

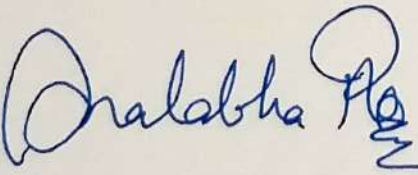
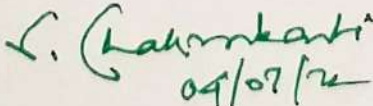
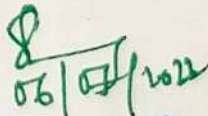
GFR 12-A
[See Rule 238 (1)]
UTILIZATION CERTIFICATE (UC) FOR THE YEAR 2021-22
In respect of RECURRING
as on ...31/03/2022.. to be submitted to SERB
Is the UC Audited.....(Provisional/Audited)
(To be given separately for each financial year ending on 31st March)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance underCRG.....(CRG/NPDF/ECR.....etc.) (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure-I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure-II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/ specification).
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries in enclosed of Annexure-II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

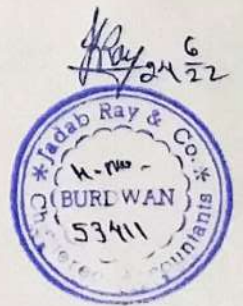
Place: Burdwan

 Signature of PI:.....	 Signature with Seal:..... Name: Chief Finance Officer (Head of Finance)	R  Signature with Seal:..... Name: THE UNIVERSITY OF BURDWAN BURDWAN 713104 Head of Organisation
---	---	---

(Strike out inapplicable terms)

Dr. Analabha Roy
Assistant Professor
Department of Physics
The University of Burdwan

FINANCE OFFICER
THE UNIVERSITY OF BURDWAN
BURDWAN WEST BENGAL



GFR 12-A
 [(See Rule 238 (1))]
UTILIZATION CERTIFICATE (UC) FOR THE YEAR...2021-2022.....

in respect of NON-RECURRING
as on...31/03/2022...to be submitted to SERB
Is the UC ...Audited....(Provisional/Audited)
(To be given separately for each financial year ending on 31st March)

1. Name of the grant receiving Organization : The University of Burdwan
2. Name of Principal Investigator (PI): Analabha Roy
3. SERB Sanction order no. & date: CRG/2018/004002 Dt. 08/05/2019
4. Title of the Project: Universality in the Nonequilibrium Dynamics of Nonintegrable Spin Systems
5. Name of the SERB Scheme : CRG
6. Whether recurring or non-recurring grants : **NON-Recurring Grants**
7. Grants position at the beginning of the Financial year (Grants released by SERB): NIL

- (i) Cash In Hand/Bank /Carry forward from previous financial year : INR 15,69,170
 (ii) Others, If any : NIL

(iii) Total : INR 15,69,170/-

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

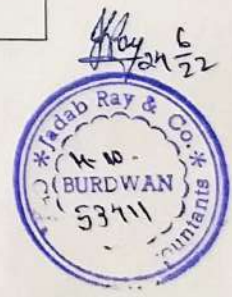
Unspent Balances of Grants received Previous years (figure as at Sl. No. 7(III))	Interest Earned thereon	Interest deposited back to the SERB	Grant received during the year			Total Available funds (1+2+3+4)	Expenditure incurred	Closing Balances (5-6)
			Sanction No. (i)	Date (ii)	Amount (iii)			
1	2	3	4	5	6	7		
15,69,170/-	9765/-	NIL	CRG/2018/004002	NA	NIL	15,78,935/-	12,07,500/-	3,71,435/-

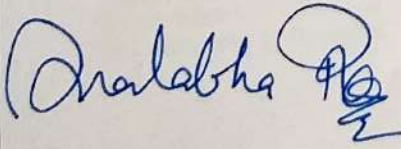
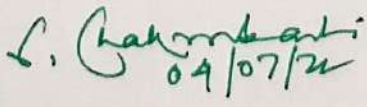
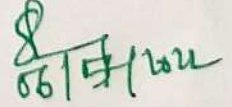
Component wise utilization of grants:

Grant-in-aid-General	Grant-in-aid-creation for capital assets	Total
Nil	12,07,500 - Purchase of Supercomputer: PARAM SHAVAK DLGPU System with 1 Nvidia RTX-5000 GPU	12,07,500

Details of grants position at the end of the year

- (i) Cash in Hand/Bank : INR 3,71,435/-
 (ii) Refunds to SERB, if any : NIL
 (iii) Balance (Carry forward to next financial year) : INR 3,71,435/-



 Signature of PI:.....	 Signature with Seal:..... Name: Chief Finance Officer (Head of Finance)	R  Signature with Seal:..... Name: THE UNIVERSITY OF BURDWAN BURDWAN - 713104 Head of Organisation
---	---	--

Dr. Analabha Roy
 Assistant Professor
 Department of Physics
 The University of Burdwan

FINANCE OFFICER
THE UNIVERSITY OF BURDWAN
BURDWAN WEST BENGAL

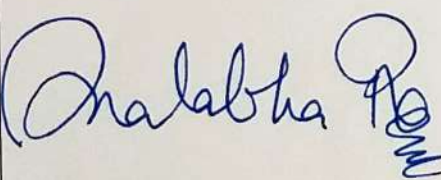
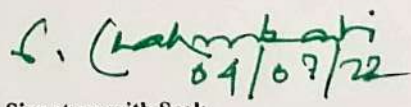
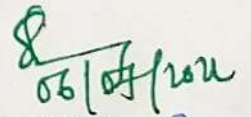
GFR 12-A
[(See Rule 238 (1))]
UTILIZATION CERTIFICATE (UC) FOR THE YEAR 2021-22
in respect of NON-RECURRING
as on ...31/03/2022. to be submitted to SERB
Is the UCAudited.....(Provisional/Audited)
(To be given separately for each financial year ending on 31st March)

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- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance underCRG.....
 (CRG/NPDF/ECR.....etc.) (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure-I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure-II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/ specification).
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries in enclosed of Annexure-II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

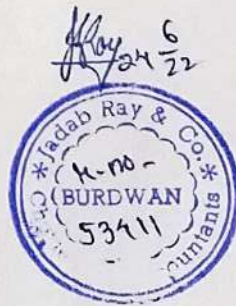
Place: Burdwan

 Signature of PI:.....	 Signature with Seal:..... Name: Chief Finance Officer (Head of Finance)	<p style="text-align: center;">R</p>  Signature with Seal:..... Name: THE UNIVERSITY OF BURDWAN Head of Organisation
---	---	---

(Strike out inapplicable terms)

Dr. Analabha Roy
Assistant Professor
Department of Physics
The University of Burdwan

FINANCE OFFICER
THE UNIVERSITY OF BURDWAN
BURDWAN WEST BENGAL





All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-

110070 Website: www.aicte-india.org



AICTE Training and Learning (ATAL) Academy, (Online FDP)

F.No. 01/AICTE/ATAL-HQ/2020-21/1584127858

Date 12.08.2020

To

The Registrar
University of Burdwan
Bardhaman
West Bengal

Sub: Release of a sum of Rs 93,000 /- for AICTE Training and Learning (ATAL) Academy programme Online FDP of Nine Thrust Areas and Other Emerging Areas.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 93,000 /-** (Rupees **Ninety –Three Thousand** Only) for conduct of online **AICTE Training And Learning (ATAL) Academy Programme Sensors Technology to University of Burdwan, West Bengal** under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

1.	Honorarium for Director	Rs. 10,000/-
2.	Honorarium to Co-ordinator Rs.2000/- per day x 5 days	Rs. 10,000/-
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-
4.	Provision for payment to Lab Attendant engaged during lab practices	Rs. 1000/-
5.	Institutional charges	Rs. 15,000/-
6.	Miscellaneous charges	Rs. 15,000/-
	TOTAL =	Rs. 93,000/-

Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact.

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program with minimum **80% of attendance** and scored **minimum 60% marks** in the test.

IV. Submission of documents by university/institution

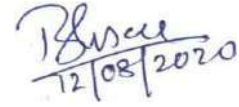
- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme.**
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.

V. General Instructions

- a. **Maximum 200 participants** may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less number of participants depending on the feasibility.
- b. **You are requested to allow new participants and discourage participants who have already done one online ATAL FDP earlier.**
- c. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have **attendance 80% or more** and also **score more than 60% in the test** will be issued a **digital certificate**.
- d. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP. You are also requested to share recording of sessions with AICTE.
- e. **Eligibility for Participants:**
 - (i) The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.
 - (ii) Not more than 30% from Host Institution
- f. If programme is not conducted in the year 2020 only, the released amount, along with interest accrued thereon, has to be returned back to AICTE.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, and date for organizing online AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.

This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,



Regional Officer
Eastern Regional Office, Kolkata

Copy forwarded for information and necessary action to: -

1. Coordinator -**Anindya Bose, University of Burdwan**, ATAL Programme
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-
110070 Website: www.aicte-india.org



AICTE Training and Learning (ATAL) Academy, (Online FDP)

F.No. 01/AICTE/ATAL-HQ/2021-22/1614325011

Date 10.05.2021

To

The Vice-chancellor
The University of Burdwan
Rajbati Burdwan
WEST BENGAL

Sub: Release of a sum of Rs 93,000 /- for AICTE Training and Learning (ATAL) Academy Online FDP.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 93,000 /-** (Rupees **Ninety –Three Thousand** Only) for conduct of online **AICTE Training And Learning (ATAL) Academy FDP GNSS/ NavIC and Applications** to The University of Burdwan, Rajbati Burdwan , under **AICTE Training And Learning (ATAL) Academy**.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs 93,000/- as per detail given as under :

1 Honorarium to Coordinator Rs 10,000/-

2 Honorarium for computer operator Rs 2,000/-

3 Honorarium for experts (Rs.5000/session for 14 sessions) Rs 70,000/-

4 Provision for payment to Lab Attendant Rs 1,000/-

5 Miscellaneous charges (petty expenses not covered above) Rs 10,000/-

TOTAL = Rs.93,000/-

Programme having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact.

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have been approved by coordinator, attended the program with minimum **80% of attendance** and scored **minimum 60% marks** in the test.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme.**
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.

V. General Instructions

- a. **Maximum 200 participants** may be allowed to attend online FDP. Coordinators are free to admit a smaller number of participants depending on the feasibility.
- b. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have **attendance 80% or more** and also **score more than 60% in the test** will be issued a **digital certificate**.
- c. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP. You are also requested to upload recording on youtube of google drive share recording link of sessions with AICTE.
- d. **Eligibility for Participants:**
 - a. The faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.)/School Teachers and staff of host institutions.
 - b. Not more than 30% from Host Institution
- e. If programme is not conducted in the financial year year 2021 only, the released amount has to be returned back to AICTE.
- f. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.
- g. FDP title name, name of coordinator, institute name is not allowed to change without permission however schedule dates may be changed with information ATAL Academy cell and Regional Office.

This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,



18/05/2021

(Dr. Bhupendra Goswami)

Regional Officer,
ERO, Kolkata

Copy forwarded for information and necessary action to: -

1. Dr., Anindya Bose, Coordinator, The University of Burdwan
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**

DST-NRDMS Capacity Building Programme granted to Prof. Biplab Biswas (2019)

No. NRDMS/11/1848/011- 19
Government of India
Ministry of Science & Technology
Department of Science and Technology
(NRDMS)

Technology Bhawan,
New Mehrauli Road,
New Delhi- 110 016
25 March, 2019

Subject:- Financial support for conducting 21 days training Programme on "Geospatial Technologies" under Natural Resources Data Management System (NRDMS) programme of Department of Science & Technology, New Delhi by Dr. Biplab Biswas, Department of Geography, The University of Burdwan, Golapbag, Burdwan-713103

Corrigendum

The following amendment may be made in the sanction order of even number dated 03.01.2019.

In the point 3, 5th line
For: Registrar, Chitkara University
Read: The University of Burdwan

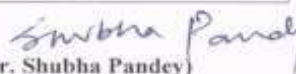
In the RTGS details table
For:

Account Holder Name	The University of Burdwan
Savings Bank Account Number	420110100019490
Name of the Bank and Branch	Burdwan Branch, Kala road, badmtala, burdwan-713101
IFSC Code	BKID0004201
MICR Code	713013102

Read:

Account Holder Name	The University of Burdwan
Savings Bank Account Number	420110100019490
Name of the Bank and Branch	Bank of India, Burdwan Branch, Kalna Road, Badamtala, Burdwan-713101
IFSC Code	BKID0004201
MICR Code	713013102

All other terms and conditions remain unchanged.

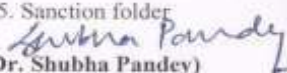

(Dr. Shubha Pandey)
Scientist 'D'

To

PAO, DST, New Delhi.

Copy forwarded for information and necessary action to:

1. Director of Audit (CW & M-II), Indrapratha Estate, AGCR Bldg., New Delhi
2. Copy with a spare copy of the sanction to the Drawing and Disbursing Officer, DST, Cash Section for making necessary payment
3. IF Division, DST, New Delhi
4. Accounts Section, DST, New Delhi
5. Sanction folder


(Dr. Shubha Pandey)
Scientist 'D'

DST-NRDMS Capacity Building Programme granted to Prof. Biplab Biswas (2019)

No. NRDMS/11/1848/011- 19
Government of India
Ministry of Science & Technology
Department of Science and Technology
(NRDMS)

Technology Bhawan,
New Mehrauli Road,
New Delhi- 110 016
25 March, 2019

Subject:- Financial support for conducting 21 days training Programme on "Geospatial Technologies" under Natural Resources Data Management System (NRDMS) programme of Department of Science & Technology, New Delhi by Dr. Biplab Biswas, Department of Geography, The University of Burdwan, Golapbag, Burdwan-713103

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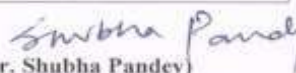
In the RTGS details table
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Account Holder Name	The University of Burdwan
Savings Bank Account Number	420110100019490
Name of the Bank and Branch	Burdwan Branch, Kala road, badmtala, burdwan-713101
IFSC Code	BKID0004201
MICR Code	713013102

Read:

Account Holder Name	The University of Burdwan
Savings Bank Account Number	420110100019490
Name of the Bank and Branch	Bank of India, Burdwan Branch, Kalna Road, Badamtala, Burdwan-713101
IFSC Code	BKID0004201
MICR Code	713013102

All other terms and conditions remain unchanged.

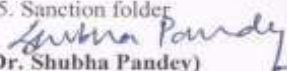

(Dr. Shubha Pandey)
Scientist 'D'

To

PAO, DST, New Delhi.

