EASTERN KARBI ANGLONG COLLEGE Sarihajan, Karbi Anglong, Assam



Key Indicator

3.1- Resource Mobilization for Research

Metric No. 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

Administrative Order

No. BT/PR44839/NER/95/1942/2022 GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY (NER Programme)

Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Date: 29/09/2023

ADMINISTRATIVE 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 "Role of calcium binding protein parvalbumin extracted from natural sources of Assam on neural plasticity associated with epilepsy" for a period of 3 Year 0 Month at a total cost of Rs. 8991920/- (Rupees Eighty Nine Lakhs Ninety One Thousand Nine Hundred and Twenty Only) on the terms and conditions detailed here under:-

2 The Project:

2.1 Title:

Role of calcium binding protein parvalbumin extracted from natural sources of Assam on neural plasticity associated with epilepsy.

2.2 Details of the Investigators:

Project Coordinator
Dr. Manash Barthakur
Principal,
Swahid Smriti Mahavidyalaya
P.S. Belsor, Dist. Nalbari – 781381,
Assam.

Principal Investigators:

Dr. Manash Barthakur Principal, Swahid Smriti Mahavidyalaya P.S. Belsor, Dist. Nalbari – 781381, Assam.

Co-PI:

Dr. Dipak Konwar Assistant Professor, Department of Botany, Pub Kamrup College Guwahati - 781381, Assam

Dr. Marami Das Professor, Department of Neurology, Guwahati Medical College & Hospital, Guwahati – 781032, Assam

Vaislali

डॉ, वंशाली पंजावी / Dr. VAISHALI PANJABI वैद्यानिक 'एफ' / Scientist 'F' बायोटेकोलॉजी विभाग / Depti. of Biotechnology विज्ञान और प्रोची, मंत्राहरम / Mre Science & Tech. भारत सरकार, नई दिल्ली / Govl. of India, N. Delhi



Dr. Anil Ch. Das, Frincipal
Dr. Anil Ch. Das, Frincipal
Eastern Karbi Anglong College
Eastern Karbi Anglong
Papal Richard 1 91

Dr. Pankaj Kalita

Assistant Professor, Department of Zoology, Eastern Karbi Along College, Sarihajan – 782480

Mentor:

Dr. Utpal Dutta, Retd Principal, Handique Girls College, Guwahati – 781001, Assam

2.3 Objectives:

- 1. Extraction, isolation and purification of parvalbumin and parvalbumin like molecules from natural sources and appropriate biomolecule selection to study neuroplastic remodulatory effect.
- 2. Transformation of nonepileptic tissue to epileptogenic tissue by inducing seizure in animal model.
- 3. Study on the role of selected biomolecules on brain physiological and biochemical changes and behavioural changes of control and treated animals and comparison with human subjects in normal and epileptic persons.
- 4. Effect of selected bio-molecules on histopathological and histological changes of brain tissue in control, epileptic and parvalbumin treated epileptic animal.
- 5. Studies on the adverse effect of the test molecules on the systemic level of animal.

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. 8991920/- (Eighty Nine Lakhs Ninety One Thousand Nine Hundred and Twenty Only) as per details given below:

(Financial figures are shown in Rupees)

Sl. No.	Institute	Year 1	Year 2	Year 3	Total Cost (Rs.)
1.	Swahid Smriti Mahavidyalaya Assam	6656560.00	1341760.00	993600.00	8991920.00
	Total (Rs.)	6656560.00	1341760.00	993600.00	8991920.00

Institute wise budget details are:

(Financial figures are shown in Rupees)

Budget Head	Year 1	Year 2	Year 3	Total (Rs.)						
1. Swahid Smriti Mahavidyalaya, Assam.										
Grants for Creation of Capital Assets	5954800.00	0.00	0.00	5954800.00						
Grants-in-aid General	701760.00	1341760.00	993600.00	3037120.00						
Total	6656560.00	1341760.00	993600.00	8991920.00						

2.6 Equipment (Capital Assets): The details of the Capital Assets sanctioned for the implementation of the project is detailed at Annexure-I

2.7 Overhead budget is restricted to Rs. 50000/- per year for Swahid Smriti Mahavidyalaya, Assam only.

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Dr. Anna Nas. 12 (94) ega
Eastern Karbi Anglong
Sarihajan, Karbi Anglong

