1. PVC
2. ~~Dean, R&D~~ for info
3. PO.
4. Dr Nabajyoti, Medhi (CSE)

31/8/20

29

Dean, R&D
Who is the PI of this project? - FI- enlighten.

No. 13(15)/2020-CC&BT
Government of India
Ministry of Electronics & Information Technology
Electronics Niketan, 6, CGO Complex, New Delhi
.....

Dated: 21.07.2020

1232
01/09/20
B.B

The Pay & Accounts Officer
Ministry of Electronics & Information Technology (MeitY)
New Delhi – 110003

OFFICE OF THE DEAN R&D
TEZPUR UNIVERSITY
DATE OF RECEIPT 01.09.2020
RECEIPT NO. 5169
SIGNATURE

Subject: Release of funds for the project "Ensuring QoS in Internet of Medical Things (IoMT) using Software-Defined Networking (SDN)" implemented by Tezpur University for the Financial Year 2020-21.

Implementing Agency: Tezpur University.
Reference: Administrative Approval No. 13(15)/2020-CC&BT dated 21.07.2020.

Sir,

I am directed to refer to this Ministry's communication of even no. dated 21.07.2020 conveying the Approval of the Competent Authority for the implementation of above project with total outlay of Rs.36,39,433/- (Rupees Thirty Six Lakh Thirty Nine Thousand Four Hundred Thirty Three Only) to be implemented by Tezpur University over a duration of 24 months.

2. The sanction of the President of India is hereby conveyed for the 1st instalment of Rs.28,90,249/- (Rupees Twenty Eight Lakh Ninty Thousand Two Hundred Forty Nine Only) towards grants-in-aid for the implementation of the Project "Ensuring QoS in Internet of Medical Things (IoMT) using Software-Defined Networking (SDN)" implemented by Tezpur University for the Financial Year 2020-21.

3. The grants-in-aid will be regulated in accordance with the provisions contained in the terms and conditions of Ministry of Electronics & Information Technology (MeitY). The grants-in-aid is also subject to the Chapter-9 of the General Financial Rules 2017, as amended from time to time, read with Government of India's decisions incorporated there-under, and any other guidelines which may be issued in this regard, and in particular to the following conditions:

i) All relevant information and documents/certificates as required under 230(1) of GFR, 2017 have been received.

ii) The pattern of assistance of rules governing such grants-in-aid have received the approval of the Ministry of Finance, as required under Govt. of India Decision No. (1) under DFPR – Rule-20.

iii) Terms and conditions of the service of the employees employed in Tezpur University are not higher than those applicable to similar categories of employees of central Government and where it is not in accordance with above, the relaxation of Ministry of Finance would be obtained for such discrepancies as required under Rule 230(12)(i) of GFR, 2017.

Contd...2/-

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iv) Assets acquired wholly or substantially out of Government Grants shall not be disposed off without obtaining the prior approval of the sanctioning authority of Grants-in-aid.

v) Tezpur University shall agree to make reservations for Scheduled Castes, Scheduled Tribes and OBC in the posts or services under its control on the lines indicated by Govt. of India.

vi) The accounts of Tezpur University shall be audited by C&AG or by any person authorized by him on his behalf in accordance with the provisions laid down in Section-14 of the C&AG (DPC 1971) as amended from time to time.

vii) The accounts of Tezpur University shall be open for inspection by the sanctioning authority and audit, both by the Comptroller & Auditor General of India under the provision of C&AG(DPC) Act, 1971 and internal audit party by the Principal Accounts Office of the Ministry or Department whenever it is called upon to do so.

viii) Utilization Certificate will be provided after utilization of the grants-in-aid.

ix) Tezpur University may furnish their performance-cum-achievement report to the Sanctioning Authority.

x) Noted at S.No.08 in the Register of Grants.

xi) Tezpur University will spend grants-in-aid exclusively in pursuance of the objectives envisaged in rules/memorandum of MeitY and for the purpose it is being sanctioned.

xii) Grants-in-aid to Tezpur University are subject to the Economy Instructions issued from time to time by the M/o Finance or by the Competent Authority.

xiii) Grants-in-aid shall be utilized within the stipulated period from the date of the receipt of the grants-in-aid and unspent balance along with interest, if any, will be refunded by Tezpur University.

xiv) Tezpur University will maintain and will present their annual accounts in the standard format, as required under Rule 230(5) of GFR, 2017.

xv) The Grantee Institute has no Utilization Certificate(s) as due for rendition under the scheme in question.

xvi) All interest or other earnings against GIA or advance (other than reimbursement) released should be mandatory remitted to the consolidated Fund of India immediately after finalization of the accounts. Such advances should not be allowed to be adjusted against future releases.

xvii) The implementing agency should ensure compliance of EAT module before approaching for further release under the project.

xviii) In case of Non-recurring Grant for specified object,

a. Tezpur University will have to spend the amount sanctioned to them within the stipulate period.

b. Tezpur University will have to submit the utilization certificate in respect of the Grant sanctioned under Rules 238(1) of General Financial Rule, 2017 and with the form GFR 12-A, ibid.

4. The grantee organization (an Autonomous Body) is exempted from the execution of Surety Bond and is governed by the terms & conditions annexed herewith.

Contd...3/-

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5. Drawing & Disbursing Officer (DDO) of Ministry of Electronics and Information Technology is authorized to prefer the bill to Pay & Account Officer for the release to Rs.28,90,249/- (Rupees Twenty Eight Lakh Ninty Thousand Two Hundred Forty Nine Only) as per bank details given below:-

i) Bank Name, Branch code & Address:	State Bank of India, Tezpur University Branch, Napaam, Tezpur – 784028, Assam.
ii) IFSC Code:	SBIN0014259
iii) Account No. & Type:	30448821505 - SAVING ACCOUNT
iv) MICR No. :	784002005

6. The expenditure involved will be met from within the Sanctioned Budget Grant 24 under Major Head: 2852, Industries:07 Telecommunication & Electronics Industries; 07.102, Digital India Programme (Minor Head); 06 - Electronics R&D in Information Technology/ Electronics/CC&BT; 06.00.31, Grants-in-Aid General for the Financial Year 2020-21.

7. In view of the instructions issued by Ministry of Finance vide OM No.7(1)/E.Coord/202 dated 14.11.2012, it is certified that the Grantee Institute has no Utilization certificates as "due for rendition" under the Rules in respect of all the Schemes/Programmes/Projects of the Ministry of Electronics and Information Technology.

8. This issues with the approval of Secretary, MeitY vide Computer No.3073454 dated 15.07.2020 and concurrence of SS&FA, MeitY vide Computer No.3073454 dated 14.07.2020.

Yours faithfully,

(K. Bhanu Hariharan)
Deputy Director

Copy to:-

1. The Director, Office of the Director General of Audit, Post & Telecommunication, Shamnath Marg, Civil Lines, Delhi-110 054.
2. Integrated Finance Division, MeitY.
3. D&D Section (2 copies), MeitY.
4. The Registrar, Tezpur University, Napaam, Tezpur.
5. GC(GK)/Director(SA)/DD(KBH), MeitY
6. Sanction Folder / Project file.

(K. Bhanu Hariharan)
Deputy Director

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COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
HUMAN RESOURCES DEVELOPMENT GROUP (HRDG)
EXTRAMURAL RESEARCH DIVISION (EMR-II)
CSIR COMPLEX, PUSA, NEW DELHI - 110 012

No. 80(0094)/20/EMR-II **Dated: 17.09.2020**

ORDER

To,

DR KUSUM K BANIA,
DEPT OF CHEMICAL SC,
TEZPUR UNIVERSITY,
TEZPUR 784028, ASSAM

Subject: **Grants-in-aid & Financial Sanction of the research project entitled "DESIGN OF ZEOLITE-Y SUPPORTED HETEROGENEOUS CATALYST FOR C-C BOND COUPLING REACTIONS"**

I am directed to refer to your proposal for sanction of CSIR Scheme titled above and to convey the approval of DG CSIR as per the details given below.

I	Duration of the Scheme (from the date of Commencement)	**36 Months**		
II	Staff	1-JRF		
III	Contingency (per annum in ₹)	1st Year : 2,50,000	2nd Year : 2,50,000	3rd Year :2,50,000
IV	Equipment (lumpsum in ₹)	5,00,000		

2. The above sanction is subject to review of periodical progress of the project by expert committee.

3. Sanction of the CSIR-HRDG is also accorded by DG CSIR to the release of the following grants for the period 01/09/2020 to 31/03/2021

No	Grants	Amount (in ₹)
I	Staff	2,17,000
II	Contingency	1,45,833
III	Equipment	5,00,000
Total :		8,62,833

4. The sanctioned scheme shall start from the commencement date mentioned in the letter or within 3 months from the date of issue of the letter or commenced as soon as some expenditure has been incurred out of the grant/date of joining of fellow, unless otherwise authorized by CSIR, failing which the scheme will be treated as withdrawn

5. The Institute should ensure to provide (i) a certificate by the PI countersigned by the Head of the department/institution that no other aid-giving agency is funding the work proposed to be done under the scheme sanctioned by CSIR (non-funding certificate); (ii) an agreement in the prescribed Form-A on non-judicial stamp paper of Rs 10/- (each page duly signed by PI); (iii) date of commencement and (iv) RBI-NEFT form (Form-K) to CSIR-HRDG immediately after the receipt of sanction letter

6. Sanction of the grant to appointment of JRF/SRF/RA under this scheme is subject to the conditions as detailed at CSIR-HRDG website (https://csirhrdg.res.in/Home/Index/1/Default/1100/62).

7. The project File no. 80(0094)/20/EMR-II may also be mentioned in all research communications arising from the above project with due acknowledgement of CSIR-HRDG.

GOVERNMENT OF INDIA
NORTH EASTERN COUNCIL SECRETARIAT
NONGRIM HILLS: SHILLONG – 793003

No NEC/HRD&E/Language/Assam/228/2020 **Dated: the 23rd September,2020**

To,

The Accounts Office,
PAO, North Eastern Council,
Nongrim Hills,
Shillong – 3.

Sub : **Grant-in-Aid (Plan/Non-Recurring) to "Centre of Endangered Language, Tezpur University, Napam, Tezpur, Assam, India for "Documentation and Revitalization of Netnyi, Khongdei and Zyphe three endangered languages of North East India for the financial year 2020-21 under Scheme of NEC under MH-2552(31)**

Secretary, NEC in exercise of the financial powers delegated by the Government of India, Ministry of DoNER vide letter No. 4/1/2010-DoNER(NEC) dtd. 7th September,2012& OM No. 1/1/2014-DoNER(NEC) dated 26th November, 2014 has accorded **Administrative Approval** towards the proposal **"Documentation and Revitalization of Netnyi, Khongdei and Zyphe three endangered languages of North East India"** at an estimated cost of **Rs. 79.10 (Rupees seventy nine lakh and ten thousand) only** to be implemented by **Centre of Endangered Language, Tezpur University, Napam, Tezpur, Assam, India-, Pin 784028.** The funding is under Major Head"2552/31.

2. This Administrative Approval is issued subject to the following conditions:-

a) The assets/facilities created for the above studies out of Government Grant will not be transferred/sold /alienated without the approval of NEC and Ministry of DoNER, Government of India

b) Tezpur University shall ensure proper upkeep, maintenance and operation of the assets/facilities created out of the project.

c) The objective/methodologies as outlined in the above sanctioned proposal shall be strictly followed for implementation. There should not be any duplication of efforts/studies already made for the similar works.

3. The project/study for **"Documentation and Revitalization of Netnyi, Khongdei and Zyphe three endangered languages of North East India" is sanctioned for 3 languages of NER namely Netnyi, Khongdei and Zyphe.**

4. The detail particulars/scope of work/specification etc of the work/project is as per the Project Proposal received from Prof M. Borbora, Centre for Endangered Language, Tezpur University, Napam, Tezpur, Assam, India-, Pin 784028 which is as follows:

Contd..page 2

	Name of the Project/study	**Documentation and Revitalization of Netnyi, Khongdei and Zyphe three endangered languages of North East India**
	Project Duration	3 years
	No. of Languages covered in the study	3 (Ref Para 3 above)
	Activities/Items as per the proposal	**Cost (Rs in lakh)**
1	Field Equipment	10.00
2	Workshops, Seminar, Lectures, Meetings, etc	6.00
3	Library books, Journals	6.00
4	Consumables (Paper, Stationery, Cartidges)	1.50
5	Revitalization (Material Development and Publication	4.00
6	Travel-Field Work	15.00
7	Travel- Visitors/ Experts/Consultative Meetings (National and International)	15.00
8	Field Assistant/Employee/Community persons	21.60
	GRAND TOTAL	**79.10**

5. The equipment's to be procured/installed by the University as per the provision of the sanctioned proposal shall be used for **Documentation and Revitalization of Netnyi, Khongdei and Zyphe three endangered languages of North East India** and also for research application/ relevant development for **Language/Scripts** conducted by the University and the facilities may also have to extended exclusively for the similar studies of the Endangered languages/scripts of the said/other Community as desired by the State Governments of NER .
6. The University should submit the copies of the Purchase Order/detail tender invited for the procurement including the purchase order for the specified materials.
7. As for the procurement of the specified materials, the University shall strictly follow either approved procurement policy of Tezpur University or the Govt. of India procurement rule as per GFR 2017.
9. The nodal department will be the Centre for Endangered (CEL), Tezpur Central University.

11. The CEL, Tezpur University would submit through the Register, Tezpur Central University the quarterly physical & financial progress report in the prescribed proforma of NEC to the Financial Adviser, Director (HRD&E) NEC Sectt, Shillong by the 15th of the next month followed by each quarter.

12. It will be open to NEC &DoNER to monitor the progress of the project work as and when felt necessary. NEC's funding for the above scheme should be acknowledged by way of prominently displaying a board at the University premises, indicating that the scheme has been financed by the NEC. The board should also provide information on the date of sanction of the scheme, cost of the scheme, date of commencement of the scheme, date of completion of the scheme etc. A plaque on granite stone with the detailed information of the project may be engraved on the wall of Centre of Endangered Language, Documentation and Revitalization of Netnyi, Khongdei and Zyphe three endanger languages of North East India where the project is being undertaken..

Contd..page 3

13. Proper monitoring of the study should be carried out by the Vice Chancellor, Tezpur University / Planning deptt, State Govt of Assam so as to complete the work as per given scope /specification, within the approved cost and time period.

14. The fund should be utilized only for the purpose for which it has been approved. No diversion of fund for any other purpose would be allowed. Recurring expenditure after completion of the scheme shall be borne by the Tezpur University

15. Utilization Certificate in GFR12-A for the fund released by NEC, Progress Report and photographs are to be submitted after each release. The Register, Tezpur Central University would request the NEC to release the next instalment. The QPR (Physical/financial) with photographs of the equipments installed are to be signed by the Coordinator/ Project Co-ordinator and countersigned by the Finance Officer & Register, Tezpur Central University .

16. The project should be completed within 36(thirty six) months from the date of issue of this sanction. Hence, monthly and quarterly action plan should be drawn up and submitted to NEC Secretariat indicating the milestones to be achieved within definite timeframe in order to facilitate rigorous review and monitoring.

17. The funds for the above study will be released by NEC in two equal instalments of 50% each.

17.1 Initially at the time of issuance of Administrative and Financial sanction, 50% of the fund would be released.

17.2 Second instalment of the project will be released by the NEC once the Implementing Agency mandatorily submits utilization certificate for 75% of the first instalment released and commensurate physical progress duly signed by the Head of designated agency and countersigned by Register and Finance Officer of the Tezpur Central University

18. Audited statement of expenditure from Chartered Accountant to be submitted for the entire amount released by NEC as well before the NEC can consider the release of subsequent & final instalment of fund.

19. The Tezpur Central University would furnish the Utilization Certificate in GFR-12A of 1st and subsequent instalments, completion report, digital good quality photographs of the project and any other such relevant documents with brief status report of the project for considering the closure of the project.

20. Tezpur Central University will submit the detailed report on the outcome of the above project/study after completion of the same with the findings/recommendations arrived out of such studies to State Govt. of NER and also to NEC/ Ministry of DONER and CIIL, MHRD, Govt of India.

21. All the relevant rules of GFR 2017 shall be duly complied with during the implementation of the above project/study. Rule 233 of GFR 2017 shall be strictly applicable in respect of the assets created out of the grants against the above project/study.

Contd..page 4

23. The above expenditure is debitable to the scheme **"Scheme of North Eastern Council"** against the following head of account

Demand No. 022
Major Head – 2552
Sub Major Head – 00
Minor Head -101
Sub Head- 07
Detailed Head -00
Object Head -31 Grants-in-Aid

23. This issues with the concurrence of Financial Adviser, NEC vide **Dy.No. 56 dated: 18/08/2020**

(Gopal Chetri)
Adviser (IFC & WSM) &
I/C Director (HRD&E)

Memo No.NEC/HRD&E/Language/Assam/228/2020 Dated: the 23rd Sept,2020

Copy forwarded to the:-

1. Secretary to Hon'ble Governor, Assam , Guwahati
2. Secretary to Hon'ble Chief Minister, Assam.
3. Chief Secretary, Government of Assam/ Manipur/, Nagaland/ Mizoram/Sikkim/Tripura/Meghalaya/Arunachal Pradesh
4. Joint Secretary, Ministry of Human Resource Development, Govt of India, New Delhi.
5. Secretary, Planning Department, Government of Assam/ Manipur/, Nagaland/ Mizoram/Sikkim/Tripura/Meghalaya/Arunachal Pradesh
   .Secretary, Education Department, Government of Arunachal Pradesh/ Assam/ Manipur/, Nagaland/ Mizoram/Sikkim/Tripura/Meghalaya
6. The Vice Chancellor, Tezpur Central University, Napam, Tezpur, Assam, India
7. The Register, Tezpur University, Central University, Napam, Tezpur, Assam, India
8. The Finance Officer, Central University, Napam, Tezpur, Assam, India,
9. Coordinator , Centre for Endangered Language, Central University, Napam, Tezpur, Assam, India,
10. Director (NEC), Government of India, Ministry of Development of NE Region, Vigyan Bhavan Annexe, Maulana Azad Road, New Delhi – 110011.
11. Accountant General (A&E), Sikkim, Gangtok.
12. Accountant General (Audit), Meghalaya etc, Shillong.
13. P.S. to Secretary, NEC Sectt, Shillong.
14. Financial Adviser, NEC, Sectt Shillong.
15. Planning Adviser, NEC Sectt, Shillong.
16. Economic Adviser(HR), NEC Sectt., Shillong.
17. Director (E&M), NEC, Sectt, Shillong.
18. Director (IPR), NEC Sectt, Shillong.
19. Finance Wing, NEC Sectt, Shillong.
20. Sr. Technical Director, NIC- NEC Sectt, Shillong.

(Gopal Chetri)
Adviser (IFC & WSM) &
I/C Director (HRD&E)

No.12014/58/2020-HR/E-Office:8047112

Government of India
Ministry of Health and Family Welfare
(Department of Health Research)

2nd Floor, IRCS Building,
Red Cross Road, New Delhi-01
Date: 20/11/2020

ORDER

Subject: HRD Scheme of the Department of Health Research for **"Young Scientist"** – project titled **"To explore the role of exercise-induced myokines on adipocyte-macrophage crosstalk and the prevention of adipose tissue inflammation and insulin resistance"** PI: **Ms. Archana Sinha.**

With the approval of the Competent Authority, sanction is accorded for funding of the project titled "**To explore the role of exercise-induced myokines on adipocyte-macrophage crosstalk and the prevention of adipose tissue inflammation and insulin resistance**" to **Ms. Archana Sinha,** C/o Dr. Suman Dasgupta, Asst. Prof., Department of Molecular Biology & Biotechnology, Tezpur University, Tezpur, Napaam, Sonitpur, Assam - 784028 under **Young Scientist** - HRD Scheme of the **Department of Molecular Biology & Biotechnology, Tezpur University, Tezpur, Napaam, Sonitpur, Assam – 784028** on the terms and conditions detailed here under:-

2. The objectives of the project shall be:-
   i. To study the role of exercise-induced myokine on the cross-talk of adipocytes and macrophages.
   ii. To examine the underlying mechanism of exercise-induced myokine on the prevention of adiposetissue inflammation.
   iii. To explore the molecular mechanism of exercise-induced myokine action on insulin sensitivity.

