocysteinemia in animal model of Parkinson's disease.