3. Head of Account:

The Non-Recurring (Capital Assets) expenditure involved is debitable to:

Demand No. 90	Department of Biotechnology
3425	Other Scientific Research 2023-2024
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 to Research and Development
3425.60.200.29.17.35	

The Recurring (GIA General) expenditure involved is debitable to

Demand No. 90	Department of Biotechnology
3425	Other Scientific Research 2023-2024
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 to Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

- 4.1. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest rate at the rate of ten percent thereon shall be recovered. The equipment sanctioned under the project should be purchased within 18 months from the date of the release of the grant.
- 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 with the Sanction Order.
- 4.3. In accordance with Rule 238(5) & 238(6) of GFR, 2017, the private institutes/ voluntary organizations which are receiving Grant-in-aid of Rs.50.00 lakh and above have to submit their Annual Reports and Annual Audited Accounts to the Department within 09 months of the close of the succeeding financial year.
- 4.4. No international travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 4.5. The Principal, Swahid Smriti Mahavidyalaya, Nalbari, Assam would be responsible for submission of Utilization Certificates (UC), Statements of Expenditure (SoE), Capital Assets Acquired Certificates, in prescribed DBT formats to DBT in respect of grants released in this project from time to time. The institute shall also furnish an undertaking that monthly emoluments of engaged human resource in this project have been disbursed in accordance with the duly notified norms/guidelines of the Government Department/Ministry/Autonomous Bodies.
- 4.6. 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.SR/S9/Z-08/2018 dated 30.01.2019. However, there is no Vaulal.

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Dr. Anil Ch. Das, Mphikasaley Eastern Karbi Anglong College Sarihajan, Karbi Anglong

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compulsion on Pl's to select candidates for JRF in their projects from Category-II of DBT-DET

4.7 As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.

- **4.8.** 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
- 4.9. "The PIs/Implementing Agencies shall strictly adhere to the GoI instructions issued vide OM No.F.4.1.2021-PPD dated 30.6.2021 in the matter of issue of Global Tender Enquiry with special reference to instructions contained under para 4 of the said OM for procurement of equipments, spares and consumables for research purposes and shall not issue Global Tenders Enquiries before seeking the approval of the competent authority".
- 4.10. After incurring the expenditure on import of such items and at the time of submission of UCs to the department next year, the PIs will also furnish the copy of the approval sought from the competent authority for issue of the GTE for such items of import. The releases of next instalment of grant will the subject to the fulfilment of the above condition.
- 4.11. If any biological data as specified in the guidelines are being generated in the project then PI should submit the data generated in the project to Indian Biological Data Centre The National Repository being implemented at Regional Centre for Biotechnology, Faridabad in compliance with the Biotech-PRIDE Guidelines 2021.
- 4.12. The quarterly deliverables in the project, in quantifiable terms have to be provided for each quarter of the project, based on which, inter-alia, monitoring/review of the project will be done and proposal for release of subsequent instalment will be considered. Please see Annexure-II.
- **4.13.** While asking for 2nd instalment onwards, the Institute has to certify that the Institute has not utilized more than the amount sanctioned under the 'Overhead' component.
- 4.14. Expenditure to be made through PFMS EAT module.
- 5. This issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No. 102/IFD/SAN/1635/2023-2024 dated 29th September, 2023.
- 6. This sanction order has been noted at serial no. 76-77... in the Register of Grants.

(Dr. Vaishali Panjabi)

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To, The Pay & Accounts Officer, Department of Biotechnology,

Dr. Anii Ch. Cas, Principal Bastem Karbi Anglong Bastem Karbi Anglong Sarihajan, Karbi Anglong

Page No. [4 / 9]

New Delhi - 110 003.



Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Cash Section, DBT (2 copies).
- 3 Sanction Folder.
- 4 File Copy.
- 5 The Principal, Swahid Smriti Mahavidyalaya, Nalbari 781304, Assam
- 6 Dr. Manash Barthakur, Principal, Swahid Smriti Mahavidyalaya, P.S. Belsor, Dist. Nalbari 781381, Assam
- 7 Dr. Dipak Konwar, Assistant Professor, Department of Botany, Pub Kamrup College, Guwahati 781381, Assam.
- 8 Dr. Marami Das, Professor, Department of Neurology, Guwahati Medical College & Hospital, Guwahati 781032, Assam
- 9 Dr. Pankaj Kalita, Assistant Professor, Department of Zoology, Eastern Karbi Along College, Sarihajan – 782480
- 10 Dr. Utpal Dutta, Retd Principal, Handique Girls College, Guwahati 781001, Assam
- 11 CNA, NII, New Delhi.

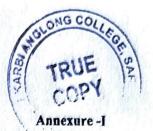
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(Dr. Vaishali Panjabi)

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Page No. [5 / Principal Dr. Anil Ch. Das, Principal Dr. Anil Ch. Das, Principal Eastern Karbi Anglong College Sarihajan, Karbi Anglong



Details of the Equipment sanctioned for the implementation of the project entitled "Role of calcium binding protein parvalbumin extracted from natural sources of Assam on neural plasticity associated with epilepsy":

Swahi	d Smriti Mahavidyalaya		Mazza dia 2
SNo.	Name of Equipment	No.	Cost (Rs.)
1.	PL3516/P Sixteen channel electropysiological data acquisition system for neural recording wirelessly from two animals simultaneously	1	3000000.00
2.	Flurorescence Microscope	1	2954800.00
		Total	5954800.00

(Dr. Vaishali Panjabi)

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बादोटेबनाराजी जिला । Oscar of 8 atechnology विज्ञान और ग्रीची भक्तास्य : Mrs Science & Tech भारत सरकार, नई दिल्ली / Gow of India, N Delhi

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Details of the Quarterly Deliverables sanctioned for the implementation of the project entitled "Role of calcium binding protein parvalbumin extracted from natural sources of Assam on neural plasticity associated with epil":

Name	First Year					Seco	nd Year	•	Third Year			
of the Activit y to be accom plished	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1. Lab setup staff require ment	i) Recruit ment of project staff (ii) Processi ng for purchas e of chemind cals (iii) Collecti on of antiepile ptic natural products	Charact erizatio n of	i) Purchas e of sophisti cated equipm ents ii) Trainin g	i) Ani mal purc hase and accli mati zati on.								
2. Animal Experi ment			Animal house prepara tion	Dev elop men t of drug resis tanc e epile	Tre atm ent of the extr acte d bio	Tre atm ent of the extr acte d bio	Treat ment of the extrac ted biom olecul es	Study on the effica cy of the drugs Beha viour	Study on the efficac y of the drugs Behavi our study	Stud y on the effic acy of the drug s		

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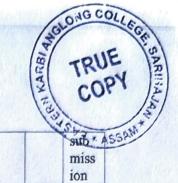
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Eastern Karbi Anglong College
Sarihajan, Karbi Anglong

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3. Electro physiol ogical study		Brainw ave study	Brai n wav e stud y	Bra in wav e stud	Bra in wav e stud	Brain wave study	Brain wave study	Brain wave study	Brai n wav e stud y		
4. Bioche mical Parame ter study			Epil eptic mar ker stud y	Epil epti c mar ker stud	Epil epti c mar ker stud	Epile ptic mark er study	Epile ptic mark er study	Epilep tic marker study	Epil eptic mark er stud y		
5. Histolo gical parame ter study	1			У	y					Hist olog ical stud y of brai	
6. Study of adverse effect of the biomol ecules				Stu dy of the im mu nol ogi al resp ons e						Hist opat holo gica l stud y of live r and kidn ey	
7. Final Report Prepara tion			7				8				Rep ort Prep arati on and

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(Dr. Vaishali Panjabi)

डॉ. वंशाली पंजावी / Dr. VAISHALL PANJABI 'F' वंशाली पंजावी / Dr. VAISHALL PANJABI 'F' वायोद्रेक्नांसॉफी विभाग / Deptl. of Biotechnology विज्ञान और पौधो. मंत्रास्त्य / M/o Science & Tech. भारत सरकार, नई दिल्ली / Govt. of India. N. Delhi

Dr. Anil Ch. Das, Principal Eastern Karbi Anglong College Sarihajan, Karbi Anglong