

No. BT/PR25000/NER/95/950/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NERBPMC)

Admin. Order
Appl. No. MAP/2017/38

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 02 / 09 / 2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "Enhanced production of anticancer flavones- Baicalein, Chrysin and Oroxylin A, from *Oroxylum indicum* tissue culture and studies on its chemopreventive activities" for a period of 3 Year 0 Month at a total cost of Rs. 7254364 (Rupees Seventy Two Lakhs Fifty Four Thousand Three Hundred and Eighty Four Only) on the terms and conditions detailed here under:-

The Project :

1.1 Title : "Enhanced production of anticancer flavones- Baicalein, Chrysin and Oroxylin A, from *Oroxylum indicum* tissue culture and studies on its chemopreventive activities"

2.2 Details of the Investigators:

Project Coordinator

Dr. Mousmi Saikia
PI
Herbal Science and Technology
Anandaram Dheklal Phookan college
c/o- Department of Herbal Science and Technology, ADP College,
Nagaon, assam, Nagaon, Assam, 782002

Principal Investigators:

Dr. Mousmi Saikia
Herbal Science and Technology
Anandaram Dheklal Phookan college
c/o- Department of Herbal Science and
Technology, ADP College, Nagaon, assam,
Nagaon, Assam, 782002

Dr. Jyoti Prasad Saikia
Assistant Professor
Molecular Biology and Biotechnology
Tezpur University, #106, MBBT, Tezpur University,
PO-Napaam, Sonitpur, Assam, India., Tezpur,
Assam, 784028

CO-PI:

Dr. Anand Ramteke
Professor
Dept. of Molecular Biology & Biotechnology
Tezpur University
Department of Molecular Biology and
Biotechnology

Vandana



Tezpur University, PO: Napaam, Tezpur - 784028, Assam

Mr. Bapan Banik
Assistant Professor
department of herbal science and technology
Anandaram Dheklal Phookan college
c/o- Department of Herbal Science ADP
college nagaon, assam, Nagaon - 782002,
Assam

2.3 Objectives:

Overall Objectives:

1. Collection of plant specimen using GPS and submission of passport to NBPGR-Shillong.
2. Establishment of Callus culture and Halry root culture for enhanced production of the specific anticancer compounds- Balcalein, Chrysine and Oroxylin A.
3. Extraction, bioassay guided fractionation and purification of anticancer compounds from In vivo plant specimens
4. Studies of in vitro culture and In vivo isolated anticancer compounds on standard cancer cell Line.

Institute wise Objectives:

Anandaram Dheklal Phookan college

1. Collection of plant specimen using GPS and submission of passport to NBPGR-Shillong.
2. Establishment of Callus culture and Halry root culture for enhanced production of the specific anticancer compounds- Balcalein, Chrysine and Oroxylin A.
3. Extraction, bioassay guided fractionation and purification of anticancer compounds from in vivo plant specimens.

Tezpur University

1. Collection of plant specimen using GPS and submission of passport to NBPGR-Shillong
2. Extraction, bioassay guided fractionation and purification of the anticancer compounds from In vivo plant specimens
3. Studies of In vitro culture and In vivo isolated anticancer compounds on standard cancer cell Line.

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. 7254384/- (Rupees Seventy Two Lakhs Fifty Four Thousand Three Hundred and Eighty Four Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Anandaram Dheklal Phookan college	3271796	661796	713600	4647192
2. Tezpur University	1201796	701796	703600	2607192
Total (Rs.)	4473592	1363592	1417200	7254384

Vandana
 Director
 Department of Herbal Science and Technology
 Anandaram Dheklal Phookan College
 Nagaon, Assam
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 Date: _____

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Anandaram Dheklal Phookan college				
Equipment	2500000.00			2500000.00
Manpower	401796.00	401796.00	453600.00	1257192.00
Overhead	70000.00	60000.00	60000.00	190000.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	200000.00	100000.00	100000.00	400000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	3271796.00	661796.00	713600.00	4647192.00
2. Tezpur University				
Equipment	500000.00			500000.00
Manpower	401796.00	401796.00	453600.00	1257192.00
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
Total (Rs.)	1201796.00	701796.00	703600.00	2607192.00

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. 87	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

Kaulak
 डॉ. विजय शंकर / Dr. Vijay Shankar
 सहायक निदेशक / Assistant Director
 जे.के.जी. विभाग / Dept. of Biotechnology
 शिक्षा और प्रौद्योगिकी, मंत्रालय / Mo. Science & Tech.
 नया दिल्ली, नई दिल्ली / Govt. of India, New Delhi

- 6. The Principle, Anandaram Dheklal Phookan college, Nagaon, Assam 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-09/2012 dated on 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
- 8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
- 9. If the Research Project Involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaIndia.org
- 10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clearance, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project Investigator(s) and Host Institution(s) shall compulsorily comply the same before undertaking such activities.
- 11. This Issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/1271/2019-2020** dated **August, 07 2019**.
- 12. This sanction order has been noted at serial no. 71-72 in the Register of Grants.

Vanushi
(Dr. Valshali Panjabi)
 Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. Valshali Panjabi
 वैज्ञानिक 'E' / Scientist 'E'
 जलसंश्लेषण विभाग / Dept. of Biotechnology
 विभाग और प्रो. विभाग / Mo Science & Tech.
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi