

approval from Biodiversity Management Committee Environmental clearance, the project may be terminated without any notice.)

SERB has adopted the Scientific Social Responsibility (SSR) Policy which mandates SERB Grantees to undertake some SSR activities during their project period. You are requested to read the SSR guidelines available under SSR menu in the online portal and choose the activities according to your preference. Depending on the activity chosen, additional budget would be provided under separate head to carry out the chosen activities. It is mandatory to submit SSR details along with RTGS and other relevant documents.

Kindly upload RTGS details of the implementing institute to facilitate transfer of the fund as per the template. Kindly quote the reference number in all future correspondence. The project's reference no. SRG/2023/000685 may also be mentioned in all research communications arising from the above project.

Please note that the project starts only after it is accorded financial sanction by SERB and the date of start of the project will be the date on which your host institute receives the first instalment of funds.

Yours sincerely,

(Dr. Arvind Chaudhary)

Email: lifesciences.serb@gmail.com

Ph: 01126552215

Dr. Shubhajit Saha

DEPARTMENT OF ZOOLOGY

The University Of Burdwan , Burdwan Rajbati, Raiganj, Burdwan, West Bengal-713104

\*\*\*\*\* LEGAL DISCLAIMER \*\*\*\*\*

Please do not reply to this mail !!

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15/3/17



FD Diary No.7788  
Dated : 24.01.2017

University Grants Commission  
Bahadur Shah Zafar Marg  
New Delhi-110 002

F.30-141/2015(BSR)

Dated: February, 2017

Under Secretary FD-III Section,  
University Grants Commission  
Bahadur Shah Zafar Marg,  
New Delhi – 110002.

16 FEB 2017

**Subject:-** Approval-cum-Sanction letter for UGC-BSR Research Start-Up-Grant @ Rs.6.00 lakhs each for newly recruited faculty at Assistant Professors level in Science Departments of various Universities – Release of the grant for the financial year 2016-2017 under Plan.

The University Grants Commission convey its approval and allocate a sum of Rs.6,00,000/- (Rupees Lakhs Only) @ Rs.6.00 Lakhs each faculty to the Registrar, The University of Burdwan, Rajbati, Burdwan – 713107, West Bengal being the UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level of Science Departments.

Accordingly, I am further directed to convey the sanction of the University Grants Commission for the amount of Rs.6,00,000/- (Rupees Six Lakhs only) to the Registrar, The University of Burdwan, Rajbati, Burdwan – 713107, West Bengal being the approval of Rs.6,00,000/- (Rupees Six Lakhs only) @ Rs.6.00 lakhs each faculty towards UGC-BSR Research Start-Up-Grant for newly recruited faculty at Assistant Professors level in Science Departments for the plan expenditure for the financial year 2016-2017 as per details given below:-

Name of the Item	Head of Account	Name of Faculty / Professor	Name of Departments	Amount Approved (Rs.)	Amount being released (Rs.)
UGC-BSR Start-up Grant @ Rs.6.00 lakhs for newly recruited faculty at Assistant Professor level in science Department	3(B) (60) 31	Dr. Sumit Kumar Hira	Zoology	6,00,000/-	6,00,000/-
<b>Total:</b>				<b>6,00,000/-</b>	<b>6,00,000/-</b>

The sanctioned amount is debit to the major Head 3(B) (60) 31 and is valid for payment during the financial year 2016-17 only.

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, The University of Burdwan, Rajbati, Burdwan – 713107, West Bengal through Electronic mode as per the following details:

- Details (Name & Address) of Account Holder : Registrar, The University of Burdwan, Rajbati, Burdwan – 713 107, West Bengal.
- Account No. : 420110100019490
- Name & Address of Bank Branch : Bank of India, Burdwan Branch, Kalna Road, Badamtala, Burdwan-713 101, West Bengal.
- MICR Code : 71303102
- IFSC Code : BKID0004201
- Type of Account : Saving Account

The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.

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.



FILE NO. ECR/2016/000105  
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 08-Sep-2016

**ORDER**

Subject: Financial Sanction of the research project titled "Effect of TGF- $\beta$  silencing in dendritic cell mediated immunotherapy against an aggressive murine lymphoma: Role of cytokine" under the guidance of Dr. Sumit Kr Hira, Zoology, Burdwan University, Dde Complex, Golapbag, Post: Rajbati, Dist: Burdwan, Bardhaman, West Bengal-713104 - 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. 3344000/- (Rs. Thirty Three Lakh Forty Four Thousand Only) with break-up of Rs. 1250000/- under Capital (Non-recurring) head and Rs. 2094000/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 3344000/- has been approved are given below: The following budget may be considered for Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Vertical Laminar Airflow & Autoclave -> Inverted Research Microscope with bright field & Phase Contrast microscopy -> Ultra-low Freezer -> CO2 Incubator with a CO2 Cylinder	1250000
A'	Total (Non-Recurring)	1250000
B	Recurring Items	
1	Recurring - A : ( Consumables, Travel, Contingencies)	1790000
2	Recurring - B : (Overhead Charges)	304000
B'	Total (Recurring)	2094000
C	Total cost of the project (A' + B')	3344000

- 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. 697999/- (Rupees Six Lakh Ninety Seven Thousand Nine Hundred and Ninety Nine only) under 'Grants-in-aid General' to Registrar, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan being the first installment of the grant for the year 2016-2017 for implementation of the said research project.
- The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Early Career Research Award. (EC Life Sciences)
- The Sanction has been issued to Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan with the approval of the competent authority under delegated powers on 05 September, 2016 and vide Diary No. SERB/F/3790/2016-17 dated 07 September, 2016
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- 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.
- While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- 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.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The release amount of Rs. 1947999/- (Rupees Nineteen Lakh Forty Seven Thousand Nine Hundred and Ninety Nine only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:



FILE NO. EEQ/2017/000076  
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: 17-Mar-2018

**ORDER**

Subject: Financial Sanction of the research project titled "Targeting molecular Cross-talk between Dendritic cell and NK cell in tumor micro-environment to promote cancer immunity: Role of TLR agonist" under the guidance of Dr. Sumit Kr Hira, Zoology, Burdwan University, Dde complex, Golapbag, post: rajbati, dist: burdwan, Bardhaman, West bengal-713104 - 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. 4546000/- (Rs. Forty Five Lakh Forty Six Thousand Only) with break-up of Rs. 1400000/- under Capital (Non-recurring) head and Rs. 3146000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 4546000/- has been approved are given below:  
The following budget may be considered for Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Inverted Fluorescence Microscope with Phase contrast & camera	1400000
A'	Total (Non-Recurring)	1400000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies)	936000 1800000
2	Recurring - III : (Overhead Charges)	410000
B'	Total (Recurring)	3146000
C	Total cost of the project (A' + B')	4546000

- Sanction of the SERB is also accorded to the payment of
  - Rs. 1400000/- (Rupees Fourteen Lakh only) under 'Grants for creation of capital assets' and Rs. 1050000/- (Rupees Ten Lakh Fifty Thousand only) under 'Grants-in-aid General' to Registrar, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan being the first installment of the grant for the year 2017-2018 for implementation of the said research project.
- 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)
- The Sanction has been issued to Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan with the approval of the competent authority under delegated powers on 16 March, 2018 and vide Diary No. SERB/F/10765/2017-2018 dated 17 March, 2018
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- 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.
- 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.
- 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.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The release amount of Rs. 2450000/- (Rupees Twenty Four Lakh Fifty 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:

GOVERNMENT OF WEST BENGAL

Department of Biotechnology  
EN-24, Sector - V, Salt Lake, Kolkata

Tel: 23570084

Fax: 23570083

Date: 07/02/2018

No: 27(Sanc.)-BT/ST/P/S&T/2G-24/2017

Sanction Order for Grant-in-Aid

Demand No. : 70

Department Code : BT

Financial Year : 2017 - 2018

1. Sanctioning Authority: Higher Education, Science & Technology and Biotechnology(Biotech.)
2. Name of the Grantee Institution: The University of Burdwan.
3. Address of the Grantee Institution: Rajabati, Burdwan 713104, West Bengal.
4. Category of Grantee Institution: Education Institution
5. Amount Sanctioned: 659800 (in words Rs. Six Lakh Fifty Nine Thousand Eight Hundred Only. )
6. Name of the DDO: Registrar & DDO, Higher Education Department
7. Department Code: BT-Higher Education, Science & Technology and Biotechnology(Biotech.)
8. Name of the Treasury/PAO:Pay & Accounts Officer-III, PAO-III
9. Nature of Grant (a) Recurring or Non-recurring: Recurring  
(b) Capital or Revenue: Revenue
10. Condition of Grant Utilisation Certificate required: Yes
11. Category of Grant : Education Institution
12. Purpose of Grant : Mesoporous silica based micro/nano materials for Targeted Drug Delivery: Implications in drug resistant cancer cell lines.
13. An amount of Rs 659800 is hereby allotted for this period in favour of the Registrar & DDO, Higher Education Department From the head of account 3425-60-004-SP-007-31-02-V from the budget provision of the financial year,2017 - 2018 under Demand No.70 Department Code BT and payable to Grantee Institution or by A/c payee cheque/By-Transfer Credit / ECS.
14. Head of Account Code :3425-60-004-SP-007-31-02-V
15. Name of the Scheme :Scientific Research in Biotechnology
16. The amount will be drawn in T.R. from No.31/32/43 (As applicable as per WBTR)
17. The sanctioned amount will be payable to The University of Burdwan. by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque / ECS as applicable.
18. Remarks: The fund has been sanctioned as the 3rd year installment of the project. Total project cost is Rs. 19,99,600/-. Now Rs. 6,59,800/- will be transferred to Registrar, The University of Burdwan through e-Pradan system to Bank of India, A/C No. - 420110100019490(SB), IFSC CODE-BKID0004201, Mobile Number of the PI 9163655722
19. Total released amount is within the Budget Provision of the above mentioned head of account during 2017 - 2018
20. This order issues in exercise of the power delegated under Finance Department Memo. No. nullwith the concurrence of Finance Deptt. vide Gr. F.A. Branch. U.O. No. 189 F.A./Education. Date 06/02/2018

  
O.S.D&E.O. DEPUTY SECRETARY

Higher Education, Science & Technology and Biotechnology(Biotech.)



Dated: 19-Feb-2020

**ORDER**

Subject: Financial Sanction of the research project titled "Influence of Melatonin on the immunobiology of Dendritic Cell: Role of Innate Immune signals" under the guidance of Dr. Sumit Kr Hira, Zoology, Burdwan University, Dde complex, Golapbag, post: rajbati, dist: burdwan, Bardhaman, West Bengal-713104 - 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. 5284752/- (Rs. Fifty Two Lakh Eighty Four Thousand Seven Hundred and Fifty Two Only) with break-up of Rs. 1500000/- under Capital (Non-recurring) head and Rs. 3784752/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 5284752/- has been approved are given below:

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	1500000
1	Equipment -> Multimode Micro-plate Reader	1500000
<b>A'</b>	<b>Total (Non-Recurring)</b>	
<b>B</b>	<b>Recurring Items</b>	544320
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	2700000 60000 480432
2	Recurring - IV : (Overhead Charges)	3784752
<b>B'</b>	<b>Total (Recurring)</b>	5284752
<b>C</b>	<b>Total cost of the project (A' + B')</b>	

- 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. 1301500/- (Rupees Thirteen Lakh One Thousand Five Hundred only) under 'Grants-in-aid General' to Registrar, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan being the first installment of the grant for the year 2019-2020 for implementation of the said research project.
- The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant. (Interdisciplinary Biological Sciences)
- The Sanction has been issued to Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan with the approval of the competent authority under delegated powers on 06 February, 2020 and vide Diary No. SERB/F/9910/2019-2020 dated 06 February, 2020
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- 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.
- 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.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- 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.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The release amount of Rs. 2801500/- (Rupees Twenty Eight Lakh One Thousand Five 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	BURUNIV
Account Name	THE UNIVERSITY OF BURDWAN- SERB
Account Number	38989370861
Bank Name & Branch	STATE BANK OF INDIA BURDWAN UNIVERSITY BRANCH, B.C. ROAD, UTTAR FATAK, RAJBATI, BURDWAN-713104
IFSC/RTGS Code	SBIN002033
Email id of A/C Holder	fo@buruniv.ac.in
Email id of PI	sumit.hira2008@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. CRG/2019/001296 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, 11th Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Sumit Kr Hira Zoology Burdwan University, Dde complex, Golapbag, post: rajbati, dist: burdwan, Bardhaman, West bengal-713104 Email: sumit.hira2008@gmail.com Mobile: 919163655722 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Registrar, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan  (Receipt of Grant may be intimated by name to the undersigned)

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





Dr Subhasis Das <buphysd@gmail.com>

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**Indo German project- Generation of tunable mid-IR radiation by cascaded optical parametric oscillators - TPN 86734**

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Dr. Sibashisa Dash <sdash.dst@gov.in>  
To: buphysd@gmail.com  
Cc: officeswati2 <officeswati2@gmail.com>

Tue, Aug 1, 2023 at 2:04 PM

Dear Dr. Subhasis Das,

Congratulations. I am happy to inform you that your above mentioned project has been recommended for support after due evaluation both by DST, India and DAAD, Germany.

You may submit additional documents in attached formats (security/sensitivity checklist and Bank details) for obtaining formal approval and release of grant.

1. The security checklist as per the attached documents duly signed by your head of the institution. In case your institute belongs to a central government department, this security checklist should be sent to your parent department for security/sensitivity clearance and send us the obtained clearance. For institutes and academic institutes under administrative control of DST, such clearance will be provided by DST.
2. Bank details for transfer of grant under central sector scheme: Bank of Maharashtra under scheme-3237 ( Research and Development) of your Institution.
3. If your institute belongs to private Institution, please submit registration number of your institute on Darpan Portal.

With regards,  
S Dash

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Dr. Sibashisa Dash,  
Scientist 'C', International Cooperation Division,  
Department of Science & Technology  
विज्ञान एवं प्रौद्योगिकी विभाग  
Ministry of Science & Technology, GOI  
विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार  
Technology Bhawan, New Mehrauli Road  
New Delhi - 110016  
Tel: +91-11-26590317





FILE NO. EEO/2017/000018  
**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-S, Vasant Kunj  
 New Delhi-110070

Dated: 15-Mar-2018

**ORDER**

Subject: Financial Sanction of the research project titled "Development of baited trap to control the aphid, *Aphis craccivora* (Roch) (Hemiptera: Aphididae) on *Lathyrus sativus* L. plants and evaluation of transgenic L. *sativus* plants against this aphid" under the guidance of Dr. Anandamay Barik, Zoology, Burdwan University, Dde complex, Golapbag, post: rajbati, dist: burdwan, Bardhaman, West Bengal-713104 - 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. 4036000/- (Rs. Forty Lakh Thirty Six Thousand Only) with break up of Rs. 1000000/- under Capital (Non-recurring) head and Rs. 3036000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 4036000/- has been approved are given below.

