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 for Science Popularization Programme

1. Programme Type:
   Conference to be Organized by Department of Chemistry, Ramananda College, Bishnupur, Bankura

2. Title of the proposed Programme:
   Emerging Trends in Photovoltaic Energy Research

3. Target Group:
   College and University Faculties, Research Scholars, Students of UG and PG Level.

4. Duration : **2 days**;
   Tentative Dates of the proposed Programme: **26/02/2026 & 27/02/2026**

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

   Annexure A

6. Name, Designation, Postal Address, mobile no. and e-mail id of the (only one) Programme Co-ordinator (PC) (attach separate sheet, if necessary):
   Dr. Shyamashis Das, Assistant Professor, Department of Chemistry, Ramananda College, Bishnupur, Ph. No. +91 8197888543, Email ID: ssdas291@gmail.com

7. Legal status of the Institute (School/College/ University/ Institute/ Polytechnic/ ITI/ Autonomous body/ registered NGO/ Trust etc.):
   Government Aided Degree College affiliated to Bankura University

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

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

   Department of Physics, Ramananda College, Bishnupur

10. Expected number of participants and list of Resource Persons/ Invited Speakers:

    Expected number of participants: 50

Resource Persons:

(a). Dr. Swapan Kumar Pradhan, Department of Physics, University of Burdwan

(b). Dr. Priya Mahadevan, S. N. Bose National Centre for Basic Sciences, Kolkata

(c). Dr. Debraj Choudhury, Department of Physics, IIT Kharagpur

(d). Dr. Nirmal Kumar Hazra, Egra Sarada-Shashi Bhushan College, Egra, Purba Medinipur

(e). Dr. Bidyut Kumar Senapati, Midnapore College, Midnapore

(f). Dr. Sourav Laha, Department of Chemistry, NIT Durgapur

11. Give details of the grant received from DSTBT in last three Financial Years, if any alongwith the date of submission of UC, Audited SoE, Report etc.: NA

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. Sudipta Kumar Ghorai
    Principal
    Ramananda College
    Bishnupur, Dist. Bankura
    Pin 722122

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

    D : ₹ 1,50,000/- = (**A**: ₹ 2,40,000/- – **B**: ₹ 50,000/- – C: ₹ 40,000/-)

Check List (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~~**
- Forregistered NGO/Trust,filled inApplication Format recommendedbythe 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 recommendedbeneficiaries: **~~YES~~/NO**

D EC L ARATION

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 electronicmediamadefrom the Programme infuture.Wealso 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: Shyamashis Das.

Date: 12/12/2025

Dr. Shyamashis Das

(Name of Programme Coordinator)

Designation: Assistant Professor

Address: Department of Chemistry, Ramananda College

Signature: Sudipta Kumar Ghorai

Date 12/12/2025

Dr. Sudipta Kumar Ghorai

(Name of Head of the Institution):

Designation: Principal

Address: Ramananda College, Bishnupur

Principal
Ramananda College
Bishnupur, Bankura

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) BISHNUPUR

Annexure-I

Proposed Total Budget with break-ups

A. Total Estimated Expenditure

Sl. No.	Items required with justificationandrate	Total Expenditure (A) (₹)
1.	Honorarium to Resource Persons/ Experts	12000/-
2.	Study materials, Consumables expenses	20000/-
3.	Hall rent, if any	Nil
4.	Publicity materials	12000/-
5.	Travel expenses	5000/-
6.	T.A. to the external Resource Persons/ Experts	30000/-
7.	Documentation expenses including audio-visual	15000/-
8.	Light refreshments	20000/-
9.	Auditors' fee	2000/-
10.	Other expenses, if any (a) Food Expenses (2 Lunch + 1 Breakfast + 1 Dinner) (b) Registration kits for participants (c) Decoration (d) Sound System (e) Cultural Function	100000/- 5000/- 6000/- 3000/- 10000/-
Grand Total Expenditure(₹):		240000/-

Please mention:

B. Institution/ Organization Contribution* in ₹50000/-

C. Contribution from any other sources (with name & Address) in₹ 40000/- (Collection of registration fees from participants)

D. Grant expected from DSTBT (₹) = 150000/- (A-B-C)

RAMANANDA COLLEGE ESTD.-1945 (BANKURA) BISHNUPUR

Sudipta Kumar Ghorai

Signature of Authorised Personnel with seal

Principal
Ramananda College
Bishnupur, Bankura

*At least10%ofthetotalbudgetcontributionfromtheInstitute/Organizationisdesirable

Annexure-II

Bank details of the Applicant Organisation

Nameofthe Organization	Ramananda College
Bank Account number & Name of the Account holder / Organization	10617702224 Ramananda College
Type of Account (Savings or Current A/c)	Current
Name of the Bank	SBI
NameoftheBranchwithBranchaddress	Bishnupur, Post Bag No. 3, Baliapara, Bankura 722122
IFSC of the Branch	SBIN0000044
Mobile Number of the Programme Coordinator	8197888543
PAN / TAN of the Account holder / Organization	CALR05413C

Sudipta Kumar Ghorai

Signature of Authorised Personnel with seal

Principal
Ramananda College
Bishnupur, Bankura

RAMANANDA COLLEGE
ESTD.-1945
(BANKURA)

Annexure A

Aims and Objectives:

The primary aim of this science popularisation programme is to disseminate knowledge on solar energy technologies among students, educators, early-career researchers, and the general public. The programme seeks to popularise scientific understanding of solar energy by translating advanced research concepts into simplified, engaging, and accessible forms, enabling wider societal participation in clean energy awareness.

