# **Research Projects**

1. Dr. Krishna Gangopadhyay

2. Dr. Ujjwal Kumar Pahari

**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 Med

# 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.

1 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,

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

Principal Netaji Nagar Day College Kolkata - 700 092 Enclosure:

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

Yours truly,

Krishna Gangopadhyay)

Department of Zoology Netaji Nagar Day College

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

Tel: 25693717 Fax: Date: 24/03/2018

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### Sanction Order for Grant-in-Aid

Financial Year : Department Code : ST

2017 - 2018

Demand No Sanctioning Authority: Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)

Name of the Grantee Institution: Netaji Nagar Day College.

Address of the Grantee Institution: 170/436, NSC Bose Road, Regent Estate, Kol-92.

Category of Grantee Institution: Education Institution

Amount Sanctioned: 405729 (in words Rs. Four Lakh Five Thousand Seven Hundred Twenty Nine Only. )

Name of the DDO: Registrar & DDO, Higher Education Department

Department Code: ST-Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)

Name of the Treasury/PAO:Pay & Accounts Officer-III, PAO-III

Nature of Grant

Condition of Grant

(a) Recurring or Non-recurring: Recurring

(b) Capital or Revenue: Revenue

Utilisation Certificate required: Yes

Category of Grant Education Institution

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 Educatio Department From the head of account 3425-60-200-SP-001-31-02-V from the budget provision of the financi year.2017 - 2018 under Demand No.70 Department Code ST and payable to Grantee Institution or by A/c paye 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)

by Transfer Credit to the Head of Account 17 The sanctioned amount will be payable to Netaji Nagar Day College. the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque / ECS as applicable.

Present release is the 1st installment of the total project cost Rs. 4,99,729/- sanctioned for 2 year (s) 18 Remarks: work. Now Rs. 4,05,729/- will be transferred through e-Pradan system to Netaji Nagar Day College Govt. Misc. Grant A/C AJC 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
- € JS (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.

Dr Krishna Gangopadhyay, P.I. of the project; Netaji Nagar Day College, 170/436, NSC Bose Road, Regent Es Kol-92 (Strictly follow annexture-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.:

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

### SUMMARY (in Rupees)

	Item	BUDGET			
Sl no.	Item	1 <sup>ST</sup> year	2 <sup>nd</sup> year	Total	
A.	Non Recurring - Minor Permanent equipment:i)DNA isolation kitii)Variable pipetteiii)Micro centrifugeiv)Fish shocker & fish stunner	56774 9447 164708 37800	0	. 268729	
B.	Rocurring	- <u>j</u>			
	Consumables	30000	10000	40000	
	i) Glass goods & Plastic wares	50000	30000	80000	
	ii) Chemicals & Reagents	00000			
2.	Outsourcing of sample analysis & other primary & secondary data	15000	10000	25000	
3.	TA for field work sampling (conference/ seminar	30000	30000	60000	
	travel not allowed)	3000	3000	6000	
4.	Reprography, photocopy etc.	3000	3000	6000	
5.	Postage & Stationary	3000	5000	8000	
6.	Report preparation & auditing of project	3000	3000	6000	
7.	Miscellaneous/ special expenditure	405729	94000	499729	
	TOTAL			×	

Officer on Special Duty

# GOVERNMENT OF WEST BENGAL

Colence & Technology and Biotechnology DEPARTMEN	NT Tel:
	Fax:
Memo No: 1765(Sanc.)/ST/P/S&T/1G-30/2017 Sanction Order for Grant-in-Aid in Cash	Date: 28/01/2020
Demand No.: 76 Department Code : BS Financial Year : 1. Sanctioning Authority: Science & Technology and Biotechnology	2019 - 2020
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.	
<ol> <li>Department Code: BS-Science &amp; Technology and Biotechnology</li> <li>Head of Account Code :76-3425-60-200-010-31-02-V</li> </ol>	
9. Scheme Name : Financial Assistance to other Scientific Bodies for undertaking Science Scien	cientific
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	and the second
13. Purpose of Grant : R&D project entitled- Developing Physiological, cellular & molecul strategy and pattern diversity for fishes along altitudinal gradient in foothills of the Eastern	ular markers to understand survival n Himalayas.
14. Applicable T.R Form No:- TR Form No.31	
15. An amount of Rs.94000/-(Rupees Ninety Four Thousand Only.) is hereby sanct recipients as per SI.No.2 from the Head of Account as stated in SI.No.8 above a Financial Year 2019 - 2020. The sanctioned amount will be payable through Tra Deposit Account/ECS/Cheque, as the case may be following the order issued by	gainst the Budget Provision of the ansfer Credit into the LF/PL/Other
6. Total released amount is within the Budget Provision of the Financial Year. 2019 - 20	020
7. This order issues in exercise of the power delegated under Finance Departm 26.03.2019 & 550-F.B. dated-30.07.2019 with the concurrence of Finance Deptt. vide	nent Memo. No. 1854-F.B. dated- e Gr. F.A. Branch U.O. No. 152 - F.
3. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/T concerned are being informed.	Freasury Officer and other
9. Remarks: Present release Rs. 94,000/- is the 2nd & final installment of the total anctioned for 2 year (s) work, will be transferred through e-Pradan system to Netaji Naga C. A/C No3524282126 (Current), IFSC CODE-CBIN0281075, Mobile No923944650	ar Dav College Govt, Misc, Grant

sdf

ASSISTANT SECRETARY

Science & Technology and Biotechnology

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

Copy forwarded for information and necessary action to:-

- The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001 1.
- 2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
- The Principal Accountant General (Receipt, Works &Local Bodies Audit),CGO Complex at Salt Lake,Kolkata 3.
- Sec. Officer, Science & Technology & Biotechnology Dept. and the second
- Pay & Accounts Officer-III, Calcutta PAO-III 5.
- 6. PSO.
- Shri S. Roy, SSO. 7.
- Principal, Netaji Nagar Day College, 170/436, NSC Bose Road, Regent Estate, Kol-92. 8.
- Dr. Krishna Gangopadhyay, P.I. of the project, Netaji Nagar Day College, 170/436, NSC Bose Road, Regent 9 Shri Soumyajit Mukherjee, SSO. 10.
  - 11) Guard File.

Serder . 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) [Attach separate list for more than one Grantee	Institution] Kalkata - 92
2.	Sanctioning Authority	Institution] Kalkata - 92 : Higher Education, Science & Technology and Biotechnology (Sui & Tech.) 1765 (Same.) / ST/P/SuT/161-30/2017 Dt: 28/01/2020 . T. 94, 000/-
3.	Sanction Order Number & Date :	1765 (Sane) 1 ST / P / Su 1 / 1812 SU 1 Dt: 28/01/2020
4.	Amount Sanctioned	E94,0001-
5.	Drawing & Disbursing Officer	NA PAD-TT
6.	Treasury/PAO [From where the bill was drawn]	: Pay & Accounts officer - III, PAO - III
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	RB 94,0001-
12.	Unspent Balance, if any, in Current year :	Nil
13.	Purpose of Utilisation	: RSD Project
	CERTIF	ICATE

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. .....

Date 12.04.202



Dipankon Sanyal

Signature with Official Stamp

# DIPANKAR SANYAL Chartered Accountants

57, Bidhan Pally. Jadavpur University Kolkata-700 032 Ph- 9903227510

### 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.

Dipankan Samyal 12.04.2021





57, Bidhan Pally Jadavpur University Kolkata-700 032 Ph- 9903227510

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
	in the second second second second	
2.	Outsourcing of sample	10000.00
	analysis	
3.	TA for field work	30000.00
	sampling	
4.	Repography	3000.00
5.	Postage and stationary	3000.00
6.	Report preparation and	5000.00
	auditing	and the second second second
7.	Miscellaneous	3000.00
	Total	94000.00

Dipankar Sangal 12.04.2021



### Statement of Expenditure (SoE)

Program: R.S. D. Project (Developing Physiological ..... Eastern Himalaya Venue: Netaji Nagaz Day College Duration: 2 years 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	405729.0
	1, (1) 1 = 1	2.94000.00	94000.00
Amount received from other Institution/ Organisation/ other means etc.		3.	
Organisation, other means energy		4.	
Amount contributed from own Institution/		5.	
Organisation		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.

(Sane) | ST | P | S & T | 1G-30 | 2017 dated 24 | 03 / 2018 of Rs. 499729.00 5 (Sanc.) | ST / P | S & T | 1G-30 | 2017 28 / 01 / 2020

ishna Grangopadhyay

Name & Signature of Program Coordinator

Abjash 12.04.21 Dipankar Sangel

Name & Signature of Head of the Institution

Name & Signature of Chartered Accountant

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



All communications are to be addressed to the Joint Secretary by designation and not by name



UNIVERSITY GRANTS COMMISSION EASTERN REGIONAL OFFICE LB 8 Sector III Salt Lake, Kolkata 700 098 Phone : (033) 2335 4767 Fax : (033) 2335 0586

No. F.PSW-102/15-16 (ERO)

The Principal, Netaji Nagar Day College 170/436 N S G Bose Road, Kolkata <u>West Bengal-700092</u>

2 6 SEP 2017

# Subject : Approval of financial assistance to Dr./Mr./Ms Dr. Ujjwal Kumar Pahari, Department of Mathematics of your college for Minor Research Project regarding.

Sir/Madam,

1. The University Grants Commission has approved the proposal of Minor Research Project mentioned hereinabove as per the recommendations of the Expert Committee and has also approved an allocation of ₹ 260000/- for the project as per details given below :

Non-Recurring Items :	Amount (In ₹)		
Books and Journals	70000/-		
Equipment	70000/-		
Recurring Items :			
Travel and Field Work	60000/-		
Hiring Services	0/-		
Chemicals and Consumables	0/-		
Contingency (including special needs)	60000/-		
Total :	260000/-		

- 2. The terms and conditions of the grant will be as per the Guldelines of the scheme.
- 3. A sanction letter (100% of non-recurring and 50% of recurring grant) is enclosed herewith.
- 4. The college is requested to submit 'Acceptance Certificate' duly signed by the Principal and The Principal Investigator after receiving this letter.
- 5. The date of implementation will be the date of receipt of the first instalment by the college and it may be intimated in the Acceptance Certificate. The tenure of the Project will be for two years for all subjects.

Yours sincerely,

(Dr. Mohammad Arif) Joint Secretary

Copy forwarded for information & necessary action to;

- 1. The Registrar, Calcutta University.
- 2. The Director, Higher Education, Government of West Bengal state, state Secretariat,
- 3. Dr./Mr./Ms Dr. Ujjwal Kumar Pahari, department of Mathematics
- 4. Guard File

(Vinod Sharma) Under Secretary

	UNIVERSI	TY GRANTS	COMMISSION		0
	EASTE	RN REGION		TFR-2017	-18-
	LB 8 Sector	III Salt Lake	Kolkata 700 098		-
न विग्रान विमुक्तये				•	
<sup>IO.</sup> PSW-102/15-16	(ERO) ID No. W	C2-087	Date: 23-Jun-17	2. K.	· · ·
he Accounts Officer/DDO		C2-087			
iniversity Grants Commission			S.No. 300403		1038
astern Regional Office, Kolkata 700	098		pndcollege	NBICO 0000	
Sub ; Release of Gra	Int-In-Ald under th	Behama of Min	- Deservel Drolest in St		
during 12th Pla	in in the year 2017-	18 to Netall Nag	ar Day College		
ir/Madam,					
m directed to convert the assessment			[]		
am directed to convey the sanction wards the scheme Minor Research	ch Project in Scien	for payment of Rs.	200000		
(ne Mincipal, Netali Nagar Day C	College				
the Plan expenditure to be incurre	d during the current	finandal year as pe	er details given below:		
urpose of the grant	Approved	Amount	Amount being	Total grant released	7
r. U.K.Pahari, Mathematics	allocation	already	sanctioned	Including Gen/SC/ST	
t instalment	(Rs.)	sanctioned (Rs.)	now (Rs.)	component (Rs.)	
P-Non-Recurring	140000	0	140000	140000	7
P-Recurring	120000	0	60000	60000	
· ·	•	-		•	
			1		
		Total 20	00000		
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		General:Rs.	U Total:Rs.	•	
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# Annexure – V

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

# Utilization certificate

Certified that the grant of Rs. 200000/- (Rupees Two Lac only) received from the University Grants Commission under the scheme of support for Minor Research Project entitled "Modeling Food-Web Dynamics: Complexity, Stability and Implications" vide UGC letter No. F. PSW-102/15-16 (ERO) dated 23-June-2017 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University Grants Commission.

JBJash 29.01.22 PRINCIPAL

**Principa** PRINCIPAL INVESTIGATOR Netaji Nagar Day College Kolkata- 700 092

**Y AUDITOR** STATUTOR 29/01/2022

D. Bandyopadhyay, Proprietor M. No.- 057861 for DEBASIS BANDYOPADHYAY & CO. Chartered Accountants

UDIN-22057861 AAAACG 4492

<b>NETAJI NAGAR</b> (Under Graduate & Pos Affiliated to Univ Accredited by 170/436, N.S.C. REGENT ESTATE –	et Graduate Institution) ersity of Calcutta NAAC (B <sup>++</sup> ) BOSE ROAD
Ref. No	Date:
To The Joint Secretary, University Grants Commission, Eastern Regional Office, L B 8 Sector III Salt Lake, Kolkata - 700098 Sub: Submission of Final Rep (S. No. 300403	Forwarded JB Jash 31. 01 2022 Principai Netaji Nagar Day College Kolkata- 700 092 ort of Minor Research Project dated 23 <sup>rd</sup> Jun 2017)
Respected Sir,	
This is to inform you that I am hereby submitting the F PSW-102/15-16 (ERO) dated 23-June-2017) entitled "Mo Stability and Implications" for the period from 20.11.2017 to In this context, I am submitting also one bound copy of	o 19.11.2019.
Thanking you.	
	Sincerely yours, Vizwal Kumar Pahari

Date: 31.01.2022

Dr. Ujjwal Kumar Pahari Principal Investigator (UGC-MRP No. F PSW-102/15-16 (ERO)) Department of Mathematics, Netaji Nagar Day College, Kolkata-92

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