3. **PI: Ms. Archana Sinha** shall be responsible to carry out the project work under guidance/ mentorship of **Dr. Suman Dasgupta,** Asst. Prof., Department of Molecular Biology & Biotechnology, Tezpur University, Tezpur, Napaam, Sonitpur, Assam - 784028.
4. The duration of the project shall be for **3 years** only.
5. The date of project start shall be effective from the date of joining of PI as **Young Scientist** in the project after sanction of grant or joining should not be later than 15 working days from the issue of the forwarding letter & sanction order.
6. The budget for the project shall be **Rs. 30,08,250/- (Rupees Thirty Lakhs Eight Thousand Two Hundred Fifty Only)** as per the details indicated in the attached statement [Annexure-I].
7. The grant for the first year for **Rs.11,81,250/- (Rupees Eleven Lakhs Eighty One Thousand Two Hundred Fifty Only)** is released as detailed in the attached statement [Annexure-II].
8. Further grant will only be released on the basis of work performed by the PI in this

project which is subject to the review by the Technical Evaluation Committee of the Department and recommendations thereon.

9. The payment of grant-in-aid will be further subject to the GRF-2017/DFPR-1978/Receipt and Payment Rules 1983 (as amended from time to time) and also subject to the following terms and conditions:

i. The grant of the project will be released in favor of "**TEJPUR UNIVERSITY R&D, Assam".**

ii. The Host Institute would be required to submit the Quarterly/annual progress report, the final completion report and the audited Utilization Certificate annually by the end of March as per GFR -238 etc., as per provisions of the scheme guidelines.

iii. Steps to procure the approved equipment should be initiated immediately (to avoid escalation of cost) by following the GFR guidelines/ prescribed norms of the State Govt.

iv. The salary of staff appointed on the project should be paid as indicated in the budget statement attached. An undertaking would be furnished by the host institution that the staff will be engaged for the project purely on contractual basis and would have no claim to a permanent employment with the DHR. No alteration in the staff approved can be made by the institute/research Organization without the permission of DHR.

v. The Institute shall not dispose of or encumber or utilize the assets acquired wholly or substantially out of the Government grant for purpose other than those for which the grant has been sanctioned without prior sanction of the Government.

vi. The Institute shall maintain a separate account for funds received and expenditure incurred under the said scheme.

vii. If the grant or any part thereof is not utilized for the purpose for which it is sanctioned, it shall be refunded to the DHR immediately.

viii. The Institute should maintain a register in Form GFR-22 of the payment and semi-permanent assets acquired to the DHR immediately.

ix. The register of assets maintained by the Institute shall be made available for scrutiny by the Audit.

x. A utilization certificate in proforma prescribed (GFR 12-A) and the audited statement of accounts should be furnished to the DHR to enable the Government to satisfy themselves that the amount has been utilized for the purpose for which it was sanctioned. These documents should be sent to the DHR immediately after the closure of the current financial year and in any case not later than the end of the third month of the next financial year. (format enclosed)

xi. The accounts of the grantee institution shall be open to inspection by the sanctioning authority and audit both by the CAG of India under the provision of CAG(DPC) Act, 1971 and internal audit wing of the O/o CCA of the Ministry, whenever the institution of organization is called upon to do so.

xii. Grantee/institution receiving the grant shall furnish Achievement-cum performance report (final) two months prior of the scheduled period of the project.

xiii. Utilization of Travel Grant, Contingency Grant, etc would be as per the Guidelines of

the Scheme, which are available on the website of DHR (www.dhr.gov.in)

xiv. DHR guidelines for the extramural projects as available on the ICMR website may also be followed.

xv. Any change in sanctioned budget /salary component/ staff or any component of the approved project will not be entertained.

10. **Other Terms & Conditions of the Grant:**

I. The payment of the grant will be made by the Electronic transfer/ Demand Draft/ Cheque and the receipt of the same shall be duly acknowledged by the Institute.
The Institute should register on PFMS portal to receive funds electronically from the DHR.
All the expenditure, transfer and advances shall be maintained on PFMS portal for monitoring of funds /grant by DHR.
The utilization certificate generated from the PFMS portal will only be accepted and further grant will be release on the basis of utilization certificate.

II. After completion of the project/activity the ownership of the physical and intellectual assets created or acquired out of the funds granted shall vest with the Department.

III. Expenditure should on no account exceed the budget sanctioned for the project. Re-appropriation of savings to meet excess expenditure under various sub heads shall not be made without the approval of the DHR. No expenditure shall be incurred on items not sanctioned under the scheme.

IV. **UTILIZATION OF CONTINGENT GRANT**

A. This is meant for recurring as well as non-recurring expenditure. The contingent grant can be utilized for purposes like, but not limited to:

i. Acquisition of books and documents of relevance to the research topic in case these are not available in the library, these would become the property of the Institution library and after purchase and accession may be issued to Department/Scientist till they are needed.
ii. Charges for specialized investigations for which facilities do not exist in the host institute.
iii. Publication charges/ reprints/ off prints of research papers published as an outcome of the research.
iv. Data entry charges
v. Printing of questionnaire
vi. Computer utilities, charges for analysis of data (computer charges)
vii. Typing of research reports including preparation of the final report
viii. POL
ix. Communication charges
x. The grant cannot be used for purchase of furniture items/ office equipments such as telephone, fax machine, computers etc.

B. For contingency grant exceeding Rs.25,000/- per annum detailed breakup should be given.

V. Extension beyond the approved duration would not be entertained. If interesting/ important leads emerge that need to be followed-up, a separate proposal may be submitted.

Only in exceptional cases, where a valid justification exists, and recommended by the Technical Evaluation Committee and Project Approval Committee an extension can be considered to complete the project.

VI. The host Institute would be required to submit an annual progress report and also give audited statement of expenditure by the Auditor of the research Organization/Institute etc. However, the first progress report should be submitted at least three months prior to the completion of the annual report.

VII. At the completion of the project, the final report should be sent in the prescribed format. The report should be submitted not later three months from the date of completion of the project. Failure to submit the Annual/Final report in time may lead to termination of the project without any notice.

The receipt of the letter may kindly be acknowledged.

Digitally signed by VED PRAKASH SINGH
Date:Wed Oct 21 11:04:50 IST 2020
Reason: Approved

(Dr. V.P. Singh)
DDG (ICMR) & Scientist-E
Department of Health Research
Tel No. 23736088

Copy to:

1. Ms. Archana Sinha, C/o Dr. Suman Dasgupta, Asst. Prof., Department of Molecular Biology & Biotechnology, Tezpur University, Tezpur, Napaam, Sonitpur, Assam - 784028.
2. TEJPUR UNIVERSITY R&D, Assam.
3. The Secretary, DHR & DG, ICMR – For information please.

Annexure-I

No.12014/58/2020-HR

Project titled "**To explore the role of exercise-induced myokines on adipocyte-macrophage crosstalk and the prevention of adipose tissue inflammation and insulin resistance**" PI: **Ms. Archana Sinha.**

(Amount in Rs.)

S. No.	Head	1st Year	2nd Year	3rd Year	Total
1	Stipend @ Rs.50000pm x 12	600000	600000	600000	1800000
2	Consumables	500000	300000	200000	1000000
3	Contingencies	5000	5000	5000	15000
4	Travel	20000	20000	10000	50000
5	Overhead Charges	56250	46250	40750	143250
	Total	**1181250**	**971250**	**855750**	**3008250**

Annexure-II

No.12014/58/2020-HR

Project titled "**To explore the role of exercise-induced myokines on adipocyte-macrophage crosstalk and the prevention of adipose tissue inflammation and insulin resistance**" PI: **Ms. Archana Sinha.**

(Amount in Rs.)

S. No.	Head	1st Year Budget for Release
1	Stipend @ Rs.50000pm x 12	600000
2	Consumables	500000
3	Contingencies	5000
4	Travel	20000
5	Overhead Charges	56250
	Total	**Rs.11,81,250/-**

(Rupees Eleven Lakhs Eighty One Thousand Two Hundred Fifty Only)

HRD Scheme P.NO.01

Sl. No.	Bank Details			Net Payment (In Rs.)	To be Credited to the Account of	Name of the PIs with their Institutes
	Branch Name	Account No.	IFSC Code			
1	State Bank of India, PGIMER Chandigarh	30048326344	SBIN0001524	7,07,620/-	Private Research Grant Account, Director, PGIMER	Dr. Varun Dhir, PGIMER, Chandigarh.
2	State Bank of India, NIN, Secunderabad	52020520463	SBHY0020082	9,94,247/-	The Director, National Institute of Nutrition.	Dr. Sukesh Narayan Sinha, National Institute of Nutrition, Hyderabad.
3	State Bank of India, JNU Branch	10596550879	SBIN0010441	18,40,000/-	Finance Officer, JNU	Dr. Vikrant Singh Rajput, JNU, New Delhi.
4	State Bank of India, AIIMS, Ansari Nagar.	35565254056	SBIN0001536	10,45,546/-	AIIMS ICMR RESEARCH Account	Dr. Khushboo Irshad, AIIMS, New Delhi.
5	State Bank of India, NIIMHANS, Bangalore	54004640402	SBIN0040675	3,55,183/-	NIMHANS AIDED PROJECT DF A& CAO RESGISTRAR	Prof. Manoj Kumar Sharma, NIMHANS.
6	State Bank of India,	30448821505	SBIN0000195	11,81,250/-	TEZPUR UNIVERSITY R&D	Ms. Archana Sinha, Tejpur University R&D, Assam.
Grand Total				61,23,846/-		

A Cheque No. .....Dated .....

For: Rupees Sixty One Lakhs Twenty Three Thousand Eight Hundred Forty Six only is enclosed.

It is also pointed out that no charge may be debited to our account for the above remittance as the Council transacts Govt. funds in public interest.

(Dealing Hand)

(Section Officer)
Account-V

Copy to: -

1. A.O. DHR,(ICMR)

भारतीय आयुर्विज्ञान अनुसंधान परिषद
Indian Council of Medical Research
लेखा / प्रशा० अधि० (लेखा अधिकारी)
ACO / AO (A/cs & Fin.....
वरि० प्रशा० / वरि० लेखा अधिकारी
Sr. AO / .....

Cheque No. : 434702
Reg. No. : 69
Dated : 19/11/20
Amount No. : 61,23,846/-

(Section Officer)
Account -III

20/11/2020

A

FILE NO. SRG/2019/000660

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: 15 December, 2020

ORDER

Subject: Research project entitled **"Nanocavity-in-Body Tunnel Field Effect Transistor Architectures for Low Power Sensing Applications"** under the guidance of Dr. RUPAM GOSWAMI, Electronics and Communication Engineering, Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028.

1. This is in continuation of SERB's sanction order No. "SRG/2019/000660" dated "26 November, 2019 " of **Science and Engineering Research Board (SERB)**.
The budget for both the institutes is given below:

S. No	Head	Original Total Cost (in INR)	Allocation for Birla Institute of Technology and Science (BITS)-Pilani Campus, Pilani Campus, Vidya Vihar, Pilani (in INR)	Allocation for Tezpur University, Napaam, Tezpur, Assam (in INR)	Revised Budget (in INR)
A	**Non-recurring (Capital Items)**				
1	Equipment	0	0	0	0
A'	*Total - Capital*	***0***	***0***	***0***	***0***
B	**Recurring Items**				
1	Manpower *-> Junior Research Fellow - 1[{ Rs. 372000/- PY for I year , Rs. 372000/- PY for II year }]*	744000	0	744000	744000
2	Consumables	0	0	0	0
3	Travel	100000	0	100000	100000
4	Contingencies	100000	0	100000	100000
5	Other Cost.	0	0	0	0
6	Scientific Social Responsibility	10000	0	10000	10000
	General - I (Manpower, Consumables, Travel, Contingencies, Other Cost, SSR)	954000	0	954000	954000
	General - II Overhead Charges	95400	0	95400	95400
B'	*Total - Recurring*	***1049400***	***0***	***1049400***	***1049400***
C	**Total cost of the project (A' + B')**	**1049400**	**0**	**1049400**	**1049400**

2. The revised total cost of the project at **Birla Institute of Technology and Science (BITS)-Pilani Campus, Pilani Campus, Vidya Vihar, Pilani** would be Rs. 0/- and total cost for **Tezpur University, Napaam, Tezpur, Assam** would be Rs. 1049400/- The project duration is till 08 December, 2021.

3. Sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 524700/-** (Rupees Five Lakh Twenty Four Thousand Seven Hundred only) under 'Grants-in-aid General' to **REGISTRAR, Tezpur University, Napaam, Tezpur, Assam** being the 2nd grant for the financial year 2020-2021 for implementation of the above said project.

4. Sanction of the competent authority is also accorded to the transfer of unspent balance of **Rs. 0/-** (Rupees only) (Recurring Rs. 0 and Non-Recurring Rs. 0) to Tezpur University, Napaam, Tezpur, Assam from FY 2019-2020 to FY 2020-2021 for the same purpose for which it was sanctioned

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

6. It is certified that provision of GFR 212 relating to Utilization Certificates (Ucs) for the funds released under the grant have been satisfied and the UC/s is/are enclosed herewith.

7. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant. (EC Engineering Sciences)**

8. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **20 October, 2020** and vide Diary No. **SERB/F/4575/2020-2021** dated **28 October, 2020**

9. The release amount of **Rs. 524700/-** (Rupees Five Lakh Twenty Four Thousand Seven Hundred only) (Recurring Rs. 524700 and Non-Recurring Rs. 0) 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	TU
Account Name	TEZPUR UNIVERSITY R&D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA TEZPUR UNIVERSITY BRANCH, ASSAM 784028
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	rup.gos@gmail.com

10. 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.

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

12. The institute will furnish to the SERB, Utilization certificate(separate for Recurring & Non-Recurring) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. After completion of the project unspent balance if any should be returned as Demand Draft drawn in favour of "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.

16. The File no. SRG/2019/000660 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

17. As this is the first grant to the **Tezpur University, Napaam, Tezpur, Assam** for the fellowship, no previous U/C is required.

B

(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@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.	**Dr. RUPAM GOSWAMI** **Electronics and Communication Engineering** **Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028** **Email: rup.gos@gmail.com** **Mobile: 919864803577**
5.	**REGISTRAR,** **Tezpur University, Napaam, Tezpur, Assam**
6.	**Director,** **Birla Institute Of Technology And Science (BITS)-Pilani Campus, Pilani Campus,** **Vidya Vihar, Pilani**

(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in

FILE NO. CRG/2020/004775

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: 16-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Computational Investigations Towards Designing of Main Group and Transition Metal based Systems for Dinitrogen Activation** " under the guidance of Prof. Ashwini K. Phukan, Chemical Sciences, Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028 - 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. 4095949/-** (**Rs.** Forty Lakh Ninety Five Thousand Nine Hundred and Forty Nine **Only)** with break-up of **Rs.** ***1996470/-*** **under Capital (Non-recurring) head** and **Rs.*2099479/-* under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 4095949/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> 5 KVA UPS -> Computer Server	1996470
A'	*Total (Non-Recurring)*	***1996470***
B	**Recurring Items**	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 450000 20000
2	Recurring - IV : (Overhead Charges)	372359
B'	*Total (Recurring)*	***2099479***
C	**Total cost of the project (A' + B')**	**4095949**

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 1996470/-** (Rupees Nineteen Lakh Ninety Six Thousand Four Hundred and Seventy only) under 'Grants for creation of capital assets' and **Rs. 713159/-** (Rupees Seven Lakh Thirteen Thousand One Hundred and Fifty Nine only) under 'Grants-in-aid General' to **REGISTRAR, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Core Research Grant. (PAC Inorganic Physical Chemistry)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **09 December, 2020** and vide Diary No. **SERB/F/5402/2020-2021** dated **10 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of **Rs. 2709629/-** (Rupees Twenty Seven Lakh Nine Thousand Six Hundred and Twenty Nine 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:

FILE NO. EEQ/2020/000487

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: 18-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Study of shifting cultivation and associated environmental problems in Meghalaya: physicochemical and geospatial approach**" under the guidance of Dr. Pratibha Deka, Environmental Science, Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028 - 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. 3549620/- (Rs.** Thirty Five Lakh Forty Nine Thousand Six Hundred and Twenty **Only)** with break-up of **Rs.** ***1500000/-*** **under Capital (Non-recurring) head** and **Rs.*2049620/-* under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 3549620/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> Sonicator -> Minor instruments(Water Purification System) -> Centrifuge -> Microbalance -> Particulate Matter Sampler -> Rotary Evaporator with accessories	1500000
A'	*Total (Non-Recurring)*	***1500000***
B	**Recurring Items**	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 450000 20000
2	Recurring - IV : (Overhead Charges)	322500
B'	*Total (Recurring)*	***2049620***
C	**Total cost of the project (A' + B')**	**3549620**

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 1500000/-** (Rupees Fifteen Lakh only) under 'Grants for creation of capital assets' and **Rs. 700000/-** (Rupees Seven Lakh only) under 'Grants-in-aid General' to **REGISTRAR, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (SC)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **16 December, 2020** and vide Diary No. **SERB/F/5757/2020-2021** dated **17 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of **Rs. 2200000/-** (Rupees Twenty Two 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	TU
Account Name	TEZPUR UNIVERSITY R & D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA TEZPUR UNIVERSITY BRANCHTEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM-784028+91-3712-273361
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	pratibhadeka@gmail.com

12.The institute will furnish to the SERB, New Delhi, 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.

13. 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.

14. The project File no. EEQ/2020/000487 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. 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.

19. 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. Pramod Kumar Prasad)
Scientist-D
pk.prasad@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.	**Dr. Pratibha Deka** **Environmental Science** **Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028** **Email: pratibhadeka@gmail.com** **Mobile: 919864934308** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**REGISTRAR,** **Tezpur University, Napaam, Tezpur, Assam** (Receipt of Grant may be intimated by name to the undersigned)

(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

(16)

FILE NO. SRG/2020/001014
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: 19-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "Developing Polymers of Intrinsic Microporosity (PIMs) as Solid Matrix for Separations of Hydrocarbons" under the guidance of Dr. Saona Seth, Department of Applied Sciences, Tezpur University , Napaam, tezpur, assam, Sonitpur, Assam-784028 - 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. 2654520/- (Rs. Twenty Six Lakh Fifty Four Thousand Five Hundred and Twenty Only) with break-up of Rs. *800000/-* under **Capital (Non-recurring) head** and Rs. *1854520/-* under **General (Recurring) head** for a duration of 24 months. The items of expenditure for which the total allocation of Rs. 2654520/- has been approved are given below:

S.No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> Desiccator -> Hot air oven -> Immersion cooler -> Magnetic stirrer with hot plate -> Rotary evaporator -> Vacuum desiccator -> Vacuum oven -> Vacuum pump -> Vacuum pump	800000
A'	*Total (Non-Recurring)*	***800000***
B	**Recurring Items**	
1	Recurring I (Manpower) Recurring II (Consumables, Travel, Contingencies) Recurring III Scientific Social Res. Responsibility	803520 800000 10000
2	Recurring [illegible] Overhead Charges)	241000
B'	*Total (Recurring)*	***1854520***
C	**Total cost of the project (A' + B')**	2654520

2. Sanction of the SERB is also accorded to the payment of Rs. 800000/- (Rupees Eight Lakh only) under 'Grants for creation of capital assets' and Rs. 940000/- (Rupees Nine Lakh Forty Thousand only) under 'Grants-in-aid General' to **Registrar, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Start-up Research Grant. (EC Chemical Sciences)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on 17 December, 2020 and vide Diary No. SERB/F/5793/2020-2021 dated 18 December, 2020

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1 lakh each should be spent for travel and contingency.

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

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

11. The release amount of Rs. 1740000/- (Rupees Seventeen Lakh Forty 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:

Scanned by TapScanner

PFMS Unique Code	TU
Account Name	TEZPUR UNIVERSITY R&D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA TEZPUR UNIVERSITY BRANCHTEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM-784028CONTACT NO: +91-3712273361
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	snseth09@gmail.com

12 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.

13. 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.

14. The project File no. SRG/2020/001014 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

19. 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.

