

ANIMAL HOUSE, VISVA-BHARATI SANTINIKETAN

The Animal House, Visva-Bharati is located at Siksha Bhavana campus, adjacent to the building of the Department of Zoology, Visva-Bharati. The animal house construction was initiated since 2012 and completed in 2015. The activities of Central Animal House are:

- i (i) Promoting basic and educational animal research.
- ii (ii) Periodical Institutional Animal Ethic committee meeting
- iii (iii) In-vivo and in vitro studies for PhD level and collaborative projects.

This Animal house facility is registered with Committee for the Purpose of control and Supervision of Experiments on Animals (CPCSEA), Ministry of Environment, Forest and Climate Change, Government of India on 01/09/2015 (Registration number 1819/GO/Re/S/15/CPCSEA) and has an established Institutional Animal Ethics Committee (IAEC) that advises the students, teachers/researchers on facilities, policies and practices concerning the care and use of animals. The Animal House facility is at present under the care of the Department of Zoology, Visva-Bharati.

The Animal House facility has mice, rats, and provision for rabbits. Each species of animals is housed in separate rooms partitioned with aluminum frame and particle board in fill in the half lower portion and glass in the upper half portion to avoid disease transmission and inter-species conflicts and to eliminate anxiety and possible physiological and behavioral changes due to interspecies conflict. Each laboratory animal requires special care. They are normally sensitive to their living conditions and living habits. Every part of animal care including feeding, watering, restraining, cage cleaning, record keeping and ordering of animals, feeds, bedding materials and equipment from outside sources are monitored by trained and experienced researchers. The animal room occupies about 50-60% of the total constructed area and the remaining area is utilized for service such as store, quarantine and corridors.

The animals themselves are isolated from human habitation and guarded from dust, smoke, noise, wild rodents, insects and birds-in fact anything that would disturb their habitat. The housing environment and climate is moderated as well to ensure that artificial variables do not interfere. A high degree of hygienic conditions (macro and micro environment) around the animals are maintained as per the CPCSEA guidelines. The floor of the animal house is smooth with vitrified tile to avoid moisture, non-absorbent, skid-proof, resistant to wear, acid, solvents, adverse effects of detergents and disinfectants, fire-resistant and for easy cleaning and capable of supporting racks, equipment and stored items without becoming gouged, cracked, or pitted. The roof is with false ceiling to help create healthy environment inside

the animal house. Two main doors D1 for entry and D2 for exit and glazed window for proper sunlight. Corridors are wide enough to facilitate the movement of personnel as well as equipment.

Power: All efforts are made to maintain the animals under controlled environmental conditions of temperature (24-26°C), relative Humidity (60 ± 10%), and automatic light and dark cycle with 100 % fresh air exchange in all animal rooms and uninterrupted power and water supply. The electrical system is safe and provides appropriate lighting and a sufficient no of power outlets.

Facility available: Mice room, rat room, rabbit room, quarantine room, change room, sick animal room, record keeping room (record for animal purchase, animal use and animal death), washing room and store room.

- (i) **Change room:** Disposable gear such as gloves, masks, head covers, coats, coveralls and shoe covers are kept in this room.
- (ii) **Quarantine room:** Duration of stabilization will depend on type and duration of animal transportation, and animals are housed in quarantine room for a minimum duration of one week for mice and rat.
- (iii) **Sick room:** Animals that show signs of a contagious disease are isolated from healthy animals and kept in this room.

Equipment available: Stainless steel racks for holding rats and mice cages having multiple row configurations and wheels for maneuverability; polyethylene cages for mice and rats with cage lid and stainless steel wire bar, as well as an 850 mL water bottle; Air purification unit, air condition unit, digital Thermometer, Hygrometer and Autoclave.

Feeding and water devices: Mice and rats are provided with soft bedding preferably fibrous bedding with greater absorbent. Food pellets/ chow are provided with water on a daily basis. Water bottles and beddings are changed thrice a week for maintaining animal hygiene.

Animal Research areas: We are doing the following research activity:

- 1) Invasive study models
- 2) Toxicological studies
- 3) Cancer studies
- 4) Anthelmintic studies
- 5) Anti-inflammatory studies
- 6) Anti-diabetic studies
- 7) Immunomodulatory studies
- 8) Reproductive studies
- 9) Obesity study model

Forms and Formats Available:

- 1) Application for the Permission of Animal Experiments (Form B)
- 2) Record of Animals Bred/Acquired/Transfer (Form C)
- 3) Record of Animals Acquired and Experiments Performed (Form D) 3

Contacts:

Official- Member Secretary, IAEC & Incharge of Animal House

Address:

Animal House

Department of Zoology

Siksha Bhavana

Visva-Bharati

Santiniketan-731235

West Bengal.



भारत सरकार
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
पशु कल्याण प्रभाग
पशुओं पर परीक्षण के नियंत्रण एवं पर्यवेक्षण के प्रयोजनार्थ समिति (सीपीसीएसईए)
Government of India
Ministry of Environment, Forest and Climate Change
Animal Welfare Division
Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)



F.No:25/97/2008-AWD
Date: 31/Aug/2018

To,

Prof. Narayan Chandra Mandal, Chairman, IAEC
Visva-Bharati (A Central University) Santiniketan,
West Bengal – 731 235
E-mail:mandalnc@rediffmail.com
Mobile: 9434016026/ 9434759390

Subject: Renewal of Registration and Reconstitution of Institutional Animals Ethics Committee (IAEC)-regarding

Sir,

The registration of Animal House Facility of your establishment with CPCSEA has been renewed for a period of five years from the date of issue of this letter.

2. The new registration number of Animal House Facility of your establishment is 1819/GO/Re/S/15/CPCSEA for Research for Education purpose on small animals. Henceforth, the new registration number may be quoted in all your future correspondence with this office.

3. The CPCSEA has accepted the following members recommended by the establishment.

Name of the IAEC Members	Designation in IAEC
1) Prof. Narayan Chandra Mandal	Biological Scientist cum Chairperson
2) Dr. Larisha M. Lyndem	Scientist In charge of Animal House Facility cum Member Secretary
3) Prof. Saroj Kumar Pyne	Veterinarian
4) Prof. Ansuman Chattopadhyay	Scientist from different biological discipline
5) Dr. Narottam Dey	Scientist from different biological discipline

Cont...

5वां तल, वायु ब्लॉक, इंदिरा पर्यावरण भवन, जोर बाग रोड, नई दिल्ली-110003
टेलीफेक्स : 011-24695424 ईमेल : cpcsea-mef@gov.in, वेबसाइट : <http://cpcsea.nic.in>

5th Floor, Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
Telefax : 011-24695424, Email : cpcsea-mef@gov.in, Website: <http://cpcsea.nic.in>



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4. CPCSEA hereby nominates the following members to the Institutional Animals Ethics Committee (IAEC) of your establishment:

Details of Nominee(s)	Nominated as
1) Dr. Sunit Kumar, Mukhopadhyay 72/25 Dr. Milmoni Sarkar, Nopara, Baranagar, Kolkata – 700090, West Bengal Contact No:09433036799 Email :skmpath@gmail.com	Main Nominee
2) Dr. Sukumar Manna, 56A-Danesh Seikh Lane, Flat-D2, Howrah-711109, West Bengal Contact No :09433119608 Email :drmannasukumar@gmail.com	Link Nominee
3) Dr. Praksh Geriyol Principal Research Scientist, Head of Toxicology Department, Krish Biotech Research Pvt Ltd (OECD GLP Certified Facility) T-1, QK-17 (Part) WBIIDC, Phase III Kalyani, Nadia, West Bengal – 741235 Contact No :7890017066 Email :prakash.geriyol@gmail.com	Scientist from outside the Institute
4) Dr. Sharmistha Biswas B.J. 145, Sec II, Salt Lake, Kolkata - 700091, West Bengal Contact No :9903408977 Email :drsharmisthabiswas@rediffmail.com	Socially Aware Nominee

(Please note that any change in IAEC members can be made only with prior approval of CPCSEA.)

5. The IAEC is valid for a period of five years and is coterminous with renewed period of registration. IAEC is required to be reconstituted at the time of renewal of registration as per CPCSEA guidelines.