Copy forwarded for information and necessary action to:

1. Director of Audit (CW & M-II), Indrapratha Estate, AGCR Bldg., New Delhi
2. Copy with a spare copy of the sanction to the Drawing and Disbursing Officer, DST, Cash Section for making necessary payment
3. IF Division, DST, New Delhi
4. Accounts Section, DST, New Delhi
5. Sanction folder


(Dr. Shubha Pandey)
Scientist 'D'

DST-NRDMS Capacity Building Programme granted to Prof. Biplab Biswas (2021)

FILE NO. AV/KAR/2021/0012
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3 & 4th Floor, SERB Block II
Technology Bhavan, New Mehrauli Road,
New Delhi-110016

Dated:22-11-2021

ORDER

Subject: Financial assistance for organizing a High-End workshop (**KARYASHALA**) on **WebGIS Technology and Applications in Resource Management using FOSS4G** by **Prof. Biplab Biswas, Geography, The University of Burdwan, Golapbag Burdwan, West Bengal, India, Burdwan, 713104** under the **Accelerate Vigyan** scheme

Sanction is hereby accorded to the payment of a sum of **Rs. 500000 (Rupees Five Lakh Only)** under General (Recurring) to the **University of Burdwan, Golapbag Burdwan, West Bengal, India, Burdwan, 713104** during the financial year **2021-22**. The budget should be utilized under the following budget heads:- 1. TA (as per GoI norms), stationery, consumables, accommodation, and food for the participating students. 2. TA and honorarium to the outside experts (if any), as per GoI norms.

2. *As far as possible, the honorarium for the experts is concerned, it could be declined by them, treating this noble contribution as more of their scientific social responsibility while imparting the requisite knowledge and skills to the students. However, for unavoidable constraints / matters, the honorarium may be given. Maximum of 10 % budget of the total approved budget can be utilised for the honorarium (as per GoI norms).*

3 .The amount of **Rs. 500000 (Rupees Five Lakh Only)** will be drawn by The Under Secretary, SERB and disbursed to the **University of Burdwan, Golapbag Burdwan, West Bengal, India** by means of Electronic Fund Transfer (NEFT / RTGS) as per beneficiary's Bank Details given below:

PFMS Unique ID	BURUNIV
Account Name	<u>The University of Burdwan - SERB</u>
Account Number	38989370861
Bank Name & Branch	State Bank of India, Burdwan University
IFSC/RTGS code	SBIN0002033
Email id of A/C Holder	registrar@buruniv.ac.in
Email id of EO	bbiswas@geo.buruniv.ac.in

4 .The expenditure involved is debitable to '**Fund for Science & Engineering Research (FSER)**'. This release is being made under **Accelerate Vigyan** scheme.

5 .This sanction is issued with the approval of competent authority under delegated powers and vide sanction number **SERB/F/4395/2021-2022** dated **17-Nov-2021**.

6 . As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.

7 . It is **mandatory** that the grantee Institution is required to submit to this office, **audited Statement of Income-Expenditure, Utilization Certificate** (in duplicate as per the prescribed format) and **completion report of the above event** (in prescribed format) within three months after the date of completion.

8 . The balance amount, with accrued interest, if any, may be returned through DD in favor of '**Fund for Science & Engineering Research**' payable at New Delhi.

9 . *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.*

10 . *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 the Department of Science & Technology (DST), Government of India.*

11 . The **Logo of SERB & Accelerate Vigyan** must be displayed on all materials being used for the supported event.

DST-NRDMS Capacity Building Programme granted to Prof. Biplab Biswas (2021)

FILE NO. AV/KAR/2021/0012
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3 & 4th Floor, SERB Block II
Technology Bhavan, New Mehrauli Road,
New Delhi-110016

Dated:22-11-2021

ORDER

Subject: Financial assistance for organizing a High-End workshop (**KARYASHALA**) on **WebGIS Technology and Applications in Resource Management using FOSS4G** by **Prof. Biplab Biswas, Geography, The University of Burdwan, Golapbag Burdwan, West Bengal, India, Burdwan, 713104** under the **Accelerate Vigyan** scheme

Sanction is hereby accorded to the payment of a sum of **Rs. 500000 (Rupees Five Lakh Only)** under General (Recurring) to the **University of Burdwan, Golapbag Burdwan, West Bengal, India, Burdwan, 713104** during the financial year **2021-22**. The budget should be utilized under the following budget heads:- 1. TA (as per GoI norms), stationery, consumables, accommodation, and food for the participating students. 2. TA and honorarium to the outside experts (if any), as per GoI norms.

2. As far as possible, the honorarium for the experts is concerned, it could be declined by them, treating this noble contribution as more of their scientific social responsibility while imparting the requisite knowledge and skills to the students. However, for unavoidable constraints / matters, the honorarium may be given. Maximum of 10 % budget of the total approved budget can be utilised for the honorarium (as per GoI norms).

3 .The amount of Rs. 500000 (Rupees Five Lakh Only) will be drawn by The Under Secretary, SERB and disbursed to the University of Burdwan, Golapbag Burdwan, West Bengal, India by means of Electronic Fund Transfer (NEFT / RTGS) as per beneficiary's Bank Details given below:

PFMS Unique ID	BURUNIV
Account Name	<u>The University of Burdwan - SERB</u>
Account Number	38989370861
Bank Name & Branch	State Bank of India, Burdwan University
IFSC/RTGS code	SBIN0002033
Email id of A/C Holder	registrar@buruniv.ac.in
Email id of EO	bbiswas@geo.buruniv.ac.in

4 .The expenditure involved is debitable to 'Fund for Science & Engineering Research (FSER)'. This release is being made under Accelerate Vigyan scheme.

5 .This sanction is issued with the approval of competent authority under delegated powers and vide sanction number SERB/F/4395/2021-2022 dated 17-Nov-2021.

6 . As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.

7 . It is mandatory that the grantee Institution is required to submit to this office, audited Statement of Income-Expenditure, Utilization Certificate (in duplicate as per the prescribed format) and completion report of the above event (in prescribed format) within three months after the date of completion.

8 . The balance amount, with accrued interest, if any, may be returned through DD in favor of 'Fund for Science & Engineering Research' payable at New Delhi.

9 . 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.

10 . 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 the Department of Science & Technology (DST), Government of India.

11 . The Logo of SERB & Accelerate Vigyan must be displayed on all materials being used for the supported event.

ISRO Capacity Building Programme granted to Prof. Biplab Biswas (2022)

भारत सरकार
अंतरिक्ष विभाग
भारतीय सुदूर संवेदन संस्थान
4, कालीदास मार्ग, पो. बाक्स सं. 135
देहरादून- 248 001, भारत
दूरभाष : +91-135-2524399
फैक्स : +91-135-2741987, 2748041



Government of India
Department of Space
Indian Institute of Remote Sensing
4, Kalidas Road, PB: No. 135,
Dehradun - 248 001, India
Telephone : +91-135-2524399
Fax : +91-135-2741987, 2748041

Ref: IIRS/DO/DMSP-ASCB/Cap Build/2022

Date: January 24, 2022

To,
Prof. Biplab Biswas
Department of Geography
The University of Burdwan
Golapbag, Burdwan - 713104
Email: bbiswas@geo.buruniv.ac.in

Subject: Sanction of proposal on Capacity Building in Space based Disaster Management Support submitted by you under ISRO's Disaster Management Support Programme (DMSP).

Dear Sir,

Greetings from Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun!

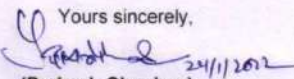
Thank you for submitting the proposal on Capacity Building in Space based Disaster Management Support in response to Announcement of Opportunity (AO) – Call for Proposals floated by IIRS under the ISRO's Disaster Management Support Programme (DMSP).

We are pleased to inform you that the following proposal has been approved for financial support:

S.No.	Capacity Building Proposal	Budget
1.	Space based Technologies for Disaster Management with Special Reference to Flood (Duration: 2-weeks)	Rs. 9,12,400/- for 25 participants @ Rs. 36,496/- per participant

It is requested to send us the duly filled-in and signed Undertaking and Terms & Conditions for the grant, and Vendor Details Updation Form (for online transfer of funds) enclosed herewith at the earliest by email ([dmsp\[dot\]ascb\[at\]iirs\[dot\]gov\[dot\]in](mailto:dmsp[dot]ascb[at]iirs[dot]gov[dot]in)) and speed/ registered post.

