



**GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
JHARGRAM RAJ COLLEGE,
JHARGRAM, WEST BENGAL 721507
PHONE: 03221-255022 P. O.: JHARGRAM DIST.: JHARGRAM
Website: www.jrc.ac.in; email: jhargramrajcollege@gmail.com**

From: Principal (WBSES)
Jhargram Raj College

To
The Additional Secretary to the Govt. of West Bengal
Department of Science and Technology and Biotechnology
Govt. of West Bengal
Vigyan Chetana Bhavan
DD-26/B, Sector 1, Salt Lake, Kolkata 700064

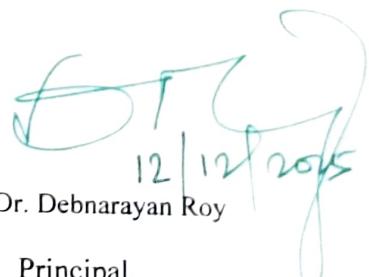
**Sub: Application for Science Popularization Programme on 14th & 15th February entitled
‘Snake-bite Prevention, Management & Community Health Awareness’**

Sir,

We have planned to organize a two day seminar on Popular Science at Jhargram Raj College entitled “Snake-bite Prevention, Management & Community Health Awareness” which will be held on 14th and 15th February, 2026. Herewith we are submitting the proposal and tentative schedule of the seminar along with all necessary documents required for DSTBT funding application.

In this context, I earnestly request you to kindly consider and approve our proposal for grant success of our programme.

With regards,



Dr. Debnarayan Roy

Principal
Jhargram Raj College

Principal
Jhargram Raj College

Enclosure: 1. Annexure I
2. Annexure II
3. Programme Schedule
4. Cancelled cheque
5. Filled DSTBT form

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: **SI No 2 (Seminar/Symposium/Conference/Workshop organized by Colleges)**
2. Title of the proposed Programme: **Snake-bite Prevention, Management & Community Health Awareness**
3. Target Group: Faculty, College Students
4. Duration: **2 days** ; Tentative dates of the proposed Programme: **14th & 15th February 2026**
5. Aim, Objectives and Details of the programme: See attached page (**page number 3 to 5**)
6. Name, Designation, Postal Address, mobile no and email id of the Program Coordinator:

Name: Dr. Ushasi Dutta

Postal Address: Department of Physics, Jhargram Raj College, Jhargram

Mobile Number: 8250397651

Email id: ushasidutta.phy@gmail.com

7. Legal status of the Institute: **Government Degree College**
8. Date wise detail Programme Schedule : **See Page No 6**
9. Collaborating Institutions/Organization, if any, with their specific contribution: **No**
10. Expected number of participants and list of Resource Persons/Invited Speakers: **100**

List of Resource Persons:

1. **Prof. Subir Chandra Dasgupta**
Emeritus Professor, Dept. of Zoology, Belur Vidyamandir
2. **Shri Saikat Sarkar**
Associate Professor in Zoology, GGDC Singur
3. **Dr. Subhendu Bag**
Associate Professor, Medinipur Medical College
4. **Mr. Pranabesh Ghosh**
Green warriors, Kharagpur

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: 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: **Principal, Jhargram Raj College**

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

D: **Rs. 1,35,000/-=(Rs. 1,50,000/-15,000/-Rs.0/-)**

(please see pages 7 for detailed Budget break-up and page 8 for the bank details)

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
- 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

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: *Ushasi Duttar*

Date: 11.12.2025

Name of Programme Coordinator:

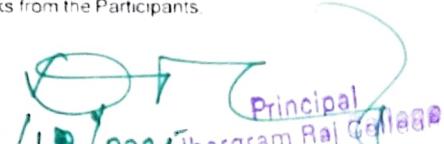
Dr. USHASI DUTTA
Designation: Assistant ProfessorAddress: Jhargram Raj College
Jhargram- (Office Seal)

Signature:

Date:

Name of Head of the Institution: Dr. DEBNARAYAN ROY

Designation: Principal ,

Address: Jhargram Raj College, Jhargram
Pin - 721 507


Principal
Jhargram Raj College

RECOMMENDATION

(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:

(Office Seal)

Address:

Aim, Objectives and Details of the programme

Introduction

Jhargram District of West Bengal lies in a high snake-bite endemic belt where geographical and socioeconomic factors combine to create exceptional vulnerability. The semi-forested landscape, irrigated paddy fields, scattered waterbodies and monsoon climate provide ideal habitat for India's "Big Four" medically important venomous snakes—Russell's viper (*Daboia russelii*), Indian cobra (*Naja naja*), common krait (*Bungarus caeruleus*) and saw-scaled viper (*Echis carinatus*), which together cause the majority of fatal bites in the country. Around 85% of the population is engaged in agriculture and allied work, often barefoot or minimally protected in fields, especially during early morning and evening hours when nocturnal kraits are most active. At the same time, Jhargram's largely rural and economically marginalised communities face long travel times to tertiary hospitals and limited formal education, leading to low health literacy about snake-bite hazards and first-aid. Many victims first consult traditional healers, rely on ritual practices, or use herbal and "cooling" remedies, losing crucial hours for effective antivenom therapy. The proposed two-day seminar therefore aims to transform snake-bite prevention and management by positioning Jhargram Raj College as a nodal centre for scientific awareness, early-treatment advocacy and institutional capacity building, targeting students, highly vulnerable region.

Aims of the Proposed Seminar:

- **Aim 1: Establish an Evidence-Based Knowledge Platform:**

The seminar seeks to build a clear, practical knowledge base on snake-bite envenomation and its management for all stakeholders in Jhargram. It will translate complex scientific and clinical information on venom action, clinical features and treatment into simple, usable guidance for students, Student participants will learn venom composition and mechanisms of organ damage; community members will gain basic literacy in snake identification, correct first-aid and when to go to hospital. As a trusted academic institution with deep rural linkages, Jhargram Raj College is ideally placed to close this information gap through structured sessions and sustained peer-education activities.

- **Aim 2: Bridge the Behavior–Action Gap:**

This aim focuses on converting awareness into correct, timely action during real snake-bite emergencies. The seminar will help participants shift from supernatural explanations to scientific understanding, and show that early hospital care is cheaper and safer than prolonged folk treatment. Messages will be framed to respect local beliefs while clearly promoting evidence-based practice.

- **Aim 3: Reduce Preventable Morbidity and Mortality:**

The clinical goal is to cut snake-bite related illness and death by strengthening every step of the care pathway. The seminar will stress primary prevention through safer farming and environmental practices, and correct first-aid and early referral immediately after a bite. Renowned Medical Practitioner will be invited in the seminar to share their thoughts in this field among the participants.

Objectives: knowledge, skills, attitudes, and behavioral outcomes:

Category A: Clinical and Scientific Knowledge:

- **Objective 1.1: Venom and Mechanisms:**

Participants will identify India's four major venomous snakes and understand how their venoms cause hemotoxic, neurotoxic and myotoxic effects in different organs. They will learn how factors such as bite site, depth and venom load influence severity, replacing mystical explanations with clear biological mechanisms. This scientific grounding will help both students and health workers explain snake-bite pathology rationally to the wider community.

- **Objective 1.2: Clinical Presentations:**

Participants will recognise typical features of Russell's viper, cobra and krait envenomation, and distinguish true envenomation from dry bites using simple clinical algorithms. They will practise rapid severity grading to decide who needs urgent referral and who can be safely observed. This will support timely, consistent decisions in peripheral facilities and villages rather than reliance on guesswork.

- **Objective 1.3: Laboratory Diagnosis:**

Participants will learn how to perform and interpret the 20-minute whole blood clotting time and basic coagulation and renal tests during antivenom therapy. They will understand when to repeat tests, when to re-dose antivenom, and how to work safely where only limited investigations are available. This will allow rational, resource-appropriate monitoring in rural Jhargram settings.

Category B: First-Aid and Emergency Management

- **Objective 2.1: First-Aid Skills**

Participants will be trained to apply WHO-recommended pressure immobilisation, avoid harmful practices like incision or suction, and provide calm reassurance while removing constrictive items.

- **Objective 2.2: Rapid Assessment and Triage**

Participants will learn to quickly distinguish envenomated from non-envenomated bites and categorise cases as mild, moderate or severe. They will document bite-to-first-aid and bite-to-hospital times and communicate key findings to higher centres. Good triage will prevent unnecessary admissions while ensuring severely affected patients are referred without delay.

- **Objective 2.3: Safe Transport**

Participants will understand how to position patients to reduce venom spread, arrange the best available transport, and keep victims calm en route. They will practice informing receiving facilities about clinical status and expected arrival. This training recognizes Jhargram's poor roads and focuses on doing the best within real-world constraints.

Category C: Community Health Literacy and Behavior Change:

- **Objective 3.1: Myths to Evidence**

Breaking the common local myths about snake-bite and see, in simple language, why these practices fail or cause harm..

- **Objective 3.2: Peer Education**

Student participants will practice explaining scientific information in local, non-technical language using stories, demonstrations. They will map key influencers—teachers, religious

leaders, health workers—who can reinforce messages after the seminar. Each trained student thus becomes a multiplier, spreading correct knowledge well beyond the college campus.

Category D: Environmental Conservation and Coexistence

- **Objective 4.1: Ecological Roles of Snakes**

Participants will learn how snakes control rodents and maintain ecological balance, and how killing them can indirectly harm agriculture. They will see snakes as integral parts of local biodiversity rather than only as threats. This perspective supports coexistence as a long-term risk-reduction strategy.

- **Objective 4.2: Identification and Safe Practices**

Participants will learn to distinguish local venomous from non-venomous species and understand basic snake behaviour and strike distance. They will adopt simple protective measures such as boots, torches and habitat awareness during work. These practical steps directly cut down the number of bites.

- **Objective 4.3: Rescue Instead of Killing**

Interested participants will be oriented to the ethics and methods of safe snake capture and relocation, and how to contact trained rescuers such as Green Warriors. Over time, communities will shift from reflex killing to humane, safer relocation. This reduces conflict while protecting both people and wildlife.

Why Jhargram Raj College is the Optimal Venue :

- **Relevant Academic Strengths:** The college has strong departments of Zoology, Botany and Human Physiology with expertise in animal biology, ecology, toxicology and human physiology, directly supporting scientific and clinical components of snake-bite management.
- **Trusted Local Institution:** As the main higher-education centre in the district for decades, it enjoys deep trust and established linkages with health facilities, schools, panchayats and district administration, which will aid participant mobilisation and follow-up.
- **Right Place, Right Population:** Located in a snake-bite endemic rural block, the college sits close to high-risk villages where most residents are small farmers, forest-fringe dwellers and economically marginalised groups with poor access to tertiary care—the exact target population for the programme.
- **Student Workforce and Continuity:** Large cohorts of life-science students can be trained as peer educators and community volunteers, ensuring that awareness and first-aid skills are carried into villages year after year, beyond the initial seminar.
- **Alignment with Mission and Sustainability:** The programme fits the college's mandate for rural development and social responsibility, and can be repeated or expanded using existing academic structures, making it more sustainable than short-term NGO projects.
- **Platform for Growth:** Success will position Jhargram Raj College as a district-level hub for snake-bite and community-health initiatives, attracting collaborations, resources and future government supported projects.

Two-Day Seminar Programme Schedule (Tentative):

Date: 14-2-2026, 15-2-2026

Title of the program:

“Snake-bite Prevention, Management & Community Health Awareness, Jhargram Raj College”

| Date | Time | Name of the Speaker with topic |
|-----------------------------|--------------------|--|
| 14-2-2026 (Tuesday) | 9:30am-10am | Registration |
| | 10:00am-10:30 am | Inaugural Lecture by Dr. Debnarayan Roy, Principal, Jhargram Raj College |
| | 10:30am-12.30 pm | Prof. Subir Chandra Dasgupta <i>Emeritus Professor, Dept. of Zoology, Belur Vidyamandir</i> Title: Brief description about different insects and sneaks |
| | 12.30 pm -2:15 pm | Speaker: Shri Saikat Sarkar <i>Associate Professor in Zoology, GGDC Singur</i> Title: Community Behaviour Change & Peer Education Strategies Scientific literacy in rural settings; student-led outreach; communication models. |
| | 2:15 pm -2:45pm | Lunch Break |
| | 2.45 pm- 4.15 pm | Bandaging and immobilisation practice; simulated triage; communication drills. Facilitators: Dr. Subhendu Bag* and Shri Saikat Sarkar+ <i>*Resource Person, Snake-bite Management+Associate Professor in Zoology, GGDC Singur</i> |
| 15-2-2026(Wednesday) | 10:30am- 12.30 pm | Dr. Subhendu Bag, Associate Professor, Medinipur Medical College <i>Resource Person, Snake-bite Management</i> Title: <i>Medically Important Snakes of India & Their Venoms</i> Identification of the Big Four; venom composition; ecological roles |
| | 12.30 pm – 2.30 pm | Mr. Pranabesh Ghosh Green warriors,Kharagpur Title: Dealing with wildlife rescue (specially Snake) at Kharagpur town and sub division awareness about sustainable environment |
| | 2.30 pm -3.15 pm | Lunch Break |
| | 3.15 pm -4:00 pm | Valedictory Session |



