

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 SN 11 of the Memorandum) :** Workshop organized by Department of Chemistry, Prabhu Jagatbandhu College, Andul, Howrah- 711 302.
- 2. Title of the proposed Programme:** Waste to Wealth Leading to Zero Waste City.
- 3. Target Group (Faculty, Teacher, Research Scholar, School/College/ University Student, Community):** Faculty, school teachers, students of college and local people
- 4. Duration (days):** 2 days, Tentative Dates of the proposed Program: 13th – 14th March, 2026.

5. Aims, Objectives and Details of the Programme (attach separate sheet, if necessary):

- To convert waste to business and employment

Generation of waste through anthropogenic activities is inevitable. The principle of circular economy to reduce, reuse and recycle will be suitably applied in order to transform these “secondary resources” through appropriate channels into a viable business model.

- Waste utilization

Analysis of waste and its segregation into biodegradable (compost/earth component) and non-biodegradable (plastic component) will be considered through survey work. Areas into which the biodegradable component can be used will be studied giving special attention to landfill, infrastructural development and fertilizers (compost). The utilization of non-biodegradables or plastics for biofuels and other industrial composites will be contemplated.

- Impact on health

Health hazards owing to waste cannot be ignored. The ineffective disposal of waste is a threat to the urban dwellers and the environment in general. Accumulation of untreated waste not only adds pollutants to the environment; it is a root cause of attracting insects and rodents which spread diseases like cholera and dengue fever. An assessment of such situation will be the objective of the survey work conducted during the workshop.

The primary aim of the workshop will be to understand and gain insight into the waste management situation in our surrounding and give mitigation measures to policy makers. It will also aim to probe into areas to maximize reuse of waste and recycling and also delve into public health concerns and preventive measures.

6. Name, Designation, Postal Address, mobile no. and e-mail id of the (only one) Programme Co-ordinator (PC) (attach separate sheet, if necessary):

Name- Dr. Kakoli Banerjee
Designation- Associate Professor (Chemistry)
Postal Address: Department of Chemistry, Prabhu Jagatbandhu College, Andul-Mouri-Howrah-711-302.
Email id- kakolika@gmail.com
Mobile no. 9830040709

7. Legal status of the Institute (School/College/ University/ Institute/ Polytechnic/ ITI/ Autonomous body/ registered NGO/ Trust etc.):

State Government aided college under 2F & 12B of the UGC Act,1996.
Affiliated to University of Calcutta.

8. Date wise detail Programme Schedule (attach separate sheet, if necessary):

13th March (First day of workshop) - 10.0 am to 5.0 pm
14th March (Second day of workshop) -10.0 am to 4.0 pm

9. Collaborating Institutions/ Organizations, if any, with their specific contribution:

- a. International Society of Waste Management, Air and Water (ISWMAW) – will contribute with the expert services provision for conducting the workshop
- b. Institute of Engineering and Management, Salt Lake – Will provide Resource person and participants
- c. GNIT, Kolkata – Will provide Resource person and participants

10. Expected number of participants and list of Resource Persons/ Invited Speakers: 60 (Participants 50 + Resource person 10)

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.:

Project entitled: Efficiency evaluation of natural biosorbents in the removal of toxic metals and anions in industrial and agricultural wastewater

Amount: 4,45,000/- (total)

G.O No. & Date: 1853(Sanc.)/ST/P/S&T/15G-4/2019 dated 14.02.2020

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:

Dr. Subrata Kumar Ray (Designation: Principal of Prabhu Jagatbandhu College)

13. Total Estimated Expenditure (A)/ Organisation's contribution (B)/ Contribution from any other sources (C) / Grant expected from DSTBT(D):

D : ₹.....1,64,000.00..... = (A: ₹...1,64,000.00.....– B:
₹.....0..... – C: ₹.....0.....)