With best regards,

Yours sincerely,

(Prakash Chauhan)
Director, IIRS

Enclosure: As above

Copy to: Dean (Academics), IIRS, Dehradun (Email: deanacademics@iirs.gov.in)

भारतीय अंतरिक्ष अनुसंधान संगठन  Indian Space Research Organisation

ISRO Capacity Building Programme granted to Prof. Biplab Biswas (2022)

भारत सरकार
अंतरिक्ष विभाग
भारतीय सुदूर संवेदन संस्थान
4, कालीदास मार्ग, पो. बाक्स सं. 135
देहरादून- 248 001, भारत
दूरभाष : +91-135-2524399
फैक्स : +91-135-2741987, 2748041



Government of India
Department of Space
Indian Institute of Remote Sensing
4, Kalidas Road, PB: No. 135,
Dehradun - 248 001, India
Telephone : +91-135-2524399
Fax : +91-135-2741987, 2748041

Ref: IIRS/DO/DMSP-ASCB/Cap Build/2022

Date: January 24, 2022

To,
Prof. Biplab Biswas
Department of Geography
The University of Burdwan
Golapbag, Burdwan - 713104
Email: bbiswas@geo.buruniv.ac.in

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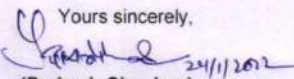
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With best regards,

Yours sincerely,

(Prakash Chauhan)
Director, IIRS

Enclosure: As above

Copy to: Dean (Academics), IIRS, Dehradun (Email: deanacademics@iirs.gov.in)

भारतीय अंतरिक्ष अनुसंधान संगठन  Indian Space Research Organisation

Acceptance cum Receipt

To,
Programme Officer,
BRNS Secretariat,
Central Complex, 1st Floor,
BARC, Trombay, Mumbai-400 085.

Subject: Sanction No. **Nil** dated **Nil** communicating a total financial assistance of Rs. **Nil** for the period **Nil** year for the Research Project entitled “**Spatial distribution of Uranium in the groundwater of four districts of West Bengal**”

- 1) The terms and conditions of the grant-in-aid communicated by DAE as Annexure A & B are accepted.
- 2) The grant has been received in the university/institutions A/c electronically on NIL (date)
- 3) *The date of commencement of the project may please be considered as the **date of receipt of grant / date of issue of sanction letter** (strike off one of the options)
◆Expenditure made before commencement of the project would not be admissible.

Signature & Seal: Principal Investigator

Signature & Seal: Registrar/Head of Institution

CLAIM

To
Programme Officer,
BRNS Secretariat, 1st Floor,
Central Complex, BARC,
Trombay, Mumbai-400 085.

Subject: Sanction No. **36(4)/14/26/2017-BRNS/36003** dated **01-04-2021** communicating a total financial assistance of Rs. **3,29,012/-** for 2nd-year duration (Extension) from **2020** to **2021** for the Research Project entitled **“Spatial distribution of Uranium in the groundwater of four districts of West Bengal”**

Sir,

The terms and conditions of Grant-in-aid communicated by DAE are accepted and an amount of Rs.is claimed towards expenditure for the project during the current financial year in accordance with the details given below:

1. Amount received so far : Rs. **18,52,825 (2017-18) + 6,00,601 (2019-20) + 3,45,692 (2020-21) + 1,31,044 (2021-22) + Interest earned Rs. 5,753 (2017-18) + 11,589 (2018-19) + 515 (2019-20) + 178 (2020-2021)**
i.e., total Rs. **2948197**
2. Amount spent so far : Rs. **1,26,825 (2017-18) + 14,42,025 (2018-19) + 8,57,816 (2019-20) + 3,77,111 (2020-21) + 1,44,420 (2021-22)** total Rs. **29,48,197**
3. Amount remaining unspent : Rs. **NIL**
4. Amount sanctioned for the current financial year (2021-2022) : Rs. **1,44,420 (JRF salary Rs.- 1,24,000 + HRA Rs.- 9,920 + M.A.- 1,200 + Overhead Rs.- 9,300 i.e. total 1,44,420)**
5. Amount now claimed for the current financial year (2021-2022) : Rs. **NIL**

The amount may kindly be credited electronically to :
A/c. Name: The University of Burdwan

A/c. Number: 420110100019490

Bank & Branch Name : Bank of India, Burdwan

IFS code : BKID0004201

Signature & Seal: Principal Investigator

Signature & Seal: Registrar/Head of Institution

UTILISATION CERTIFICATE

Certified that Grant-in-aid of **Rs. 144420 (1,33,300 + 11,120)** (Rupees- One lakh forty four thousand four hundred twenty only) was sanctioned by the **Government of India, Department of Atomic Energy, Mumbai-400 001** vide their letter No. **36(4)/14/26/2017-BRNS/36092** dated **30.07.2021** and **36(4)/14/26/2017-BRNS/36093** dated **30.07.2021** during the year **2021-22**, Grant received **Rs. 1,19,924 + 11,120** i.e. **Rs. 1,31,044 and Rs. 13,376** on account of unspent balance of the previous year, i.e. total available **R.s. 1,44,420**, a sum of **R.s. 1,44,420** has been utilized and there is an unutilized balance of **Rs. NIL** (interest earned **Rs. NIL**) of the said grant as on **2021** will be adjusted towards the grants-in-aid payable during the next year **2021-2022** in respect of this Research Project.

Signature & Seal: Principal Investigator

Account officer

Signature & Seal: Registrar/Head of Institution

Signature & Seal: Statutory Auditor (Govt.)/ Chartered Accountant/Internal Auditor 1

1Note: Consolidated Statement of Accounts & Utilization Certificate, which is to be submitted on completion of the project should also include remaining 7.5% Overheads. These forms shall be audited by Statutory Auditor (Government Auditor) or Chartered Accountant (external). However, the UC and SA audited by the internal auditor are accepted provided the accounts of the institution are audited by the C&AG and **same is certified by the Head of the Institution**. In respect of the other institutions where there is no audit by C&AG, they are required to submit the UC & SA audited by Statutory auditor/Chartered Accountant.

BRNS FORM-4

STATEMENT OF ACCOUNTS (SA) as on 31 St March 2021 (01.04.2021 to 31.07.2021)
Sanction No: 36(4)/14/26/2017-BRNS/36003 dated 01.04.2021