(Dr. S. V. Prasanna)
Scientist
prasanna@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.	Dr. Saona Seth Department of Applied Sciences Tezpur University , Napaam, tezpur, assam, Sonitpur, Assam-784028 Email: snseth09@gmail.com Mobile: 916296610209 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	Registrar, Tezpur University, Napaam, Tezpur, Assam (Receipt of Grant may be intimated by name to the undersigned)

(Dr. S. V. Prasanna)
Scientist
prasanna@serb.gov.in

Scanned by TapScanner

FILE NO. CRG/2020/002158

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: 28-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Tuning Metal Oxide Clusters for Selective Catalytic Hydrogenation of CO2 to Organic Acids using Quantum Chemical Methods**" under the guidance of Dr. Ramesh C Deka, Chemical Sciences, Tezpur University , Napaam, tezpur, assam, Sonitpur, Assam-784028 - 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. 2948060/- (Rs. Twenty Nine Lakh Forty Eight Thousand and Sixty Only)** with break-up of **Rs. *1196055/-* under Capital (Non-recurring) head** and **Rs.*1752005/-* under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2948060/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> High Performing Server Clusters	1196055
A'	*Total (Non-Recurring)*	*1196055*
B	**Recurring Items**	
1	Recurring - I : (Manpower) Recurring - II : (Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1164000 300000 20000
2	Recurring - IV : (Overhead Charges)	268005
B'	*Total (Recurring)*	*1752005*
C	**Total cost of the project (A' + B')**	2948060

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 597300/-** (Rupees Five Lakh Ninety Seven Thousand Three Hundred only) under 'Grants-in-aid General' to **REGISTRAR, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Core Research Grant. (PAC Inorganic Physical Chemistry)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **28 December, 2020** and vide Diary No. **SERB/F/6459/2020-2021** dated **28 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of **Rs. 597300/-** (Rupees Five Lakh Ninety Seven Thousand Three Hundred 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	TU
Account Name	TEZPUR UNIVERSITY R&D

GG-11/18/2020-R&D-E
Government of India
Ministry of Electronics and Information Technology
R&D in Electronics and Cyber Security Group
Electronics Materials and Component Development Division
Electronics Niketan 6, CGO Complex, Lodhi Road

New Delhi – 110003

Dated: 30th December, 2020

ADMINISTRATIVE APPROVAL

Subject: Administrative Approval for execution of the project entitled "Early detection of pest on Tea plantation through Multispectral imaging from Unmanned Aerial Vehicle" to be implemented by Tezpur University, Assam - NER Budget.

The undersigned is directed to convey the Administrative Approval of the Competent Authority to the implementation of the above mentioned project by Tezpur University, Assam at the total budget outlay of **Rs. 195.12 Lakhs (Rupees One Crore Ninety Five Lakh and Twelve Thousand Only)** (Rs. 140.32 lakhs as Grant-in-aid contribution of MeitY and Rs. 54.80 lakhs from industry) for a period of 36 months. The details of the project and quarterly milestones are given in the Annexure I and II.

2. This issues with the approval of Secretary, Ministry of Electronics and Information Technology, (MeitY) vide e-file No. GG-11/18/2020-R&D-E dated 29th December, 2020 and concurrence of SS&FA, MeitY vide e-file No. GG-11/18/2020-R&D-E dated 29th December, 2020.

(K. Bhanu Hariharan)
Deputy Director

Copy to:

1. The Pay & Accounts Office (PAO), Ministry of Electronics and Information Technology (MeitY), New Delhi.
2. The Director General of Audit, Finance and Communication, Shamnath Marg, Civil Lines, Delhi-110054
3. Finance Division, MeitY.
4. Cash & Accounts Section, MeitY.
5. The Vice Chancellor, Tezpur University, Assam, Napam, District Sonitpur, Tezpur, Assam-784028.
6. Prof. Nidhi Bhattacharya, Chief Investigator Tezpur University, Assam, Napam, District Sonitpur, Tezpur, Assam-784028.
7. GC (R&D E&CS)/Director (SC)/Scientist 'C' (SG)/DD (KBH), MeitY.
8. Sanction file/Project file.

(K. Bhanu Hariharan)
Deputy Director

Annexure - I to the Administrative Approval No. GG-11/18/2020-R&D-E dated 30th December, 2020

1.	**Name of the Scheme/Project**	**Early detection of pest on Tea plantation through Multispectral imaging from Unmanned Aerial Vehicle**
2.	**Objective**	The project proposes to develop a low cost rapid and early detection system for pest infestation in Tea crops to help the Indian farmers. The sub-objectives of the project are as follows: • Design and development of arrays of multispectral and thermal imaging sensors for detection of pests. • Design and development of unmanned aerial vehicles to map and scan the crop field for infestation with an industry partner. • Automatic control system development for scanning and sending data • Development of specially designed flight control and data analysis software. • Field trials of the prototype with industry partner.
3.	**Area of coverage**	Research, Development & Engineering (R, D &E) leading to production capability
4.	**Name of the Implementing Agency & the Status**	Tezpur University, Assam
5.	**Location**	Lake Road, Tezpur, Sonitpur, Assam
6.	**Total Project Duration:** **(i) Expected date of Commencement** **(ii) Expected date of completion**	36 months (i) 30th December, 2020 (ii) 29th December, 2023

7. **Total Project Outlay** (Year wise & Item wise break-up as given below):

(Rs. in Lakh)

Budget Head	1st Year	2nd Year	3rd Year	Total
Capital Equipment (including FE Comp)	60.00	0.00	0.00	60.00
Consumable stores	3.00	4.00	3.00	10.00
Manpower	15.34	15.34	16.70	47.38
Travel & Training (Including FE Comp)	1.00	3.00	3.00	7.00
Contingencies	3.00	3.00	4.00	10.00
Overheads, if any	1.78	2.02	2.14	5.94
Total	**84.12**	**27.36**	**28.84**	**140.32**

Project Outlay: Rs. 195.12 Lakhs
MeitY contribution: Rs. 140.32 Lakhs
Contribution from industry/ collaborator: Rs. 54.80 Lakhs (In-kind)

Contd..2

8.	**Mode and extent of funding**	i) Budgetary Support a) Grants-in-Aid from MeitY: b) Loan If loan, terms & conditions ii) Internal generation iii) Other funding agencies **Grand Total : Rs. 140.32 Lakh**	**Rs. 140.32 Lakh** : Nil : Nil : Nil

9. Stages for release of grants from MeitY:

Release No.	Stages of Release	Pre-condition/ Documentation to be supplied by implementation agency	Amount to be released
1.	Initiation of the Project	Acceptance of terms & conditions governing Grants-in-aid.	**Rs. 84.12 Lakh**
2.	Recommendations of the PRSG	i) Technical and Financial Progress Report. ii) Utilisation Certificate for the previous grant. iii) Audited Statement of Accounts.	**Rs. 27.36 Lakh**
3.	Recommendations of the PRSG	i) Technical and Financial Progress Report. ii) Utilisation Certificate for the previous grant. iii) Audited Statement of Accounts	**Rs. 28.84 Lakh**
		Total	**Rs. 140.32 Lakh**

(K. Bhanu Hariharan)
Deputy Director

Annexure – II

Quarterly Plan for the project entitled "Early detection of pest on Tea plantation through Multispectral imaging from Unmanned Aerial Vehicle by Tezpur University.

Quarter	Activities	Fund Requirement
1	➢ IDE Software and Simulation Software ➢ Creation of base line for development of pest detection system ➢ Collection of samples from the field ➢ Analysis of spectroscopic signature of various pests ➢ Sensors array design and development ➢ Selection of suitable sensors as per requirement ➢ Development of sensor main board	Rs. 84.12 First year instalment
2	➢ Design of UAV ➢ Design of various multi rotor systems ➢ Testing of the designs ➢ Development of UAV from selected design ➢ Testing of UAV with payload ➢ Testing of UAV in various environmental conditions	
3	➢ Development of Flight Control Software ➢ Development of automated crop scanning algorithm ➢ Development of automated mapping system ➢ Design of Field Module ➢ Testing of the designed Field Module ➢ Integration of the Field Module with the UAV	
4	➢ Server System Installation ➢ Customization of the Server ➢ Development of secured data link system ➢ Development of data base management system	
5	➢ Prototyping of sensor arrays ➢ Integration of Sensors to UAV ➢ Development of trans receiver system for sensor data transmission ➢ Testing of the trans receiver system ➢ Integration of the trans receiver system to UAV	Rs. 27.36 Second year instalment
6	➢ Testing of Sensor arrays in field ➢ Testing of Automated Fight Controller ➢ Testing of automated mapping system ➢ Testing of inter links between Field Modules and Server	
7	➢ Setting off the bench mark for sensors with reference module ➢ Calibration of sensors ➢ Testing of pest detection algorithm in the server to generate test reports ➢ Testing of scanning algorithm in the server to generate pest infestation profile over time ➢ Testing of Mapping algorithm to create crop profile	

8	➢ Initial field testing of prototype in real time environment ➢ Testing of the server system to its full capacity ➢ Feedback from the users ➢ Debugging of the developed software	
9	➢ Modification as per the feedback if required ➢ Continuation of field testing ➢ Testing of prototype for maximum time and range of operations ➢ Testing of other parameters like charging time, initialization time etc.	
10	➢ Development of the final prototype ➢ Standerdisation of the specifications of the system ➢ Creation of manufacturing and assembly line procedure ➢ Creation of operating manual ➢ Creation of service manual ➢ Development of a farmer training and awareness program	Rs. 28.84 Third year instalment
11	➢ Extensive field trials at different locations ➢ Demonstration of the technology to local farmers	
12	➢ Transfer of Technology etc. ➢ Other paper works	

(K. Bhanu Hariharan)
Deputy Director

NORTH EAST BUDGET

GG-11/18/2020-R&D-E
Government of India
Ministry of Electronics and Information Technology
R&D in Electronics and Cyber Security Group
Electronics Materials and Component Development Division
Electronics Niketan 6, CGO Complex, Lodhi Road
New Delhi – 110003

Dated: 30th December, 2020

To,

The Pay & Accounts Officer
Ministry of Electronics & Information Technology
Electronics Niketan
New Delhi-110003

Subject: Release of Grants–in-aid for the project entitled "Early detection of pest on Tea plantation through Multispectral imaging from Unmanned Aerial Vehicle" being implemented by Tezpur University, Assam – NER Budget Head

Sir,

I am directed to refer to the Administrative approval no. GG-11/18/2020-R&D-E dated 30th December, 2020 conveying the approval of Competent Authority for the implementation of the above mentioned project implemented by Tezpur University, Assam at the total estimated cost of **Rs. 195.12 Lakhs** (Rs. 140.32 lakhs as Grant-in-aid contribution of MeitY and Rs. 54.80 lakhs from industry) over a period of 36 months.

2. The sanction of the President of India is hereby conveyed under the Delegation of Financial Powers Rules, 1978 to the release of **Grants-in-aid** amounting to **Rs. 84.12 Lakhs (Rupees Eighty Four Lakh and Twelve Thousand only)** to Tezpur University, Assam for the Financial Year 2020-21.

3. The grants-in-aid will be regulated in accordance with the provisions contained in the Terms and Conditions of Ministry of Electronics and Information Technology. The grants-in-aid is also subject to the Chapter 9 of the General Financial Rules, 2017, as amended from time to time, read with the Government of India's decisions incorporated there-under, and any other guidelines which may be issued in this regard, and in particular to the following conditions:

i) All relevant information and documents/certificates as required under Rule 230(1) of General Finance Rules, 2017 have been received.

ii) The pattern of assistance of rules governing such grants-in-aid have received the approval of the Ministry of Finance, as required under Govt. of India Decision No. (1) under DFPR-Rule 20.

Contd....2

iii) Terms and Conditions of the service of the employees employed in Tezpur University, Assam shall not be higher than those applicable to similar categories of employees of central Government and where it is not in accordance with above, the relaxation of Ministry of Finance would be obtained for such discrepancies as required under Rule 230(12) (i) of General Finance Rules, 2017.

iv) Finance would be obtained for such discrepancies as required under Rule 230(12) (i) of General Finance Rules, 2017.

v) Assets acquired wholly or substantially out of Government grants shall not be disposed off without obtaining the prior approval by Tezpur University, Assam of the sanctioning authority of Grants-in-Aid.

vi) Tezpur University, Assam shall make reservations for Scheduled Castes and Scheduled Tribes of OBC in the posts or services under its control on the lines indicated by Government of India.

vii) The accounts of Tezpur University, Assam shall be audited by C&AG or by any person authorized by him on his behalf in accordance with the provisions laid down in Section 14 of the C&AG (DPC) 1971 as amended from time to time.

viii) The accounts of Tezpur University, Assam shall be open for inspection by the sanctioning authority and audit, both by the Comptroller & Auditor General of India under the provision of C&AG (DPC) Act, 1971 and internal audit party by the Principal Accounts Office of the Ministry or Department whenever it is called upon to do so.

ix) Tezpur University, Assam may furnish their performance-cum-achievement report within the stipulated period to the Sanctioning Authority.

x) Tezpur University, Assam will spend grants-in-aid exclusively in pursuance of the objectives envisaged in Rules/Memorandum of MeitY and the approval of the Competent Authority in each case.

xi) Grants-in-aid to Tezpur University, Assam is subject to the Economy Instructions issued from time to time by the Ministry of Finance or by the Competent Authority.

xii) Grants-in-aid shall be utilized within the stipulated period from the date of the receipt of the grants-in-aid and unspent balance, if any, will be refunded by Tezpur University, Assam to the Government of India.

xiii) Noted at Serial No. '28' in the Register of Grants for the FY 2020-21.

xiv) Tezpur University, Assam will maintain and will present their annual accounts in the standard format, as required under Rule 230(5) of General Finance Rules, 2017. Tezpur University, Assam shall submit year-wise Audited Statement of Accounts to MeitY.

Contd...3/-

xv) In case of Non-Recurring Grant for specified object:

a) Tezpur University, Assam will have to spend the amount sanctioned within the stipulated period.

b) Utilization Certificate is to be furnished by the Tezpur University, Assam as required under Rule 238 (1) of General Finance Rules, 2017 read with Form GFR 12-A, ibid .

xvi) The Implementing agency should ensure compliance of EAT module before approaching for further release under the project.

xvii) All interest of others earning against GIA or advance (other than reimbursement) released should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances should not be allowed to be adjusted against future releases.

4. Tezpur University, Assam is exempted from the execution of Surety bond in terms of Ministry of Finance O.M. No.14(1)/E-II(A)-64 dated 23.06.1965 and have accepted the terms and conditions for the grant-in aid.

5. Drawing & Disbursing officer (DDO) of Ministry of Electronics and Information Technology is authorize to prefer the bill to Pay & Account Officer for the release to **Rs. 84.12 Lakhs (Rupees Eighty Four Lakh and Twelve Thousand only)** to Tezpur University, Assam as per bank details given below:

i.	**Bank Name**	:	**State bank of India**
ii.	**Savings A/C No.**	:	**30448821505**
iii.	**IFSC Code**	:	**SBIN0000195**
iv.	**MICR No.**	:	**784002002,**
v.	**Branch**	:	**Lake Road, Tezpur, Sonitpur, Assam**

6. The expenditure involved will be met from within the Sanction Budget of Ministry of Electronics and Information Technology under **Demand No. 24,** 2852 - (Major Head) 07-Telecommmunication and Electronics Industries (Sub-Major Head), **102-** Electronics (Minor Head), **06.**R&D in Information Technology/Electronics/CCBT **06.00.31**-R&D in Information Technology/Electronics/CCBT for the year 2020-2021.

Contd...4/-

7. In view of the instructions issued by Ministry of Finance vide O.M. No. 7(1)/E.Coord/202 dated 14.11.2012, it is certified that the Grantee Institute has no Utilization Certificates as **"due for rendition"** under the Rules in respect of all the Schemes/Programmes/Projects of the Ministry of Electronics and Information Technology..

8. This sanction issues in exercise of the powers conferred on this Ministry in consultation with the Integrated Finance Division, SS&FA, MeitY vide e-file No. GG-11/18/2020-R&D-E dated 29.12.2020 and approval of Secretary, MeitY vide e-file No. GG-11/18/2020-R&D-E dated 29.12.2020.

(K. BhanuHariharan)
Deputy Director

Copy to:

1. The Pay & Accounts Office (PAO). Ministry of Electronics and Information Technology (MeitY), New Delhi.
2. The Director General of Audit, Finance and Communication, Shamnath Marg, Civil Lines, Delhi-110054
3. Finance Division, MeitY.
4. Cash & Accounts Section, MeitY.
5. The Vice Chancellor, Tezpur University, Assam, Napam, District Sonitpur, Tezpur. Assam-784028.
6. Prof. Nidhi Bhattacharya, Chief Investigator TezpurUniversity, Assam, Napam, District Sonitpur, Tezpur, Assam-784028.
7. GC (R&D E&CS)/Director (SC)/Scientist 'C' (SG)/DD (KBH), MeitY.
8. Sanction file/Project file.

(K. Bhanu Hariharan)
Deputy Director

(65)

सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग
University Grants Commission
शिक्षा मंत्रालय, भारत सरकार
(Ministry of Education, Govt. of India)
बहादुरषाह जफर मार्ग नई दिल्ली – 110 002
Bahadurshah Zafar Marg, New Delhi-110002
Phone : 011-23604413

ज्ञान-विज्ञान विमुक्तये

No.F. 52-2/2020(CU)

January, 2021

12 JAN 2021

The Registrar
Hemwati Nandan Bahuguna Garhwal University
Srinagar
Garhwal – 246 174
Uttarakhand

Subject: Approval of Grants-in-aid to Hemwati Nandan Bahuguna Garhwal University as One time grant under Recurring Head for the finding under the studies in five thematic areas by two Consortium of Central Universities in Himalayan States for the year 2020-2021.

Sir,

I am directed to convey the approval (**first instalment**) of the University Grants Commission for an amount ***Rs. 1,00,00,000/- (Rupees One Crore Only)*** to ***Hemwati Nandan Bahuguna Garhwal University, Srinagar, Garhwal – 246 174***, **Uttarakhand** under Grant-in-Aid Recurring components for **the finding under the studies in five thematic areas by two Consortium of Central Universities in Himalayan States** the year 2020-2021 as per details below:-

(Amount in Lakhs)

Items	Grant Already Released	Grant Now Sanctioned	Total Grant Released so far
Pension and Pensionary Benefits and pension arrears	1963.46	100.00	2063.46
Non-Salary			
Non-NET Fellowship for M.Phil./Ph.D. holders			
One time Grant for the finding under the studies in five thematic areas by two Consortium of Central Universities in Himalayan States. **(Allocation Rs. 200.00 lakhs)**			

Further, the bifurcation of above releases under General, SC and ST components are as under:-

(Amount in Lakhs)

Allocation 2020-21 under Recurring Head	Items / Head of Accounts		Grant already released	Grant now sanctioned	Total Grant released so far
Yet to be finalized	Grants in aid Recurring (31)	CU General Component I (A) 31	1680.56	100.00	1780.56
		CU SC I (B) 31	184.39	0.00	184.39
		CU ST Component I (C) 31	98.51	0.00	98.51
		Total	**1963.46**	**100.00**	**2063.46**

The sanction letter of the above mentioned grant is being issued separately under General, SC, ST Component.

Yours faithfully

(A S Sajwan)
Under Secretary

Copy to:-

1. The Finance Officer, Hemwati Nandan Bahuguna Garhwal University, Srinagar, Garhwal – 246 174, Uttarakhand
2. Policy File No. F.1-2/2020(CU)
3. Computer File

V. Talreja

(V Talreja)
Section Officer

(64)

RECURRING -GEN-NON NER

FD Diary No. : 1871
Dated : 12.01.2021

January, 2021

12 JAN 2021

No.F.52-2/2020(CU)

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

ज्ञानविज्ञानविमुक्तये।
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAGAR MARG
NEW DELHI-110002

Subject: **Release of Grants-in-aid to Hemwati Nandan Bahuguna Garhwal University as One time grant under Recurring head** for the finding under the studies in five thematic areas by two Consortium of Central Universities in Himalayan States **for the year 2020-2021.**

Sir,

I am directed to convey the sanction **(first instalment)** of the University Grants Commission for payment of Rs. **1,00,00,000/- (Rupees One Crore Only)** to **Hemwati Nandan Bahuguna Garhwal University** for the financial year i.e. 2020-2021 towards the payment of Recurring Expenditure to be incurred during 2020-2021 for the finding under the studies in five thematic areas by two Consortium of Central Universities in Himalayan States as per details below:-

(Rs. in lakhs)

Name of the Item	Head of Account	Grant already sanctioned	Grant now being sanctioned	Total Grant
One time Grant for the finding under the studies in five thematic areas by two Consortium of Central Universities in Himalayan States. (Allocation Rs. 200.00 Lakhs)	CU General I (A) 31	1680.56	100.00	1780.56

It may also be ensured that the university has adopted the University Grants Commission (Minimum Standards and Procedure for award of M.Phil./Ph.D. Degree), Regulations, 2016.