The following budget may be considered for Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Laminar air-flow -> 2-D Gel electrophoresis with analysis software including 5 Kb online-UPS and 1.5 ton A.C. -> Gel doc -> Thermal cycler -> Bacterial shaker and incubator	1000000
<b>A</b>	<b>Total (Non-Recurring)</b>	<b>1000000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - A : (Manpower) Recurring - B : ( Consumables, Travel, Contingencies)	575000
2	Recurring - C : (Overhead Charges)	360000
<b>B</b>	<b>Total (Recurring)</b>	<b>3036000</b>
<b>C</b>	<b>Total cost of the project (A + B)</b>	<b>4036000</b>

2. Sanction of the SERB is also accorded to the payment of

- Rs. 1000000/- (Rupees Ten Lakh only) under 'Grants for creation of capital assets' and Rs. 1015000/- (Rupees Ten Lakh Fifteen Thousand only) under 'Grants-in-aid General' to Registrar, The University of Burdwan, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan

being the first installment of the grant for the year 2017-2018 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 Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan with the approval of the competent authority under delegated powers on 14 March, 2018 and vide Diary No. SERB/F/10525/2017-2018 dated 14 March, 2018

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://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- A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. 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.

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

10. The release amount of Rs. 2015000/- (Rupees Twenty Lakh Fifteen 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:

Account Name	The University of Burdwan, Rajbati, Burdwan - 713 104
Account Number	420110100019490
Bank Name & Branch	Bank of India Burdwan Branch, Kalna Road, Badamtala, Burdwan- 713 101, Ph No: 0342-2664189/145.
IFSC/RTGS Code	BKID0004201
Email id of A/C Holder	fo@buruniv.ac.in
Email id of PI	anandamaybarik@yahoo.co.in

11. 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.

12. 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.

13. The project File no: EEQ/2017/000018 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

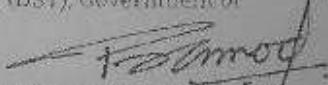
14. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

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

16. 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.

17. 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.


18. 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 C  
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, 11th Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Anandamay Barik Zoology Burdwan University, Dde complex, Golapbag, post: rajbati, dist: burdwan, Bardhaman, West bengal-713104 Email: anandamaybarik@yahoo.co.in Mobile: 919433734183 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Registrar, The University of Burdwan, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan  (Receipt of Grant may be intimated by name to the undersigned)

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



Dated: 05 March, 2024

**ORDER**

Subject: Financial Sanction of the research project titled **Deciphering the code of chemical interactions and transcriptional induction in ridge gourd [Luffa acutangula] plants attracting its herbivore insect pest, Aulacophora lewisii (Coleoptera: Chrysomelidae)** under the guidance of Prof. Anandamay Barik, Zoology, The University of Burdwan, Burdwan rajbati, raiganj, bardhaman, Bardhaman, West bengal-713104 - 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. 4559280/- (Rs. Forty Five Lakh Fifty Nine Thousand Two Hundred and Eighty Only) with break-up of Rs. 1600000/- under Capital (Non-recurring) head and Rs. 2959280/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 4559280/- has been approved are given below:

The following budget may be considered for The University Of Burdwan, Burdwan Rajbati, Raiganj

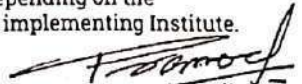
S.No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Millipore -> Microbalance -> Nanodrop Spectrophotometer -> Pull pump for volatile collection -> Push Pump for volatile collection	1600000
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>1600000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Research Personnel) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	784800 1740000 20000
2	Recurring - IV : (Overhead Charges)	414480
<b>B'</b>	<b>Total (Recurring)</b>	<b>2959280</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>4559280</b>

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ( www.serb.gov.in).
3. 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.
4. 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.
5. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
6. 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.
7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
8. 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.
9. 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.
10. The research personnel 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
11. 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.

12. The project File no. CRG/2023/000736 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. 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 SERB.

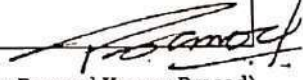
14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.

  
(Dr. Pramod Kumar Prasad)  
Scientist-E  
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.	Prof. Anandamay Barik Zoology The University of Burdwan , Burdwan rajbati, raiganj, bardhaman, Bardhaman, West bengal-713104 Email: abarik@zoo.buruniv.ac.in Mobile: 919433734183 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	REGISTRAR, The University of Burdwan, The University Of Burdwan, Burdwan Rajbati, Raiganj  (Receipt of Grant may be intimated by name to the undersigned)

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



**Grants for research projects sponsored by the government agencies during the last five years (Sanction letter with budget)**

**Principal Investigator: Prof. (Dr.) ANUPAM BASU**

Name of the Project	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in Lakhs)
Study on the effect of TLR-3 and TLR-9 on breast cancer (Sanction No: SB/SO/HS/008/2014)	SERB- DST	Zoology	2015	36.90
Study on the Mutation of Beta Globin gene and sequence homology among anthropoids (Sanction No: 687(Sanc.)/ST/P/S&T/IG -20/2014)	WB-DST	Zoology	2016	18
Study on the role of TLR4 signaling in breast cancer progression (Sanction No: BT/PR20699/MED/30/1748/2016)	DBT	Zoology	2018	81.30
Development of field based rapid hemoglobinopathy - Thalassemia carrier screening kit (Ref No: BIRAC_BT/AIR0317/PACE-12/17)	BIRAC	Zoology	2018	35.09
A Genetic Algorithm-Based Targeted Approach for Understanding the Phenotypic Heterogeneity of Thalassemia Syndromes in Northern and Eastern Indian Population. [A – Multicentre project participated by PGIMER, Chandigarh & The University of Burdwan, Burdwan; Coordinating centre – The University of Burdwan] (Sanction No: BT/PR26461/MED/12/821/2018)	DBT	Zoology	2018	122.03

NO. SB/SO/HS/008/2014  
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor,  
Vasant Square Mall,  
Plot No. A, Community Centre,  
Sector-5, Pocket-5, Vasant Kunj  
New Delhi-110070  
Dated: 23/11/2015

**ORDER**

Subject: Financial Sanction of the research project titled "Study on the effect of TLR-3 and TLR-9 on breast cancer." under the guidance of Dr. Anupam Basu, Associate Professor, Department of Zoology, The University of Burdwan, Golapbag, Burdwan-713104.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 36,90,000/- ( Rs. Thirty Six Lakhs Ninety Thousand Only.) under Recurring Head for a duration of three years. The items of expenditure for which the total allocation of Rs. 36,90,000/- ( Rs. Thirty Six Lakhs Ninety Thousand Only.) has been approved for a period of three years, are given below:

Sl. No	Head	Total (in Indian Rupees)
A	Non-recurring (Capital Items)	
		NIL
B	Recurring items	
1	Recurring- A (Manpower, Consumables, Travel(Domestic), Contingencies)	Rs. 31,90,000/-
2	Recurring - B (Overhead Charges)	Rs. 05,00,000/-
B'	Total (Recurring)	Rs. 36,90,000/-
C	Total cost of the project (A' + B')	Rs. 36,90,000/-

2. Sanction of the SERB is also accorded to the payment of Rs. 12,50,000/- under 'Recurring Heads' being the grant for the year 2015-16 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

Rs. 12,50,000/- under 'Recurring'

This release is being made under PAC (Health Science)

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. SERB/F/5510/2015-16 dated 07/11/2015.

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://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.

Contd...2/-



7. While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. The total release amount of Rs.12,50,000/- ( Rs. Twelve Lakh and Fifty Thousand Only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	THE UNIVERSITY OF BURDWAN
Account Number	420110100019490
Bank Name & Branch	BANK OF INDIA & BURDWAN BRANCH, BURDWAN-713101
IFSC/RTGS Code	BKID0004201
Email Id of PI	abasu@zoo.buruniv.ac.in
Email Id SERB Officer	sanctionhealthscience@gmail.com

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. The grant is to be kept in a separate account and interest so generated well be adjusted the future installments against the further installments released.

10. The institute will furnish separate Utilization Certificates (UCs) to the SERB, New Delhi 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.

11. 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 supporting staffs salary etc. beyond the duration of the project

12. The Institute will maintain separate audited accounts for the project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest. The interest earned should be reported to SERB, New Delhi. The interest thus earned will be treated as a credit to the Institute to be adjusted towards further installment of the grant.