Sr. No.		Sanctioned	Opening Balance	Received	Total (4+5)	Spent	Unspent (Carried Forward)
1st Year	(2017 - 2018)						
1	2	3	4	5	6	7	8
1.	Equipment	1050000	NIL	1050000	-----	NIL	1050000
2.	Staff Salaries	300000	NIL	300000	-----	NIL	300000
3.	Techn. Asst.	196000	NIL	196000	-----	NIL	196000
4.	Consumables	80000	NIL	80000	-----	NIL	80000
5.	Travel	65000	NIL	65000	-----	NIL	65000
6.	Contingencies	35000	NIL	35000	-----	NIL	35000
7.	Overheads	126825	NIL	126825	-----	126825	NIL
8.	Interest Earned	-----	NIL	5753	-----	-----	5753
	TOTAL :	1852825	NIL	1858578	-----	126825	1731753
2nd Year	(2018 - 2019)						
1.	Equipment	-----	1050000	-----	1050000	1050000	00
2.	Staff Salaries	-----	300000	-----	300000	200000	100000
3.	Techn. Asst.	-----	196000	-----	196000	102179	93821
4.	Consumables	-----	80000	-----	80000	53257	26743
5.	Travel	-----	65000	-----	65000	26459	38541
6.	Contingencies	-----	35000	-----	24870	10130	24870
7.	Overheads	-----	NIL	-----	NIL	NIL	NIL
8.	Interest Earned	-----	5753	11589	17342	-----	17342
	TOTAL :	-----	1731753	11589	1743342	1442025	301317
3rd Year	(2019 - 2020)						
1.	Equipment	-----	-----	-----	-----	-----	-----
2.	Staff Salaries	445700	100000	345700	445700	445700	NIL
3.	Techn. Asst.	196000	93821	102179	196000	183464	12536
4.	Consumables	80000	26743	80000	106743	100177	6566
5.	Travel PI	40000	24658	15342	40000	40000	NIL
	Travel PC/DC	25000	13883	11117	25000	NIL	25000
6.	Contingencies	35000	24870	10130	35000	35000	NIL
7.	Overheads	53475	NIL	53475	53475	53475	NIL
8.	Interest Earned	-----	17342	(-) 17342	NIL	NIL	NIL
	TOTAL :	875175	301317	600601	901918	857816	44102
3rd year (Extension)	(2020 - 2021)						
1.	Equipment	-----	-----	-----	-----	-----	-----
2.	Staff Salaries	202680	NIL	202680	202680	202680	NIL
3.	Techn. Asst.	196000	12536	146443	158979	145781	13198
4.	Consumables	-----	6566	(-) 6566	NIL	NIL	NIL
5.	Travel PI	-----	NIL	NIL	NIL	NIL	NIL
	Travel PC/DC	-----	25000	(-) 25000	NIL	NIL	NIL
6.	Contingencies	-----	NIL	NIL	NIL	NIL	NIL
7.	Overheads	28650	NIL	28650	28650	28650	NIL
8.	Interest Earned	-----	515	(-) 515+178*	178	NIL	178
	TOTAL :	427330	44617	345870	390487	377111	13376
3rd year (Extension)	(2021 - 2022)						
1.	Equipment	-----	-----	-----	-----	-----	-----
2.	Staff Salaries	135120	NIL	135120	135120	135120	NIL
3.	Techn. Asst.	-----	13198	(-)13198	NIL	NIL	NIL
4.	Consumables	-----	NIL	NIL	NIL	NIL	NIL
5.	Travel PI	-----	NIL	NIL	NIL	NIL	NIL
	Travel PC/DC	-----	NIL	NIL	NIL	NIL	NIL
6.	Contingencies	-----	NIL	NIL	NIL	NIL	NIL
7.	Overheads	9300	NIL	9300	9300	9300	NIL
8.	Interest Earned	-----	178	(-)178	NIL	NIL	NIL
	TOTAL :	144420	13376	131044	144420	144420	NIL

Principal Investigator Head of the Institution Account officer Auditor/Chartered Accountant/Accountant General*

***Note:** Consolidated Statement of Accounts & Utilization Certificate, which is to be submitted on completion of the project should also include remaining 7.5% Overheads. These forms shall be audited by Statutory Auditor (Government Auditor) or Chartered Accountant (external). However, the UC and SA audited by the internal auditor are accepted provided the accounts of the institution are audited by the C&AG and **same is certified by the Head of the Institution**. In respect of the other institutions where there is no audit by C&AG, they are required to submit the UC & SA audited by Statutory auditor/Chartered Accountant. **The above table is just indicative of the format of the Statement of Accounts. It should be printed from the website, after having entered the amount SPENT. Other fields get automatically populated / calculated.**

Inventory of equipment

Inventory of equipment purchased for the project entitled: “Spatial distribution of uranium in the groundwater of four districts of West Bengal”.

- 1) DAE Sanction Number and Date: 36(4)/14/26/2017-BRNS/36200 **dated** 12/12/2017
- 2) Amount sanctioned for equipment: Rs. 10,50,000
- 3) List of equipment sanctioned:
For the project
 1. Portable Digital Survey Meter
 2. Handheld GPS
 3. PH/ISE/Conductivity/Salinity/TDS/Dissolved Oxygen & ORP portable multi-parameter
 4. LED fluorimeter

4) Details of equipment procured:

Name of the equipment	Date/Month of purchase	Amount
1. LED fluorimeter	04.09.2018	682500
2. GARMIN-Handheld GPS	21.10.2018	36750
3. Gamma Survey Meter	06.11.2018	47250
4. Multiparameter-Thermo Scientific	21.10.2018	330000

Total = 1096500

(*) An extra amount of 46500 has been meet up from ‘Consumables’ head vide order of funding agency (BRNS) dated on-18.05.2018

Signature & Seal: Principal Investigator

Signature & Seal: Registrar/Head of Institution

The University of Burdwan
Development Section
Diary No. - 88
Date - 15.5.13



1st page & last page
cash.
Bodhan

UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI - 110 002

A.O.
K.O. Chow

No. F.5-13/2012 (SAP-II)

To

The Registrar,
University of Burdwan
Burdwan-713104

February, 2013
Registrar
28
16, 13-5-13

Sub.: University Grants Commission Assistance to the selected department under Special Assistance Programme (SAP)- Review of the Programme in the Department of Botany, University of Burdwan, Burdwan-713104 for upgradation /continuation from CAS-Phase-I to CAS-Phase-II for a period of years (1-4-2012 to 31-3-2017).

Sir,

DO
15-05-13

1. The UGC Special Assistance Programme (SAP) is intended through constant effort to raise the quality of teaching/ research in different disciplines in Bio-Sciences, Sciences, Engineering & Technology, Humanities, Social Science departments and carefully selected on the basis of their work, academic achievements and viable potential for further development. The essence and primary aim of the scheme is combination of teaching and research to encourage group research efforts in pursuit of excellence.
2. The Department of Botany was implementing the CAS-Phase-I (2007-2012) of the programme at the level of CAS-II approved for a duration of five years.
3. As per guidelines, the Commission constituted an Expert Committee to review the progress made by the above department which has completed its approved term of participation under the Special Assistance Programme (SAP). The Expert Committee Reviewed the department on 13.12.2012 & 14.12.2012 at University.
4. The Review Committee, after a very careful and critical in-depth examination of the academic achievements made by the department during the terms as well as discussing various aspects of implementation of the programme with the departmental representatives has submitted their recommendations to the Commission.
5. The UGC has approved the Department for up-gradation/ continuation from CAS-I to CAS-II programme for a further period of Five years.
6. On the basis of the recommendations of the Review Committee, I am directed to convey approval of the University Grants Commission to the continuation/Up-gradation of the programme at the level of CAS-II for a duration of 5 years with the following thrust area(s) for research and teaching.

Thrust Area Identified

Documentation, reproductive biology, biochemistry and conservation of microbial and plant biodiversity.

The University of Burdwan
 Finance Department
 Receiving Section
 Docket No. F/2183
 Date: 17/5/13

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Annexure - I

UNIVERSITY GRANTS COMMISSION

Financial assistance approved for implementation of the Special Assistance Programme in the Department of Botany, University of Burdwan, Burdwan-713104 at the level of CAS-II for duration of Five years from (1.4.2012 to 31.3.2017).

S. No.	Non-Recurring (Items)	Allocation Rs. (In Lakh)
i.	Equipment	2.50
	1. Student's Microscope	2.50
	2. Thermal cyler	3.00
	3. UV-Vis spectrophotometer	1.50
	4. Electrophoresis system with power pack	3.50
	5. Microfuge (cooling)	2.00
	6. Computer terminal (4 nos.) with server	5.00
	7. Minor equipment (pH meter, water bath, autoclave, shaker, camera lucida, etc.)	8.00
	Research	3.50
	1. Microscope with photography attachment	3.50
	2. UV-Vis recording spectrophotometer	2.50
	3. High Speed table-top refrigerated centrifuge	3.50
	4. Submarine electrophoresis unit with power supply	
	5. Incubator shaker	
	Total	41.00
S. No.	Recurring	
1)	Contingency/Working expenses @ Rs.1.00 p.a.	5.00
2)	Chemicals/Consumables/Glassware @ Rs.3.00 p.a.	15.00
3)	Travel/industry visits/Community field work for faculty members only @Rs.1.00 p.a.	5.00
4)	Visit fellows @Rs. 0.50 p.a.	2.50
5)	Hiring of services @Rs.0.50 p.a.	2.50
6)	Seminars (2 nos.) @Rs.2.50 p.a.	5.00
7)	Advisory Committee meetings (TA/DA for UGC nominee in the committee) @Rs.0.75 p.a.	3.75
8)	Books and Journals @ Rs.1.00 p.a.	5.00
9)	Project fellows (2 nos.)	actual
	Total	43.75
	Grand total (NR + R)	84.75

Grand total (NR + R) Rs.41.00+ Rs.43.75 = 84.75 lakh + 2 Project fellows

Uma Bali
 (Uma Bali)
 Under Secretary

06.17.5.13
 officer, B.U. for information
Development officer

No. RNI/572 (2013-2014)/380(2)
 Copy forwarded to the Finance
 please.