2. **The release of above grant to Central Universities is subject to the condition that the expenditure to be incurred during the year 2020-21 with the following conditions:-**
   - i) **Grant under OH-31 will be utilized only for pension and arrears of pension, scholarship and arrear of scholarship. Thereafter expenditure on other items. Expenditure on other recurring expenditure to be incurred after fully clearing the liabilities under Pension and Scholarship.**
   - II) **Grant under OH-36 will be utilized only for payment of salary and its arrears of salary for regular employees and also for retirement benefits of regular employees.**
3. **The University / Institution shall ensure that all the payment (approved items of expenditure) to the beneficiaries / vendors shall be made only through the EAT module of PFMS.**
4. The sanctioned amount is debitable to Central Universities as stated above and is valid for payment during the financial year 2020-2021 only.
5. 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, Hemwati Nandan Bahuguna Garhwal University, Srinagar, Garhwal – 246 174 Uttarakhand** through Electronic mode as per the following details:-

a.	*Details (Name & Address) of Account Holder :*	**The Registrar, Hemwati Nandan Bahuguna Garhwal University, Srinagar, Garhwal – 246 174 Uttarakhand**
b.	*Account No.*	10671301069
c.	*Name & Address of Bank Branch*	Reserve Bank of India, Sansad Marg, New Delhi
d.	*Branch Code*	RBIS0PFMS01
e.	*Type of Account*	Saving Account

6. The Grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed Proforma submitted by the University.
7. 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 UGC as early as possible after the close of current financial year.

8. **The University shall send the EAT report (downloaded from PFMS portal) of their expenditure of grants received from UGC under different schemes along with Utilization Certificate duly signed by the Head of the Institution.**
9. 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.
10. 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 /guidelines there under from time to time.
11. The assets acquired wholly for 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.
12. A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed proforma.
13. 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, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.
14. The University/Institution shall follow strictly the Government of India/UGC's guidelines regarding implementation of the reservation policy [both vertical (for SCs, STs, OBC & EWS) horizontal (person with disability etc.)] in admission and appointment of teaching & non-teaching posts.
15. The University/Institution shall follow 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.
16. The sanction is issued in exercise of the delegation of power vide UGC Order No.130/2013 {F.No.10-11/12 (Admn. IA & B} dated 28.05.2013.
17. The University/Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009 and amended from time to time.
18. The University/Institute shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
19. 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.
20. 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.
21. All interests earned against Grants-in-Aid (other than reimbursement) released to university should be mandatorily remitted to UGC Saving Bank account No. 603010110003355 of Bank of India with IFS Code : BKID0006030 immediately after finalization of accounts. Any interest earned out of Grants in aid should not be treated as additional funds over and above the allocation.
22. Any short fall in the funds under non-salary items is required to be met out by the university from the own resources.
23. The University is registered / mapped with PFMS Portal.
24. The issues with the concurrence of FA vide Diary No. **99399** dated **06-01-2021**
25. This issue with the approval of the Chairman, UGC vide Diary No. **54184** dated **07-01-2021**

Yours faithfully,

(A S Sajwan)
Under Secretary

Copy forwarded for information and necessary action for:-

1. The Registrar, Hemwati Nandan Bahuguna Garhwal University, Srinagar, Garhwal – 246 174 Uttarakhand .
2. The Finance Officer, Hemwati Nandan Bahuguna Garhwal University, Srinagar, Garhwal – 246 174 Uttarakhand .
3. O/o DG of Audit, Central Revenues, AGCR Building, I.P.Estate, New Delhi – 110 002.
4. F.No.1-2/2020(CU)
5. Computer File

V. Talreja
(V Talreja)
Section Officer

भारतीय इतिहास अनुसंधान परिषद्
INDIAN COUNCIL OF HISTORICAL RESEARCH

स्वायत्त संस्थान, मानव संसाधन विकास मंत्रालय के अधीन (भारत सरकार)

An Autonomous Organisation Under the Ministry of HRD, Govt. of India

35, फिरोज़शाह मार्ग, नई दिल्ली - 110001
35, Ferozeshah Road, New Delhi - 110001

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Fax : 011-23383421, 23387829
E-mail : ms@ichr.ac.in
: dd.admin@ichr.ac.in; dd.res@ichr.ac.in
Website : www.ichr.ac.in

Dr. Nitin Kumar
Assistant Director (Research)
Ph. No. 011- 23382580
Email ID: adr.rp@ichr.ac.in

F.No.1-04/2020-ICHR (GIA-III) RP 28.12.2020

Dear Dr. Madhurima Goswami,

Please refer to your application for the award of the ICHR's Research Project grant. I am pleased to inform you that the 162nd meeting of the Research Projects Committee held on 16.12.2020 has approved the recommendations of Presentation cum Interview Committee on your Research Project proposal entitled **"Lives of the Ritual Priestesses of Assam: A Study with special reference to the Institution of Doudinis in the Bodo Society"**.

The Presentation-cum-Interview Committee of the Research Project recommended a sum of Rs.2,50,000/- (Rupees Two Lakh Fifty Thousand only) for a period of two years.

Please furnish the following information for processing your case further for releasing the grant.

1) Whether you are in receipt of any grant for this purpose from any other institution, and if so, the amount and the name of the funding institution may be sent to us to avoid duplication of the grant.
2) The date from which you intend to commence your work.
3) You are requested to avail of the grant within one year from the date of meeting of the Research Projects Committee failing which the grant will be treated as cancelled.
4) You are further requested to give an undertaking (Performa attached) stating 'I agree to abide by the Rules and to bind myself to fulfill the requirements of the fellowship or grant awarded and to refund to the ICHR any or all expenditure thereon incurred by the ICHR, if the work under the grant, as the case may be, is not properly carried out or is not completed in any manner whatsoever'.
5) You are requested to submit the following bank account details of your institute of affiliation to release the grant through the NEFT.RTGS.

(To be filled in Capital Letter only)
Details required of the Institutes of Affiliation

a) Name of the Account Holder :
b) Name of the Bank :
c) Branch address :
d) Account No. :
e) IFSC Code :
f) MICR Code :

Yours sincerely,

(Nitin Kumar)

Encl: as above

Dr. Madhurima Goswami
Centre for Women Studies, Tezpur University
Academic Building – 1, District Tezpur, Sonitpur (Assam) - 784004
Email Id: mgs@tezu.ernet.in

Copy to:

1) The Registrar, Tezpur University, Napaam, Tezpur - 784028

INDIAN COUNCIL OF HISTORICAL RESEARCH

(An Autonomous Organisation, Min. of HRD, Govt. of India)
35, Ferozeshah Road, New Delhi-110 001

26/03/21
7787

Dr. Nitin Kumar
Assistant Director (Research)
Ph. No. 011- 23382580
Email ID: adr.rp@ichr.ac.in

Office of the Member Secretary
Received No. 5766
Date 25.03.21
Received by BS

SANCTION ORDER

F. No.1-04/2020-ICHR (GIA-III) RP

15.03.2021

Subject: Release of the 1st Installment of grant for the project entitled: **"Lives of the Ritual Priestesses of Assam: A Study with special reference to the Institution of Doudinis in the Bodo Society".**

Dear Sir/Madam

I am directed to convey the sanction of the ICHR for the payment of an amount of Rs.2,50,000/- (Rupees Two Lakh Fifty Thousand Only) for two years w.e.f.01.02.2021 to 31.01.2023.

The amount will be released in advance on six-monthly basis in half yearly installments as mentioned below:

First installment	Rs. 59,375/-
Second installment	Rs. 59,375/-
Third installment	Rs. 59.375/-
Fourth installment	Rs. 59,375/-
Final installment being 5% withheld amount	Rs. 12,500/-

First installment Rs.59.375/- (Rupees Fifty Nine Thousand Three Hundred Seventy Five only) for the period from 01.02.2021to 31.07.2021 (6 months) will be released in the following Bank details in the institute of affiliation as given below:

Name of Account Holder	:	**Dr. Biren Das** **Tezpur University Endowment Fund**
Name of the Bank	:	**State Bank of India**
Branch Address/ Code	:	**Tezpur Main Branch, Lake Road Tezpur, Sonitpur – 784001 (Assam)**
Account No.	:	**10501585452**
IFSC Code	:	**SBIN0000195**

The first installment of the approved grant will be released on receipt of the enclosed pre-receipted bill duly signed. The second and subsequent installments will be released on receipt of the six monthly progress report (3 copies) of the project submitted by the Project Director alongwith Statement of Expenditure in respect of previous installment. duly verified by the Finance Authority of the Affiliated Institute. The subsequent grant will be released only after the examination of the previous progress report by the expert if it found to be satisfactory. The overhead charges will be released only on receipt of a MSS/final work report which will be evaluated by the Council to ascertain the merit of the work.

The Project Director shall submit the final report (2 copies) of the project within three months of the end of the period of the project; five per cent of the entire grant of the project awarded under Clause 1, 2 and 4 shall be withheld, to be released on reimbursement basis only after the final statement of expenditure is received from the institution of affiliation, and the final report is found deemed satisfactory.

26/3/21

The institution of affiliation shall be expected to provide the Project Director, or a scholar awarded a project under Clause 4, with facilities such as accommodation for work, including furniture as specified in respect of a Fellow in Clause 15 of Chapter II of these Rules, and shall be paid overhead charges in return thereof by the ICHR

The grants-in-aid are subject to fulfillment of the conditions laid down in the ICHR Research Funding Rule for Grants-in-aid for research project and also subject to the following conditions:

(a) The Project Director, **Dr. Madhurima Goswami** will be responsible for directing the project to its completion within the stipulated time and sanctioned budget/grant from the date of the commencement of the work, which may please be intimated to this Council immediately.

(b) The Head of the Institution will have to share the responsibility for the proper utilization of the grant and also for the completion of the work on time and the receipt of the final report of the study.

(c) In case the sanctioned amount is not utilized in time the reasons for the same will have to be intimated to the council. If the project work is discontinued without reasonable grounds, the Project Director will be liable to return the entire amount to the ICHR, i.e., the amount paid to the scholar by that time. The ICHR reserves the right to terminate the grant, in case, it is felt that its grants-in-aid rules are being violated.

You are requested to return the enclosed bill duly signed across a revenue stamp so that the ICHR can arrange the payment at an early date.

Yours faithfully,

(Nitin Kumar)

Note: As the installments towards the Research Project Grant are released as advance amount on six monthly basis , therefore the concerned institutions are requested to release the same as an advance amount to the scholar.

Encl: As stated above

The Registrar
Tezpur University
Napaam, Tezpur-784028 (Assam)

Copy to:

1 **Dr. Madhurima Goswami, Centre for Women Studies, Tezpur University, Academic Building – 1, District Tezpur, Sonitpur (Assam) - 784004**
2 Accounts Sanction, ICHR. Payment may be made only on receipt of the pre-receipted bill duly signed. The expenditure is debitable to "Grants-in-aid Research Project".
3 Office copy
4 Extra copy

No. BT/PR40047/NER/95/1662/2020
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

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

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: "**Harnessing Endophytes and Arbuscular Mycorrhizal Fungi from Citrus Microbiome for Plant and Soil Health Management in North East India**" for a period of 3 Year 0 Month at a total cost of Rs. **11335464** (Rupees One Crores Thirteen Lakhs Thirty Five Thousand Four Hundred and Sixty Four Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "**Harnessing Endophytes and Arbuscular Mycorrhizal Fungi from Citrus Microbiome for Plant and Soil Health Management in North East India**"

2.2 Details of the Investigatiors:

Project Cordinator

Dr. Anjuma Gayan
Assistant Professor
Soil Science
Asaam Agricultural University
College of Sericulture,Soil Science department,
Assam Agricultural University,Jorhat-13, Jorhat, Assam, 785013

Principal Investigators:

Dr. Anjuma Gayan
Assistant Professor
Soil Science
Asaam Agricultural University
College of Sericulture,Soil Science
department,

Dr. Arun Kumar Rai
Assistant Professor
Botany
Sikkim University
Department of Botany, Sikkim
University (Central University),

Dr. Kiran Sunar
Assistant Professor
Botany
Balurghat Mahila Mahavidyalaya
Balurghat Mahila Mahavidyalaya
(Govt. aided college), Balurghat,

Dr. Nirmali Gogoi
Assistant Professor
Environmental Science
Tezpur University
Department of Environmental
Science Tezpur University

CO-PI:

Dr. Dhruba Jyoti Nath
Principal Scientist
Soil Science
Assam Agricultural University
Department of Soil Science
Assam Agricultural University
Jorhat, Jorhat - 785013, Assam

Mr. Himadri Shekhar Datta
Assistant Professor
Horticulture
Asaam Agricultural University
College of Horticulture
Assam Agricultural University
Jorhat, Jorhat - 785013, Assam

2.3 Objectives:

Overall Objectives:

1. Isolation, characterization and identification of endophytes (bacterial and fungal), Arbuscular Mycorrhizal Fungi (AMF) and plant growth promoting rhizobacteria (PGPR) from Citrus microbiome of NE region of India including Sikkim.
2. Elucidation of the mechanisms involved in growth promotion and disease suppression by endophytes, AM fungi and PGPR.
3. Development of a cost-effective microbial consortia of selected potential endophytes AM fungi and PGPR.
4. Validation of the potential microbial consortia in plant and soil health management of commercial citrus varieties.

Institute wise Objectives:

Asaam Agricultural University

1. Isolation, characterization and identification of endophytes (bacterial and fungal), Arbuscular Mycorrhizal Fungi (AMF) and plant growth promoting rhizobacteria (PGPR) from Citrus limon and Citrus reticulata of NE region of India
2. Elucidation of the mechanisms involved in growth promotion by endophytes (bacteria and fungi), AM fungi and PGPR
3. Development of a cost-effective microbial consortium of selected endophytes (bacterial and fungal), AM fungi and PGPR
4. Validation of the potential microbial consortia in plant and soil health management of Citrus limon and Citrus reticulata

Balurghat Mahila Mahavidyalaya

1. Isolation, characterization and identification of endophytes (bacterial and fungal), Arbuscular Mycorrhizal Fungi (AMF) and PGPR associated with the roots of Citrus reticulata from the major orchards of Sikkim
2. Raising monosporal (single spore) cultures of dominant AMF isolates and their morphological characterization and multiplication, alongwith In vitro functional characterization of PGPR of Citrus reticulata
3. Development of cost-effective microbial consortia of potential endophytes, AM fungi and PGPR
4. Validation of potential microbial consortia in plant and soil health management of Citrus reticulata

Details of the Equipment, Characterization and Identification of the project (bacterial "**Harnessing Endophytes and Arbuscular Mycorrhiza (AM) fungi from Citrus Microbiome for Plant and Soil Health Management in North East India**".

Sikkim University

SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Mini Glass house for plants with exhaust fan and coolers (dimension 15''X15''x15'')	1	299720.00
2.	Hot air oven (digital controller) size 18''x18''x18''	1	29937.00
3.	Cooling centrifuge with voltage stabilizer	1	410340.00
4.	Trinocular Microscope with HD camera	1	236708.00
		Total	**976705.00**

Tezpur University

SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Small scale poly house (Dimension 10 x10 x15').	1	135700.00
2.	Cooling centrifuge with voltage stabilizer	1	410340.00
3.	Trinocular Microscope with HD Camera	1	236708.00
4.	Biological safety cabinet (as per class II) Working size- 3x2x2 fit)	1	122531.00
		Total	**905279.00**

Asaam Agricultural University

SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Plant Growth Chamber	1	525000.00
		Total	**525000.00**

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. **11335464**/-(Rupees One Crores Thirteen Lakhs Thirty Five Thousand Four Hundred and Sixty Four Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost (Rs.)
1. Asaam Agricultural University	1351760	826760	778600	**2957120**
2. Balurghat Mahila Mahavidyalaya	1632039	726760	728600	**3087399**
3. Sikkim University	1703465	726760	778600	**3208825**
4. Tezpur University	676760	726760	678600	**2082120**
Total (Rs.)	**5364024**	**3007040**	**2964400**	**11335464**

(Dr. Vaishali Panjabi)
Scientist 'E'

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
5. Sikkim University				
Equipment	976705.00			**976705.00**
Manpower	401760.00	401760.00	453600.00	**1257120.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	150000.00	150000.00	150000.00	**450000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**

Miscellaneous	25000.00	25000.00	25000.00	**75000.00**
Total (Rs.)	**1703465.00**	**726760.00**	**778600.00**	**3208825.00**
6. Balurghat Mahila Mahavidyalaya				
Equipment	905279.00			**905279.00**
Manpower	401760.00	401760.00	453600.00	**1257120.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	150000.00	150000.00	100000.00	**400000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Miscellaneous	25000.00	25000.00	25000.00	**75000.00**
Total (Rs.)	**1632039.00**	**726760.00**	**728600.00**	**3087399.00**
7. Asaam Agricultural University				
Equipment	525000.00			**525000.00**
Manpower	401760.00	401760.00	453600.00	**1257120.00**
Consumables	250000.00	300000.00	150000.00	**700000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00		50000.00	**100000.00**
Miscellaneous	25000.00	25000.00	25000.00	**75000.00**
Total (Rs.)	**1351760.00**	**826760.00**	**778600.00**	**2957120.00**
8. Tezpur University				
Manpower	401760.00	401760.00	453600.00	**1257120.00**
Consumables	100000.00	150000.00	100000.00	**350000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00		**100000.00**
Miscellaneous	25000.00	25000.00	25000.00	**75000.00**
Total (Rs.)	**676760.00**	**726760.00**	**678600.00**	**2082120.00**

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
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 debitable 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.

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.
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.

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.

4.2 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, Asaam Agricultural University, Jorhat, Assam and The Dr Biman Chakraborty, Balurghat Mahila Mahavidyalaya, Malda, West Bengal and The Registrar, Sikkim University, Gangtok, Sikkim and The Registrar, Tezpur University, Tezpur, 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

10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clarence, 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/2350/2020-2021** dated **February, 09 2021.**

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

(Dr. Vaishali Panjabi)
Scientist 'E'

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. Anjuma Gayan(Project Co-ordinator), College of Sericulture,Assam Agricultural University,Jorhat:785013, Assam
3 The Director, Asaam Agricultural University, Assam Agricultural University
Jorhat-785013
Assam, Jorhat - 785013, Assam
4 The Dr Biman Chakraborty, Balurghat Mahila Mahavidyalaya, Balurghat, Dakshin Dinajpur, West Bengal, Malda - 733101, West Bengal
5 The Registrar, Sikkim University, 6TH MILE, SAMDUR,P. O. : TADONG
GANGTOK, SIKKIM, Gangtok - 737102, Sikkim
6 The Registrar, Tezpur University, Tezpur University
Napaam, Tezpur
Sonitpur, Tezpur - 784028, Assam
7 Dr. Anjuma Gayan, Assistant Professor, Soil Science, Asaam Agricultural University, College of Sericulture,Soil Science department,
Assam Agricultural University,Jorhat-13, Jorhat - 785013, Assam
8 Dr. Arun Kumar Rai, Assistant Professor, Botany, Sikkim University, Department of Botany, Sikkim University (Central University), 6th mile, Samdur,
P.O.Tadong,Gangtok,Sikkim, Gangtok - 737102, Sikkim
9 Dr. Dhruba Jyoti Nath, Principal Scientist, Soil Science, Assam Agricultural University, Department of Soil Science
Assam Agricultural University
Jorhat, Jorhat - 785013, Assam
10 Dr. Kiran Sunar, Assistant Professor, Botany, Balurghat Mahila Mahavidyalaya, Balurghat Mahila Mahavidyalaya (Govt. aided college), Balurghat, P.O.Balurghat, District: Dakshin Dinjapur, West Bengal, 733101, Islampur West Bangal - 733101, West Bengal
11 Dr. Nirmali Gogoi, Assistant Professor, Environmental Science, Tezpur University, Department of Environmental Science Tezpur University
Napaam, Tezpur District: Sonitpur, Assam, Tezpur - 784028, Assam
12 Mr. Himadri Shekhar Datta, Assistant Professor, Horticulture, Asaam Agricultural University, College of Horticulture
Assam Agricultural University
Jorhat, Jorhat - 785013, Assam
13 Cash Section, DBT (2 copies).
14 Sanction Folder.
15 File Copy.