13. The sanctioned equipments and consumable to be procured as per GFR 2005 and its disposal would be done with prior approval of SERB.

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

15. After completion if the project balance if any to be refunded to SERB as DD in favor of " Fund for Science & Engineering Research " at the earliest.

*Rita Banerjee*  
(Rita Banerjee)  
Scientist- F

To,  
Finance & Budget Officer  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, 111rd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	Dr. Anupam Basu, Associate Professor, Department of Zoology, The University of Burdwan, Golapbag, Burdwan-713104.
5.	The Registrar, The University of Burdwan, Golapbag, Burdwan-713104.

*Rita Banerjee*  
(Rita Banerjee)  
Scientist F

GOVERNMENT OF WEST BENGAL  
Department of Science & Technology  
Blkash Bhawan, 4th floor

Tel: 25693717

Fax:

Date: 03/12/2015

Memo No : 687(Sanc.)/ST/P/S&T/1G-20/2014

Sanction Order for Grant-In-Aid

Demand No. : 48 Department Code : ST Financial Year : 2015 - 2016

1. Sanctioning Authority: Science & Technology
2. Name of the Grantee Institution: Deptt. of Zoology, Burdwan University.
3. Address of the Grantee Institution: Rajbati, Burdwan-713104.
4. Category of Grantee Institution: Education Institution
5. Amount Sanctioned: 651800 (in words Rs. Six Lakh Fifty One Thousand Eight Hundred Only.)
6. Name of the DDO: OSD AND DDO, DEPTT.OF SCIENCE AND TECH.
7. Department Code: ST-Science & Technology
8. Name of the Treasury/PAO:Pay & Accounts Officer-III, PAO-III
9. Nature of Grant (a) Recurring or Non-recurring: Recurring  
(b) Capital or Revenue: Revenue
10. Condition of Grant Utilisation Certificate required: Yes
11. Category of Grant : Education Institution
12. Purpose of Grant : Study on the Mutation of Beta Globin gene and sequence homology among anthropoids.
13. An amount of Rs 651800 is hereby allotted for this period in favour of the OSD AND DDO, DEPTT.OF SCIENCE AND TECH. From the head of account 3425-60-200-SP-001-31-02-V from the budget provision of the financial year,2015 - 2016 under Demand No.48 Department Code ST and payable to Grantee Institution or by A/c payee cheque/by transfer credit.
14. Head of Account Code :3425-60-200-SP-001-31-02-V
15. Name of the Scheme :Financial Assistance to other Scientific Bodies for undertaking Scientific Projects/Surveys/Research/Training and Science Awareness & Science Popularisation programme (State Share)
16. The amount will be drawn in T.R. from No.31/32/43
17. The sanctioned amount will be payable to Deptt. of Zoology, Burdwan University. by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque as applicable
18. Remarks: Present release is the 1st installment of the total project cost of Rs. 18,01,800/- sanctioned for 3 year (s) work. Now Rs. 6,51,800/- will be transferred through e-Pradan system to Burdwan University. A/C No. 420110100019490 (SB), IFSC CODE BKID0004201, Mobile No. 9475057548. Strict observation of G.O. No. 5400-F(Y), Dtd. 25/06/2012 in case of any procurement and maintain accepted norms in JRF recruitment process.
19. Total released amount is within the Budget Provision of the above mentioned head of account during 2015 - 2016
20. This order issues in exercise of the power delegated under Finance Department Memo. No. 460-F.B. dated 21.07.2015 with the concurrence of Finance Deptt. vide Gr. F.A. Branch' U.O. No. 688 F.A./Education Date 05/10/2015

Sd/-  
OSD

Science & Technology



Memo No:687(Sanc.)/ST/P/S&amp;T/1G-20/2014

Memo Date:03/12/2015

Copy forwarded for Information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. OSD AND DDO, DEPTT.OF SCIENCE AND TECH.
5. Pay & Accounts Officer-III, PAO-III
6. Dr. Amal Satpathi, PSO, DST.
7. Shri S. Roy, SSO, DST.
8. Registrar, Burdwan University, Golopbag, Rajbati, Burdwan-713104.
9. Dr. Anupam Basu, Deptt. of Zoology, Burdwan University, Rajbati, Burdwan-713104.
10. H.A. DST      11) Guard File.      12) Shri Soumyajit Mukherjee, JSO, DST.

OSD  
3/12/15

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## FINAL BUDGET (Summary)

DATED: 3/12/2015

Item	1 <sup>st</sup> year Rs.	2 <sup>nd</sup> , Year Rs.	3 <sup>rd</sup> , year Rs.	TOTAL Rs.
<b>A. Recurring</b>				
1. Remuneration of 1 JRF @Rs. 12000/- pm +1800/- HRA +100/- (Medical) = 13900/pm [for 1st and 2nd. year]	166800	166800	193200	526800
SRF @Rs. 14000/-pm (Medical) + 2000/- (HRA) +100/- = 16100/pm [for 3rd. year]				
2. Consumable [reagents, PCR kits, agarose etc.	250000	250000	250000	750000
3. Sequencing and service [out source]	100000	100000	100000	300000
4. Travel and Field Expenses	10000	10000	10000	30000
5. Report preparation, documentation and Publication	15000	25000	25000	65000
6. Stationary and postage	10000	10000	10000	30000
<b>B. Non - recurring</b>				
<b>Equipment:</b> -Power supply of Gel Apparatus	100000			100000
<b>TOTAL</b>	<b>651800</b>	<b>561800</b>	<b>588200</b>	<b>1801800</b>



No. BT/PR20699/MED/30/1748/2016  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 19/01/2018

**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: "**Study on the role of TLR-4 signaling in breast cancer progression**" for a period of 3 Year 0 Month at a total cost of Rs. **8130600** (Rupees Eighty One Lakhs Thirty Thousand Six Hundred Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "Study on the role of TLR-4 signaling in breast cancer progression"

**2.2 Details of the Investigators:**

**Dr. Anupam Basu**  
ASSOCIATE PROFESSOR  
Centre for Molecular Biology and  
Human Genetics,  
The University of Burdwan  
Department of Zoology, Golapbag,  
Durgapur West Bangal, West Bengal,  
713104

**CO-PI:**

**Dr. Ashim Mukhopadhyay**  
Associate Professor  
Department of molecular and Human Genetics  
Banaras Hindu University  
Department of Molecular & Human Genetics  
Banaras Hindu University, Varanasi India,  
221005, Uttar Pradesh

**2.3 Objectives:**

1. Effect of TLR4 stimulation on the proliferation of different types of breast cancer cells cultured alone and in co-cultured with macrophage.
2. Effect of TLR4 stimulation on the EMT changes and invasiveness of breast cancer cells cultured alone and in co-cultured with macrophage
3. Effect of TLR4 stimulation on the intracellular proinflammatory and inhibitory cytokine production and signalling thereof at different types of breast cancer cells and macrophages.

*Generated through ePromIS*

**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. **8130600/-** (Rupees Eighty One Lakhs Thirty Thousand Six Hundred Only) as per details given below :

Budget Head	Year I	Year II	Year III	Total (Rs.)
Equipment	4431000.00			4431000.00
Manpower	331000.00	133000.00	766000.00	1029600.00
Overhead	50000.00	50000.00	50000.00	150000.00
Contingency	20000.00	20000.00	20000.00	60000.00
Travel	20000.00	20000.00	20000.00	60000.00
Consumables	800000.00	800000.00	800000.00	2400000.00
<b>Total (Rs.)</b>	<b>5651000.00</b>	<b>1220000.00</b>	<b>1259600.00</b>	<b>8130600.00</b>

**2.6 Equipment:**

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

**2.7 Manpower:**

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

**3. Head of Account:**

The Non-Recurring expenditure involved is debitable to

<b>Demand No. 85</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2017-2018
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
<b>3425.60.200.29.17</b>	Assistance for Research and Development
<b>3425.60.200.29.17.35</b>	Grants for creation of capital assets



Ref. No. BIRAC/BT/AIR0317/PACE-12/17

Dated : 6-12-2018

Sub: Funding of Project entitled "Development of field based rapid hemoglobinopathy - Thalassemia carrier screening kit" for funding under **ACADEMIC INNOVATION RESEARCH (AIR)** under Promoting Academic Research Conversion to Enterprise (PACE).