REGISTERED

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
EXTRAMURAL RESEARCH DIVISION
CSIR COMPLEX, PUSA, NEW DELHI - 110 012

Dated : 12 ⁴/₂₀₁₇

No. 27(0322)/17/EMR-II
From : Head, Human Resources Development Group

To
DR(MS) SOMASRI DAM
DEPT OF MICROBIOLOGY
BURDWAN UNIV
BURDWAN 713104 WB

Subject: Grants-in-aid for your scheme entitled : MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF AURORA KINASE FROM HUMAN PATHOGEN Entamoeba histolytica

Sir,

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

I	Duration of the Scheme (from the date of Commencement)	36 Months		
II	Staff	Nil		
III	Contingency (per annum in ₹)	1 st Year : 4,00,000	2 nd Year : 4,00,000	3 rd Year : 4,00,000
IV	Equipment (lumpsum in ₹)	₹ 9,20,000/- (LS)		

- The above sanction is subject to review of periodical progress of the project by expert committee.
- DG CSIR has also approved the release of the following grants for the period 01/04/2017 to 31/03/2018

No	Grants	Amount (in ₹)
I	Staff	0
II	Contingency	4,00,000
III	Equipment	9,20,000
Total :		13,20,000

- Sanction of grants is subject to strict compliance of the terms and conditions enclosed or as may be modified from time to time. Please go through the instructions carefully with regard to subsequent release of grants and your obligations under this sanction. The grant for the 1st installment will be sent through EFT (Electronic Funds Transfer), to the concerned authority of your institution on receipt of undertaking (form-A), non-funding certificate and EFT Transaction Request Form.

The expenditure is debitible to budget head P81102.

Yours faithfully,

SECTION OFFICER (EMR-II)

Encl : As above

Copy to :-

- Registrar/Principal/Director Burdwan University Burdwan - 713104 WB. The utilisation of grant is subject to compliance of para-1 of the terms and conditions stated overleaf.
- Sr F&AO(EMR) alongwith FVC for first year's grant.

SUMMARY TERMS AND CONDITION

1. The first instalment of the grants will be released through NEFT/RGIS subject to submission of the following documents/information.
 - a) Acceptance of the grants sanctioned above.
 - b) An Undertaking in the prescribed form-A of the enclosed booklet executed on non judicial stamp paper of RS. 10/- each duly signed.
 - c) A certificate by you duly countersigned by the Head of the Department/Head of the Institution that no other aid giving agency is funding your above scheme.
 - d) Date of commencement of the scheme. This should be started within 3 months from the date mentioned in the sanction letter overleaf at Para 3, with or without the appointment of "Staff."
2. "Contingency" amount will be utilized on pro-rata from the date of the commencement of the scheme. "Staff stipend" will be utilized from the date the Research Fellow/Associate Joins duty in accordance with the rules stipulated in the terms-and conditions and he/she will be paid stipend after receipt of approval of appointment from CSIR. JRF with NET/GATE qualification can be appointed directly and CSIR concurrence/ratification is to be obtained subsequently.
3. While claiming grants for the subsequent year/period the position regarding unspent balances of the previous year's grants must be mentioned head-wise in the bill failing which the same may be returned un-passed for compliance. Statement of accounts duly audited by the Account Officer and countersigned by the next higher authority in respect of the grants received and expenditure incurred with unspent balance, if any, during the previous year should also be invariably enclosed with the bill.
4. Utilization of funds and maintenance of account under the heads Staff, Contingency & Equipment and appointment of Research Fellows/Associates should be in accordance with the procedure laid down in the terms and conditions.
5. Your obligations under this sanction include, inter alias, the following:
 - i. Submission of **Annual Progress Report (10 Copies)** to CSIR by 1st October, each year including the progress of work as on 31st Aug. (as per Form-EI in the booklet). Non receipt of this report in time will lead to the scheme being withdrawn.
 - ii. Submission of **Final Technical Reports (5 copies)** in Form-F of the booklet within 3 months after completion of the work describing the original objectives of the scheme, how far these objectives have been achieved and how the results would benefit technological development or enrich the existing knowledge on the subject
 - iii. Sending of copies of Research Papers published in Journals and Proceedings of Prestigious national/international conferences under this grant with due acknowledgement of CSIR support for information as and when published. The project numbers should always be mentioned in the acknowledgements.
 - iv. Submission of the Audited Utilization Certificate and Audited Consolidated Statement of Accounts for the grants paid by the CSIR immediately on termination of the scheme.
6. **ALL INSTRUMENTS/EQUIPMENT PURCHASED OUT OF/PROVIDED BY CSIR EXTRAMURAL RESEARCH FUND SHOULD CARRY THE LABEL "CSIR FUNDED."**



Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Dr. Ashok Pandey
Programme Officer (BRE)

BRNS Secretariat, 316-C,
3rd Floor, CFB, BARC,
Trombay, Mumbai-400085
Phone: +91-02225594566
Email: ashokk@barc.gov.in

No: 58/14/20/2019-BRNS/ 10603

Date: 9/9/19

OFFICE MEMORANDUM

Sub: R/P entitled "Fluorescence and colorimetric recognition of some lanthanides and actinides using several new probes" under Dr. Debasis Das, Professor, Dept. of Chemistry, University of Burdwan, Rajbati, Burdwan, West Bengal- 713104. bearing sanction 58/14/20/2019-BRNS with BRE, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year 2019-2020 with a total grant of Rs. 34,38,350/- (Rupees thirty four lakh thirty eight thousand three hundred fifty only) for the project as under :

Item of expenditure	Year 1 (2019-2020)	Year 2 (2020-2021)	Year 3 (2021-2022)
Equipments	1575000	0	0
Staff Salary - JRF	372000	372000	0
Staff Salary - SRF	0	0	420000
Consumables	60000	60000	25000
Travel - PI	15000	20000	10000
Contingencies	30000	30000	10000
Overheads	151850	33900	34125
Total(INR)	2203650	515900	499125

Note: * FLUORESCENCE SPECTROPHOTOMETER

JRF salary calculated @ Rs.31,000/- p.m. for first two years and on redesignation by committee on in third year as SRF @ Rs.35,000/- p.m.

Please note that as per the government orders under Direct Benefit Transfer (DBT) scheme, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number (UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads (Rs. 2,19,675/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 22,03,650/- (Rupees twenty two lakh three thousand six hundred fifty only) towards grant for the year 2019-2020.
- The expenditure involved is debit to: 04 3401 00 004 27 0231.
- This is issued with the concurrence of the competent authority in the Department.

Ashok Pandey
3.9.2019
Dr. Ashok Pandey

Pay & Accounts Officer, DAE, Mumbai - 400 001.

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Registrar, University of Burdwan, Rajbati, Burdwan, West Bengal- 713104..
4. Principal Investigator(PI): Dr. Debasis Das, Professor, Dept. of Chemistry, University of Burdwan, Rajbati, Burdwan, West Bengal- 713104..