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Annexure-1
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 | Rs.8000/- |
| 2 | Study materials, Consumables expenses | Rs. 20,000/- |
| 3 | Hall Rent, if any | Nil |
| 4 | Publicity materials | Rs. 20,000/- |
| 5. | Travel expenses | Rs. 8000/- |
| 6. | T.A to the external Resource Persons/Experts | Rs. 12000/- |
| 7. | Documentation expenses including audio visuals | Rs. 15,000/- |
| 8. | Light refreshment | Rs. 60,000/- |
| 9. | Auditors fee | Rs. 5000/- |
| 10. | Other expenses, if any (please specify) | Rs. 2000/- (contingency) |
| Grant Total Expenditure (Rs.) | | Rs. 1,50,000/- |

B. Institution/Organization Contribution in Rs.15,000/-

C. Contribution from any other sources (with name & Address) in Rs. : NIL

D. Grant expected from DSTBT (Rs)=Rs. 1,35,000/-

Signature of Authorised Personnel with Seal

This organization/institution is not receiving any kind of financial assistance from other sources



11/12/2015

Signature of Authorised Personnel with seal
Principal
Jhargram Raj College



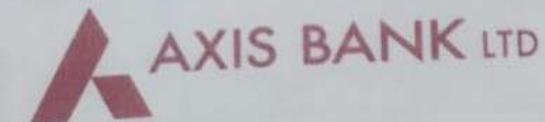
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Annexure-II

Bank details of the Application Organisation

| Name of the Organization | Jhargram Raj College |
|---|--|
| Bank Account number & name of the Account holder/Organization | Acc Number: 915020020971398 Name : Jhargram Raj College A/C Fees Collection |
| Type of Account (Savings or Current A/c) | Current |
| Name of the Bank | Axis Bank |
| Name of the Branch with Branch Address | Jhargram, Ground and 1 st Flor, Raghunathpur P.O. and P.S-Jhargram, Jhargram 721507 |
| IFSC of the Branch | UTIB0002119 |
| Mobile Number of the Programme Coordinator/Head of the Organization | Programme Coordinator: 8250397651 |
| PAN/TAN of the Account holder/Organization | |

Signature of Authorised Personnel with seal
Principal
Jhargram Raj College



DATE
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DDMMYY



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JHARGRAM RAJ COLLEGE A/C FEES COLLECTION
JHARGRAM PASCHIM MIDNAPUR. JHARGRAM, WEST BENGAL, INDIA
PIN/ZIP-721507 PHONE # - XXXXXXXX8700, XXXXXXXX4703

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2119



SH227160625CHQ

Issue of cheques without sufficient funds in the account may attract penalty under Section 138 of N.I. Act.

CHEQUE BOOK REQUISITION SLIP

Please deliver to the undersigned / bearer _____ number of cheque book/s.

For JHARGRAM RAJ COLLEGE A/C FEES
COLLECTION

Signature of Bearer : _____
Authorised Signatory(ies) : _____

JHARGRAM JRG WB
GROUND AND FIRST FLOOR, RAGHUNATHPUR P.O.
AND P.S. JHARGRAM, JHARGRAM 721507

| | |
|-----------------------------------|------------------------|
| Customer ID : 854877549 | Scheme Type : CAGOS |
| MICR Code : 721211251 | IFS Code : UTIB0002119 |
| Cheque Nos. From 152656 to 152755 | |
| Account Number : 915020020971398 | |

For office use only

MOP & Signature verified _____

SS No.:-

POCO M3 | JUTTHI
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