

**R &D Project entitled**

**DEVELOPING PHYSIOLOGICAL, CELLULAR AND  
MOLECULAR MARKERS TO UNDERSTAND SURVIVAL  
STRATEGY AND PATTERN DIVERSITY FOR FISHES  
ALONG ALTITUDINAL GRADIENT IN FOOTHILLS OF  
THE EASTERN HIMALAYAS**

**Dr. Krishna Gangopadhyay (PI)**

Netaji Nagar Day College  
Kolkata-92  
&

**Mrs. Adwitiya Chaudhuri (Co PI)**

Pingla Thana Mahavidyalaya  
Maligram, Paschim Medinipur

**Submitted to**

The Department Of Higher Education,  
Science & Technology and Biotechnology  
Government of West Bengal

To,  
The Principal Secretary  
Department of Science and Technology  
and Biotechnology  
Govt, of West Bengal  
Vigyan Chetana Bhavan,  
Salt Lake,  
Kolkata 700064

**Ref:** Developing physiological, cellular & molecular markers to understand survival strategy and pattern diversity for fishes along altitudinal gradient in foothills of the Eastern Himalayas.

Memo No.: 1765 (Sanc.)/STP/ S&T/1G-30/2017

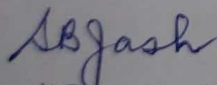
**Sub:** Submission of Final Year Project Report, Audit Report and Utilization Certificate.

Sir,

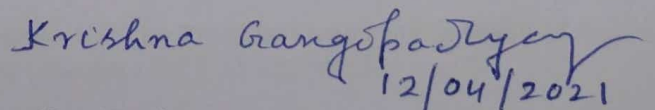
I am hereby submitting the Final Year Project Report, Audit Report and Utilization Certificate for the period of 01.04.2019 to 31.03.2020 of the above mentioned research project for your kind consideration.

With best regards,

Yours truly,



(Dr. Sonali Banerjee Jash)  
Principal  
Netaji Nagar Day College

  
12/04/2021

(Dr. Krishna Gangopadhyay)  
Department of Zoology  
Netaji Nagar Day College

Principal  
Netaji Nagar Day College  
Kolkata - 700 092

Enclosure:

Audit report (5 Copies)  
Utilization certificate (5 Copies)  
Project report

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

Tel: 25693717

Fax:

Date: 24/03/2018

Memo No 241(Sanc.)/ST/P/S&T/1G-30/2017

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: Netaji Nagar Day College.
- 3 Address of the Grantee Institution: 170/436, NSC Bose Road, Regent Estate, Kol-92.
- 4 Category of Grantee Institution: Education Institution
- 5 Amount Sanctioned: 405729 (in words Rs. Four Lakh Five Thousand Seven Hundred Twenty Nine 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- Developing Physiological, cellular & molecular markers to understand survival strategy and pattern diversity for fishes along altitudinal gradient in foothills of the Eastern Himalayas.
- 13 An amount of Rs 405729 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 Netaji Nagar Day College. by Transfer Credit to the Head of Account 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. 4,99,729/- sanctioned for 2 year (s) work. Now Rs. 4,05,729/- will be transferred through e-Pradan system to Netaji Nagar Day College Govt. Misc. Grant A/C A/C No.-3524282126 (Current), IFSC CODE-CBIN0281075, Mobile No.-9239446502.
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 Finance Deptt. vide Gr. F.A. Branch U.O. No. 264 F.A./Education Date 21/03/2018

Sd/

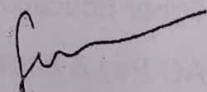
OSD & E.O. DEPUTY SECRETARY

Memo No:241(Sanc.)/ST/P/S&T/1G-30/2017

Memo Date:24/03/2018

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-700
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.                      11) Shri Soumyajit Mukherjee, SSO, Science & Technology.
8. Shri S.Roy, SSO, Science & Technology.                      12) Guard File.
9. Principal, Netaji Nagar Day College, 170/436, NSC Bose Road, Regent Estate, Kol-92.
10. Dr. Krishna Gangopadhyay, P.I. of the project, Netaji Nagar Day College, 170/436, NSC Bose Road, Regent Estate, Kol-92. (Strictly follow annexure-A).

