

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

Application Format for Science Popularization Programme

1. Programme Type (ref SN11 of the Memorandum): WORKSHOP ORGANIZED BY COLLEGE
2. Title of the proposed Programme: **WBDSTBT-sponsored Workshop on Microplastic and Nutrient-driven River Pollution in the River Ganga**
3. Target Group (Faculty, Teacher, Research Scholar, School/College/ University Student, Community): **COLLEGE/ UNIVERSITY STUDENT, RESEARCH SCHOLAR**
4. Duration (days):. 2 ; Tentative Dates of the proposed Programme: 29-30 January, 2026
5. Aims, Objectives and Details of the Programme (attach separate sheet, if necessary): VIDE **ANNEXURE III**
6. Name, Designation, Postal Address, mobile no. and e-mail id of the (only one) Programme Co-ordinator (PC) (attach separate sheet, if necessary): VIDE **ANNEXURE IV**
7. Legal status of the Institute (School/College/ University/Institute/ Polytechnic/ ITI/ Autonomous body/ registered NGO/ Trust etc.): **Govt. Aided College**
8. Datewise detail Programme Schedule (attach separate sheet, if necessary): VIDE **ANNEXURE V**
9. Collaborating Institutions/ Organizations, if any, with their specific contribution: VIDE **ANNEXURE VI**
10. Expected number of participants and list of Resource Persons/ Invited Speakers: VIDE **ANNEXURE VII**
11. Give details of the grant received from DSTBT in last three Financial Years, if any along with the date of submission of UC, Audited SoE, Report etc: **None**
12. Name and address of the authority to whom the allotted amount is to be credited (if sanctioned) who will also be responsible for submitting the UC, audited SoE, Programme Completion Report, Feedback, Still and Video photographs etc. of the grant: **Principal (Acting), Serampore College..**
13. Total Estimated Expenditure (A)/ Organisation's contribution (B)/ Contribution from any other sources (C) / Grant expected from DSTBT (D):
D : ₹ 1,35,000/- = (A: ₹ 1,50,000 - B: ₹ 15,000/- - C: ₹ 0/-)

(provide detail Budget break-up as per Annexure-I and Bank details as per Annexure-II):

CheckList (put tick) of attachments to be submitted with the application

- Proposed Total Budget with break-up (Annexure-I) and Bank Details (Annexure-II) in Institute/ Organization's letter head: **YES/NO**
- For registered NGO/Trust, filled in Application Format recommended by the appropriate Recommending Authority, viz., Jt.BDO/ BDO/ SDO/ DM/ Executive Officer- Municipality/ Commissioner-Municipal Corporation as the case may be (where the programme is actually going to be held): **YES/NO**
- For registered NGO/ Trust, attested copies of the registration certificate, latest renewal certificate, Memorandum and Rules & Regulations of the Organization, last three years Audited Statement of Accounts, Annual Reports etc., List of recommended beneficiaries: **YES/NO**

D E C L A R A T I O N

Certified that the details furnished in the filled in format are correct to the best of our knowledge & belief and that the amount of financial assistance, if sanctioned, will be utilized for the purpose for which it is granted within the time as prescribed by DSTBT. We also undertake to abide by the General Guidelines and Terms & Condition prescribed by DSTBT and provide due coverage to DSTBT during the Programme and publications/ print and electronic media made from the Programme in future. We also declare that within one month after completion of the Programme we shall submit the Utilisation Certificate (UC), Audited Statement of Expenditure (Audited-SoE), Programme Completion Report, Feedbacks from the Participants, still and video photographs etc.

Signature: 

Date: December 15, 2025

Name of Programme Coordinator:

Dr. Subhadeep Sarker

Designation: Associate Professor

Address: Dept. of Zoology, Serampore College

Signature: 

Date: December 15, 2025

Name of Head of the Institution:

Dr. Subhro Sekhar Sircar

Designation: Principal (Acting)

Address: Serampore College,
Serampore, Hooghly



(Office Seal)

Principal (Acting)
Serampore College
Serampore, Hooghly

R E C O M M E N D A T I O N
(only for registered NGO/Trust)

Certified that the said Organisation is reputed in this field and I/ we recommend the said proposal for getting grant-in-aid from DSTBT, Govt of West Bengal for the benefit of the local College/ University Students/ Community etc.

Signature:

Date:

Name of Recommending Authority:

Designation:

Address:

(Office Seal)

Annexure-I

Proposed Total Budget with break-ups

A. Total Estimated Expenditure

Sl. No.	Items required with justification and rate	Total Expenditure (A) (₹)
1.	Honorarium to Resource Persons/ Experts @ 3000/- X 5	15,000/-
2.	Study materials @ 90/- X 120 = 10,800/- Consumables expenses 51,000/-	61,800/-
3.	Hall rent,if any	NIL
4.	Publicity materials @ 500/- X 10	5000/-
5.	Travel expenses	NIL
6.	T.A.to the external Resource Persons/ Experts	5000/-
7.	Documentation expenses including audio- visual	5000/-
8.	Light refreshments LUNCH @ 150/- X 2 days = 300/- Tea & Snacks @20/- x 2 days = 40/- Total @ 340/- x 125 (Participants, resource persons, college officials and support staff)	42,500/-
9.	Auditors' fee	1000/-
10.	Other expenses, if any (please specify) a) Certificates @ 30/- x 100 = 3000/- b) Decorator 10,000/- c) Electrician 1700/-	14,700/-
Grand Total Expenditure(₹):		1,50,000/-

Please mention:

B. Institution/ Organization Contribution *in ₹ 15,000/-

C. Contribution from any other sources (with name & Address) in ₹ 0/-

D. Grant expected from DSTBT (₹) = (A-B-C) 1,35,000/-

Annexure II**Bank details of the Applicant Organisation**

Name of the Organization	SERAMPORE COLLEGE
Bank Account number& name of the Account holder / Organization	918010040331596 Serampore College
Type of Account (Savings or Current A/c)	Savings
Name of the Bank	AXIS BANK
Name of the Branch with Branch address	Serampore (WB), 712201 Holy Home Branch
IFSC of the Branch	UTIB0000443
Mobile Number of the Programme Coordinator/ Head of the Organization	Dr. Subhadeep Sarker, Program Coordinator 9830852565
PAN/TAN of the Account holder / Organization	AAABS1441F

WBDSTBT-sponsored Workshop on Microplastic and Nutrient-driven Pollution in the River Ganga

About the Program

Pollution of both lotic and lentic water systems has become a matter of serious concern, particularly by contaminants from domestic sewage and plastic, in urban setup. Water quality in mighty river systems like Ganga, under this scenario, requires regular monitoring which might ultimately lead to policy making or amendment of existing policy. The primary aim of this workshop is to build interdisciplinary scientific capacity for understanding and assessing contamination in the Ganga River, with specific emphasis on the stretch beside the historical and densely populated town of Serampore.

Aims of the Workshop

This workshop is designed to train participants in simple and reliable approaches for analysing microplastics and dissolved nutrients (nitrate and phosphate) in river water. Continuous nitrate and phosphate influx from non-point anthropogenic sources is contributing to measurable declines in aquatic biodiversity and fish populations, with direct implications for local fisheries and livelihoods. The programme will cover field sampling, sample preparation, microscopic identification of plastic fragments and nutrient estimation procedures. Participants will also study plankton diversity as a direct indicator of nutrient enrichment and pollution stress, given their fundamental position at the base of the lower aquatic food web.

The workshop aims to familiarise researchers and students with current analytical practices and recent findings related to microplastic contamination and nutrient-driven degradation of the riverine ecosystem. The expected outcome is to develop a trained group capable of monitoring these contaminants, linking water-quality data with plankton responses, and contributing to effective local management actions in the lower Ganges around Serampore.

Objectives of the Workshop

1. To train participants in field sampling, sample preparation and laboratory analysis of microplastics and dissolved nutrients (nitrate and phosphate) in riverine ecosystem and utilise plankton as biological indicators of pollution stress within the lower aquatic food web.
2. To generate baseline microplastic–nutrient pollution data for the Serampore stretch of the Ganges and strengthen monitoring capacity to support local ecological assessment and management decisions.

Details of the Program Coordinator (PC):

Name: Dr. Subhadeep Sarker

Designation: Associate Professor

Postal Address: Department of Zoology for UG and PG Studies, Serampore College,
Serampore, Hooghly, PIN: 712201, West Bengal

Mobile no.: 9830852565

Email id: ssar1503@gmail.com

Date-wise Detailed Programme Schedule

WBDSTBT-sponsored Workshop on Microplastic and Nutrient-driven River Pollution in the River Ganga

Day 1 – Water Quality, Nutrients and Microplastics

Time

09.30 – 10.30	Registration
10.30 – 11:00	Inaugural Address by Dignitaries
	<i>Session 1</i>
11:00 – 11:15	Overview of the Ganga at Serampore: hydrochemistry and anthropogenic inputs
11:15 – 11:45	Introduction to emerging contaminants with emphasis on microplastics
11:45 – 12:15	Methodologies for sampling and extraction of microplastics
12:15 – 13:00	Analytical approaches & imaging techniques for microplastics
13:00 – 14:00	Lunch
	<i>Session 2</i>
14:00 – 16:00	Demonstration: Water sampling, nutrient evaluation procedures
16:00 – 16:15	Tea Break
16:15 – 16:30	Discussion & day-end reflections

Day 2 – Lower food web (plankton) based biomonitoring

Time

	<i>Session 3</i>
10.00 – 11:00	Introduction to plankton-based monitoring
11:00 – 13:00	Plankton sampling techniques and field collection protocols
13:00 – 14:00	Lunch
	<i>Session 4</i>
14:00 – 15:30	Collection of water sample from Ganges
15:00 – 16:00	Identification and diversity of planktons
16:00 – 17:00	Valedictory Session and certificate distribution

Name of the collaborating institute:

Estuarine and Coastal Studies Foundation (ECSF)

Registered Office: 10/5 Amrita Pyne Lane, Howrah 711101

Laboratory & Correspondence Office: 111+112 Deshapran Shasmal Road, Howrah 711101

Contact no.: 9830622766

Email id: admin@ecsfindia.org

Specific Contribution:

- Providing technical knowhow and methodology for the workshop as expert contribution
- Field collection of water and soil sample from riverine ecosystem.
- Isolation, enumeration and physical identification of plastic particles from the environmental matrices.
- Quantitative estimation of nutrients (nitrate and phosphate) from water and soil of Ganga.
- Collection, estimation and identification of planktons from water of Ganga.

Estimated no. of participants: 120

List of Resource Persons:

1. Dr. Arunodaya Gautam - Co-ordinator from ECSF
2. Dr. Jhimli Mondal - Resource Person, ECSF
3. Dr. Sourav Paul - Resource Person, ECSF
4. Mr. Nairit Panday- Demonstrator
5. Ms. Puja Mishra- Demonstrator