**GRANT-IN-AID LETTER AGREEMENT**

This Grant-in-aid Letter Agreement (hereinafter called as "GLA") is between Biotechnology Industry Research Assistance Council, a Government of India enterprise, incorporated under the Companies Act, 2013 having its office at 1st Floor, MTNL Building, 9, CGO Complex, Lodhi Road, New Delhi-110003 (the "BIRAC") and the entities mentioned below for research proposal entitled "Development of field based rapid hemoglobinopathy - Thalassemia carrier screening kit".

**1. Recipient(s) and Designated Project Investigator(s):**

S. No.	Recipient(s)	Designated Project Investigator
1	The University of Burdwan, an Institute having its office at Golapbag, East Burdwan, West Bengal, 713104, hereinafter referred to as the "Fund Recipient" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees).	Dr. Anupam Basu Professor, Dept. of Zoology, The University Of Burdwan Golapbag, East Burdwan -713104 Email: <a href="mailto:abasu@zoo.buruniv.ac.in">abasu@zoo.buruniv.ac.in</a>

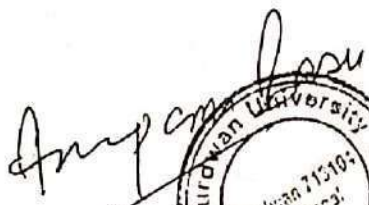
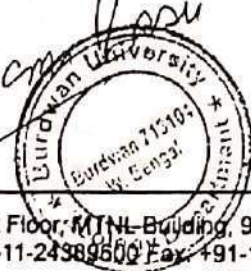
**2. Aims & Objectives:**

The detailed aims and the objectives that are to be executed by the aforesaid are as per the detailed Project document, submitted including revisions/modifications incorporated therein (hereinafter called as "Project") and appended herein as Schedule 3.

The main objectives proposed to be achieved from the project are enumerated hereunder:

- 1) Analysis of the performance of developed Hemoglobinopathy carrier screening kit to determine the sensitivity, specificity for different types of quantitative hemoglobinopathy carriers

**3. Project Duration:** The Recipient shall complete the Project within the stipulated period of **18 Months** from the date of acceptance of the GLA by all the recipients. In the event the Parties affix their signatures to this GLA on separate dates, the GLA shall be effective from the date on which the last set of signature is affixed thereto "**Effective Date**". Project Duration is subject to the Change order(s) issued by the BIRAC from time to time.

*Anupam Basu*  
  


Page 1 of 14

  
New Delhi

4. Project Implementation Site:  
The University Of Burdwan, Golapbag, East Burdwan -713104, West Bengal

5. Project Cost and Contribution: The total estimated cost of the Project is Rs. 35.09 Lakhs (Rupees Thirty-Five Lakhs and Nine Thousands only). The contribution of BIRAC is Rs. 35.09 Lakhs (Rupees Thirty-Five Lakhs and Nine Thousands only) as Grant-in-aid to the The University of Burdwan, West Bengal on the terms and conditions detailed in this GLA.

6. BIRAC Budget break-up:

Details	Support under CRS to	Total BIRAC Support
	The University Of Burdwan	
		(Rs. in Lakhs)
Non-recurring	3.51	3.51
Recurring	31.58	31.58
Total	35.09	35.09

Non Recurring items	Contribution by BIRAC to The University Of Burdwan	Total
Equipments	3.51	3.51
Total	3.51	3.51

Recurring items	Contribution by BIRAC to The University Of Burdwan	Total
Manpower	3.06	3.06
Consumables	21.00	21.00
Travel	0.52	0.52
Outsourcing	6.00	6.00
Contingency & Other Costs	1.00	1.00
Total	31.58	31.58

*Amrjyoti Basu*  

 Burdwan University  
 Burdwan 713  
 W. Bengal  
 Zonal Depository


 BIRAC  
 New Delhi  
*Pk S...*



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



Dr. Roena Das  
Professor  
Department of Hematology  
Post Graduate Institute of Medical Education and Research  
Department of Hematology  
PGIMER, Chandigarh-160012, Chandigarh - 160012,  
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  
Bardhaman, Bardhaman - 713104, West Bengal

Dr. Sharmistha Chakraborty  
Medical Officer  
Thalassaemia Control Unit,  
Burdwan Medical College and Hospital  
Natanpally(East) Nari Colony  
Burdwan-1, West bengal, Bardhaman - 713101, West  
Bengal

### 2.3 Objectives:

1. To establish a genetic diagnostic and prognostic algorithm for patients with Thalassaemia syndrome in northern and eastern Indian populations
2. To investigate the role of the locus control region (LCR) of HBB gene in determining phenotypic heterogeneity and modulating HbF levels
3. To elucidate differences in modifier genes between the subjects of transfusion-dependent (i.e. thalassaemia major) and non-transfusion dependent (i.e. thalassaemia 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:





Institute	Year I	Year II	Year III	Total Cost(Rs )
1. Post Graduate Institute of Medical Education & Research	1608200	1608200	1608200	4824600
2. The University of Burdwan	3495521	1941800	1941800	7379121
<b>Total (Rs.)</b>	<b>5103721</b>	<b>3550000</b>	<b>3550000</b>	<b>12203721</b>

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs )
<b>1. The University of Burdwan</b>				
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
<b>Total (Rs )</b>	<b>3495521.00</b>	<b>1941800.00</b>	<b>1941800.00</b>	<b>7379121.00</b>
<b>2. Post Graduate Institute of Medical Education &amp; Research</b>				
Manpower	403200.00	403200.00	403200.00	1209600.00
Overhead	100000.00	100000.00	100000.00	300000.00
Consumables	1000000.00	1000000.00	1000000.00	3000000.00
Contingency	75000.00	75000.00	75000.00	225000.00
Travel	30000.00	30000.00	30000.00	90000.00
<b>Total (Rs )</b>	<b>1608200.00</b>	<b>1608200.00</b>	<b>1608200.00</b>	<b>4824600.00</b>

**2.6 Equipment:**

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

**2.7 Manpower:**

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

**3. Head of Account:**

The Non-Recurring expenditure involved is debitable to:

As per Rule 236  
inspection by the  
provision of the  
whenever the Institut  
9. If the P.

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
3425.60.200.29.17.35	Grants for creation of capital assets

The Recurring expenditure involved is debitale 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:

- 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
- Grantee Institution is a public funded organization.
- The equipment sanctioned under the project should be purchased within 18 months from the date of the release of the grant.
- 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.