6. You are requested to convene the meeting of the re-constituted IAEC within a period of 30 days and upload the same on the website of the CPCSEA.

Cont.



भारत सरकार
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
पशु कल्याण प्रभाग
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Government of India
Ministry of Environment, Forest and Climate Change
Animal Welfare Division
Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)




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7. It is stated that only above approved IAEC members shall sign, with date, on the attendance sheet of the IAEC meetings, and decisions will be taken only in meetings where quorum is complete. The quorum for holding IAEC meeting is six (6), and CPCSEA Nominees must be present in such meetings. Link Nominee can attend in case main nominee conveys his unavailability in writing to the chairman IAEC. Socially aware member's presence is compulsory in cases referred to CPCSEA and atleast in one meeting in a calendar year. Any decision taken in the meetings of IAEC without quorum shall be considered invalid.

8. It is also to inform you that before commencing any research on large animals you are required to send research protocols with due recommendation of IAEC to CPCSEA for further approval procedure for submission of Research Protocols is available on the website of CPCSEA). Further, you are required to fulfill the suggestions made by the earlier IAEC in the IAEC meeting held on 24.04.2018 and submit the compliance report at the earliest.

Yours faithfully,


(Jerome Minz)
Deputy Secretary (AW) & Member Secretary (CPCSEA)

Copy for necessary action to: Nominees of CPCSEA.

The Main Nominee is requested to ensure that the IAEC meetings are held regularly as stipulated in the SOP of CPCSEA and submit the Annual Inspection Reports of the Animal House Facility regularly on the Website of CPCSEA.

The Main Nominee is requested to conduct the Inspection of Animal House Facility within a period of 30 days and submit the Inspection Report on the Website of CPCSEA.



Government of India
Ministry of Environment, Forest and Climate Change
Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)
5th Floor, Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

CERTIFICATE

This is to certify that the registration of Animal House Facility of Visva-Bharati, Santiniketan, West Bengal with CPCSEA has been renewed for Research for Education purpose on Small Animals bearing registration number 1819/GO/Re/S/15/CPCSEA.

The registration is valid for five years from 31/08/2018 to 30/08/2023.

(Jerome Minz)

Deputy Secretary (AW) & Member Secretary (CPCSEA)

JEROME MINZ
Member Secretary (CPCSEA)
Min. of Environment, Forest & Climate Change
Government of India
Jor Bagh Road, New Delhi

STANDARD OPERATING PROCEDURE (SOP) FOR INSTITUTIONAL ANIMAL ETHICS COMMITTEE, VISVA-BHARATI, SANTINIKETAN, WEST BENGAL

1. Objective of Research and experimentation: This is covered by provisions of the Prevention of Cruelty to Animals Act, 1960 (amended in 1982) and Rules of Breeding of and Experiments on Animals (Control & Supervision) 1998 (amended in 2001 and 2006) framed under the PCA 1960. Government has constituted a Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) under the provision of Section 15 of PCA Act 1960. Institutional Animal Ethics Committee (IAEC) is a local body, approved by CPCSEA, which has been empowered to permit experiments on small animals through an amendment in Rules for Breeding and Experiments on Animals (Control and Supervision) in year 2006. Institute has adopted SOP from CPCSEA for making guidelines for IAEC working in the University to ensure the effective and responsible functioning of IAEC.

2. Functions of Institutional Animal Ethics Committee (IAEC): IAEC means a body comprising of a group of persons recognized and registered by the CPCSEA performed in an establishment which is constituted and operated in accordance with procedures specified for the purpose by the Committee. IAEC accords quality and consistency in review of research proposals and to prevent infliction of unnecessary pain & sufferings before, during and after experiments on animals. IAEC is providing independent, competent and timely review of the ethics of proposed studies before the commencement of a study and regularly monitor the ongoing studies. IAEC reviews and approves all research proposals involving small laboratory animal experiments only, with a view to assure quality maintenance and welfare of animals used in pre-clinical research. IAEC ensures that experiments shall be performed in every case by or under the supervision of a qualified person (Veterinarian/Scientist from Biological background) and under the responsibility of the Principle Investigator (PI). Every experimenter must be experienced enough in animal experimentation either during education or by training. IAEC reviews the proposals before start of the study as well as monitor the research throughout the study and after completion of the study through annual reports, final report. The committee also ensures compliance with all regulatory requirements, applicable guidelines and laws under CPCSEA.

