
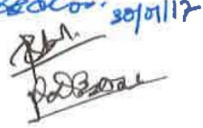

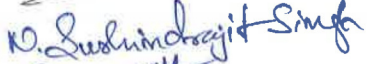



INSTITUTIONAL BIOSAFETY COMMITTEE
Cotton College State University (CCSU), Panbazar, Guwahati

Attendance Sheet of 1st IBSC meeting held on 30.01.2017 at 2.30 pm
Venue: MCB building, CCSU

Following members of IBSC, CCSU were present in the meeting:

SI No	Name	members type	Sign
1	Prof. D. J. Saikia	Chairperson	
2	Prof. Lingaraj Sahoo	DBT nominee	
6	Dr Raju Bharalee	Member Secretary	 30/01/17
7	Dr Purabi Deka Bose	Member	
8	Dr. A K Verma	Member	
9	Dr Namram Sushindrajit Singh	Member	
10	Dr Hrishikesh Upadhyaya	Member	
11	Dr Nameirakpam Nirjanta Devi	Member	

The two external experts Dr P. Borah, Veterinary College, Khanapara and Dr M R Khan, IASST, Boragaon Guwahati have given prior intimation through mail about their inability to attend the meeting. The biosafety officer also expressed her inability to attend the meeting due to some preoccupied assignment.

COTTON COLLEGE STATE UNIVERSITY

PANBAZAR, GUWAHATI-781001, ASSAM, INDIA

MINUTES OF 1st MEETING OF INSTITUTIONAL BIOSAFETY COMMITTEE (IBSC)

Venue: MCB Building, Room No 305, Cotton College State University

Date: 30th January 2017

Time: 2.30 PM

MEMBERS PRESENT:

1. **Prof. D. J Saikia**, Vice Chancellor, CCSU, Guwahati, Assam (Chairperson, CCSU IBSC)
2. **Prof. Lingaraj Sahoo**, Department of Bioscience & Bioengineering , IIT Guwahati, Assam (DBT Nominee, IBSC, CCSU)
3. **Dr. (Mrs.) Purabi Deka Bose**, Asst. Professor and Head i/c, Dept. of Molecular Biology and Biotechnology, CCSU, Guwahati (Member, CCSU IBSC)
4. **Dr. N. Nirjanta Devi**, Asst. Professor, Dept. of Molecular Biology and Biotechnology, CCSU, Guwahati (Member, CCSU IBSC)
5. **Dr. Akalesh K. Verma**, Asst. Professor, Dept. of Zoology, CCSU, Guwahati (Member, CCSU IBSC)
6. **Dr. N Sushindrajit Singh**, Asst. Professor, Dept. of Zoology, CCSU, Guwahati (Member, CCSU IBSC)
7. **Dr. Hrishikesh Upadhyaya**, Asst. Professor, Department of Botany, CCSU, Guwahati (Member, CCSU IBSC)
8. **Dr. Raju Bharalee**, Asst. Professor, Dept. of Molecular Biology and Biotechnology, CCSU, Guwahati (Member Secretary, CCSU IBSC)

AGENDA OF THE MEETING:

1. Assessment of work elements and approval as per risk category of organisms involved for submitted and ongoing projects.
2. Evaluation of projects to be submitted for requirements of statutory approvals.
3. Inspection on availability of containment facilities, green house etc. (applicable for risk group II and any type of rDNA work)
4. To discuss about the procedure for approval requirements.
5. To sign a confidentiality agreement with IBSC members including DBT nominee.


C. L. SAHOO


(R. Bharalee)


Vice Chancellor
Cotton College State University
Guwahati

RESOLUTION OF THE MEETING:**1. Assessment of work elements and approval as per risk category of organisms involved for ongoing projects**

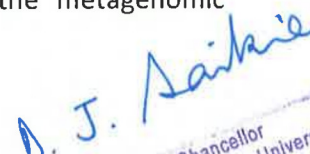
- (a) The PI, **Dr. P. D. Bose** has given an oral presentation on different work components of her two research projects (one ongoing and one approved recently) in the house. These two projects are "Screening of Genetic and Immunological Factors in Human Papilloma virus (HPV) Infection induced Cervical Cancer: a North East India based study" and "Delineation of the chromosomal and molecular endocrinological alterations leading to recurrent pregnancy loss in Northeast Indian population". The PI informed the house that none of these projects involve any rDNA work components or organisms that are pathogenic to human. However, she informed the house that under the first project the chromosomal DNA of cancer patient extracted in Gauhati University (Collaborating institute) would be brought to CCSU for detection of HPV DNA by PCR with specific primers. She categorically informed the house that the pathogenic HPV will not be used in CCSU. The second project involves only nonpathogenic human samples, i.e., blood and tissue from aseptic patients with pregnancy complications. The sample will be subjected to DNA extraction followed by PCR analysis as well as biochemical and histological analysis. There is no pathogenic organisms or rDNA components involved in the said project. Therefore, it was decided by the house that no statutory approval is required for these two ongoing projects as they don't involve any rDNA component and organisms pathogenic to human.
- (b) The PI, **Dr A K Verma** has given an oral presentation on different work components of his ongoing project entitled "Study on the anticancer potential of North East Indian propolis and isolation of possible active principle(s)". The PI informed the house that his project does not involve any rDNA work. However, the PI would be using some cancerous cell line for his studies for which the biosafety level II is required. He will be specifically using breast cancer cell lines like MCF-7, MCF-10A and MDA-MB-231 in his study. He also informed the house that his lab is having Biosafety level II facility and also given an undertaking for the same. Based on his presentation the house members were convinced and allowed him to carry out his experiments.
- (c) The PI, **Dr. N. Sushindrajit Singh** has given an oral presentation about his ongoing project entitled "Time is on your side: the importance of short day length in reproduction of birds". He has explained the different components of his projects in front of the house members and informed that his project does not involve any rDNA work or organisms under risk group II and above.