(Dr. Vaishali Panjabi)
Scientist 'E'

Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled **"Harnessing Endophytes and Arbuscular Mycorrhizal Fungi from Citrus Microbiome for Plant and Soil Health Management in North East India":**

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
5. Asaam Agricultural University					
Junior Research Fellow To carry out laboratory and field works	1	401760	401760	453600	**1257120**
Total(Rs.)		**401760**	**401760**	**453600**	**1257120**
6. Balurghat Mahila Mahavidyalaya					
Junior Research Fellow Working with AMF and PGPR related laboratory and field works	1	401760	401760	0	**803520**
Senior Research Fellow Working with AMF and PGPR related laboratory and field works	1	0	0	453600	**453600**
Total(Rs.)		**401760**	**401760**	**453600**	**1257120**
7. Sikkim University					
Junior Research Fellow Working with Endophytes (bacteria and fungi) and PGPR related laboratory and field works	1	401760	401760	0	**803520**
Senior Research Fellow Working with Endophytes (bacteria and fungi) and PGPR related laboratory and field works	1	0	0	453600	**453600**
Total(Rs.)		**401760**	**401760**	**453600**	**1257120**
8. Tezpur University					
Junior Research Fellow To carry out laboratory and field works	1	401760	401760	0	**803520**
Senior Research Fellow To carry out laboratory and field works	1	0	0	453600	**453600**
Total(Rs.)		**401760**	**401760**	**453600**	**1257120**

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.

(Dr. Vaishali Panjabi)
Scientist 'E'

P-24029/46/2020-IPR VII

भारत सरकार/Government of India

वाणिज्य एवम उद्योग मंत्रालय/Ministry of Commerce & Industry

औद्योग संवर्धन और आंतरिक व्यापार विभाग/Department for Promotion of Industry and Internal Trade

(आई॰पी॰आर-प्रतिलिपि अधिकार/IPR-Copyright Section)

उद्योग भवन, नई दिल्ली-110011 /Udyog Bhavan, New Delhi 110 011

दिनांक: 05th March, 2021

To,

The Registrar,
Tezpur University,
Napaam, Tezpur,
Assam 784028

Subject: Release of grant-in aid of **Rs. 6,66,000/- (Rupees Six Lakhs Sixty Six Thousand only)** as 1st installment to Tezpur University, Assam for incurring expenditure under IPR Chair activities under the Scheme for Pedagogy and Research in IPRs for Holistic Education and Academia (SPRHEA), FY 2020-21.

Sir,

I am directed to refer to your email dated 28th December 2020 received in this department, seeking grant-in-aid for IPR Chair for FY 2020-21 and to forward herewith a copy of sanction order issued vide order of even no. dated 1st March, 2021 thereby conveying the sanction of the President of India, to the payment of grant-in aid of **Rs. 6,66,000/- (Rupees Six Lakhs Sixty Six Thousand only)** for incurring expenditure for the approved activities of IPR Chair and the conditions for Grant as provided in the norms of the Scheme for Pedagogy and Research in IPRs for Holistic Education and Academia (SPRHEA) with the following break up wise:

S. No.	Budget Head	Amount Sanctioned under SPRHEA (Rs.) (1st Dec 2020 – 31st March 2021)	Total (In Rs.)
1	IPR Chair Professor (One) @ Rs 25,000/- p.m.	25,000 X 4	1,00,000
2	Research Assistants (two) @ Rs. 50,000/- p.m.	50,000 X 4	4,00,000
3	Secretariat Assistance (one) @ Rs 12500/- p.m.	12,500 X 4	50,000
4	Library	10,000	10,000

(18)

FILE NO. CRG/2020/003018
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: 16-Mar-2021

ORDER

Subject: Financial Sanction of the research project titled "Developments of Semantic-Aware Structure Preserving Image Filtering Techniques" under the guidance of Dr. Swarnajyoti Patra, Computer Science and Engineering, Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028 - 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. 3887664/- (Rs. Thirty Eight Lakh Eighty Seven Thousand Six Hundred and Sixty Four Only) with break-up of Rs. *700000/-* under Capital (Non-recurring) head and Rs.*3187664/-* under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 3887664/- has been approved are given below:

S.No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Matlab -> Laptop -> Desktop PC	700000
A'	*Total (Non-Recurring)*	*700000*
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Travel, Contingencies) Recurring - III : Scientific Social Responsibility	2514240 300000 20000
2	Recurring - IV : (Overhead Charges)	353424
B'	*Total (Recurring)*	*3187664*
C	Total cost of the project (A' + B')	3887664

2. Sanction of the SERB is also accorded to the payment of Rs. 700000/- (Rupees Seven Lakh only) under 'Grants for creation of capital assets' and Rs. 1076000/- (Rupees Ten Lakh Seventy Six Thousand only) under 'Grants-in-aid General' to REGISTRAR, TEZPUR UNIVERSITY, Tezpur University, Napaam, Tezpur, 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 debitable to Fund for Science & Engineering Research (FSER)
This release is being made under Core Research Grant. (PAC Electrical Electronics & Computer Engineering)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on 09 March, 2021 and vide Diary No. SERB/F/8240/2020-2021 dated 09 March, 2021

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of Rs. 1776000/- (Rupees Seventeen Lakh Seventy Six 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	TU
Account Name	TEZPUR UNIVERSITY R&D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA TEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM - 784028, +91-3712-273361
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	swpatra@gmail.com

12.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.

https://www.serbonline.in/SERB/ViewProceedingCommentsTransaction

(17)

13. 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.

14. The project File no. CRG/2020/003018 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

19. 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.

Anima

(Dr. Anima Johari)
Scientist D
anima.johari@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.	**Dr. Swarnajyoti Patra** **Computer Science and Engineering** **Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028** **Email: swpatra@gmail.com** **Mobile: 919434996199** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**REGISTRAR, TEZPUR UNIVERSITY,** **Tezpur University, Napaam, Tezpur, Assam** (Receipt of Grant may be intimated by name to the undersigned)

Anima

(Dr. Anima Johari)
Scientist D
anima.johari@serb.gov.in

(15)

n: SERB_Administrator@serbonline.in
bject: Sanction Order : CRG/2020/003018
te: Wed, April 7, 2021 4:46 pm
o: info@serbonline.in

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. Swarnajyoti Patra,

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

Sanction Order No	CRG/2020/003018
Sanction Date	10 March, 2021
PI Name	Dr. Swarnajyoti Patra
Institute/University	Tezpur University , Napaam, Tezpur, Assam, Tezpur, Assam-784028
PI Account Number	30448821505
Bank & Branch Name	STATE BANK OF INDIA TEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM - 784028, +91-3712-273361
Amount	INR 1776000/-
In Rupees	Seventeen Lakh Seventy Six Thousand
UTR No	000244309877-G & RBI08921109170 72-C
Transaction Date	22 March, 2021 & 29 March, 2021

SERB Reference Number:

Bill No GIA/7280/2020-21
Diary No / Finance No SERB/F/8240/2020-2021

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

IMPORTANT:

1. **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 irrespecrive of whether the subsequent instalment of grant is due for release or not.**

2. 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

+91-9818223294

********** LEGAL DISCLAIMER **********

Please do not reply to this mail !!

[SERB is now on Social-Media. Kindly follow us on Twitter: @serbonline https://www.twitter.com/serbonline]

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****

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Attachments:

Sanction order for CRG/2020/003018.pdf	
Size:	157 k
Type:	application/octet-stream

No.13(34)/2020-CC&BT **(NORTH EAST REGION)** 36

Government of India

Ministry of Electronics & Information Technology

Office of the Registrar Electronics Niketan, 6, CGO Complex, New Delhi

Receipt No ..... 5734 .....
Date ..... 23.03.21 .....
Received by ..... B.B .....

23/3/2021
7749

Dean, R&D / Fr no 7.
FO.

Dated: 11.03.2021

The Pay & Accounts Officer
Ministry of Electronics & Information Technology (MeitY)
New Delhi – 110003

Subject:- Release of 1st Instalment GIA to the project "Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks" implemented by Tezpur University, South Asian University & IIIT Naya Raipur for the Financial Year 2020-21.

Implementing Agency: Tezpur University.
Reference: Administrative Approval No. 13(34)/2020-CC&BT dated 11.03.2021.

Sir,

I am directed to refer to this Ministry's communication of even no. dated 11.03.2021 conveying the Approval of the Competent Authority for the implementation of above project with total outlay of Rs.86.31624 lakh (Rupees Eighty Six Lakh Thirty One Thousand Six Hundred Twenty Four Only) to be implemented by Tezpur University, South Asian University & IIIT Naya Raipur over a duration of 36 months.

2. The sanction of the President of India is hereby conveyed for the 1st instalment of Rs.41.63952 lakh (Rupees Forty One Lakh Sixty Three Thousand Nine Hundred Fifty Two Only) towards grants-in-aid for the implementation of the Project "Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks" implemented by Tezpur University for the Financial Year 2020-21.

3. The grants-in-aid will be regulated in accordance with the provisions contained in the terms and conditions of Ministry of Electronics & Information Technology (MeitY). The grants-in-aid is also subject to the Chapter-9 of the General Financial Rules 2017, as amended from time to time, read with Government of India's decisions incorporated there-under, and any other guidelines which may be issued in this regard, and in particular to the following conditions:

i) All relevant information and documents/certificates as required under 230(1) of GFR, 2017 have been received.

ii) The pattern of assistance of rules governing such grants-in-aid have received the approval of the Ministry of Finance, as required under Govt. of India Decision No. (1) under DFPR – Rule-20.

iii) Terms and conditions of the service of the employees employed in Tezpur University are not higher than those applicable to similar categories of employees of central Government and where it is not in accordance with above, the relaxation of Ministry of Finance would be obtained for such discrepancies as required under Rule 230(12)(i) of GFR, 2017.

iv) Assets acquired wholly or substantially out of Government Grants shall not be disposed off without obtaining the prior approval of the sanctioning authority of Grants-in-aid.

Contd...2/-

HD R&D
23/3/21

v) Assets acquired wholly or substantially out of Government Grants shall not be disposed without obtaining the prior approval of the sanctioning authority of Grants-in-aid.

vi) Tezpur University shall agree to make reservations for Scheduled Castes, Scheduled Tribes and OBC in the posts or services under its control on the lines indicated by Govt. of India.

vii) The accounts of Tezpur University shall be audited by C&AG or by any person authorized by him on his behalf in accordance with the provisions laid down in Section-14 of the C&AG (DPC 1971) as amended from time to time.

vii) The accounts of Tezpur University shall be open for inspection by the sanctioning authority and audit, both by the Comptroller & Auditor General of India under the provision of C&AG(DPC) Act, 1971 and internal audit party by the Principal Accounts Office of the Ministry or Department whenever it is called upon to do so.

viii) Utilization Certificate will be provided after utilization of the grants-in-aid.

ix) Tezpur University may furnish their performance-cum-achievement report to the Sanctioning Authority.

x) Noted at S.No.46 in the Register of Grants.

xi) Tezpur University will spend grants-in-aid exclusively in pursuance of the objectives envisaged in rules/memorandum of MeitY and for the purpose it is being sanctioned.

xii) Grants-in-aid to Tezpur University are subject to the Economy Instructions issued from time to time by the M/o Finance or by the Competent Authority.

xiii) Grants-in-aid shall be utilized within the stipulated period from the date of the receipt of the grants-in-aid and unspent balance along with interest, if any, will be refunded by Tezpur University.

xiv) Tezpur University will maintain and will present their annual accounts in the standard format, as required under Rule 230(5) of GFR, 2017.

xv) The Grantee Institute has no Utilization Certificate(s) as due for rendition under the scheme in question.

xvi) All interest or other earnings against GIA or advance (other than reimbursement) released should be mandatory remitted to the consolidated Fund of India immediately after finalization of the accounts. Such advances should not be allowed to be adjusted against future releases.

xvii) The implementing agency should ensure compliance of EAT module before approaching for further release under the project.

xviii) In case of Non-recurring Grant for specified object,

a. Tezpur University will have to spend the amount sanctioned to them within the stipulate period.

b. Tezpur University will have to submit the utilization certificate in respect of the Grant sanctioned under Rules 238(1) of General Financial Rule, 2017 and with the form GFR 12-A, ibid.

4. The grantee organization (an Autonomous Body) is exempted from the execution of Surety Bond and is governed by the terms & conditions annexed herewith.

5. Drawing & Disbursing Officer (DDO) of Ministry of Electronics and Information Technology is authorized to prefer the bill to Pay & Account Officer for the release of Rs.41.63952 lakh (Rupees Forty One Lakh Sixty Three Thousand Nine Hundred Fifty Two Only) as per bank details given below:-

Contd...3/-

35

i) Bank Name, Branch code & Address:	State Bank of India, Tezpur University Branch, Napaam, Tezpur – 784028, Assam.
ii) IFSC Code:	SBIN0014259
iii) Account No. & Type:	30448821505 - SAVING ACCOUNT
iv) MICR No. :	784002005

6. The expenditure involved will be met from within the Sanctioned Budget Grant 24 under Major Head: 2852, Industries:07 Telecommunication & Electronics Industries; 07.102, Digital India Programme (Minor Head); 06 - Electronics R&D in Information Technology/ Electronics/CC&BT; 06.00.31, Grants-in-Aid General for the Financial Year 2020-21.

7. In view of the instructions issued by Ministry of Finance vide OM No.7(1)/E.Coord/202 dated 14.11.2012, it is certified that the Grantee Institute has no Utilization certificates as "due for rendition" under the Rules in respect of all the Schemes/Programmes/Projects of the Ministry of Electronics and Information Technology.

8. This issues with the approval of Secretary, MeitY vide Computer No.3077563 dated 08.03.2021 and concurrence of SS&FA, MeitY vide Computer No. No.3077563 dated 05.03.2021

Yours faithfully,

A. Padmavathi

(A. Padmavathi)
Deputy Director

Copy to:-

1. The Director, Office of the Director General of Audit, Post & Telecommunication, Shamnath Marg, Civil Lines, Delhi-110 054.
2. Integrated Finance Division, MeitY.
3. D&D Section (2 copies), MeitY.
4. The Registrar, Tezpur University, Napaam, Tezpur.
5. Dr. Nityananda Sarma, Professor, Department of ComputerScience and Engineering, Tezpur University, Tezpur, Assam.
6. Dr. Bijoy Chand Chatterjee, Assist, Professor, Department of Computer Science, South Asian University (SAU), New Delhi.
7. Dr. Ruhul Amin, Assist. Professor, Department of Computer Science and Engineering , Dr. SPM International Institute of Information Technology (IIIT), Naya Raipur, Chhattisgarh.
8. GC(GK) / Scientist 'F'(SA) / Scientist"D"(MA) / DD(AP).
9. Sanction Folder / Project file.

A. Padmavathi

(A. Padmavathi)
Deputy Director

No. 13(34)/2020-CC&BT
Government of India
Ministry of Electronics & Information Technology
Electronics Niketan, 6, CGO Complex
New Delhi-110003

.....

34

Dated: 11.03.2021

ADMINISTRATIVE APPROVAL

Subject:- Administrative Approval for the Project "Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks" implemented by Tezpur University, South Asian University & IIIT Naya Raipur.

I am directed to convey the Administrative Approval of the Competent Authority for implementation of above said project with MeitY Contribution of Rs.86.31624 lakh over duration of 36 months to be implemented by Tezpur University, South Asian University & IIIT Naya Raipur. The details of the project are given in enclosed annexure.

2. This issues in exercise of the powers conferred on this Ministry in consultation with SS&FA, MeitY vide Computer No.3077563 dated 05.03.2021 and the approval of Secretary vide Computer No.3077563 dated 08.03.2021.

Yours faithfully,

A. Padmavathi

(A. Padmavathi)
Deputy Director

Copy to:-

1) PAO, MeitY
2) The Director, Office of the Director General of Audit, Post & Telecommunication, Shamnath Marg, Civil Lines, Delhi – 110054.
3) Integrated Finance Division, MeitY.
4) Drawing & Disbursing Officer, MeitY.
5) The Registrar, Tezpur University, Napaam, Tezpur.
6) Dr. Nityananda Sarma, Professor, Department of ComputerScience and Engineering, Tezpur University, Tezpur, Assam.
7) Dr. Bijoy Chand Chatterjee, Assist, Professor,Department of Computer Science, South Asian University (SAU), New Delhi.
8) Dr. Ruhul Amin, Assist. Professor, Department of Computer Science and Engineering , Dr. SPM International Institute of Information Technology (IIIT), Naya Raipur, Chhattisgarh.
9) GC(GK) / Scientist 'F'(SA) / Scientist"D"(MA) / DD(AP).
10) Sanction File.

A. Padmavathi

(A. Padmavathi)
Deputy Director

ANNEXURE TO ADMINISTRATIVE APPROVALNo.13(34)/2020-CC&BT dated 13.03.2021

1.	Name of the Scheme / Project	Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks.
2.	Objective / Implementation	The objective of the project is: • To investigate possible architectural changes in the network to achieve better performance. • To apply defragmentation or non-defragmentation technique to develop better spectrum management schemes. • Secure communication protocol establishment based on the proposed network architecture for secure data transmission. The protocol also includes authentication model to protect from unauthorized access. • Development of Technique(s)/method(s) to protect from all types of high-level security threats to build the proposed network model robust. • To integrate SDN technology in elastic optical network for better network efficiency and protection from possible security threats in SDN-enable proposed network model. • To develop a light-weight mechanism to store data securely in data centre.
3.	Area of Coverage	Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks.
4.	Name of Implementing Agency	Tezpur University, South Asian University, IIIT Naya Raipur
5.	Location	Tezpur University, South Asian University, IIIT Naya Raipur
6.	Duration of the project i) Expected date of commencement ii)Expected date of completion	36 months 11.03.2021 10.03.2024
7.	Financial Outlay	The total cost of project is : Rs.86.31624 lakh

Contd...2/-

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Total Budget Outlay

Sr No.	Head	Budget (in Rs. lakh)			
		1st year	2nd year	3rd year	Total
1	Capital Equipment	21	0	0	21
2	Consumable stores	0.3	0.3	0.3	0.9
3	Manpower	16.9632	16.9632	19.152	53.0784
4	Travel & Training	1.2	1.2	2.1	4.5
5	Contingencies	0.3	0.3	0.3	0.9
6	Overheads, if any	1.87632	1.87632	2.1852	5.93784
Grand Total		**41.63952**	**20.63952**	**24.0372**	**86.31624**

Total Budget outlay for Tezpur University, Assam

Sr No.	Head	Budget (in Rs. lakh)			
		1st year	2nd year	3rd year	Total
1	Capital Equipment	6	0	0	6
2	Consumable stores	0.1	0.1	0.1	0.3
3	Manpower	8.0352	8.0352	9.072	25.1424
4	Travel & Training	0.4	0.4	0.7	1.5
5	Contingencies	0.1	0.1	0.1	0.3
6	Overheads, if any	0.86352	0.86352	0.9972	2.72424
Grand Total		**15.49872**	**9.49872**	**10.9692**	**35.96664**

Total Budget outlay for South Asian University, New Delhi

Sr No.	Head	Budget (in Rs. lakh)			
		1st year	2nd year	3rd year	Total
1	Capital Equipment	11	0	0	11
2	Consumable stores	0.1	0.1	0.1	0.3
3	Manpower	4.6128	4.6128	5.208	14.4336
4	Travel & Training	0.4	0.4	0.7	1.5
5	Contingencies	0.1	0.1	0.1	0.3
6	Overheads, if any	0.52128	0.52128	0.6108	1.65336
Grand Total		**16.73408**	**5.73408**	**6.7188**	**29.18696**

Contd...3/-

Total Budget outlay for IIIT, Naya Raipur

Sr No.	Head	Budget (in Rs. lakh)			
		1st year	2nd year	3rd year	Total
1	Capital Equipment	4	0	0	4
2	Consumable stores	0.1	0.1	0.1	0.3
3	Manpower	4.3152	4.3152	4.872	13.5024
4	Travel & Training	0.4	0.4	0.7	1.5
5	Contingencies	0.1	0.1	0.1	0.3
6	Overheads, if any	0.49152	0.49152	0.5772	1.56024
Grand Total		**9.40672**	**5.40672**	**6.3492**	**21.16264**

Grand Total : Rs.86.31624 lakh
Contribution Tezpur University : Nil
MeitY's contribution: Rs.86.31624 lakh