3. Inspection of Animal House: IAEC also monitor and inspect the housing of animals and ensure that it is as per stipulated conditions and standards. Experiments are checked that animals which in course of the experiments are so deeply anesthetized / injured / suffering from severe pain with poor prognosis / recovery would involve serious sufferings and are euthanized as per specified norms. Ensure that required records are maintained with respect to experiments performed on animals. Ensure that animals intended for the performance of experiments are properly cared before and after experiments.

4. Composition and Constitution of IAEC: IAEC includes 9 members as described below:

A. Institutional Members: (5 members from Visva-Bharati, Santiniketan)

1. Scientist In Charge Of Animals Facility
2. Veterinarian Involved In the Care Of Animal

3. Biological Scientist
4. Scientists from Different Biological Disciplines
5. Scientists from Different Biological Disciplines

B. CPCSEA Nominated members: (3+1 members from outside institute)

1. CPCSEA Main Nominee
2. CPCSEA Link Nominee
3. Scientist From Outside the Institute
4. Socially Aware Nominee

The Chairperson of the committee and Member Secretary are nominated by the institution. IAEC will be reconstituted for 5 years at the time of CPCSEA Registration renewal. Midterm reconstitution may be requested to CPCSEA in special cases viz. event of death, long time non-availability or violation in responsibilities of IAEC with details (CV and secrecy undertaking) of replacing member. Any replacement in IAEC members can be made only with the prior approval of CPCSEA.

A. Meetings of IAEC: A minimum of 6 members is required for quorum to conduct the meeting. Two Meetings of IAEC shall be held in 1 year as and when 5 or more than 5 study protocols will be submitted to Member Secretary, meeting will be organized as earliest possible to expedite the process of IAEC discussion and decision. Even if there are no projects, mandatory frequency of meeting will be maintained, to discuss the animal welfare and well being issues in the animal house. Member Secretary will maintain and provide all relevant record to the committee members. The Chairperson will conduct all meetings of the IAEC. If, for reasons beyond control, the Chairperson is not available, an alternate Chairperson will be elected by the members present from among themselves, who will conduct the meeting. The Member Secretary will be responsible for organizing the meetings, maintaining the records and communicating with all concerned. He/she will prepare the minutes of the meetings and get them signed by every member present in meeting for record purpose and further communication. Copy of minutes will be uploaded to CPCSEA website within 15 days of meeting, if no genuine cause of delay is in existence. In every meeting visit to animal house will be mandatory agenda.

B. Animal Experimentation Application Procedure: Application procedure is open round the year. It is advised to submit animal study protocols without waiting for notification of IAEC meeting that will avoid the last minute hurry. Animal Research projects will be submitted to Member secretary, IAEC, Visva-Bharati in prescribed application format. The Member Secretary will acknowledge the receipt of study protocol and indicate any lacunae. Missing information should be supplied within one week. Member Secretary, IAEC will maintain the application, review, modification/cancellation of animal experimentation related documents. Member Secretary, IAEC will maintain the communication to PI and send the proposals to all members at least 2 weeks in advance. The decision will be made by consensus after discussion and shall be recorded in the minutes' book and approval of Chair Person will

be taken along with signature of all members present in meeting. Minutes will be confirmed during the next meeting. The minutes of each meeting will be stored with the Member Secretary, IAEC.

Element of Review Protocol will be reviewed ensuring following criteria:

1. Scientific design and conduct of the study.
2. Approval of scientific review committee and regulatory agencies.
3. Assessment of predictable risks/harms to the animal vs advantage of research outcome.
4. Protocol and proforma of the study.
5. Judicious number of animal allotment and usage in the study.
6. Plans for data analysis and reporting.
7. Adherence to all regulatory requirements and applicable guidelines.
8. Competence of investigators, research and supporting staff.
9. Facilities and infrastructure in the animal house/respective department.