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 420110100019490, A/C Name: The University of Burdwan, IFSC: BKID0004201, Bank of India, Burdwan Branch, Burdwan, West Bengal-713101.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.

iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer BRE:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at <https://brns.res.in>. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer BRE, BRNS Secretariat, First Floor, Central Complex, BARC, Trombay, Mumbai-400 085:

a) Claim in Form-II quoting reference of the renewal sanction.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant. should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of Interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of

the Selection Committee.

e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.

D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:

a) Claim Form-II if any,

b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.

c) Final Consolidated Progress Report and a brief report as per format given in Form-VII .

5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 – With a request that the amount granted for the first year of the project may be released.

6. Member Secretary (BRE) : Dr. Surendra Singh, SSPD, BARC surendra@barc.gov.in

7. Project Collaborator (PC): Arunasis Bhattacharyya , Bhaba Atomic Research Center, Radiochemistry division, Trombay, Mumbai- 400085, Email : arun12@barc.gov.in, Mobile :2225594099 - You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.

Ashok Pandey
3.9.2019

Dr. Ashok Pandey

Note:

1. Please quote the Sanction Number 58/14/20/2019-BRNS in all your correspondence with BRNS

ok
P
28/8/19

Kan
21/9/19

बिल नं Bill No: 37063

दिनांक 28/08/2019

Countersigned for Rs. 2203650/- twenty two lakh three thousand six hundred fifty Rupees Only.

अनुमोदन

Approved

Pandey
3.9.2019

कार्यक्रम अधिकारी

Programme Officer BRE

परमाणु ऊर्जा विभाग

DEPARTMENT OF ATOMIC ENERGY

नाभिकीय विज्ञान अनुसंधान मंडल

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Application Number:201802BRE02RP04061-BRNS

कृपया निम्नलिखित को सुचित करते हुए
राशी का भुगतान इन्हे करें।

Please pay the amount to

A/C No: 420110100019490, A/C Name: The University of Burdwan, IFSC:
BKID0004201, Bank of India, Burdwan Branch, Burdwan, West
Bengal-713101

Under intimation to

Dr. Debasis Das, Professor, Dept. of Chemistry

Mobile Number:9332021453

होतान एवं लेखन अधिकारी, प.रू.वि,

Pay & Accounts Officer, DAE

UTILISATION CERTIFICATE

Certified that Grant-in-aid of Rs.494313(457789+36524) (Rupees four lakh ninety-four thousand three hundred thirteen only) was sanctioned by the Government of India, Department of Atomic Energy, Mumbai-400 001 vide their letter No. 58/14/20/2019-BRNS/37233 and 58/14/20/2019-BRNS/37237 dt. 15/11/2021 and 17/11/2021 and Rs 493906 (457382+36524) (Rupees four lakhs ninety-three thousand nine hundred six only) received during the year 2021-2022 and Rs.407 on account of unspent balance of the previous year, Rs.494313 has been utilized and the balance amount of NIL as on 31st March, 2022, will be adjusted towards the grants-in-aid payable during the next year.

Debasis Das

Signature & Seal
Dr. Debasis Das
Principal Investigator
Department of Chemistry
The University of Burdwan
Burdwan-713104, W.B.

S. Chakrabarti
12.05.22

Signature & Seal
Finance Officer
FINANCE OFFICER
THE UNIVERSITY OF BURDWAN
BURDWAN WEST BENGAL

S. Ghosh

Signature & Seal
Registrar/ Head of Institution
REGISTRAR
THE UNIVERSITY OF BURDWAN
BURDWAN-713104

H. Ray
12.5.22

Signature & Seal: Statutory Auditor (Govt.)/ Chartered Accountant/Internal Auditor*



*Note: Consolidated Statement of Accounts & Utilization Certificate, which is to be submitted on completion of the project should also include remaining 7.5% Overheads. These forms shall be audited by Statutory Auditor (Government Auditor) or Chartered Accountant (external). However, the UC and SA audited by the internal auditor are accepted provided the accounts of the institution are audited by the C&AG and same is certified by the Head of the Institution. In respect of the other institutions where there is no audit by C&AG, they are required to submit the UC & SA audited by Statutory auditor/Chartered Accountant.

Board of Research in Nuclear Sciences (BRNS)

STATEMENT OF ACCOUNTS (SA) as on 31/03/2022 (date).

Sanction No: 58/14/20/2019-BRNS/10603(1st Year) And 58/14/20/2019-BRNS/37026(2nd Year) And 58/14/20/2019-BRNS/37158 (3rd Year)

Dated: 09/09/2019 And 05/06/2020 And 14/09/2021

Sr. No.	1 st Year (2019-2020)	Sanctioned	Opening Balance (Brought Forward)	Received	Total (4+5)	Spent	Unspent (Carried Forward)
1	2	3	4	5	6	7	8
1.	Equipment	1575000	NIL	1575000	1575000	1575000	NIL
2.	Staff Salaries	372000	NIL	372000	372000	74000	298000
3.	Technical Assistance	NIL	NIL	NIL	NIL	NIL	NIL
4.	Consumables	60000	NIL	60000	60000	60000	NIL
5.	Travel	15000	NIL	15000	15000	NIL	15000
6.	Contingencies	30000	NIL	30000	30000	30000	NIL
7.	Overheads	151650	NIL	151650	151650	151650	NIL
8.	Interest Earned	NIL	NIL	5477*	5477	NIL	5477
	TOTAL:	2203650	NIL	2209127	2209127	1890650	318477
Sr. No.	2 nd Year (2020-2021)	Sanctioned	Opening Balance (Brought Forward)	Received	Total (4+5)	Spent	Unspent (Carried Forward)
1.	Equipment	NIL	NIL	NIL	NIL	NIL	NIL
2.	Staff Salaries	414874	298000	116874	414874	414874	NIL
3.	Technical Assistance	NIL	NIL	NIL	NIL	NIL	NIL
4.	Consumables	60000	5477*	54523	60000	60000	NIL
5.	Travel	20000	15000	5000	20000	19860	140
6.	Contingencies	30000	NIL	30000	30000	29733	267
7.	Overheads	33900	NIL	33900	33900	33900	NIL
8.	Interest Earned	NIL	NIL*	NIL	NIL	NIL	NIL
	TOTAL:	558774	318477	240297	558774	558367	407
Sr. No.	3 rd Year (2021-2022)	Sanctioned	Opening Balance (Brought Forward)	Received	Total (4+5)	Spent	Unspent (Carried Forward)
1.	Equipment	NIL	NIL	NIL	NIL	NIL	NIL
2.	Staff Salaries	418072	NIL	418072	418072	418072	NIL
3.	Technical Assistance	NIL	NIL	NIL	NIL	NIL	NIL
4.	Consumables	25000	NIL	25000	25000	25000	NIL
5.	Travel	10000	140	9860	10000	10000	NIL
6.	Contingencies	10000	267	9733	10000	10000	NIL
7.	Overheads	31241	NIL	31241	31241	31241	NIL
8.	Interest Earned	NIL	NIL	NIL	NIL	NIL	NIL
	TOTAL:	494313	407	493906	494313	494313	NIL

*Interest adjusted with consumables

Debasis Das
Dr. Debasis Das
Principal Investigator
Professor

Department of Chemistry
The University of Burdwan
Burdwan-713104, W.B.