  
OSD & E.O. DEPUTY SECRETARY

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

**Annexure -A**

File No.: ST/P. S&T/1G-30/2017

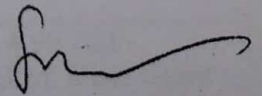
Name of the P.I. with Institute: Dr. Krishna Gangopadhyay, P.I. of the project, Netaji Nagar Day College.

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. 626 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 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	Total
A.	<b>Non Recurring - Minor Permanent equipment:</b>			
	i) DNA isolation kit	56774		
	ii) Variable pipette	9447		
	iii) Micro centrifuge	164708		
	iv) Fish shocker & fish stunner	37800	0	268729
B	<b>Recurring</b>			
1.	<b>Consumables</b>			
	i) Glass goods & Plastic wares	30000	10000	40000
	ii) Chemicals & Reagents	50000	30000	80000
2.	Outsourcing of sample analysis & other primary & secondary data	15000	10000	25000
3.	TA for field work sampling (conference/ seminar travel not allowed)	30000	30000	60000
4.	Reprography, photocopy etc.	3000	3000	6000
5.	Postage & Stationary	3000	3000	6000
6.	Report preparation & auditing of project	3000	5000	8000
7.	Miscellaneous/ special expenditure	3000	3000	6000
	<b>TOTAL</b>	<b>405729</b>	<b>94000</b>	<b>499729</b>



**Officer on Special Duty**

GOVERNMENT OF WEST BENGAL  
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Date: 28/01/2020

Memo No : 1765(Sanc.)/ST/P/S&T/1G-30/2017

Sanction Order for Grant-in-Aid in Cash

Demand No. : 76

Department Code : BS

Financial Year : 2019 - 2020

1. Sanctioning Authority: Science & Technology and Biotechnology
2. Recipient of Grant: Netaji Nagar Day College.
3. Category of the recipient of Grant: Grantee Institution
4. Amount Sanctioned: Rs.94000/-  
Rupees Ninety Four Thousand Only.
5. DDO Code :- CAFSTA003
6. DDO Designation: Sec. Officer, Science & Technology & Biotechnology Dept.
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- Developing Physiological, cellular & molecular markers to understand survival strategy and pattern diversity for fishes along altitudinal gradient in foothills of the Eastern Himalayas.
14. Applicable T.R Form No:- TR Form No.31
15. An amount of Rs.94000/- (Rupees Ninety Four 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 2019 - 2020. 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. 2019 - 2020
17. This order issues in exercise of the power delegated under Finance Department Memo. No. 1854-F.B. dated- 26.03.2019 & 550-F.B. dated-30.07.2019 with the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 152 - F.
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. 94,000/- is the 2nd & final installment of the total project cost Rs. 4,99,729/- sanctioned for 2 year (s) work, will be transferred through e-Pradan system to Netaji Nagar Day College Govt. Misc. Grant A/C. A/C No.-3524282126 (Current), IFSC CODE-CBIN0281075, Mobile No.-9239446502.

*sdh*

ASSISTANT SECRETARY

Science & Technology and Biotechnology

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.
4. ~~Sec. Officer, Science & Technology & Biotechnology Dept.~~
5. Pay & Accounts Officer-III, Calcutta PAO-III
6. PSO.
7. Shri S. Roy, SSO.
8. Principal, Netaji Nagar Day College, 170/436, NSC Bose Road, Regent Estate, Kol-92.
9. ✓ Dr. Krishna Gangopadhyay, P.I. of the project, Netaji Nagar Day College, 170/436, NSC Bose Road, Regent Kol-92.
10. Shri Soumyajit Mukherjee, SSO. 11) Guard File.

*Sarda*  
ASSISTANT SECRETARY

**Government of West Bengal**  
**Department of Higher Education,**  
**Science & Technology and Biotechnology (DHESTBT)**  
**(Science & Technology and Biotechnology Branch)**  
Vigyan Chetana Bhavan, Block-DD, Plot-26/B, Sector-I  
Salt Lake City, Kolkata-700064

UTILISATION CERTIFICATE IN RESPECT OF GRANT-IN-AID

No.