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

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

- a. Proposed Total Budget with break-up (Annexure-I) and Bank Details (Annexure-II) in Institute/ Organization's letter head: **YES**
- b. 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): **NA**
- c. 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: **NA**

Programme Schedule (Tentative)

13th March 2026 (First day of workshop)

9.30am – 10.00 am: Registration; Tea will be served

10:00 am -10:30 am – Inauguration

10:30 am – 01:00 pm – **Three keynote speeches**

10.30 – 11.15 am : Waste to Business: Prof. Sadhan Kumar Ghosh, Director General, Sustainable Dev. & Circular Economy Research Centre, ISWMAW

11.20 – 12.00 pm: Best Practices and future plan in Waste Management in West Bengal -Chief Engineer, Director General, SWM, KMC OR Joly Chowdhury, SUDA, Chief of the Waste Management Project, Baidybati Project

12.10 – 12.40 pm: Zero Waste and Circular Economy in Campus – Dr. Chaitali Mukherjee, Asst. Teacher, Santoshpur Rishi Aurobindo Balika Vidyalaya and Coordinator, Mission CTY: ZWCEC

12:40 pm – 01:10 pm: Question Answer and Discussion

12:55 pm – 01:10 pm: division of field visit team and explaining the field work

1.10 – 1.45 pm: Lunch

01:45pm – 5:00 pm – Field visit (Detail questionnaire will be planned based on the field)

Plan: Three groups will be visiting to three waste management sites

- Baidybati Project
- Kolkata Dhapa Dumping ground
- Howrah Dumping ground

The participants will study the process and collect data on a specified format i.e. questionnaire provided by the organizing committee

They will observe the situation of the environment around the dumping sites and take feedback from all stake holders. The group will prepare a presentation and a report to be presented on the second day of workshop i.e., on 14th March 2026

14th March 2026 (Second day of workshop)

10:00 am – 11.10 am – Presentation of the PPTs by the group of participants about their field visit (The group will be divided by the Organizing Technical Experts). Each of the three groups will be given 20 minutes for presentation.

11:10 am – 11.45 am – Question & Answer session followed by Discussion

11.45 am – 12.00 pm: Tea Break

12.00 – 01.00 pm – Group Dynamics: The group and individual will develop individual/Group action plan based on the field level experience on following broader topics. Experts will help in developing the outcome based action plans.

1. To convert waste to business and employment

2. Waste Management

3. Circular Economy

4. Waste utilization

5. Impact on health

01:00 pm – 01:45 pm – Lunch Break

1.45 – 3.30pm: Panel Discussion

Panel Speakers:

01:45 pm – 02:15 pm – Valorization to get value added products - Prof. Ranjana Das, Associate Professor, Department of Chemical Engineering, Jadavpur University

02:15 pm – 02:45 pm – Waste to Cement - Prof. Rahul Baidya, Professor, Department of Mechanical Engineering, and Head, Office of Sustainability, IEM, Salt Lake

02:45 pm – 03:15 pm – IoT application in Waste Management - Dr. Ipsita Saha, Associate Professor, Department of Computer Sc. & Engg., GNIT, Kolkata

3.15 to 3.45pm: Open House Discussion

03:45 pm – 04:00 pm – Valedictory and certificate distribution

Prabhu Jagatbandhu College

JHOREHAT, ANDUL-MOURI, HOWRAH - 711302
 BLOCK - SANKRAIL, SUB-DIVISION - HOWRAH SADAR
 (NAAC ACCREDITED)

Ref. No.