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 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](http://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
- 11 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, Thalassaemia Control Unit, Burdwan Medical College and Hospital, Natunpally (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'

GOVERNMENT OF WEST BENGAL  
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Date: 06/02/2024

Memo No : 2094(Sanc.)/STBT-11012(27)/3/2024-ST SEC

Sanction Order for Grant-in-Aid in Cash

Demand No. : 76

Department Code : BS

Financial Year : 2023 - 2024

1. Sanctioning Authority: SPECIAL SECRETARY Science & Technology and Biotechnology
2. Recipient of Grant: The University of Burdwan.
3. Category of the recipient of Grant: Grantee Institution
4. Amount Sanctioned: Rs.895000/-  
Rupees Eight Lakh Ninety Five Thousand Only.
5. DDO Code :- CAFSTA003
6. DDO Designation: Registrar, Science & Technology & Biotechnology Deptl.
7. Department Code: BS-Science & Technology and Biotechnology
8. Head of Account Code :76-3425-60-200-010-31-02-V
9. Scheme Name Financial Assistance to other Scientific Bodies for undertaking Scientific
10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III
11. Type of Grant:- Recurring
12. Utilization Certificate Required or Not: Yes
13. Purpose of Grant : R&D project entitled- An integrated pest management approach to control the lepidopteran pest, *Heliothis armigera* (H&Bner) feeding on bottle gourd (Lau) plant.
14. Applicable T.R Form No:- TR Form No.31
15. An amount of Rs.895000/-(Rupees Eight Lakh Ninety Five Thousand Only.) is hereby sanctioned for payment of Grant to the recipients as per SI.No.2 from the Head of Account as stated in SI.No.8 above against the Budget Provision of the Financial Year 2023 - 2024. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.
16. Total released amount is within the Budget Provision of the Financial Year, 2023 - 2024
17. This order issues in exercise of the power delegated under Finance Department Memo. No. 990-F.B. dated 12.12.2023 with the concurrence of Finance Deptl. vide Gr. F.A. Branch U.O. No. 184/FA Date 05/02/2024
18. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.
19. Remarks: Present release Rs. 8,95,000/- is the 1st installment of the total project cost of Rs. 22,49,990/- sanctioned for 3 year (s) work. will be transferred through e-Pradan system to The University of Burdwan. A/C No.- 420110100019490 (SB). IFSC CODE-BKID0004201, Mobile No.-9433734183.

*Sdf*

SPECIAL SECRETARY

Science & Technology and Biotechnology



Memo No: 2094(Sanc.)/STBT-11012(27)/3/2024-ST SEC

Memo Date:06/02/2024

Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Registrar, Science & Technology & Biotechnology Dept.
5. Pay & Accounts Officer-III, Calcutta PAO-III
6. CSO
7. Financial Advisor, DSTBT.
8. S. Roy, SSO.
9. Finance Officer, The University of Burdwan, Rajbati, Burdwan-713104.
10. Dr. Anandamay Barik, P.I. of the project. The University of Burdwan, Rajbati, Burdwan-713104. (Strictly follow Annexure-A).

  
SPECIAL SECRETARY.

**Government of West Bengal**  
**Department of Science & Technology and Biotechnology**  
**"Vigyan Chetana Bhavan", Salt Lake,**  
**DD 26/B, Sector-I,**  
**Kolkata - 700064.**

**Annexure-A**

**File No.:** STBT-11012(27)/3/2024-ST SEC

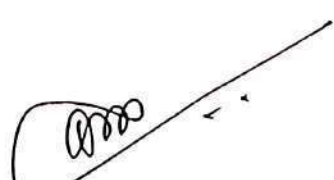
**Name of the P.I. with Institute:** Dr. Anandamay Barik, P.I. of the project, The University of Burdwan.

**General Guideline must be followed by the P.I.:**

1. The selection of JRF/SRF shall be made as per guidelines of this Deptt. (Science & Technology).
2. The remuneration to the JRF/SRF & project Asstt. Should be disbursed as per FD Memo No. 6261-F(Y) dt. 27.06.2011.
3. Follow FD Memo No. 5400-F(Y) dt. 25.06.2012 and Memo No. 3060-F(Y) dt. 11.06.2014 where applicable.
4. The UC along with the audited statement of expenditure should be obtained within prescribed time limit / before release of further installment of grant.
5. Follow the Budget break-up given below:

**SUMMARY (in Rupees)**

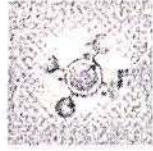
Sl no.	Item	BUDGET			
		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
A.	<b>Non Recurring - Minor Permanent equipment:</b>				
	<b>1. Analytical Balance</b>	250000	0	0	250000
B.	<b>Recurring</b>				
1.	Remuneration for one JRF @ Rs.25000/- per month for two years, and one SRF on the third year @ Rs. 30000/- per month, if the same JRF continues or for a JRF who has completed two years. (As per order no.316/ST/P/S&T/Misc-2/2006(Part-1 dated:1.3.2021).	300000	300000	360000	960000
2.	Consumables : Chloroform, methanol, diethyl ether, GC-FID columns (HP-5, HP-1. SE-30), dichloromethane, silica gel, different alkane standards, different fatty acid standards, different volatile organic compound (VOC) standards, petroleum ether, hexane, glass goods, different chemicals, etc.	300000	300000	220000	820000
3.	Travel - For research purpose (T.A. for attending seminar and conference not allowed).	20000	20000	20000	60000
4.	Other Expenditure : Outsourcing for protein analysis, MALDI analysis, LC-MS analysis, different analysis, etc.			70000	70000
5.	Postage, stationary, report preparation including experimental photographs.	15000	20000	24990	59990
6.	Other incidental expenditure	10000	10000	10000	30000
	<b>TOTAL (A+B)</b>	<b>895000</b>	<b>650000</b>	<b>704990</b>	<b>2249990</b>
<b>Rs. 22,49,990/- only for 3 years</b>					

  
Special Secretary to the Govt. of W.B.





सूचना का  
अधिकार



MINISTRY OF  
SCIENCE & TECHNOLOGY

Dr. Arun Kumar Rawat  
Advisor  
Phone: 24369614 (O)  
Email : akrawat.dbt@nic.in

BT/PR28574/AAQ/3/920/2018

Dated: 18.06.2019

Dear Dr. Ghosh,

I am pleased to convey the approval of this Department for the multi-centric project entitled "Prebiotic feed supplement for growth improvement of Indian major carps, *Labeo rohita*, *Cirrhinus mrigala* and *Catla catla* under composite culture system: A gut microbiome and nutrigenomics based approach". Please find enclosed sanction order of Rs. 91.4294 lakhs (Rs. 36.2612 lakhs for Burdwan University component and Rs. 55.1682 lakhs for Visva Bharati University component) and release of first installment of Rs. 20.5076 lakhs for your component (other formats required to be furnished to this Department from time to time has been sent to you through e-mail).

You are requested to go through the terms and conditions carefully and the date of sanction of the project is the starting date of the project. The first release of grant is being made with a condition that the **Memorandum of Agreement**, in Rs.100/- stamp paper, would be signed by the concerned party and returned back to the Department within three months for execution. Clearance of Animal Ethics committee or any other regulatory body may be obtained before initiating such work, if needed. A copy of clearance may also be submitted to the Department accordingly. The progress of the project should be reviewed by the group of investigators once in six months and DBT should be intimated in advance. The financial assistance provided for the project should exclusively be used for the specific purpose for which they are provided. This should be as per the approved budget for specific head and for a stipulated period only. **Approved equipment should be done as per provisions of GFR 2017 & manual of procurement of goods & services 2017** and balance available, if any, under Non-recurring head after completion of first year will be deducted while making second year release. **The manpower approved for the project should be appointed strictly as per guidelines.** This department neither will bear any over expenditure and any expenditure after the last date of the project nor any additionality will be provided. Unspent amount as on the last day of the project should be surrendered to DDO, DBT, New Delhi.

With kind regards,

Yours sincerely,

(A.K. Rawat)

Dr. Koushik Ghosh,  
Associate Professor,  
Department of Zoology,  
The University of Burdwan,  
Bardhaman-713104, West Bengal



No.14/13/2012-ERS/RE  
Government of India  
Ministry of Environment and Forests  
(RE Division)

Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110003  
Dated: 18<sup>th</sup> July, 2013

To  
The Pay & Accounts Officer  
Ministry of Environment & Forests  
New Delhi.

Subject: Release of Grants-in-Aid to the Registrar, The University of Burdwan, P.O. Rajbati, Burdwan-713104, West Bengal for the year 2013-14- Plan/Recurring.