Only members will make the decision and the decisions shall be taken in the absence of investigators. Decision may be approve, reject or revise the proposals. Specific suggestions for modifications and reasons for rejection should be given. In cases of conditional decisions, clear suggestions for revision and the procedure for having the application re-reviewed should be specified. Modified proposals must be submitted to the Member Secretary, IAEC, within 1 week from the date of notification. Chairman, IAEC, Member Secretary IAEC and CPCSEA Nominee will sign on study protocol certificate after clearance of identified members. Without fail annual progress report will be submitted to IAEC by PI. Final report will be submitted to the IAEC by PI. Any new information related to the study will be communicated to IAEC by PI. Premature termination of study will be notified with reasons along with summary of the data obtained so far.

C. Record Keeping and Archiving: All following documents must be stored for a period of five years.

1. Curriculum Vitae (CV) and secrecy undertaking of all members of IAEC.
2. Minutes of all meetings duly signed by all members present in meeting.
3. Copy of all correspondence with members, researchers and other regulatory bodies.
4. Copy of existing relevant national and international guidelines on research ethics and laws along with amendments.
5. All study related documents (study projects/protocol with enclosed documents, progress reports) will be archived for minimum of five years after the completion of study. A copy of filled proforma related to the projects shall remain with the PI for minimum of five years. All relevant information on Animal ethics

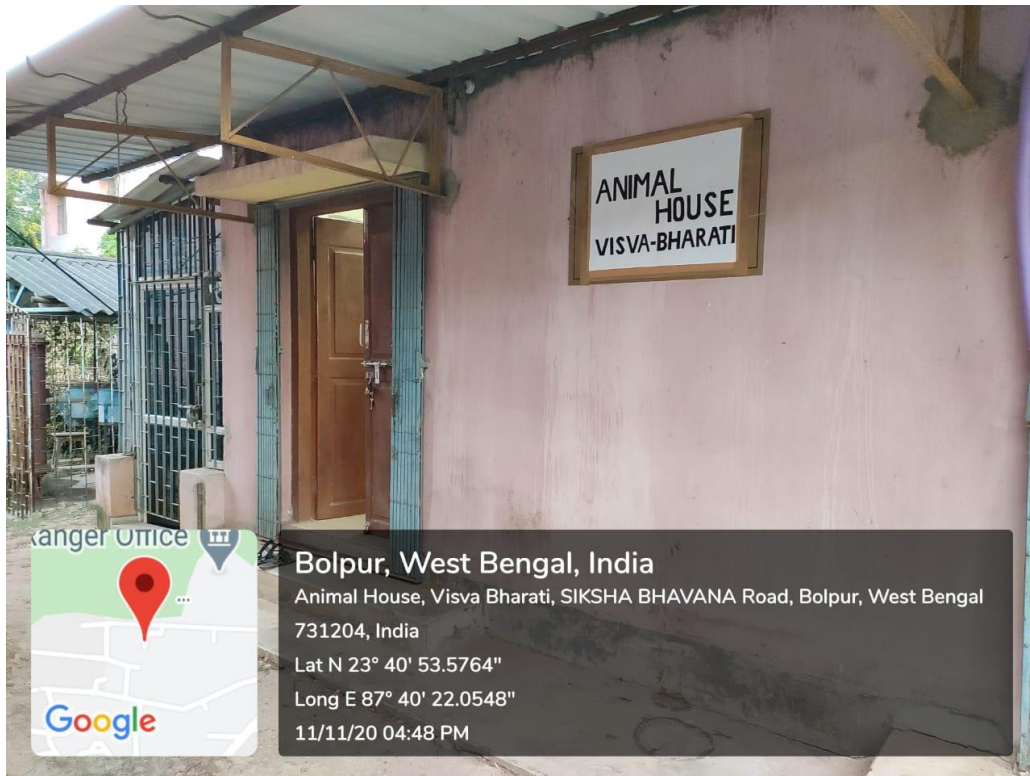
will be brought to the attention of the members of IAEC cumulatively by every member. Member Secretary, IAEC will upload the minutes of meeting to CPCSEA website through user (establishment) login. Also a hard copy will be sent to CPCSEA. Web address of CPCSEA is: <http://cpcsea.nic.in> email is : cpcsea.moef@gmail.com and postal address is: Member Secretary, CPCSEA Ministry of Environment, Forests and Climate Change (Animal Welfare Division) 5th Floor, Vayu Block Indira Paryawaran Bhawan Zorbagh Road, New Delhi-110 003.