Date:

1. Name of the Grantee Institute (s) : *Netaji Nagar Day College*  
[Attach separate list for more than one Grantee Institution] *Kolkata - 92*
2. Sanctioning Authority : *Higher Education, Science & Technology and Biotechnology (Sci & Tech.)*
3. Sanction Order Number & Date : *1765 (Sanc)/ST/PIST/16-30/2017*  
*DT: 28/01/2020*
4. Amount Sanctioned : *₹ 94,000/-*
5. Drawing & Disbursing Officer : *NA*
6. Treasury/PAO : *Pay & Accounts officer - III, PAO - III*  
[From where the bill was drawn]
7. Bill No. & Date : *NA*
8. T. V. No. & Date : *NA*
9. Amount Drawn : *Rs. 94,000/-*
10. Unspent Balance of Previous year, if any : *Nil*
11. Amount Utilised : *Rs 94,000/-*
12. Unspent Balance, if any, in Current year : *Nil*
13. Purpose of Utilisation : *R & D Project*

CERTIFICATE

Certified that I have satisfied myself that the conditions on which the Grant-in-Aid was sanctioned have been duly fulfilled/are being fulfilled that I have exercised the following checks to see that the money was actually utilised for the purpose for which was sanctioned.

[Applicable in case of unspent balance] The unspent fund will be adjusted against the Grant-in-Aid to be sanctioned and paid in the Current Financial Year (applicable in case of recurring grant only).

Kinds of checks exercised

1. Cash Book
2. Ledger
3. ....
4. ....
5. ....

*Dipankar Sanyal*

Signature with Official Stamp

Date *12.04.2021*





Auditor's Report

Certified that the grant of Rs. 94,000/- (Rupees Ninety Four Thousand only) approved by the Department of Higher Education, Science and Technology and Biotechnology (DHESTBT), Government of West Bengal, under the scheme of support for Minor Research project entitled **Developing Physiological, cellular & molecular markers to understand survival strategy and pattern diversity for fishes along altitudinal gradient in foothills of the Eastern Himalayas**, vide Memo No. 1765 (Sanc.)/ST.P/S&T/1G-30/2017 dated 28/01/2020, has been fully utilized for the purpose of which it was sanctioned and in accordance with the terms and conditions laid down by the Department of Higher Education, Science and Technology and Biotechnology (DHESTBT), Government of West Bengal.

*Dipankar Sanyal*  
12.04.2021



Details of expenses incurred on the project - Developing physiological, cellular & molecular markers to understand survival strategy and pattern diversity for fishes along altitudinal gradient in foothills of the Eastern Himalayas.

Sanctioning authority: Dept, of Science & Technology, Govt. of West Bengal, Sector -V, Salt lake, Kolkata-64, vide Memo No, 1765 (Sanc.)/STP/ S&T/1G-30/2017 dated 28.01.2020

SL NO	ITEMS	BUDGET (2 <sup>ND</sup> YEAR)
1.	Consumables	40000.00
2.	Outsourcing of sample analysis	10000.00
3.	TA for field work sampling	30000.00
4.	Repography	3000.00
5.	Postage and stationary	3000.00
6.	Report preparation and auditing	5000.00
7.	Miscellaneous	3000.00
	<b>Total</b>	<b>94000.00</b>

*Dipankar Sanyal*  
12.04.2021



Statement of Expenditure (SoE)

Program: R & D Project (Developing Physiological ..... Eastern Himalayan

Duration: 2 years Venue: Netaji Nagar Day College

Organized by: Government of West Bengal, Department of Science and Technology

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
Amount received from DHESTBT	4,99,729	1. 405729.00	405729.00
		2. 94000.00	94000.00
Amount received from other Institution/ Organisation/ other means etc.		3.	
		4.	
Amount contributed from own Institution/ Organisation		5.	
		6.	
Total	4,99,729	Total	4,99,729

Certified that we have exercised all kinds of checks to see that the grant has been utilized for the purpose for which it was sanctioned by DHESTBT vide Order No.

(Sanc.)/ST/P/S&T/16-30/2017 dated 24/03/2018 of Rs. 499729.00  
5(Sanc.)/ST/P/S&T/16-30/2017 28/01/2020

*Ishna Gangopadhyay*  
Name & Signature of Program Coordinator

*SBjash 12.04.21*  
Name & Signature of Head of the Institution

*Dipankar Sanyal*  
12.04.2021  
Name & Signature of Chartered Accountant

Principal  
Netaji Nagar Day College  
Kolkata - 700 092  
Office Seal with date