8. Mode & extent of funding **Amount in Rs.**

i) Budgetary support Grant — MeitY contribution Rs.86.31624 lakh

ii) Internal generation

9. Stages of releases of payment

Installment No.	Pre-condition stage of implementation	Documentation to be supplied by Implementing agency	Amount to be released (Rs. Lakh) (MeitY' share)
1.	Issue of Administrative Approval and release of 1st instalment	Acceptance of terms and conditions of Grants-in-aid	41.63952
2.	Release of 2nd installment upon recommendation of PRSG and submission of utilisation certificate of previous installment by Implementing Agency	Technical and Financial Progress Report / Utilization Certificate	20.63952
3.	Release of 3rd installment upon recommendation of PRSG and submission of utilisation certificate of previous installment by Implementing Agency	Technical and Financial Progress Report / Utilization Certificate	24.0372
		Total Rs.	**86.31624**

Contd...4/-

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10. Deliverables / Milestones:

Year-wise break-up of physical achievements with Quarterly milestones with quantum and stages of release of funds:

1st Year

i. Task 1: Study about different architectures of EON considering security aspects
ii. Task 2: Development of spectrum allocation scheme for enhancing resource utilization
iii. Task 3: Development of online methods and algorithms for dynamic traffic

2nd Year

i. Task 4: Designing security protocol for establishing secure communication for high-trustworthy system
ii. Task 5: Designing security protocol for establishing secure communication for middle and low-trustworthy systems

3rd Year

i. Task 6: Understanding of storage related access and security concerns of data centers
ii. Task 7: Development of secured storage and accessing policy techniques for different levels of security in data centers.
iii. Task 8: Performance measurement and improvement in SDN enable EONs

Quarterly milestones		**Implementing Agency Name**	**Technology Readiness Level (TRL) as defined in Table 1**
Q1: < 1st Year> <1-3 months>	(i) Brainstorming among PIs, manpower hiring, basic setup, procurement process for capital equipment, and review of literature	(TU, SAU, IIIT-NR)	TRL1, TRL2
Q2: <1st Year> <4-6 months>	(ii) Study on different architectures of elastic optical networks (EONs) considering Indian context. (iii) Understanding issues and cryptographic algorithms in the context of EONs.	(TU, SAU, IIIT-NR) (TU, SAU, IIIT-NR)	TRL1,TRL2 TRL1,TRL2
Q3: <1st Year> <7-9 months >	(iv) Routing protocol design: Finding suitable primary and backup routes per request. (v) Exploring existing solutions for secure communication protocols in the context of EONs.	(TU, SAU) (TU, IIIT-NR)	TRL2, TRL3 TRL1,TRL2
Q4: <1st Year> <10-12 months >	(vi) Spectrum allocation: Develop a suitable spectrum allocation policy per request, which handles the issues of spectrum fragmentation (vii) Seminar to be conducted among collaborative institutes and industry partner. (viii) Progress report presentation for PRSG	(TU, SAU, IIIT-NR)	(TRL3, TRL4, TRL5)

	committee		
Q1:< 2nd Year> <1-3 months>	(ix) Formulate routing and resource allocation problem as optimization problem for static scenarios (x) Develop a protocol for secure communication in context of proposed elastic optical networks.	(TU, SAU)	TRL2, TRL3
		(IIIT-NR)	TRL3, TRL4, TRL 5
Q2: <2nd Year> <4-6 months >	(xi)Performance evaluation for static scenarios: Solving ILP by LP solvers including CPLEX Optimizer (xii) Exploring how to integrate SDN framework in the proposed EONs	(SAU) (TU, SAU, IIIT-NR)	TRL2, TRL3 TRL1, TRL2
Q3: <2nd Year> <7-9 months >	(xiii) Develop approximate algorithms to address intractability issues for large networks. (xiv) Theoretical analysis of the proposed fragmentation scheme and approximation algorithms. (xv) Develop authentication techniques for proposed EON	(TU, SAU)	TRL3, TRL4, TRL 5
		(TU, SAU)	
			TRL2, TRL 3
		(IIIT-NR)	TRL3, TRL4, TRL 5
Q4: <2nd Year> <10-12 months >	(xvi)Performance evaluation for proposed fragmentation scheme considering Indian network scenarios (xvii) Understanding of storage related issues with access policy and security concerns of data centers. (xviii) Seminar to be conducted among collaborative institutes and industry partner.	(TU, SAU) (TU, IIIT-NR)	TRL2, TRL 3 TRL2, TRL 3 TRL1, TRL 2
Q1:< 3rd Year> <1-3 months>	(xx) Performance evaluation for proposed framework with industry partner (xxi) SDN-enabled security solutions for proposed EONs	(TU, SAU, IIIT-NR) (TU, IIIT-NR)	TRL5, TRL 6 TRL3, TRL 4, TRL5
Q2: <3rd Year> <4-6 months >	(xxii) Analysis of the result obtained from performance evaluation and integrate solutions to obtain the overall design. (xxiii) Workshop on "Secured and Reliable Spectrum Allocation Schemes for Next-Generation Elastic Optical Networks".	(TU, SAU, IIIT-NR) (TU, SAU, IIIT-NR)	TRL2, TRL 3
Q3: <3rd Year> <7-9 months >	(xxiv) Report preparation (xxv) Making portals for public domain to share developed techniques, algorithms, models in the project so that they can be freely available to everyone	(TU, SAU, IIIT-NR) (TU, SAU, IIIT-NR)	
Q4: <3rd Year> <10-12 months >	(xxvi) Report preparation (xxvii) Final presentations in-front of PRSG committee	(TU, SAU, IIIT-NR)	

A. Padmavathi

(A. Padmavathi)
Deputy Director

F. No. Q-11/12/2021-R&D
भारत सरकार / Government of India
खाद्य प्रसंस्करण उद्योग मंत्रालय
Ministry of Food Processing Industries
पंचशील भवन , अगस्त क्रांति मार्ग
Panchsheel Bhavan, August Kranti Marg
नई दिल्ली /New Delhi-110049

Dated: 11.03.2021

To
Dr. Poonam Mishra,
Associate Professor,
Food Engineering and Technology,
Tezpur University, Napaam – 784028 Assam

Subject:- R&D Proposal titled "Phytochemical profiling and valorisation of Pomelo fruit of Northeast region" from Tezpur University, Napaam – 784028 Assam – reg.

Madam,

I am directed to convey the "in-principle" approval for grants-in-aid of **Rs. 41.48 lakh (Rupees Forty One Lakh Forty Eight Thousand only)** towards R&D proposal "**Phytochemical profiling and valorisation of Pomelo fruit of Northeast region**" subject to the following conditions:

1. Duration of the project is 24 months and the date of start of project will be considered from the date of issue of in-principle approval letter for the project.

2. Objectives of project are as under:

   a) Phytochemical and flavour profiling of pomelo fruit juice
   b) Process optimization for development of spray drying fruit juice powder
   c) To optimize the processing steps for development of pomelo fruit jam and marmalade by using pomelo fruit juice and its peel.
   d) Process optimization for synthesis of carbon dots from fruit peel using microwave synthesis

3. The amount of grants-in-aid will be released in three installments as per guidelines. Before the release of 2nd and 3rd installment of grants-in-aid the Ministry of Food Processing Industries (MoFPI) shall re-calculate the eligible amount of grants-in-aid based on proposed or actual expenditure, whichever

is less, on eligible items considered by the Expert Committee that examined and approved the above R&D proposal. The pattern of release of the approved amount of grants-in-aid is at **Annexure**. The 2nd and 3rd installment of the grant can be clubbed together at the option of the Principal Investigator (PI)/ Institution and released after submission of final project completion report and its acceptance by the Competent Authority.

4. MoFPI shall deduct share of the contribution of Industrial Partner, if any, from 2nd installment of grants-in-aid after ascertaining the actual contribution made by Industrial Partner.
5. For government organization, the first installment of grant (100% cost of equipment plus 50% cost of consumables plus 50% cost of manpower (SRF/JRF/RA) and travel allowances for attending Expert Committee meeting, etc. for PI and for Private organization, 50% cost of equipment would be released after submission of the following documents/ information to this Ministry through online portal (https://sampada-mofpi.gov.in/) :
   i. Submission of an affidavit/ undertaking in compliance with GFR 230 (1) of GFR 2017 (in Original).
   ii. Acceptance of standard terms & conditions as per **Annexure-F** of the R&D scheme guidelines issued on 10.08.2017 duly signed by the Head of the applicant organization (in Original).
   iii. Consent from applicant that no financial assistance will be eligible on the existing equipment.
   iv. Quotations of all the equipment to be procured out of grants-in-aid.
   v. Surety Bond of Rs.100 duly signed by Notary (in the case of Private Organization)
   vi. Copies of Purchase Order (in the case of Private Organization)
   vii. Confirmation that the organization will submit six monthly periodical progress reports to this Ministry.
   viii. E-payment mandate form duly certified by Bank.
   ix. Confirmation that the organization/ university/ institute shall bear the expenditure of their share out of their self-generated funds and not from other grants received by it from other Govt. departments/ bodies, which is meant for some other purposes.

6. The standard conditions to be complied with for operation of the funds are as follows:
   i. The applicant organization must submit detailed statement of expenditure for the amount released as 1st, 2nd and 3rd installment certified by the Accounts Officer and countersigned by the Finance Officer/ Registrar/ Administrator of the University/ Institute/ Head of the Department or Charted Accountant (in the case of private organization) to MoFPI as indicated in Annexure-D of the R&D scheme guideline.
   ii. Any unspent balance from earlier payment lying with the organization/

university/ institute at any time due to termination/ resignation of the fellow, etc. must be refunded to MoFPI immediately by means of demand draft in favour of "**Pay & Accounts Officer, MoFPI**". In case the unspent balance is not returned within three month, it shall attract interest as per existing General Financial Rules (GFR 2017).

iii. Organization/ university/ institute receiving grants from MoFPI shall have to maintain separate accounts for each research project on ledger type system.

iv. The released grant shall not be diverted or spent other than for what it has been approved.

v. All equipment(s) purchased out of the grant shall be the property of the Government of India and have to be entered into the Stock Register maintained by the organization/ university/ institute and also in a separate Register maintained by the PI and certified by the Head of the Department.

vi. The organization/ university/ institute shall be responsible for the safe custody of the equipment purchased out of the grant.

vii. Items of equipment(s) shall be purchased following a transparent, fair and competitive tendering system.

viii. A list of equipment purchased is to be appended with the application for 1st installment along with copies of purchase order for all equipment. The name description of the equipment, cost in rupees, date of purchase, and the name of the supplier, may be given in the list. The main purpose/ function of the equipment may also be mentioned against each item. Equipment should be purchased within 3 months from the date of receipt of the sanction letter of respective instalments; otherwise the grant shall stand cancelled and shall be called back.

ix. After the completion of project, the organization/ university/ institute may retain all the equipment purchased for the purpose of the project out of MoFPI grant. A label with the "**MoFPI FUNDED**" shall be stuck prominently on the equipment.

x. The research carried out with the financial assistance of MoFPI shall be in public domain. The facilities created thereof may be utilized as Business/ R&D Incubation Centre after the research is completed for testing/ Research/ Product Development etc. by other organization/ university/ institute on payment basis.

xi. The books of accounts of the grantee institution shall be open to inspection by the sanctioning authority/ audit and by any other authority specified by the Ministry, whenever the institution is called upon to do so.

xii. Before the grant is released the grantee should execute a bond (on a non-judicial stamp of Rs.100/-) as per Rule No 231 (3) of GFR-2017.

xiii. As per Rule No 231 (3) of GFR-2017, execution of bond will not apply to quasi-government institutions, central autonomous organizations and

institutions whose budget is approved by Government.

7. The second installment would be released only on receipt of following documents through Sampada portal:
   i. Statement of actual expenditure on the project of the 1st installment of grant provided by MoFPI.
   ii. Progress report in project made till date & its acceptance by Expert Committee.
   iii. Copies of bills/ invoices of equipment purchased out of 1st installment of grant.
   iv. Copies of Purchase order of equipment to be procured out of 2nd installment (in case of private organization)

8. The third and final installment would be released only on receipt of:
   i. Statement of actual expenditure on the project of the Second installment of grant provided by MoFPI.
   ii. Draft Final Project Completion Report duly indicating the objectives of the project achieved by the organization/ university/ institute.
   iii. In the case of private organization copies of bills/ invoices of equipment purchased out of 2nd installment of grant and copies of Purchase order of equipment to be procured out of 3rd installment.

9. As per the present procedure grant shall be released through "Central Plan Monitoring System" of Controller General of Accounts (CGA). You are requested to register your organization with CGA to enable the Ministry to release the grant. You can directly fill-up the details at the link http://pfms.nic.in or alternatively follow the following procedure for registration:-

   Open CGA website at http://pfms.nic.in Central Plan Monitoring System
   Agency: Register
   Fill-up the Agency Details & Bank Details
   Select "PRADHAN MANTRI KISAN SAMPADA YOJANA-HUMAN RESOURCE AND INSTITUTIONS [3612]"

   After filling up the details, a copy of the Printout of Agency Registration may be sent to the Ministry for release of the grant.
   The agency is also required to register on the EAT module (PFMS Portal) and use the same for processing its expenditure under the project. The expenditure not found appearing in EAT module of PFMS will not be taken as eligible expenditure.

10. It is requested that the necessary confirmation/ information/ documents on points mentioned above may be furnished urgently so as to enable this Ministry to process the proposal for release of 1st installment of grant without any delay. ID and password of Sampada portal will be shared separately by email.

Yours faithfully,

(S. K. Verma)
Director
Email: sk.verma@nic.in
Phone No.:- 011-26406567

Copy to:- Registrar, Tezpur University, Napaam – 784028 Assam

FILE NO. EEQ/2020/000507
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: 15-Mar-2021

ORDER

Subject: Financial Sanction of the research project titled "**Rotavirus NSP1 degrades interferon receptors (IFNRs) through a PKR-dependent pathway** " under the guidance of Dr. Nima Dondu Namsa, Molecular Biology and Biotechnology (MBBT), Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028 - 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. 5051115/-** (Rs. Fifty Lakh Fifty One Thousand One Hundred and Fifteen **Only)** with break-up of Rs. ***1199995/-*** **under Capital (Non-recurring) head** and Rs.***3851120/-*** **under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 5051115/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> Real time RT-PCR	1199995
A'	*Total (Non-Recurring)*	***1199995***
B	**Recurring Items**	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 2100000 35000
2	Recurring - IV : (Overhead Charges)	459000
B'	*Total (Recurring)*	***3851120***
C	**Total cost of the project (A' + B')**	5051115

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 1199995/-** (Rupees Eleven Lakh Ninety Nine Thousand Nine Hundred and Ninety Five only) under 'Grants for creation of capital assets' and **Rs. 1307000/-** (Rupees Thirteen Lakh Seven Thousand only) under 'Grants-in-aid General' to **REGISTRAR, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (ST)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **15 March, 2021** and vide Diary No. **SERB/F/8450/2020-2021** dated **15 March, 2021**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of **Rs. 2506995/-** (Rupees Twenty Five Lakh Six Thousand Nine Hundred and Ninety Five 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	TU
Account Name	TEZPUR UNIVERSITY R & D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA TEZPUR UNIVERSITY BRANCH & TEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM 784 028
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	namsa@tezu.ernet.in

12.The institute will furnish to the SERB, New Delhi, 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.

13. 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.

14. The project File no. EEQ/2020/000507 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. 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.

19. 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. Pramod Kumar Prasad)
Scientist-D
pk.prasad@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.	**Dr. Nima Dondu Namsa** **Molecular Biology and Biotechnology (MBBT)** **Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028** **Email: namsa@tezu.ernet.in** **Mobile: 919401750922** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**REGISTRAR,** **Tezpur University, Napaam, Tezpur, Assam** (Receipt of Grant may be intimated by name to the undersigned)

(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

m: SERB_Administrator@serbonline.in
bject: Sanction Order : CRG/2020/002651
ate: Thu, April 8, 2021 10:38 am
To: info@serbonline.in

(2)

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. Aditya Kumar,

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

Sanction Order No	CRG/2020/002651
Sanction Date	19 March, 2021
PI Name	Dr. Aditya Kumar
Institute/University	Tezpur University , Napaam, Tezpur, Assam, Tezpur, Assam-784028
PI Account Number	30448821505
Bank & Branch Name	STATE BANK OF INDIA Tezpur University Branch Tezpur University Napaam Sonitpur Assam - 784028
Amount	INR 2762000/-
In Rupees	Twenty Seven Lakh Sixty Two Thousand
UTR No	000248096491-G & RBI0882110786903-C
Transaction Date	26 March, 2021 & 29 March, 2021

SERB Reference Number:

Bill No GIA/7419/2020-21
Diary No / Finance No SERB/F/8650/2020-2021

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

IMPORTANT:

1. **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 irrespecrive of whether the subsequent instalment of grant is due for release or not**.

2. 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

+91-9818223294

********** LEGAL DISCLAIMER **********

Please do not reply to this mail !!

[SERB is now on Social-Media. Kindly follow us on Twitter: @serbonline https://www.twitter.com/serbonline]

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****

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Attachments:

Sanction order for CRG/2020/002651.pdf	
Size:	211 k
Type:	application/octet-stream

FILE NO. CRG/2020/002651

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: 19-Mar-2021

ORDER

Subject: Financial Sanction of the research project titled "**Elucidating the mechanism of action of PehR, a transcriptional regulator in pathogenicity of Ralstonia solanacearum FICI (local isolate)**" under the guidance of Dr. Aditya Kumar, Molecular Biology and Biotechnology, Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028 and by Prof. Suvendra Kumar Ray, Professor, Dept Of Molecular Biology And Biotechnology, Tezpur 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. 6366096/- (Rs. Sixty Three Lakh Sixty Six Thousand and Ninety Six **Only)** with break-up of **Rs. *1250000/-* under Capital (Non-recurring) head** and **Rs.*5116096/-* under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 6366096/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> Plant growth chamber -> Workstation	1250000
A'	*Total (Non-Recurring)*	*1250000*
B	**Recurring Items**	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1827360 2700000 10000
2	Recurring - IV : (Overhead Charges)	578736
B'	*Total (Recurring)*	*5116096*
C	**Total cost of the project (A' + B')**	6366096

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 1250000/-** (Rupees Twelve Lakh Fifty Thousand only) under 'Grants for creation of capital assets' and **Rs. 1512000/-** (Rupees Fifteen Lakh Twelve Thousand only) under 'Grants-in-aid General' to **Registrar, Tezpur University, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Core Research Grant. (Interdisciplinary Biological Sciences)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **18 March, 2021** and vide Diary No. **SERB/F/8650/2020-2021** dated **18 March, 2021**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of **Rs. 2762000/-** (Rupees Twenty Seven Lakh Sixty Two 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	TU
Account Name	TEZPUR UNIVERSITY R&D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA Tezpur University Branch Tezpur University Napaam Sonitpur Assam - 784028
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	aditya@tezu.ernet.in

12.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.

13. 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.

14. The project File no. CRG/2020/002651 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

19. 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.

(Dr. Thangaradjou T)
Scientist E
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.	**Dr. Aditya Kumar** **Molecular Biology and Biotechnology** **Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028** **Email: aditya@tezu.ernet.in** **Mobile: 919741964840** **Prof. Suvendra Kumar Ray** **Dept Of Molecular Biology And Biotechnology** **Tezpur University** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**Registrar, Tezpur University,** **Tezpur University, Napaam, Tezpur, Assam** (Receipt of Grant may be intimated by name to the undersigned)

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

(12)

n: SERB_Administrator@serbonline.in
bject: Sanction Order : CRG/2020/001829
te: Mon, April 5, 2021 2:12 pm
o: info@serbonline.in

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. ANUPAM NATH JHA,

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

Sanction Order No	CRG/2020/001829
Sanction Date	23 March, 2021
PI Name	Dr. ANUPAM NATH JHA
Institute/University	Tezpur University , Napaam, Tezpur, Assam, Tezpur, Assam-784028
PI Account Number	30448821505
Bank & Branch Name	STATE BANK OF INDIA TEZPUR UNIVERSITY BRANCH, TEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM 784028
Amount	INR 1207706/-
In Rupees	Twelve Lakh Seven Thousand Seven Hundred and Six
UTR No	000250548872-G & RBI08921109041O4-C
Transaction Date	30 March, 2021 & 29 March, 2021

SERB Reference Number:

Bill No GIA/7529/2020-21
Diary No / Finance No SERB/F/8551/2020-2021

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

IMPORTANT:

1. **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 irrespecrive of whether the subsequent instalment of grant is due for release or not.**

2. 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

+91-9818223294

********** LEGAL DISCLAIMER **********

Please do not reply to this mail !!