Sir,

I am directed to convey the sanction of the President of India to the approval of the research project entitled "Systematics and Life history strategies of strepsipteran parasitoids (Insects: Strepsiptera) with special emphasis on stylopisation of pests of rice Agro-ecosystem in West Bengal" entrusted to Dr. Niladri Hazra, Associate Professor, Department of Zoology, The University of Burdwan, P.O. Rajbati, Burdwan-713104, West Bengal at a total cost of Rs. 32,03,751/- (Rupees Thirty Two Lakh Three Thousand Seven Hundred and Fifty one only) for a period of three years, as per the break-up given below:-

Heads	1 <sup>st</sup> year (Rs)	2 <sup>nd</sup> Year (Rs.)	3 <sup>rd</sup> Year (Rs.)	Total (Rs.)
1) Salary	2,20,800	2,20,800	2,48,400	6,90,000
a) JRF(1)@Rs.16000-16000-18000 and HRA @15%				
b) Field Assistant (1) @Rs.6000 (Fixed)	72,000	72,000	72,000	216,000
2) Permanent Equipment: Stereo zoom trinocular microscope with camera and other minor equipments such as Programmable Environmental Chamber, Stabiliser, Light traps, Net House	11,03,651	NIL	NIL	11,03,651
3) Expendables	90,000	60,000	50,000	2,00,000
4) Travel	1,40,000	1,10,000	1,00,000	3,50,000
5) Dissemination of Research Work	NIL	NIL	NIL	NIL
5) Contingency	85,440	23,140	23,520	1,32,100
6) Institutional Charges	3,25,360	92,560	94,080	5,12,000
Grand Total	20,37,251	5,78,500	5,88,000	32,03,751

2. Sanction of the President is also hereby conveyed for the release of Rs. 20,36,811/- (Rupees Twenty Lakh Thirty Six Thousand Eight Hundred and Eleven only) towards Grants-in-Aid to the Registrar, The University of Burdwan, P.O. Rajbati, Burdwan-713104, West Bengal for the above research project for the financial year 2013-14 Plan/Recurring being 1<sup>st</sup> installment of grants as per break-up given below:-

a) Salary	:	2,92,800
b) Permanent Equipment	:	11,03,651
c) Expendable	:	90,000
d) Travel	:	1,40,000
e) Dissemination of Research Work	:	NIL
f) Contingencies	:	85,000
g) Institutional Charges	:	3,25,360
<b>Total</b>	:	<b>20,36,811</b>



SR/SO/AS-135/2012

**SCIENCE & ENGINEERING RESEARCH BOARD (SERB)**

(A statutory body under the Department of Science & Technology, Govt. of India)

Technology Bhawan  
New Mehrauli Road  
New Delhi – 110016

Dated: 31-12-2013.

**ORDER**

**Subject:** Financial Sanction of the research project entitled ““Biodiversity and biogeographical patterns of non-biting midges (*Diptera: Chironomidae*) in streams of the Sikkim of the Himalaya hotspot” by Dr. Niladri Hazra, Associate Professor, Department of Zoology, The University of Burdwan, P.O.Rajbati, Dist. Burdwan - 713 104, West Bengal - Release of grant

Sanction of the Science & Engineering Research Board (SERB), is hereby accorded to the above-mentioned project at a total cost of Rs.30,14,600/- (Rupees Thirty lakh fourteen thousand and six hundred only) with break-up of Rs.13,40,000/- under non-recurring head and Rs.16,74,600/- under recurring head for a duration of three years. The items of expenditure for which the total allocation of Rs.30,14,600/- has been approved for a period of three years, are given below:

SI. NO	Head	(Amount in Rs.) Total
<b>A</b>	<b>Non-recurring (Capital Items)</b>	
1.	<b>Equipment</b>	
	1.Stereozoom trinocular microscope with accessories-1	
	2.Programmable environmental chamber – 1	
	3.Light traps – 4	
	4.DO meter with probe -- 1	
	5.Multiparameter pen – 2	
	6.Stabiliser – 2	
A'	Total Capital	13,40,000/-
<b>B</b>	<b>Recurring Items</b>	
1.	<b>General – A</b>	
	<b>i) Manpower</b>	
	a) JRF – 1 (as per O.M.No.A 20020/11/97-IFD, Dated 31st March, 2010.)	
	b) Attendant – 1, @Rs.8,000/- PM (consolidated)	7,89,600/-
	<b>ii) Consumables</b>	1,20,000/-
	<b>iii) Travel (also include cost for two monitoring meetings)</b>	1,30,000/-
	<b>iv) Contingencies (field work involved)</b>	1,35,000/-
2.	<b>General - B</b>	
	<b>(i) Overhead Charges (including cost for maintenance of equipments)</b>	5,00,000/-
B'	Total (General)	16,74,600/-
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>30,14,600/-</b>

2. Sanction of the Science & Engineering Research Board (SERB), is also accorded to the payment of Rs.13,40,000/- under 'non recurring head' and Rs.3,00,000/- under 'recurring head' to the Registrar, The University of Burdwan, P.O. Rajbati, Dist. Burdwan – 713 104, West Bengal.

3. The expenditure involved is debited to "Fund for Science & Engineering Research"

for the year 2013-14 (plan expenditure under non-recurring head) – Rs.13,40,000/-

& for the year 2013-14 (plan expenditure under recurring head) – Rs.3,00,000/-

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No.SERB/F/5942/2013-14 dated: 18-12-2013.

5. Sanction of the grant is subject to the "Terms and Conditions of the Grant", available at the website <[www.serb.gov.in](http://www.serb.gov.in)>

Contd...2/-

9970E8886  
50E3E6009



**WEST BENGAL BIODIVERSITY BOARD**  
(Department of Environment, Government of West Bengal)

Memo No. : 1005 /3K(Bio)-2/2016

Date : 07/12/2018

**From:** Dr. S. N. Ghosh  
Sr. Research Officer

**To:** Dr. Niladri Hazra  
Associate Professor  
Department of Zoology,  
The University of Burdwan,  
Golapbag, P.O.: Rajbati,  
Burdwan, Pin - 713104, W. B.

**Sub:-** Approval for the proposal for executing the project 'Faunistic diversity and ecology of *Culicodini midges* (Diptera : Ceratopogonidae) from the Lower Gangetic Deltaic Plains of West Bengal, India'.

Sir,

With reference to above I am directed to convey approval of the State Board for the above cited project and sanction of financial assistance of Rs. 2,32,100/- (Rupees Two lakh Thirty Two thousand One hundred Only) to meet the 2<sup>nd</sup> year's project cost under the following terms & conditions.

**A) Name of the Project :**

Faunistic diversity and ecology of *Culicodini midges* (Diptera : Ceratopogonidae) from the Lower Gangetic Deltaic Plains of West Bengal, India.

**B) Scope of the Project:**

- To document the diversity and abundance of *Culicodini midges* (Diptera : Ceratopogonidae) of the Lower Gangetic Plains of West Bengal.
- To explore and identify different habitats for juveniles of biting midges.
- To determine the correlation between seasonal abundance of the midges and meteorological data.
- To assess the potentiality of *Culicodini midges* as vector of veterinary diseases.
- To suggest the measures for controlling these midges.
- To throw light on the microhabitat and population ecology.
- To highlight earlier studies in this group in India, particularly from W.B.

**C) Area to be studied:** The lower Gangetic Deltaic Plains of West Bengal.

**D) Duration of the Project:** 2 (two) years - [1<sup>st</sup> year's activities completed].

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**E) Financial Assistance for the Project [2<sup>nd</sup> & final year]**

- a) Rs. 2,32,100/- (Rupees Two lakh Thirty Two thousand One hundred only) inclusive of all.
- b) No additional payment will be made for any other purpose.

**F) Payment Terms :**

Payment shall be made by A/c. Payee cheque only against **Claim and Money Receipt (in advance)**.