S. Chakrabarti
17.05.22
Finance Officer

FINANCE OFFICER
THE UNIVERSITY OF BURDWAN
BURDWAN WEST BENGAL

S. 17.05.2022
Head of the Institution

REGISTRAR
THE UNIVERSITY OF BURDWAN
BURDWAN-713104

Ray 12.5.22
Auditor/ Chartered Accountant/ Accountant General




Dated: 24.06.2019

ADDENDUM

In partial modification of this Department's sanction order of even no. dated June 18, 2019, for the implementation of the 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**", following names are being included as co-investigators in the project:

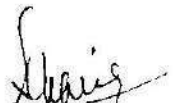
- I. **Dr. Arindom Chakraborty**, Assistant Professor, Department of Statistics, Siksha-Bhavana, Visva-Bharati University, Santiniketan-731235, West Bengal.
 - II. **Dr. Somasri Dam**, Assistant Professor, Department of Microbiology, The University of Burdwan, Bardhaman-713104, West Bengal.
2. The other terms and conditions of the sanction order remain unaltered.

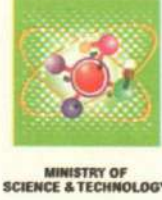

(Dr. Sanjay Kalia)
Scientist-E

To
The Pay & Accounts Officer,
Department of Science & Technology,
New Delhi.

Copy forwarded for information/necessary action to:

1. The Director of Audit (CW & MII) IP Estate, AGCR Building, New Delhi -110 002.
2. Accounts Section, DST, New Mehrauli Road, New Delhi - 110 016.
3. Cash Section DBT (2 copies)
4. IFD, DBT
5. The Registrar, Burdwan University, Golapbag Campus, Bardhaman - 713104, West Bengal
6. The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal.
7. Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, Siksha-Bhavana, Visva-Bharati University, Santiniketan, Birbhum - 731235, West Bengal.
8. Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.
9. Sanction Folder
10. Project Registry
11. Office copy


(Dr. Sanjay Kalia)
Scientist-E



भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
बायोटेक्नोलॉजी विभाग
ब्लॉक-2,7 वां तल, सी० जी० ओ० कम्प्लेक्स
लोदी रोड, नई दिल्ली-110003
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
Block-2, 7th Floor C.G.O. Complex
Lodi Road, New Delhi-110003

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. Dam,

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. 33.9146 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. Bomba Dam,
Assistant Professor,
Microbiology Laboratory,
Department of Botany,
Siksha-Bhavana, Visva-Bharati University,
Santiniketan-731235, West Bengal



भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
बायोटेक्नोलॉजी विभाग
ब्लॉक-2,7 वां तल, सी० जी० ओ० कम्पलेक्स
लोदी रोड, नई दिल्ली-110003
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
Block-2, 7th Floor C.G.O. Complex
Lodi Road, New Delhi-110003

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. BT/PR28574/AAQ/3/920/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

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

Dated: 18.06.2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "**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**" for a period of 3 Year 0 Month at a total cost of Rs. **9142940** (Rupees Ninety One Lakhs Fourty Two Thousand Nine Hundred and Fourty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : 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.

2.2 Details of the Investigators:

Project Co-ordinator

Prof. Nimai Chandra Saha,
Vice-Chancellor, The University of Burdwan,
Bardhaman-713104, West Bengal

Principal Investigators:

Dr. Bomba Dam,
Assistant Professor,
Microbiology Laboratory,
Department of Botany,
SIksha-Bhavana, Visva-Bharati,
Santiniketan-731235, West Bengal

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

2.3 Objectives:

Overall Objectives:

1. To select the most appropriate prebiotic feed supplement(s) for the three IMCs, Labeo rohita (rohu), Cirrhinus mrigala (mrigal) and Catla catla (catla) in monoculture by evaluation of their growth performance, feed utilization, metabolic, hematological and immunological parameters.



2. To evaluate nutrient-induced gene expression and metabolic activity in host tissues and gut microbiota particularly those related to carbohydrate metabolism
3. To determine the spatio-temporal variation of gut microbial population due to prebiotic treatment by culture-independent 16S rDNA amplicon sequencing
4. To culture the major gut microbial groups belonging to Firmicutes and Bacteroidetes using selective media and select likely probiotic candidates, preferably an anaerobe/facultative anaerobe capable of producing SCFA and estimate its effectiveness
5. To assess the abundance and diversity of short chain fatty acid producers, their functional genes, estimation of SCFAs and eventually establish them as molecular or metabolic marker for gut health
6. Field trial under polyculture to validate the effectiveness of the prebiotic/symbiotic formulations

Institute wise Objectives:

Burdwan University:

1. To select the most appropriate prebiotic feed supplement(s) for the three IMCs, Labeo rohita (rohu), Cirrhinus mrigala (mrigal) and Catla catla (catla) in monoculture by evaluation of their growth performance, feed utilization, metabolic, hematological and immunological parameters.
2. To evaluate nutrient induced metabolic activity in host tissues, particularly those related to carbohydrate metabolism.
3. To culture the major gut microbial groups belonging to Firmicutes and Bacteroidetes using selective media and select likely probiotic candidates, preferably an anaerobe/facultative anaerobe capable of producing SCFA and estimate its effectiveness.
4. Field trial under polyculture to validate the effectiveness of the prebiotic/symbiotic formulations.

Visva Bharati University:

1. To evaluate nutrient induced gene expression in host tissues, particularly those related to carbohydrate metabolism.
2. To determine the spatio-temporal variation of gut microbial population due to prebiotic treatment using both culture-independent 16S rDNA amplicon sequencing, and culture-dependent methods.
3. To assess the abundance and diversity of short chain fatty acid producers, their functional genes, estimation of SCFAs and eventually establish them as molecular or metabolic marker for gut health.

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. **9142940/-** (Rupees Ninety One Lakhs Fourty Two Thousand Nine Hundred and Fourty Only) as per details given below:



Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Burdwan University	2050760	811760	763600	3626120
2. Visva Bharati University	3391460	1066760	1058600	5516820
Total (Rs.)	5442220	1878520	1822200	9142940

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Visva Bharati University				
Equipment	2409700.00			2409700.00
Manpower	401760.00	401760.00	453600.00	1257120.00
Overhead	50000.00	50000.00	50000.00	150000.00
Travel		15000.00	25000.00	40000.00
Consumables	500000.00	570000.00	500000.00	1570000.00
Contingency	30000.00	30000.00	30000.00	90000.00
Total (Rs.)	3391460.00	1066760.00	1058600.00	5516820.00
2. Burdwan University				
Equipment	1029000.00			1029000.00
Manpower	401760.00	401760.00	453600.00	1257120.00
Overhead	50000.00	50000.00	50000.00	150000.00
Travel	20000.00	30000.00	30000.00	80000.00
Consumables	500000.00	300000.00	200000.00	1000000.00
Contingency	50000.00	30000.00	30000.00	110000.00
Total (Rs.)	2050760.00	811760.00	763600.00	3626120.00

2.6 Equipment

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

2.7 Manpower:

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

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

Shree

The **Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

- 4.1** The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2** A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in Annexure-IV.
- 4.3** The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization 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 Registrar, Burdwan University, Bardhaman, West Bengal and The Registrar, Visva Bharati University, Birbhum, 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 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
- 8.** As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.
- 9.** If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org
- 10.** If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clearance, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project investigator(s) and Host Institution(s) shall compulsory comply the same before undertaking such activities.
- 11.** This issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/678/2019-20** dated **14.06.2019**
- 12.** This sanction order has been noted at serial no. 20 in the Register of Grants.


(Dr.Sanjay Kalia)
Scientist 'E'

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110002.
- 2 Prof. Nimai Chanrda Saha (Project Coordinator), Vice-Chancellor, The University of Burdwan, Rajbati, Bardhaman-713104.
- 3 The Registrar, Burdwan University, Golapbag Campus, Bardhaman - 713104, West Bengal.
- 4 The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal.
- 5 Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, SIKsha-Bhavana, Visva-Bharati University, Santiniketan - 731235, West Bengal.
- 6 Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.
- 7 Cash Section, DBT (2 copies).
- 8 Sanction Folder.
- 9 File Copy.


(Dr. Sanjay Kalia)
Scientist 'E'