SI. No. C31

No. BT/PR26461/MED/12/821/2018 GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

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

Dated 27/06/2018

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: "A Genetic Algorithm-Based Targeted Approach for Understanding the Phenotypic Heterogeneity of Thalassemia Syndromes in Northern and Eastern Indian Populations" for a period of 3 Year at a total cost of Rs. 12203721 (Rupees One Crores Twenty Two Lakhs Three Thousand Seven Hundred and Twenty One Only) on the terms and conditions detailed here under -

2 The Project:

2.1 Title :

"A Genetic Algorithm-Based Targeted Approach for Understanding the Phenotypic Heterogeneity of Thalassemia Syndromes in Northern and Eastern Indian Populations"

2.2 Details of the Investigators:

Project Co-Ordinator

Dr. Anupam Basu
Professor
Department of Zoology
The University of Burdwan
Department of Zoology, Golapbag,
Bardhaman, West Bengal, 713104

Principal Investigators:

Dr. Anupam Basu Professor Department of Zoology The University of Burdwan Department of Zoology, Golapbag, Bardhaman-713104, West Bengal,

Dr. Prashant Sharma
Associate Professor
Department of Hematology
Post Graduate Institute of Medical Education & Research
Chandigarh- 160012

CO-PI:

Dr. Alka Rani Khadwal
Associate Professor
Adult Clinical Hematology and BMT Unit, Department
Post Graduate Institute of Medical Education &
Research, Chandigarh - 160012, Chandigarh

And

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Dr. Reena Das

Professor
Department of Hematology
Post Graduate Institute of Medical Education and Research
Department of Hematology
PGIMER, Chandigarh-160012, Chandigarh
Chandigarh

Dr. Raghunath Chatterjee

Assistant Professor
Human Genetics Unit, Biological Science Division
Indian Statistical Institute-Kolkata
Human Genetics Unit
Indian Statistical Institute
203 B.T. Road, Kolkata, 700108, INDIA, Kolkata - 700108,
West Bengal

Dr. Prosanto Kumar Chowdhury

Consultant
Thalassaemia and Haemoglobinopathies
Institute of Child Health, Calcutta
kolkata, Kolkata - 7110017, West Bengal

Dr. Kaustav Nayek

Professor Department Of Pediatric Medicine Burdwan Medical College and Hospital Bardhaman, Bardhaman - 713101, West Bengal

Dr. Gispati Chakraborty

Sr. Medical Officer Burdwan University Health Centre The University of Burdwan Bardhman, Bardhaman - 713104, West Bengal

Dr. Sharmistha Chakraborty

Medical Officer
Thalassemia Control Unit,
Burdwan Medical College and Hospital
Natunpally(East) Nari Colony
Burdwan-1, West bengal, Bardhaman - 713101, West
Bengal

2.3 Objectives:

- To establish a genetic diagnostic and prognostic algorithm for patients with Thalassemia syndrome in northern and eastern Indian populations
- To investigate the role of the locus control region (LCR) of HBB gene in determining phenotypic heterogeneity and modulating HbF levels
- To elucidate differences in modifier genes between the subjects of transfusion-dependent (i.e. thalassemia major) and non-transfusion dependent (i.e. thalassemia intermedia) phenotypes despite the same or similar Mendelian genotype.

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. 12203721.00 (Rupees One Crores Twenty Two Lakhs Three Thousand Seven Hundred and Twenty One Only) as per details given below:

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Instituto	Yearl			
. A70201		Year II	Year III	Total Cost(Rs)
Post Graduate Institute of Medical	1608200			
Education & Research		1608200	1808200	4824600
2. The University of				
Burdwan	3495521	1941800	1941800	7379121
Total (Rs.)	740000			
A.	5103721	3550000	3550000	12203721

Institute wise details are:

Budget Head	Year	Year II	Year III	Total(Rs)
1. The University of Burd	wan			
Equipment	1553721.00			1553721.00
Manpower	736800.00	736800.00	736800.00	2210400.00
Overhead	100000.00	100000.00	100000.00	300000.00
Contingency	75000.00	75000 00	75000 00	225000.00
Travel	30000 00	30000 00	30000 00	90000.00
Consumables	1000000 00	1000000 00	1000000.00	3000000.00
Total (Rs.)	3495521.00	1941800.00	1941800.00	7379121.00
2. Post Graduate Institute	of Medical Education &	Research		
Manpower	403200.00	403200 00	403200 00	1209600.00
Manpower Overhead	403200 00 100000 00	403200 00 100000 00	403200.00 100000.00	1209600.00 300000.00
The state of the s		STATE OF STATE		
Overhead	100000.00	100000 DO	100000 00	300000.00
Overhead Consumables	100000.00 1000000.00	100000 00 1000000 00	100000 00	300000.00

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:



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Demand No. 85	Department of Biotechnology Other Scientific Research 2018-2019
3425	Other Solom
3425.60	Others (Sub Major Head) Assistance to other Scientific Bodies (Minor Head)
3425.60.200	Assistance to other Scientification and Development
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
3425.60.200.23.17.33	Old Market State S

The Recurring expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology	
3425	Other Scientific Research 2018-2019	
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:

- i. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten percent thereon shall be recovered.
- ii. Grantee Institution is a public funded organization.
- iii. The equipment sanctioned under the project should be purchased within 18 months from the date of the release of the grant.
- iv. The expenditure to be made as per the EAT module of the Government of India.
- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3The 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, Post Graduate Institute of Medical Education & Research, Chandigarh, Chandigarh and The Registrar, The University of Burdwan, Bardhaman, West Bengal 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.

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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 whenever the Institution or Organisation is called upon to do so.

- 9.If the Research Project involves biological resource, 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. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No.102/IFD/SAN/852/2018-2019 dated June, 27,2018.
- 11. This sanction order has been noted at serial no. 26 in the Register of Grants

(Dr. Anamika Gambhir) Scientist - 'F'

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. Anupam Basu (Project Co-Ordinator), Centre for Molecular Biology and Human Genetics, Department of Zoology. The University of Burdwan, Bardhaman-713104.
- 3 The Director, Post Graduate Institute of Medical Education & Research, Sector 12, Chandigarh 160012. Chandigarh
- 4 The Registrar, The University of Burdwan, Rajbati, Bardhaman 713104, West Bengal
- 5 Dr. Alka Rani Khadwal, Associate Professor, Adult Clinical Hematology and BMT Unit, Department, Post Graduate Institute of Medical Education & Research, Chandigarh – 160012.
- 6 Dr. Anupam Basu. Professor, Department of Zoology, The University of Burdwan, Department of Zoology. Golapbag, Bardhaman - 713104, West Bengal
- 7 Dr. Gispati Chakraborty, Sr. Medical Officer, Burdwan University Health Centre, The University of Burdwan. Bardhaman - 713104, West Bengal
- 8 Dr. Kaustav Nayek, Professor, Department Of Pediatric Medicine, Burdwan Medical College and Hospital, Bardhaman - 713101, West Bengal
- 9 Dr. Prashant Sharma, Associate Professor, Hematology, Post Graduate Institute of Medical Education & Research, Postgraduate Institute of Medical Education and Research, Chandigarh, Chandigarh - 160012. Chandigarh
- 10 Dr. Prosanto Kumar Chowdhury, Consultant, Thalassaemia and Haemoglobinopathies, Institute of Child Health, Calcutta, Kolkata - 7110017, West Bengal
- Dr. Raghunath Chatterjee, Assistant Professor, Human Genetics Unit, Biological Science Division, Indian Statistical Institute-Kolkata, Human Genetics Unit, Indian Statistical Institute, 203 B.T. Road, Kolkata, 700108, West Bengal
- 12 Dr. Reena Das, Professor, Hematology, Post Graduate Institute of Medical Education and Research, Department of Hematology, Chandigarh - 160012, Chandigarh
- 13 Dr Sharmistha Chakraborty, Medical Officer, Thalassemia Control Unit, Burdwan Medical College and Hospital, Naturpally (East). Nari Colony, Burdwan-1, Bardhaman - 713101, West Bengal
- 14 Cash Section, DBT (2 copies).
- 15 Sanction Folder.
- 16 File Copy.

(Dr. Anamika Gambhir) Scientist - 'F'

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