[SERB is now on Social-Media. Kindly follow us on Twitter: @serbonline https://www.twitter.com/serbonline]

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Attachments:

Sanction order for CRG/2020/001829.pdf	
Size:	220 k
Type:	application/octet-stream

FILE NO. CRG/2020/001829

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: 23-Mar-2021

ORDER

Subject: Financial Sanction of the research project titled **"Strategic Systems Biology and Metabolic Pathways approach to develop nanocarriers for targeted drug delivery"** under the guidance of Dr. ANUPAM NATH JHA, DEPT OF MBBT, Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028 - 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. 2603120/- (Rs. Twenty Six Lakh Three Thousand One Hundred and Twenty **Only**) with break-up of Rs. *500000/-* under Capital (Non-recurring) head and Rs.*2103120/-* under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2603120/- has been approved are given below:

S. No	Head	Total (in Rs.)
A	**Non-recurring**	
1	Equipment -> High End Computer workstation with peripherels	500000
A	*Total (Non-Recurring)*	***500000***
B	**Recurring Items**	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 600000 10000
2	Recurring - IV : (Overhead Charges)	236000
B'	*Total (Recurring)*	***2103120***
C	**Total cost of the project (A' + B')**	2603120

2. Sanction of the SERB is also accorded to the payment of **Rs. 500000/-** (Rupees Five Lakh only) under 'Grants for creation of capital assets' and **Rs. 707706/-** (Rupees Seven Lakh Seven Thousand Seven Hundred and Six only) under 'Grants-in-aid General' to **Registrar, TEZPUR UNIVERSITY, Tezpur University, Napaam, Tezpur, 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 debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Core Research Grant. (Biomedical and Health Sciences)

4. The Sanction has been issued to Tezpur University, Napaam, Tezpur, Assam with the approval of the competent authority under delegated powers on **16 March, 2021** and vide Diary No. **SERB/F/8551/2020-2021** dated **17 March, 2021**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (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. 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.

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

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

11. The release amount of **Rs. 1207706/-** (Rupees Twelve Lakh Seven Thousand Seven Hundred and Six 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	TU
Account Name	TEZPUR UNIVERSITY R&D
Account Number	30448821505
Bank Name & Branch	STATE BANK OF INDIA TEZPUR UNIVERSITY BRANCH, TEZPUR UNIVERSITY, NAPAAM, SONITPUR, ASSAM 784028
IFSC/RTGS Code	SBIN0014259
Email id of A/C Holder	registrartu@tezu.ernet.in
Email id of PI	anjha@tezu.ernet.in

12.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.

13. 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.

14. The project File no. CRG/2020/001829 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

19. 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.

(Dr. Balachandar Venkatesan)
Scientist F
ms_hs@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. ANUPAM NATH JHA** **DEPT OF MBBT** **Tezpur University , Napaam, tezpur, assam, Tezpur, Assam-784028** **Email: anjha@tezu.ernet.in** **Mobile: 918876236119** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**Registrar, TEZPUR UNIVERSITY,** **Tezpur University, Napaam, Tezpur, Assam** (Receipt of Grant may be intimated by name to the undersigned)

(Dr. Balachandar Venkatesan)
Scientist F
ms_hs@serbonline.in

No.4(10)/2021-ITEA
Government of India
Ministry of Electronics and Information Technology (MeitY)
ITEA Division
R&D in IT Group

Dated: 24th March, 2021
New Delhi: 110003

ADMINISTRATIVE APPROVAL

Subject: The project entitled "Development of Quantum Optical Sensor based system to identify and categorize Arsenic and Lead in water even with very low concentration" to be implemented jointly by Centre for Development of Advanced Computing (C-DAC), Kolkata and Tezpur University, Assam – regarding.

The undersigned is directed to convey the Administrative Approval of the Competent Authority to the implementation of the project entitled "Development of Quantum Optical Sensor based system to identify and categorize Arsenic and Lead in water even with very low concentration" to be implemented jointly by Centre for Development of Advanced Computing (C-DAC), Kolkata and Tezpur University, Assam at a total estimated cost of Rs. 238.99 Lakh (Rupees Two Crore Thirty Eight Lakh and Ninety Nine Thousand only) as grants-in-aid from Ministry of Electronics and Information Technology over a period of three years. The Grant-in-aid will be released to C-DAC, Kolkata. C-DAC, Kolkata will further release the assigned Grant-in-aid to Tezpur University, Assam. The consolidated Utilization Certificate with respect to the released Grant-in-aid will be submitted by C-DAC, Kolkata.

2. The details of the project are given in the Annexure-I enclosed. The other Terms & Conditions governing release of Grant-in-aid from MeitY are given in Annexure-II.

3. This issues with the approval of Secretary, Ministry of Electronics and Information Technology vide note No. 35 dated 19th March, 2021 on e-file no.3077757 and with the concurrence of SS&FA, MeitY vide note No. 32 dated 19th March, 2021, ibid.

Medhavi Singh
(Medhavi Singh)
Deputy Director

Copy to:

1. Pay & Accounts Office, MeitY
2. The Director, Office of the Director General of Audit, Finance & Communication, Sham Nath Marg, Delhi-110054.
3. Shri Munmun Chakraborty, Joint Director, Centre for Development of Advanced Computing (C-DAC), Kolkata, Plot-E/21, Block-FP, Sector-V, Salt Lake Electronics Complex, Bidhnnagar, Kolkata-700091.
4. Dr. Partha Pratim Sahu, Professor, Department of Electronics and Communication Engineering, Napaam, Tezpur, Assam-784028.
5. Drawing & Disbursing Officer, MeitY.
5. Joint Director, Finance Division, MeitY.
6. GC(R&D in IT & NKN)/Dir(MKJ)/Sc.'E'(VMG)/DD(MS),MeitY.
7. Sanction Folder.

Annexure-I to Administrative Approval No.4(10)/2021-ITEA dated 24th March, 2021

1	Name of the Project	"Development of Quantum Optical Sensor based system to identify and categorize Arsenic and Lead in water even with very low concentration"
2	Objective	The main aim of the project is to develop a quantum optical sensor based array device towards the quality grading of useable water for several purposes (mainly drinking).The sub objectives that combinatorial fulfils the main objective are: • Development of quantum sensors based signal transduction towards detection of health hazardous component of water like Arsenic and Lead. • IoT enabling of the device.
2.1	Deliverables / Outcome	Super precision measurement System of water pollutants of extremely low concentration using quantum optical sensor and photon coincidence measurement. a) Specifications of subsystem/system (as applicable) • Development of quantum sensors based signal transduction towards detection of several water parameters like hardness, pH, BOD, COD, TDS, EC, metals and heavy metals, antibiotics, phenolic toxicants, microbial load etc. • IoT enabling of the device. b) Nature of documents for technology transfer • User manual. • Technical documentation. c) Manpower trained • 8 to 10 would be trained in this area.
3.2	Intermediate Milestrones on Quarterely basis	As per Appendix 'A'
4	Name of the Implementing Agencies and status	(i) Centre for Development of Advanced Computing (C-DAC), Kolkata (Autonomous Body). (ii) Tezpur University, Assam (Autonomous Body).
5	Name of Chief Investigator:	(i) Shri Munmun Chakraborty, Joint Director, C-DAC, Kolkata. (ii) Dr. Partha Pratim Sahu, Professor, Tezpur University, Assam.
6.	Total Project duration	3 Years
	(i) Expected date of commencement	24.03.2021
	(ii)Expected date of completion	23.03.2024

7. Total Project Outlay: Rs. 238.99 Lakh (Rupees Two Crore Thirty Eight Lakh and Ninety Nine Thousand only)

(Rs. in Lakh)

Sl. No.	Particulars	1st Year	2nd Year	3rd Year	Total
1.	Capital Equipment & Software	54.00	0.00	0.00	**54.00**
2.	Consumable stores	2.00	2.00	2.00	**6.00**
3.	Manpower	46.20	47.22	50.26	**143.68**
4.	Travel	3.00	3.00	3.00	**9.00**
5.	Training	2.50	2.50	0.00	**5.00**
6.	Contingencies	1.50	1.50	1.50	**4.50**
7.	Overheads	5.52	5.62	5.67	**16.81**
	Total	**114.72**	**61.84**	**62.43**	**238.99**

7.1. Distributions of fund between C-DAC, Kolkata and Tezpur, University

Rs. (in Lakh)

S.N	Particulars	C-DAC, Kolkata	Tezpur, University	Total
1.	Capital Equipment & Software	27.00	27.00	**54.00**
2.	Consumable stores	4.50	1.50	**6.00**
3.	Manpower	109.92	33.76	**143.68**
4.	Travel	7.50	1.50	**9.00**
5.	Training	4.00	1.00	**5.00**
6.	Contingencies	3.00	1.50	**4.50**
7.	Overheads	12.89	3.92	**16.81**
	Total	**168.81**	**70.18**	**238.99**

8. Mode and extent of Funding:

(i)	Budgetary Support	
a)	Grants-in-aid from MeitY	Rs. 238.99 Lakh
b)	Loan	Nil
c)	If loan, terms and condition for grant or loan to be stipulated if terms and condition have been Accepted, reference to acceptance	N.A.
(ii)	Internal generation	Nil

Madhumita

9. Stages of release Grants-in-Aid:-

Release No.	**Pre-condition/ Stages of implementation**	**Documentation to be supplied by Implmentation Agency**	**Amount to be released Rs.**
1st release	Inititiaon of the project	Acceptanee of Terms and Conditions governing grants-in-aid	100.00 Lakh
2nd and subsequent releases	Recommendations of the PRSG & satisfactory progress report of the project	a. Submission of Utilization Certificate of the previous release. b. Technical & Financial Progress Report. c. Audited Statement of Accounts.	138.99 Lakh
		Total	**238.99 Lakh**

Note: The implementing agencies may associate the user agency/industry from the last quarter of the 2nd year.

Medhavi Singh

(Medhavi Singh)
Deputy Director

Appendix 'A'

Quarterly Milestones lined with TRL.

Quarter S. No.	Milestones	Technology Readings Level
Qrt 1	(i) Manpower mobilization (ii) Project registration (iii) Formulation of Management Plans (iv) Arrangement of hands on training for 2 manpower on quantum sensor at reputed institute like TIFR/ IISc Bangalore/ SSPL Delhi.	TRL.1
Qrt 2	(i) Finalization of water quality testing parameters. (ii) Real sample collection: Portable water collection Plan (iii) Finalization and purchase of chemical items, required electronics hardware components, chemicals (conventional water testing). (iv) Arrangement of hands on training for 2 manpower on quantum sensor at reputed institute like TIFR/ IISc Bangalore/ SSPL Delhi.	
Qrt 3	(i) Development of sensor and necessary calibrations and optimization.	TRL.2
Qrt 4	i) Water sample collection and testing from accredited lab and in-house. (ii) Testing of sensors at the laboratory with controlled samples. (iii) Optimization of different parameters. (iv) Submission of paper and attending workshop on quantum sensor for 2 manpower.	
Qrt 5	(i) Experimentations to establish quantum entangled state. (ii) Training (iii) Experimental verification of Entangle state. (iv) Arrangement of hands on training for 2 manpower on quantum sensor at reputed institute like TIFR/ IISc Bangalore/ SSPL Delhi 20.30 TRL2 and TRL3	TRL.2 and TRL.3
Qrt 6	i) Measurement of concentration with entangled photon states. (ii) Validation of working setup with conventional water testing results. (iii) Development of the algorithms. (iv) Arrangement of hands on training for 2 manpower on quantum sensor at reputed institute like TIFR/ IISc Bangalore/ SSPL Delhi.	
Qrt 7	(i) Development of the software (ii) Integration of the software with hardwares (iii) Unit Testing	TRL.3 and TRL.4
Qrt 8	(i) Lab scale working setup validation. (ii) Development of 1st version of prototype. (iii) Submission of paper and attending workshop on quantum sensor for 2 manpower.	
Qrt 9	(i) Fine tuning of the prototype. (ii) Field trial at user premises with controlled samples. (iii) Organizing Seminar.	TRL.4 and TRL.5
Qrt 10	(i) Deployment of the prototype device at different user premises at North East (ii) Collection of user feedback.	
Qrt 11	i) Customization of the hardware and software.	TRL.5 and TRL.6
Qrt 12	(i) Preparation of Reports and technical documents towards completion of project. (ii) Commencement of process of IP generation and TOT.	

Annexure - II

Terms & Conditions for Grant-in-Aid

The grant is for the specific project as approved by Ministry of Electronics & Information Technology (MeitY) and shall be subject to the conditions listed below. The proposal originating industry and grantee institution shall give an undertaking that they agree to be governed by these conditions.

1. The grant amount shall be i) spent for the project within the specified time; and ii) Any portion of the grant, which is not ultimately required for expenditure for the approved purposes, shall be duly surrendered to MeitY;

2. The grantee institution shall maintain an audited record in the form of a register in the prescribed proforma for permanent, semi-permanent assets acquired solely or mainly out of MeitY grant;

3. The assets referred to in (2) above will be property of MeitY and should not, without prior sanction of MeitY, be disposed off or encumbered or utilized for the purposes other than those for which the grant has been sanctioned;

4. At the conclusion of the project, MeitY will be free to sell or otherwise dispose of the assets which are the property of MeitY and grantee institution shall render to MeitY the necessary support for facilitating the sale of these assets;

5. The grantee institution shall send to the MeitY at the end of each financial year as well as at the time of seeking further installments of the grant a list of assets referred to in (2) above;

6. Should at any time grantee institution cease to exist, such assets etc., shall revert to MeitY;

7. The grantee institution shall render progress-cum-achievement reports at interval of not exceeding six months on the progress made on all aspects of the project including expenditure incurred on various approved items during the period;

8. The grantee institution shall render an audited statement of accounts to MeitY;

9. The audited statement of accounts relating to grants given during financial year together with the comments of the auditor regarding the observance of the conditions governing the grant should be forwarded to the MeitY within six months following the end of the relevant financial year;

10. The utilization of grant for the intended purposes will be looked into by the Auditor of grantee institution according to the directives issued by the Government of India at the instance of the Comptroller and Auditor General and the specific mention about it will be made in the audit report;

11. MeitY or its nominee(s) will have the right of access to the books and accounts of the grantee institution for which a reasonable prior notice would be given;

12. The grantee institution should maintain separate audited account for the project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest, all the interest or other earnings against GIA should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of accounts. Such advances shall not be allowed to be adjusted against further releases in pursurance of GFR provisions.

13. Institute may retain the sale proceeds of prototypes, etc fabricated as a result of the development of the project arising directly from funds granted by the Ministry. The Institute may use funds thus generated for furtherance of project objectives;

14. The Intellectual property and the rights associated with it shall be agreed between the participating organizations before the start of the project. The Industry/ Industry Consortium/ Institution(s) will make all efforts to protect intellectual property generated out of the project. The institution(s)/industry would submit the periodic report to MeitY for a period of minimum 5years on the status of IPRs created/commercialization under the project. (5 years is the expected life time of product/technology). Furthermore, IPR must also reside in India so that India has access and complete control to these rights in times of emergency to protect our national interest;

15. Application by grantee institution for any other financial assistance or receipt of grant/loan from any other Agency/Ministry/Department for this project should have the prior approval of Ministry of Electronics & Information Technology;

16. The Grantee institution(s) is not allowed to entrust the implementation of this project for which grant-in-aid is received to another institution and to divert the grant-in-aid received from Ministry of Electronics & Information Technology as assistance to the later institution;

17. MeitY shall appoint a Project Review and Steering Group (PRSG) comprising of representatives from MeitY and other experts. PRSG will periodically monitor the project in all respects including technical and financial;

18. In case of any dispute on any matter, related to the project during the course of its implementation, the decision of the Secretary, MeitY, shall be final and binding on the proposal originating industry/ industry consortium and grantee institute.

(5)

E-31439

DST/INT/HUN/P-22/2020 (G)
Government of India
Ministry of Science and Technology
Department of Science & Technology
(International Cooperation Division)

Technology Bhavan,
New Mehrauli Road
New Delhi-110016
Date: 26.03.2021

ORDER

Subject: Implementation of Indo- Hungarian Joint project entitled: "**Applied research and development for industrial realization of lignin recycling and conversion to value-added international market products**" coordinated by **Dr. Dhanapati Deka** with the Hungarian partner **Dr. Magdolna R Mahalyi** - regarding.

Sanction of the President is hereby accorded for incurring an expenditure not exceeding Rs. **48,38,554/- (Rupees Forty Eight Lakhs Thirty Eight Thousand Five Hundred and Fifty Four only)** for implementation of the Indo-Hungarian joint project entitled ""**Applied research and development for industrial realization of lignin recycling and conversion to value-added international market products**" coordinated by **Dr. Dhanapati Deka,** Department of Energy, Tezpur University, Tezpur-784028, Assam in collaboration with **Dr. Magdolna R Mahalyi,** Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Budapest, Hungary for a total duration of 3 years from the date of issue of the sanction order. The detailed breakup of the grant for General as well as Capital Components are given below:-

General Component	:	**Rs. 40,38,554/-**
Capital Component	:	**Rs. 8,00,000/-**

2. As per the terms and conditions, agreed by both side, under the project the sending side will bear the cost related to the International air travel, medical insurance and visa charges whereas the receiving side shall bear the cost of accommodation, hospitality and local travels of the visiting scientist. The break-up of approved expenditure is as indicated below:

S. No	Items of Expenditure	1st Year		2nd Year	3rd Year	Total
		1st Six Months	2nd Six Months			
1.	Manpower 1 JRF@31,000/- per month +8%HRA=Rs. 33,480/- and 1 SRF@Rs. 35,000/- per month +8%	8,55,360	Nil	8,55,360	9,07,200 (JRF to SRF+SRF)	26,17,920/-

U. Tirkey

O/C

Condition for placing of grant amount:

4. The institute will maintain separate audited account for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the (financial year wise) Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further instalment of the grant.

Conditions for submission of SE/UC and Progress report:

5. (a) the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

(b) While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

(c) a transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant;

6. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

7. In the event grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

Conditions of Assets (if any):

8 (a) DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

(b) The equipment/instrument shall have to be purchased within twelve months from the date of release of the capital grant. Fresh permission shall have to be sought from DST, in the event; the Institute fails to purchase the equipment/instrument within the prescribed period of twelve months from the date of release of sanctioned amount.

(c) Goods (consumables/equipment) available in GeM portal are to be procured mandatorily online through Gem only as per the provisions of Rule 149 of GFR.

Conditions for International Visits:

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	HRA=37,800/-					
2.	Minor Equipment	8,00,000	Nil	-	-	8,00,000
3.	**Visits from India to Hungary*:**					
	Number of visits and duration for each visit	Nil	2 visits (2 weeks each)	1 visit (2 weeks total)	1 visit (2 weeks total)	4 visits
	International to & fro Airfare by economy class including airport taxes	Nil	1,60,000	80,000	80,000	3,20,000
	Local travel in India & Hungary from city parent institute to nearest International Air Port	Nil	50,000	25,000	25,000	1,00,000
	visa fee	Nil	16,000	8,000	8,000	32,000
	Overseas medical insurance	Nil	8,000	4,000	4,000	16,000
4.	**Visits from Hungary to India*:**					
	Number of visits and duration for each visit	Nil	2 visits (2 weeks each)	Nil	2 visits (2 weeks each)	4 visits
	Accommodation Charges	Nil	70,000	Nil	70,000	1,40,000
	Per diem	Nil	25,000	Nil	25,000	50,000
5.	Consumables	1,00,000	Nil	1,00,000	1,00,000	3,00,000
6.	Contingency	50,000	Nil	50,000	50,000	1,50,000
7.	Overhead (8%)	1,48,029	Nil	76,429	88,176	3,12,634
	Total	**19,53,389**	**3,29,000**	**11,98,789**	**13,57,376**	**48,38,554**
			22,82,389			

*Travel grant will be released only after requisite clarification from DoE.