Reimbursement to CPCSEA representative(s) of the IAEC Visva-Bharati will be paid by the Institute as per latest notification of CPCSEA.

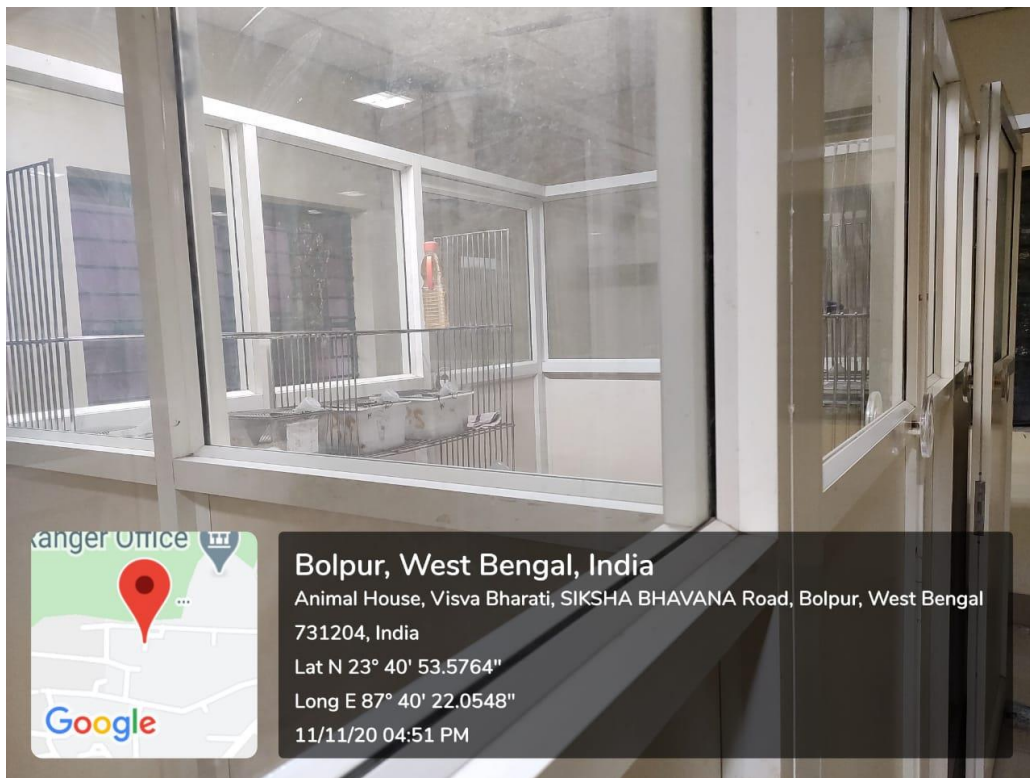
LIST OF MEMBERS OF VISVA-BHARATI, IAEC (2018-2023), Registration No.1819/GO/Re/S/15/CPCSEA

Sl No.	Name	Designation
1	Prof. Narayan Chandra Mandal	Chairperson (Existing Member)
2	Prof. Sunit Kumar Mukhopadhyay	IAEC Main Nominee (Existing Member)
3	Dr. Sukumar Manna	Link Nominee (Existing Member)
4	Dr. Prakash Geriyol	Scientist From Outside of the Institute (Existing Member)
5	Dr. Sharmistha Biswas	Socially Aware Nominee (Existing Member)
6	Dr. Jayanta Kumar Chatterjee	Veterinarian (New IAEC Member)
7	Prof. Ansuman Chattopadhyay	Scientist from different Biological Discipline (Existing Member)
8	Dr. Narottam Dey	Scientist from different Biological Discipline (Existing Member)
9	Prof. Larisha M. Lyndem	Member Secretary & Scientist in charge of animal facility (Existing Member)