Date : 11.12.2025

DECLARATION

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: *Kakoli Banerjee* Dr. Kakoli Banerjee
 Associate Professor
 Department of Chemistry
 Prabhu Jagatbandhu College
 Andul-Mouri, Howrah-711302

Name of Programme Coordinator: Dr. Kakoli Banerjee

Designation: Associate Professor, Department of Chemistry

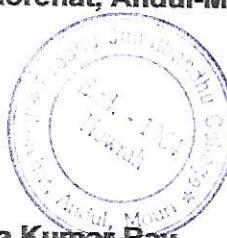
Address: Prabhu Jagatbandhu College, Jhorehat, Andul-Mouri, Howrah- 711 302

Signature: *Subrata Kumar Ray* Principal
 Date: 11.12.25 Prabhu Jagatbandhu College
 Jhorehat, Andul-Mouri, Howrah-711302

Name of Head of the Institution: Dr. Subrata Kumar Ray

Designation: Principal, Prabhu Jagatbandhu College

Address: Prabhu Jagatbandhu College, Jhorehat, Andul-Mouri, Howrah- 711 302



Prabhu Jagatbandhu College

JHOREHAT, ANDUL-MOURI, HOWRAH - 711302
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Annexure-I
Date : 11.12.2025

Proposed Total Budget with break-ups

| Sl. No. | Items required with justification and rate | Total Expenditure (A) (₹) |
|------------------------------|--|--|
| 1. | Honorarium to Resource Persons/ Experts 10 @ 2000/- | 20,000/- |
| 2. | Study materials, Consumables expenses 60 @ 150/- | 9000/- |
| 3. | Hall rent, if any | To be provided by Prabhu Jagatbandhu College |
| 4. | Publicity materials (Digital advertisement board/ Banner) | 10,000/- |
| 5. | Travel expenses (3 site visits for collection of data by participants) 3@10000/- | 30,000/- |
| 6. | T.A. to the external Resource Persons/ Experts 10 @ 1000/- | 10,000/- |
| 7. | Documentation expenses including audio-visual (videography at 3 sites plus at the workshop venue for 2 days) 3@ 5000/- + 5000/- | 20,000/- |
| 8. | Light refreshments (all participants & office staff for 2 days) | 40,000/- |
| 9. | Auditors' fee | 5,000/- |
| 10. | Other expenses, if any (please specify) – sound system, digital screen at venue, welcome kit for resource persons, certificates | 20,000/- |
| Grand Total Expenditure (₹): | | 1,64,000/- |

A. Total Estimated Expenditure

Please mention:

B. Institution/ Organization Contribution* in ₹ 0

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

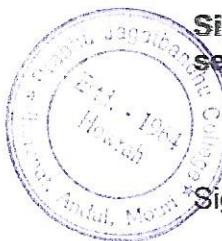
D. Grant expected from DSTBT (₹) = (A-B-C) = 1,64,000/-

Dr. Kakoli Banerjee
 Associate Professor
 Department of Chemistry
 Prabhu Jagatbandhu College
 Andul-Mouri, Howrah-711302

Signature of Authorised Personnel with seal

Principal
 Prabhu Jagatbandhu College
 Jhorehat, Andul-Mouri, Howrah
 Pin Code- 711 302

Signature of Authorised Personnel with seal



Prabhu Jagatbandhu College

JHOREHAT, ANDUL-MOURI, HOWRAH - 711302
 BLOCK - SANKRAIL, SUB-DIVISION - HOWRAH SADAR
 (NAAC ACCREDITED)

Ref. No.

Date : 11.12.2025
Annexure-II

Bank details of the Applicant Organisation

| | |
|---|---|
| Name of the Organization | Prabhu Jagatbandhu College |
| Bank Account number & name of the Account holder/ Organization | Prabhu Jagatbandhu College 04030200000107 |
| Type of Account (Savings or Current A/c) | Current A/c |
| Name of the Bank | UCO Bank |
| Name of the Branch with Branch address | Jhorehat Andul Howrah -711 302 |
| IFSC of the Branch | UCBA0000403 |
| Mobile Number of the Programme Coordinator/ Head of the Organization | 9830040709 (Programme Coordinator) 8777589465 (Principal) |
| PAN / TAN of the Account holder/ Organization | CALPO1394B |



Principal
 Prabhu Jagatbandhu College
 Jhorehat, Andul- Mouri, Howrah
 Pin Code- 711 302

Signature of Authorised Personnel with seal