- a) Rs. 2,00,000/- (Rupees Two lakh only) will be released as the 1<sup>st</sup> installment for executing the 2<sup>nd</sup> year's project work.
- b) An report of the first 6 months project work has to be submit.
- c) Rs. 32,100/- (Rupees Thirty Two thousand One hundred only) will be released after submission of the comprehensive **Final Project Report (1<sup>st</sup> & 2<sup>nd</sup> year)** along with the audited **Statement of Expenditure and Utilization Certificate** for the entire project amount.

**G) Other Terms & Conditions :**

- a) The Board has no liability & responsibility for any recruitment for this project work.
- b) No instrumentation as well as infrastructural support will be extended by the Board.
- c) During the course of the project the terms & conditions of the Board should be maintained strictly.
- d) The data collected during the project, being the Board's property, its uses, reproduction for publication in any form will require prior approval from the Board; otherwise the Board may take necessary action.
- e) Purchase of any article during the course of the project should be adhered by the tender policy of the state government. Proper stock is to be maintained for the same. The Board may ask for submission of the article after termination of the project work as per discretion.
- f) Soft copy of the Final Report must accompany along with the hard copy.
- g) In case of dispute, if any, decision of the Member Secretary, West Bengal Biodiversity Board shall be final and binding.
- h) The duration of the project will be calculated form the month of March, 2018.

**H) Termination :**

- a) West Bengal Biodiversity Board shall have the right to change the scope of work including termination of work as deemed fit in case of any breach of contract.
- b) If at any time it is noticed that the project is discontinued without prior intimation to the Board, the project may be cancelled without showing any further reason.

Kindly send an acceptance of this approval letter within 15 days from the date of issuing this letter along with a **Money Receipt (Advance copy) & Claim** for releasing the first installment of the sanctioned amount for the final year's project cost.



( S. N. Ghosh )  
Senior Research Officer

FILE NO. CRG/2018/004076  
**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: 30-Jul-2019

**ORDER**

Subject: Financial Sanction of the research project titled "ELUCIDATING THE SPECIES COMPLEX OF BITING MIDGES CULICOIDES LATREILLE (DIPTERA: CERATOPOGONIDAE) OF VETERINARY IMPORTANCE USING INTEGRATIVE TAXONOMY" under the guidance of Prof. Abhijit Mazumdar, Zoology, Burdwan University, Dde complex, Golapbag, post: rajbati, dist: burdwan, Bardhaman, West bengal-713104 and by Dr. NILADRI HAZRA, Associate Professor, Zoology, Burdwan 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. 4030535/- (Rs. Forty Lakh Thirty Thousand Five Hundred and Thirty Five Only) with break-up of Rs. 1703415/- under Capital (Non-recurring) head and Rs. 2327120/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 4030535/- has been approved are given below:

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	<b>1703415</b>
1	Equipment -> Cold centrifuge -> Freezer (-20°C) -> Gel electrophoresis apparatus -> Laboratory water bath -> Minicentrifuge -> Thermal cycler (PCR amplifier) -> PC with LGA 1151 i5-6600 processor, 8GB Heat fixing, Memory DDR3 8GB, ROM 1 TB with UPS -> Minivortex Mixer -> Trinocular DIC microscope with camera -> UV Light traps -> UV Transilluminator	
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>1703415</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I: (Manpower) Recurring - II: ( Consumables, Travel, Contingencies, Other Cost) Recurring - III: Scientific Social Responsibility	1257120 650000 60000
2	Recurring - IV: (Overhead Charges)	360000
<b>B'</b>	<b>Total (Recurring)</b>	<b>2327120</b>
<b>C</b>	<b>Total cost of the project (A + B')</b>	<b>4030535</b>

2. Sanction of the SERB is also accorded to the payment of Rs. 1700000/- (Rupees Seventeen Lakh only) under 'Grants for creation of capital assets' and Rs. 815000/- (Rupees Eight Lakh Fifteen Thousand only) under 'Grants-in-aid General' to Registrar, Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan being the first installment of the grant for the year 2019-2020 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 Animal Sciences)

4. The Sanction has been issued to Burdwan University, DDE Complex, Golapbag, Post: Rajbati, Dist: Burdwan with the approval of the competent authority under delegated powers on 29 July, 2019 and vide Diary No. SERB/F/3497/2019-2020 dated 30 July, 2019

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://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. 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.

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

10. The release amount of Rs. 2515000/- (Rupees Twenty Five Lakh Fifteen 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:



GOVERNMENT OF WEST BENGAL  
Department of Science & Technology  
Bikash Bhawan, 4th floor

Tel: 25693717

Fax:

Date: 24/03/2018

Memo No : 227(Sanc.)/ST/P/S&T/2G-33/2017

Sanction Order for Grant-in-Aid

Demand No. : 70

Department Code : ST

Financial Year : 2017 - 2018

1. Sanctioning Authority: Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)
2. Name of the Grantee Institution: The University of Burdwan.
3. Address of the Grantee Institution: Rajbati, Burdwan-713104.
4. Category of Grantee Institution: Education Institution
5. Amount Sanctioned: 878900 (in words Rs. Eight Lakh Seventy Eight Thousand Nine Hundred Only. )
6. Name of the DDO: Registrar & DDO, Higher Education Department
7. Department Code: ST-Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)
8. Name of the Treasury/PAO:Pay & Accounts Officer-III, PAO-III
9. Nature of Grant (a) Recurring or Non-recurring: Recurring  
(b) Capital or Revenue: Revenue
10. Condition of Grant Utilisation Certificate required: Yes
11. Category of Grant : Education Institution
12. Purpose of Grant : R&D project entitled- Fam-made aquafeeds using non-conventional plant feedstuffs: nutrient evaluation & Bio-processing for formulation of carp diets.
13. An amount of Rs 878900 is hereby allotted for this period in favour of the Registrar & DDO, Higher Education Department From the head of account 3425-60-200-SP-001-31-02-V from the budget provision of the financial year,2017 - 2018 under Demand No.70 Department Code ST and payable to Grantee Institution or by A/c payee cheque/By-Transfer Credit / ECS.
14. Head of Account Code :3425-60-200-SP-001-31-02-V
15. Name of the Scheme :Financial Assistance to other Scientific Bodies for undertaking Scientific Projects/Surveys/Research/Training and Science Awareness & Science Popularisation programme (State Share)
16. The amount will be drawn in T.R. from No.31/32/43 (As applicable as per WBTR)
17. The sanctioned amount will be payable to The University of Burdwan. by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque / ECS as applicable.
18. Remarks: Present release is the 1st installment of the total project cost Rs. 15,97,300/- sanctioned for 3 year (s) work. Rs. 8,78,900/- will be transferred through e-Pradan system to The University of Burdwan. A/C No.-420110100019490 (SB), IFSC CODE-BKID0004201, Mobile No.-9434251606.
19. Total released amount is within the Budget Provision of the above mentioned head of account during 2017 - 2018
20. This order issues in exercise of the power delegated under Finance Department Memo. No. nullwith the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 293 F.A./Education Date 23/03/2018

Sd/-

OSD & E.O. DEPUTY SECRETARY

Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)

Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Registrar & DDO, Higher Education Department
5. Pay & Accounts Officer-III, PAO-III
6. J.S. (Budget), Deptt. Of HE, S&T and BT.
7. PSO, Science & Technology.
8. Dr. A.K.Banerjee, SSO, Science & Technology.
9. Finance Officer, The University of Burdwan, Rajbati, Burdwan-713104.      11) Shri Soumyajit Mukherjee, SSO, Science & Technology.
10. Dr. Koushik Ghosh, P.I. of the project, The University of Burdwan, Rajbati, Burdwan-713104. (Strictly follow annexure-A).      12) Guard File.

  
OSD & E.O. DEPUTY SECRETARY