3. Sanction of the President is hereby accorded for release of 1st instalment amounting of **Rs. 11,53,389/- (Rupees Eleven Lakhs Fifty Three Thousand Three Hundred and Eighty Nine only)** only to the grantee Institute. The amount of grant will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **Tezpur University, Assam**. The bank details for electronic transfer of funds through RTGS are given below:-

Account Holders name/ designation	Registrar, Tezpur University
Name of Bank	State Bank of India, Tezpur University Branch
Bank Account Number	30448821505
IFSC Code	SBIN0014259
E-Mail	registrar@tezu.ernet.in, dhanapati@tezu.ernet.in

9. All project related visits to be undertaken by the Scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.

10. As per Ministry of Finance, Department of Expenditure vide Office Memorandum No.19024/22/2017-E.IV dated 19th July, 2017, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India and air ticket, may be purchased directly from airlines (viz. Air India) at booking counters/website of airlines or from 3 authorized travel agents namely M/s. Balmer Lawrie & Company Limited, M/s. Ashok Travels & Tours and IRCTC only. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

Other Conditions:

11. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

12. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

13. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/ fellowship from any other project either supported by DST or by any other funding agency.

14. **Failure to comply with the terms and conditions of the sanction order will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.**

15. The expenditure involved is debitable to Demand No.87, Department of Science & Technology for the year 2020-21:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.798	:	International Cooperation (Minor Head)
14	:	Research and Development
14.00.31	:	Grants-in-aid General for the year 2020-21 (Plan)
		(**Previous:** ICD-3425.60.798.12.00.31)

16. This sanction order being 1st instalment for implementation of this project, no SE/UC is due from the grantee institution against this project.

17. This issues with the concurrence of IFD vide their concurrence Dy. No. **C/6245/IFD 2020-21 dated 25.03.2021**

U. Tirkey

18. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 375 in the register of grants maintained in the Division.

19. Continuation of the Project beyond 31/03/2021 will be subject to appraisal and approval of the Umbrella Scheme "Research & Development" under which the Project is funded.

U. Tirkey

(Ujjwala T. Tirkey)
Scientist 'G'

To,

The Pay & Accounts Officer,
Department of Science & Technology,
New Delhi-110016

Copy to:

1. Office of the Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
2. Cash Section (3 copies), DST
3. T.F. Division/Accounts Section, DST
4. Sanction Folder
5. Project File
6. **Registrar, Tezpur University, Tezpur-784028, Assam**
7. **Dr. Dhanapati Deka, Department of Energy, Tezpur University, Tezpur-784028, Assam**

U. Tirkey

(Ujjwala T. Tirkey)
Scientist 'G'

234-235

Admin

No. BT/PR41637/NER/95/1753/2021

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated:31/03/2021

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: **"Exploiting chemical ecology for IPM: Deciphering the phyto-semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India"** for a period of 3 Year 0 Month at a total cost of Rs. **47579782** (Rupees Four Crores Seventy Five Lakhs Seventy Nine Thousand Seven Hundred and Eighty Two Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : **"Exploiting chemical ecology for IPM: Deciphering the phyto-semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India"**

2.2 Details of the Investigators:

Project Coordinator

Dr. KAMALA JAYANTHI P D
PI
CROP PROTECTION, IIHR, Bangalore
Indian Institute of Horticultural Research
Department of Entomology and Nematology, Indian Institute of Horticultural Research, Hesseraghatta Lake PO, Bangalore 560089, Bangalore, Karnataka, 560089

Principal Investigators:

Vaishali

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

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Dr. KAMALA JAYANTHI P D
PI
CROP PROTECTION, IIHR, Bangalore
Indian Institute of Horticultural Research
Dr P D Kamala Jayanthi, National Fellow, Department of
Entomology and Nematology, Indian Institute of Horticultural

Dr. Badal Bhattacharyya
Principal Scientist
Entomology
Assam Agricultural University
Principal Scientist, All India Network Project on Soil
Arthropod Pests, Assam Agricultural University, Jorhat,

Dr. D Srinivasa Reddy
Director
Natural Product Chemistry Division
CSIR Indian Institute of Integrative Medicine canal road Jammu
,Jammu And Kashmir (UT), 180001

Dr. Sikha Deka
Junior Entomologist
Department of Entomology
Citrus Research Station, Assam Agricultural University Gelapukhuri Road,
District Tinsukia,, Tinsukia - 786125,

Dr. Suvendra Kumar Ray
Professor
Department of Molecular Biology and Biotechnology
Tezpur University
Tezpur,Assam, 784028

CO-PI:

Dr. Robin Chandra Boro
Assistant Professor
Department of Agricultural Biotechnology
Assam Agricultural University
Assam

Dr. Inee Gogoi
Assistant Professor
Department of Agricultural Entomology
Assam Agricultural University
Assam

Dr. Kritideepan Sarmah
Junior Scientist
Biochemistry and Agricultural Chemistry
Assam Agricultural University
785013, Assam

Dr. Santa Kalita
Assistant Professor
Environmental Science
Tezpur University
Assam

Dr. Raaj Kumar Kakoti
Principal Scientist
Plant Pathology

Vaishali

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

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Citrus Research Station, Gelapukhuri Road, Tinsukia
786125 Assam

Dr. Sudhansu Bhagawati
Junior Scientist
Entomology
Assam Agricultural University
785013, Assam

Dr. Debaraj Mukherjee
Principal Scientist
Natural Product Chemistry Division
CSIR - Indian Institute of Integrative Medicine,Canal Road, Jammu – 180001

Dr. Sumit G. Gandhi
Principal Scientist
CSIR Indian Institute of Integrative Medicine canal road Jammu
CSIR - Indian Institute of Integrative Medicine,Canal Road, Jammu – 180001, Jammu

Vaishali.

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

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2.3 Objectives:

Overall Objectives:

1. To isolate and identify the phyto-semiochemical cues and associated endophytes involved in insect-insect and plant-insect interactions (crop-pest model systems: Banana & Citrus)
2. To explore the molecular basis of semiochemical perception in insect-insect and plant-insect interactions and the associated population diversity in selected crop pest model systems
3. To evaluate the above identified phyto-semiochemicals as potent attractant/ repellent cues against selected crop pest model systems

Institute wise Objectives:

Assam Agricultural University

1. Survey to understand the patterns of species diversity of Fruit scarring beetle, stem and rhizome weevils in Banana and sampling for MCOI studies
2. Screening the Banana germplasm/wild relatives/repellent plant sources for Banana weevil complex preference/avoidance
3. Establishing the mass cultures of Banana coleopteran pest complex;
4. Understanding the behavioural ecology of target insects
5. Standardization of pheromonal glands extracts for electrophysiological studies
6. Host plant/target insect volatile collection for olfactometer assays
7. Field evaluation of synthetic semiochemical blends against target insect pests

Central Agricultural University (Manipur)

1. Survey to understand the patterns of species diversity of pulp weevil and stone weevil in Mango; cucurbit fruit fly in cucurbits and sampling for MCOI studies
2. Screening the Mango/Cucurbit germplasm/wild relatives/repellent plant sources for target insect preference/avoidance
3. Establishing the mass cultures of above target insects
4. Understanding the behavioural ecology of target insects
5. Host plant/target insect volatile collection for olfactometer assays
6. Field evaluation of synthetic semiochemical blends against target insect pests

CITRUS RESEARCH STATION, TINSUKIA, ASSAM

1. Survey to understand the patterns of species diversity of trunk borer, fruit fly and fruit sucking moths in Citrus and sampling for MCOI studies
2. Screening the Citrus germplasm/ repellent plant sources
3. Establishing the mass cultures of above target insects
4. Understanding the behavioural ecology of target insects
5. Host plant/target insect volatile collection for olfactometer assays
6. Field evaluation of synthetic semiochemical blends against target insect pests

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विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
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CSIR Indian Institute of Integrative Medicine canal road Jammu

1. Initial characterization of the semiochemicals in selected crops (Banana and Citrus)
2. Structural studies and functional validation of the identified compounds
3. Synthesis of the most promising pheromonal compounds
4. Standardization of pheromonal blend and nanogel based formulation

ICAR RC for NEH Region, Umiam, Meghalaya

1. Survey to understand the patterns of species diversity of cucurbit fruit fly and brinjal fruit and shoot borer and sampling for MCOI studies
2. Screening the Cucurbits/ Brinjal germplasm/wild relatives/ repellent plant sources for target insect preference/avoidance
3. Establishing the mass cultures of above target insects
4. Understanding the behavioural ecology of target insects
5. Host plant/target insect volatile collection for olfactometer assays
6. Field evaluation of synthetic semiochemical blends against target insect pests

Indian Institute of Horticultural Research

1. Collection and extraction of semiochemicals; olfactometer bioassays; Standardization of analytical procedures for isolation of biologically active fractions from above collections for target insects and to define precisely the semiochemical blends of active emissions
2. To explore the GC-EAD/MS for isolation/identification of potent chemical cues and standardization of synthetic blends
3. Standardization of semiochemical blends based on GCEAD/GCMS studies
4. To explore molecular basis of olfaction in fruit fly model system and population diversity of target insects in NER
5. To supply of semiochemical blends to NER collaborating institutes for target insects for field evaluation

Tezpur University

1. Isolation and characterization of endophytes from Citrus and Banana plants having insect behaviour modifying effects
2. To establish the role of endophytes of target host plants with its insect pests

Vaishali.

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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. **47579782**/-(Rupees Four Crores Seventy Five Lakhs Seventy Nine Thousand Seven Hundred and Eighty Two Only) as per details given below :

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Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Assam Agricultural University	15655348	1480348	1384028	**18519724**
2. CITRUS RESEARCH STATION, TINSUKIA, ASSAM	2553020	1403520	1357200	**5313740**
3. CSIR Indian Institute of Integrative Medicine canal road Jammu	2458040	1763040	1774400	**5995480**
4. Indian Institute of Horticultural Research	6902258	2795080	2560680	**12258018**
5. Tezpur University	2757250	1403520	1332050	**5492820**
Total (Rs.)	**30325916**	**8845508**	**8408358**	**47579782**

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Assam Agricultural University				
Equipment	14175000.00			**14175000.00**
Manpower	930348.00	930348.00	1034028.00	**2894724.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	100000.00	150000.00	100000.00	**350000.00**
Consumables	350000.00	300000.00	150000.00	**800000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**15655348.00**	**1480348.00**	**1384028.00**	**18519724.00**
2. Indian Institute of Horticultural Research				
Equipment	4157178.00			**4157178.00**
Manpower	1870080.00	1870080.00	1885680.00	**5625840.00**
Overhead	25000.00	25000.00	25000.00	**75000.00**
Travel	100000.00	150000.00	100000.00	**350000.00**
Consumables	700000.00	700000.00	500000.00	**1900000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**6902258.00**	**2795080.00**	**2560680.00**	**12258018.00**
3. CSIR Indian Institute of Integrative Medicine canal road Jammu				
Equipment	799400.00			**799400.00**
Manpower	863040.00	863040.00	974400.00	**2700480.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	30000.00	40000.00	40000.00	**110000.00**

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

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Consumables	700000.00	800000.00	700000.00	**2200000.00**
Contingency	15600.00	10000.00	10000.00	**35600.00**
Total (Rs.)	**2458040.00**	**1763040.00**	**1774400.00**	**5995480.00**
4. Tezpur University				
Equipment	1403730.00			**1403730.00**
Manpower	803520.00	803520.00	907200.00	**2514240.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	100000.00	150000.00	74850.00	**324850.00**
Consumables	350000.00	350000.00	250000.00	**950000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**2757250.00**	**1403520.00**	**1332050.00**	**5492820.00**
5. CITRUS RESEARCH STATION, TINSUKIA, ASSAM				
Equipment	1249500.00			**1249500.00**
Manpower	803520.00	803520.00	907200.00	**2514240.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	150000.00	100000.00	**300000.00**
Consumables	350000.00	350000.00	250000.00	**950000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**2553020.00**	**1403520.00**	**1357200.00**	**5313740.00**

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
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विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

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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:

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 debitable 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.

f. The collaborating institute scientist should visit NER institutions more frequently

Vaishali

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

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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-IV.

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. 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 only.**

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

6. The DIRECTOR, CITRUS RESEARCH STATION, TINSUKIA, ASSAM, Tinsukia, Assam and The Director, Indian Institute of Horticultural Research, Bangalore, Karnataka and The Dr.A Bhattacharyya, Assam Agricultural University, Jorhat, Assam and The Ram vishwakarma, CSIR Indian Institute of Integrative Medicine canal road Jammu, Jammu, Jammu And Kashmir (UT) and The Registrar, Tezpur University, Tezpur, 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

10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clarence, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.),

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
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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/3282/2020-2021** dated **March, 31 2021.**

12. This sanction order has been noted at serial no. 274-275 in the Register of Grants.

(Dr. Vaishali Panjabi)
Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
वैज्ञानिक 'ई' / Scientist 'E'
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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 P D Kamala Jayanthi(Project Co-ordinator), Division of Crop Protection, IIHR, Hesseraghatta Lake PO, Bangalore 560089
3 The DIRECTOR, CITRUS RESEARCH STATION, TINSUKIA, ASSAM, Junior Entomologist, Department of Entomology, Citrus Research Station, Assam Agricultural University Gelapukhuri Road, District Tinsukia,, Tinsukia -, Tinsukia - 786125, Assam
4 The Director, Indian Institute of Horticultural Research, Hessaraghatta lake post, Bangalore - 560089, Karnataka
5 The Dr.A Bhattacharyya, Assam Agricultural University, Borbheta, Jorhat - 785013, Assam
6 The Ram vishwakarma, CSIR Indian Institute of Integrative Medicine canal road Jammu, canal road, Jammu - 180001, Jammu And Kashmir (UT)
7 The Registrar, Tezpur University, Tezpur University
Napaam, Tezpur
Sonitpur, Tezpur - 784028, Assam
8 Dr. Badal Bhattacharyya, Principal Scientist, Entomology, Assam Agricultural University, Principal Scientist, All India Network Project on Soil Arthropod Pests, Assam Agricultural University, Jorhat, Jorhat - 785013, Assam
9 Dr. D Srinivasa Reddy, Director, Natural Product Chemistry Division, CSIR Indian Institute of Integrative Medicine canal road Jammu, Director, CSIR - Indian Institute of Integrative Medicine, No. 3, Post Bag, Canal Rd, Jammu, Jammu and Kashmir 180001, Jammu - 180001, Jammu And Kashmir (UT)
10 Dr. Debaraj Mukherjee, Principal Scientist, Natural Product Chemistry Division, CSIR - Indian Institute of Integrative Medicine,Canal Road, Jammu – 180001, Natural Product Chemistry Division, CSIR - Indian Institute of Integrative Medicine, No. 3, Post Bag, Canal Rd, Jammu, Jammu and Kashmir 180001, Jammu - 180001, Jammu And Kashmir (UT)

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11 Dr. Inee Gogoi, Assistant Professor, Department of Agricultural Entomology, Assam Agricultural University, Assistant Professor, Department of Agricultural Biotechnology, Assam Agricultural University, Jorhat, Jorhat - 785013, Assam
12 Dr. KAMALA JAYANTHI P D, PI, CROP PROTECTION, IIHR, Bangalore, Indian Institute of Horticultural Research, Dr P D Kamala Jayanthi, National Fellow, Department of Entomology and Nematology, Indian Institute of Horticultural Research, Hesseraghatta Lake PO, Bangalore 560089, Bangalore - 560089, Karnataka
13 Dr. Kritideepan Sarmah, Junior Scientist, Biochemistry and Agricultural Chemistry, Assam Agricultural University, Junior Scientist, All India Network Project on Soil Arthropod Pests, Assam Agricultural University, Jorhat, Jorhat - 785013, Assam
14 Dr. Raaj Kumar Kakoti, Principal Scientist, Plant Pathology, CITRUS RESEARCH STATION, TINSUKIA, ASSAM, Citrus Research Station, Gelapukhuri Road, Tinsukia 786125, Tinsukia - 786125, Assam
15 Dr. Robin Chandra Boro, Assistant Professor, Department of Agricultural Biotechnology, Assam Agricultural University, Assistant Professor, Department of Agricultural Biotechnology, Assam Agricultural University, Jorhat - 785013, Assam
16 Dr. Santa Kalita, Assistant Professor, Environmental Science, Tezpur University, Assistant Professor, Department of Environmental Science, Tezpur University , assam, Tezpur - 784028, Assam
17 Dr. Sikha Deka, Junior Entomologist, Department of Entomology, CITRUS RESEARCH STATION, TINSUKIA, ASSAM, Department of Entomology, Citrus Research Station, Assam Agricultural University Gelapukhuri Road, District Tinsukia,, Tinsukia - 786125, Assam., Tinsukia - 786125, Assam
18 Dr. Sudhansu Bhagawati, Junior Scientist, Entomology, Assam Agricultural University, Junior Scientist, All India Network Project on Soil Arthropod Pests, Assam Agricultural University, Jorhat, Jorhat - 785013, Assam
19 Dr. Sumit G. Gandhi, Principal Scientist, Plant Biotechnology Division and Systems Biology D, CSIR Indian Institute of Integrative Medicine canal road Jammu, CSIR - Indian Institute of Integrative Medicine,Canal Road, Jammu – 180001, Jammu - 180001, Jammu And Kashmir (UT)
20 Dr. Suvendra Kumar Ray, Professor, Department of Molecular Biology and Biotechnology, Tezpur University, Professor, Department of Molecular Biology and Biotechnology, Tezpur University, Tezpur, Assam-784 028, Tezpur - 784028, Assam
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Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled **"Exploiting chemical ecology for IPM: Deciphering the phyto-semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India":**

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Assam Agricultural University			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	GC-EAD	1	6500000.00
2.	GCMS	1	5500000.00
3.	Y-Olfactometer/ 4 arm olfactometer with air pumps	2	500000.00
4.	Wind Tunnel	1	625000.00
5.	Volatile collection systems (4 units) with additional air pumps	2	500000.00
6.	Bioassay Cabinets with air pumps	2	550000.00
		Total	**14175000.00**

Indian Institute of Horticultural Research			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Mobile Air entrainments systems with suitable pumps– 5 units	3	600000.00
2.	Bio-assay chambers – 2 units with air pumps	2	250000.00
3.	Gel Doc system with accessories	1	400000.00
4.	Nanodrop -	1	100000.00
5.	Upgradation of Electrophoresis units -2 units	1	200000.00
6.	Upgradation of Autoclave	1	100000.00
7.	Shaker incubator	1	200000.00
8.	Four arm olfactometers with computer support	1	500000.00
9.	Upgradation of existing lenses and software for fluorescence microscope along with accessories	1	136196.00
10.	Realtime PCR machine	1	1571732.00
11.	Micro balance	1	99250.00
		Total	**4157178.00**

CSIR Indian Institute of Integrative Medicine canal road Jammu			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Incubator Shaker, Minor Equipment (pH meter, Balance, Printer, Stirrer, Vacuum Pump, etc.)	1	799400.00
		Total	**799400.00**

Tezpur University			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Growth Chamber	1	1403730.00
		Total	**1403730.00**

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CITRUS RESEARCH STATION, TINSUKIA, ASSAM			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Volatile collection systems (2 units) with additional air pumps	2	400000.00
2.	Bioassay Cabinets with air pumps	1	250000.00
3.	4 arm olfactometers / Y – tube olfactometers with air pumps	1	150000.00
4.	Rearing cages	100	199500.00
5.	Deep Freezer (-20oC)	2	250000.00
		Total	**1249500.00**

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Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled **"Exploiting chemical ecology for IPM: Deciphering the phyto-semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India":**

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
1. Assam Agricultural University					
Junior Research Fellow	2	803520	803520	0	**1607040**
Senior Research Officer Qualification:	2	0	0	907200	**907200**
Workers Semi Skilled	1	126828	126828	126828	**380484**
Total(Rs.)		**930348**	**930348**	**1034028**	**2894724**
2. CITRUS RESEARCH STATION, TINSUKIA, ASSAM					
Junior Research Fellow Qualification:	2	803520	803520	0	**1607040**
Senior Research Fellow	2	0	0	907200	**907200**
Total(Rs.)		**803520**	**803520**	**907200**	**2514240**
3. CSIR Indian Institute of Integrative Medicine canal road Jammu					
Project Associate	2	0	0	974400	**974400**
Project Associate	2	863040	863040	0	**1726080**
Total(Rs.)		**863040**	**863040**	**974400**	**2700480**
4. Indian Institute of Horticultural Research					
Research Associate	1	699360	699360	699360	**2098080**
Senior Research Fellow	2	1041600	1041600	1041600	**3124800**
Workers	1	129120	129120	144720	**402960**
Total(Rs.)		**1870080**	**1870080**	**1885680**	**5625840**
5. Tezpur University					
Junior Research Fellow	1	0	0	453600	**453600**
Junior Research	1	401760	401760	0	**803520**
Project Associate	1	401760	401760	453600	**1257120**
Total(Rs.)		**803520**	**803520**	**907200**	**2514240**

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.

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