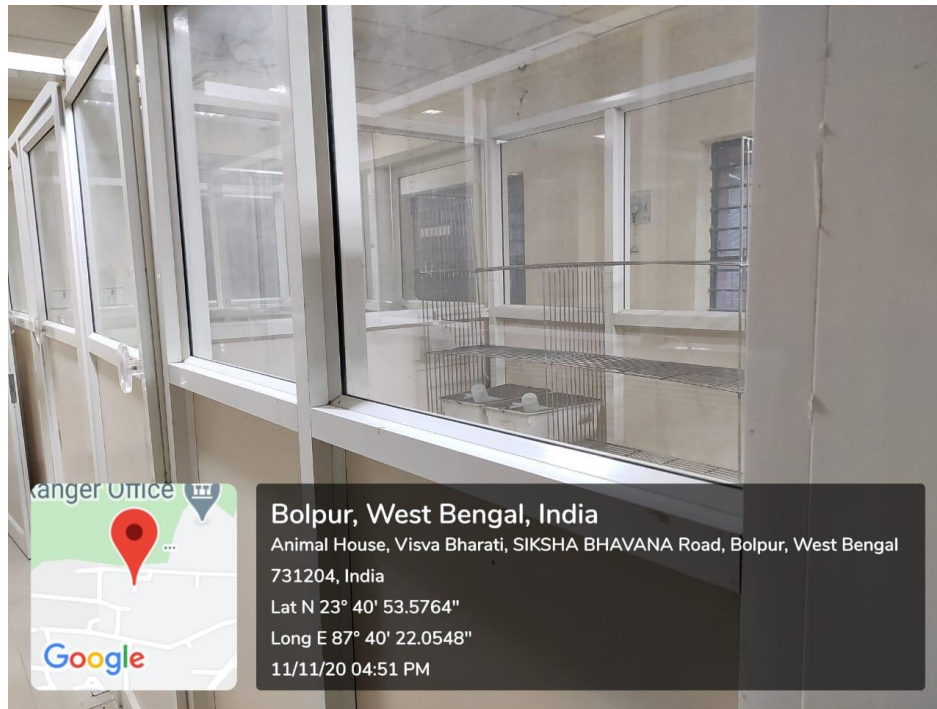
Animal House, Department of Zoology, Siksha Bhavana, Visva-Bharati



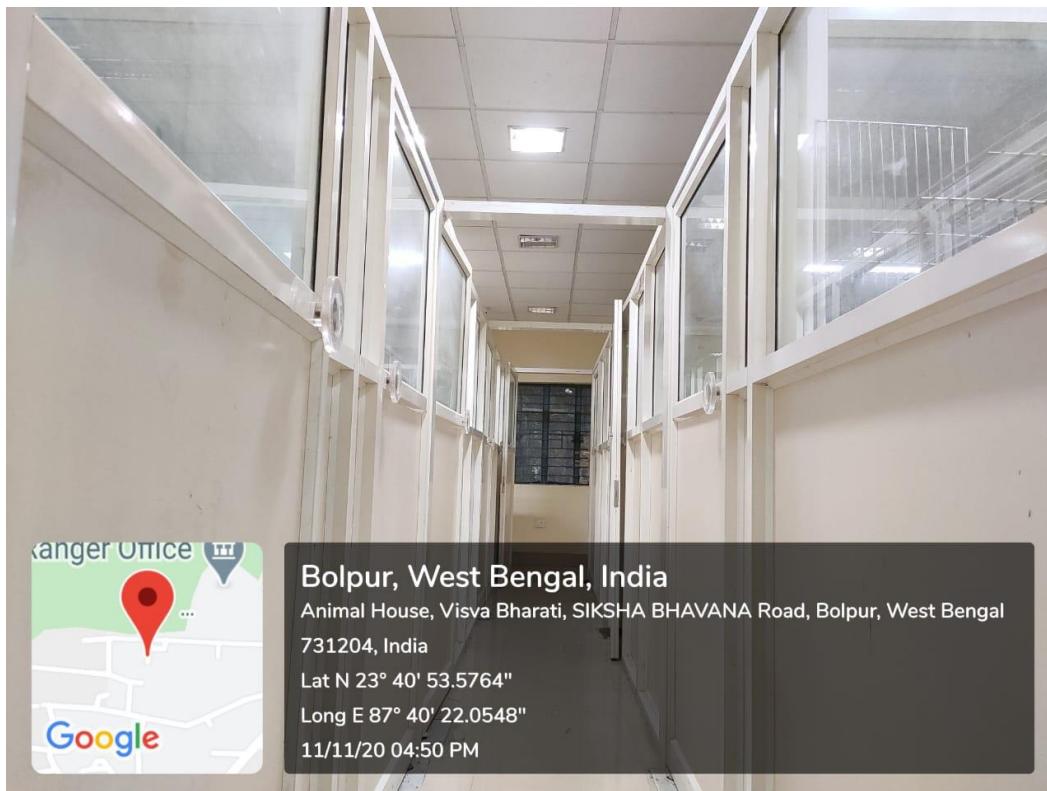
Mice Room, Animal House, Department of Zoology, Siksha Bhavana, Visva-Bharati