An important objective of this initiative is to cultivate scientific temper and curiosity among undergraduate and postgraduate students by exposing them to the fundamental principles and recent innovations in photovoltaic and solar thermal technologies. By highlighting real-world applications and future prospects of solar energy, the programme aims to inspire young learners to pursue careers and research opportunities in renewable energy and allied scientific disciplines.

The programme also aims to bridge the gap between cutting-edge research and public understanding by bringing together scientists and educators to interact directly with students. Through expert lectures, demonstrations, and interactive discussions, complex topics such as high-efficiency solar cells, advanced photovoltaic materials, energy storage systems, and smart-grid integration will be explained in a manner that is comprehensible to non-specialists.

Another key objective is to promote collaboration and knowledge exchange between research institutions, universities, and undergraduate colleges. By fostering interaction between established researchers and young participants, the programme seeks to strengthen academic networks and encourage collaborative initiatives in renewable energy education and outreach. The programme aligns with global and national initiatives aimed at reducing carbon emissions and achieving renewable energy targets.

Furthermore, this programme intends to raise awareness about emerging solar technologies such as perovskite solar cells, tandem structures, and hybrid energy systems, emphasizing their potential role in addressing energy demands in an environmentally responsible manner. By presenting these developments through popular science communication approaches, the programme will help participants appreciate the relevance of scientific research in solving societal challenges.

Programme Details:

The programme will be conducted over a period of two days, comprising four structured thematic sessions designed to maximise outreach, engagement, and knowledge dissemination. Invited resource persons with expertise in solar energy research and technology development will deliver one-hour lectures in each session. These lectures will be designed with a popular science orientation, incorporating simplified explanations, visual presentations, real-life examples, and, wherever feasible, experimental demonstrations or working models. Topics will include fundamentals of solar energy conversion, advancements in photovoltaic materials, device engineering, system design, energy storage integration, and grid-connected solar technologies.

In addition to expert talks, the programme will feature interactive segments such as question–answer sessions, open discussions, and case-study presentations to encourage active participation. These interactions will help participants relate theoretical concepts to practical applications, such as rooftop solar systems, rural electrification, and sustainable urban energy solutions.

A dedicated session will be reserved for participants, particularly students and young researchers, to present their understanding and ideas related to solar energy. Participants will have the opportunity to showcase their work through short oral presentations, poster displays, or model demonstrations, thereby enhancing their communication skills and confidence in presenting scientific concepts. This session will also serve as a platform for peer learning and constructive feedback from experts.

The programme will further provide networking opportunities, enabling students and educators to interact with eminent researchers and academicians working in the field of photovoltaic science and renewable energy. Such interactions are expected to motivate participants, broaden their academic perspectives, and encourage long-term engagement in science-based problem solving.

Through a combination of expert lectures, interactive discussions, participant presentations, and popular science communication activities, the programme aims to create a lasting impact by strengthening renewable energy literacy and fostering a culture of scientific inquiry and environmental responsibility among the participants.

Annexure B

Day 1: 26/02/2026

09:00 – 10:00 AM
Registration and Welcome Tea

10:00 – 10:30 AM
Inaugural Ceremony
Welcome Address by Principal, Ramananda College

10:30 – 11:30 AM
Keynote Lecture by Dr. Swapan Kumar Pradhan, Department of Physics, University of Burdwan

11:30 – 12:30 PM
Plenary Lecture by Dr. Priya Mahadevan, S. N. Bose National Centre for Basic Sciences, Kolkata

12:30 – 2:00 PM
Lunch Break and Poster Presentation by Participants

2:00 – 3:00 PM
Technical Lecture by Dr. Debraj Choudhury, Department of Physics, IIT Kharagpur

3:00 – 4:00 PM
Oral Presentation by Six Selected Registered Participants

4:00 – 5:00 PM
Afternoon Tea

5:00 – 6:00 PM
Cultural Function by Local Artists of Bishnupur

Day 2: 27/02/2026

10:30 – 11:30 AM
Lecture by Dr. Nirmal Kumar Hazra, Egra Sarada-Shashi Bhushan College, Egra, Purba Medinipur

11:30 – 12:30 PM
Lecture by Dr. Bidyut Kumar Senapati, Midnapore College, Midnapore

12:30 – 2:00 PM
Lunch Break and Poster Presentation by Participants

2:00 – 3:00 PM

Lecture by Dr. Sourav Laha, Department of Chemistry, NIT Durgapur

3:00 – 4:00 PM
Interactive Session and Poster Presentation by Participants

4:00 – 5:00 PM
Valedictory Session : Award Presentation, Certificate Distribution and Vote of Thanks