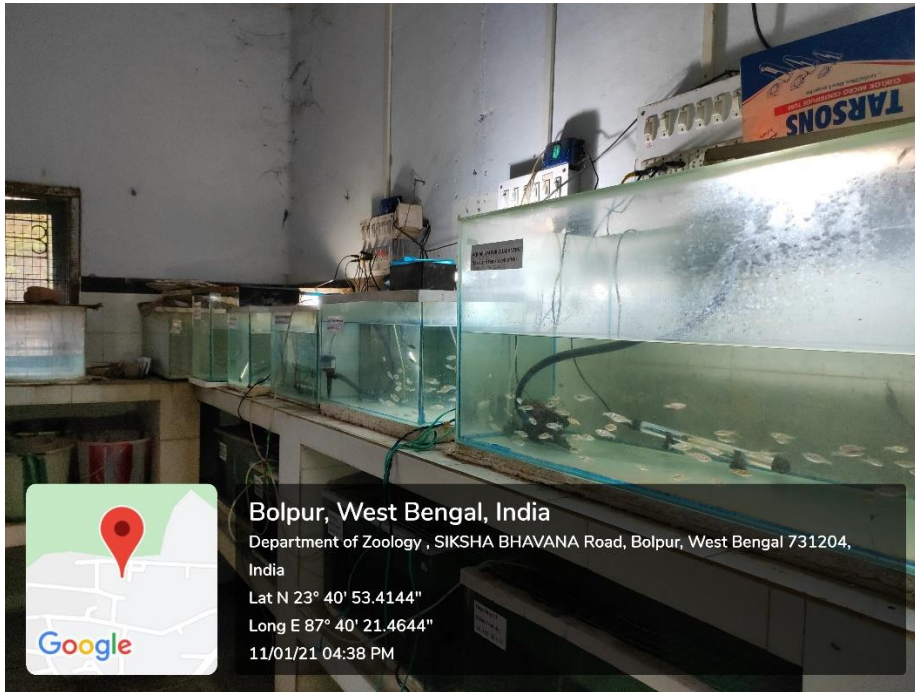
Rat Room, Animal House, Department of Zoology, Siksha Bhavana, Visva-Bharati



Corridor in between Mice Room and Rat Room, Animal House, Department of Zoology, Siksha Bhavana, Visva-Bharati



Fish Room, Department of Zoology, Siksha Bhavana, Visva-Bharati



Bolpur, West Bengal, India

Department of Zoology , SIKSHA BHAVANA Road, Bolpur, West Bengal 731204,
India

Lat N 23° 40' 53.4144"

Long E 87° 40' 21.4644"

11/01/21 04:38 PM

GARDEN

The Department of Botany maintains a garden which harbours various medicinal and herbal plants. The garden has Vitex, Terminalia, Syzigium, Bixa, Holarena, Bauhinia, Delonix, Sonerratia, Plumbago etc. It also maintain pteridophytes, such as Lygodium japonicum, Ophioglossum, Selaginella etc. Along with these, there is an orchid culture unit, where orchids such as Dendrobium, Doritis, Aeridis, Cymbidium, Vanda etc. are maintained.