2. Evaluation of projects to be submitted for requirements of statutory approvals from IBSC

- (a) The PI, **Dr. Raju Bharalee** has given an oral presentation on his project proposal to be submitted to DST under ERA scheme. The title of the proposal is "Metagenomic profiling for Identification and source tracking of pathogenic bacterial communities for management of Flacherie disease in Muga silk worm (*Antheraea assamensis*) of Assam". The PI informed that the proposed proposal involves the metagenomic


C. Saha


(R. Bharalee)


D. J. Saikia
Vice Chancellor
Cotton College State University
Guwahati

profiling of bacterial communities associated with the Muga silk worm of Assam. Total DNA from Flacherie infected and healthy muga silk worm would be isolated using kits. The isolated DNA would be used for amplification of V3-V4 region of bacterial rRNA genes followed by next generation sequencing. There is no rDNA component or pathogenic organisms involved in the proposal and therefore does not require any statutory approval from the IBSC.

- (b) The PI, **Dr. N. Nirjanta Devi** has given an oral presentation on different work components involved in her project to be submitted to DST. The title of the proposal is "A study on biodiversity and bioactive compounds of endophytic fungi associated with Chakhao of Manipur". In the proposed work the PI would isolate the endophytic fungi from an aromatic black rice of Manipur followed by their molecular characterization for biodiversity study. PI informed the house that the proposed work does not involve any rDNA work or pathogenic microbes and therefore no statutory approval is required from IBSC.

3. Inspection on availability of containment facilities, green house etc. (applicable for risk group II and any type of rDNA work)

The members of the IBSC committee from different Life Sciences Department of Cotton College State University have informed the house that their department has basic containment facility for doing R & D activities in the proposed ongoing/projects. It was also informed that the University is building up green house and other infrastructure facilities to facilitate research in different areas of life sciences. The Chairperson of IBSC, CCSU has informed that presently the University is not having enough bio-containment facility (except Department of Zoology) for risk group II and above. However, these types of facilities are being created in order to carry out research in the near future.


4. To discuss about the procedure for approval requirements.

The house also discussed about the category of projects that needs statutory approval from IBSC. The DBT nominee has explained about the procedural requirement for taking statutory approval from IBSC for research projects to be submitted or ongoing. Different members present in the meeting have cleared their doubts regarding different risk group of organisms for which prior approval from IBSC is mandatory.

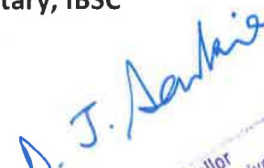
5. To sign a confidentiality agreement with IBSC members including DBT nominee.

The member secretary informed the house that this was the 1st meeting after the constitution of IBSC of CCSU. He requested all the members present in the meeting to sign in the confidentiality agreement to be submitted to RCGM. According the agreement was signed by all the members present in the meeting.

The meeting concluded at 3.45 PM with a vote of thanks by Member Secretary, IBSC

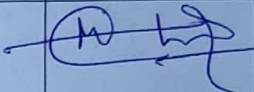
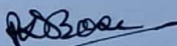

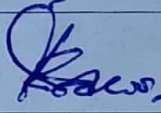


(L. SAHA)


(A. S. Phomala)


Vice Chancellor
Cotton College State University
Guwahati

INSTITUTIONAL BIOSAFETY COMMITTEE
Cotton University (CCSU), Panbazar, Guwahati

Attendance Sheet of 2nd IBSC meeting held on 14.11.2017 at 11.00 am
Venue: MCB building, CCSU

SI No	Name	Member type	Sign
1	Dr. N. Suslindrajit Singa	Member	N. Suslindrajit Singa
2	Dr. Mayuri Chakrabarti		
3	Dr. N. Nirjanta Devi	Member	Nirjanta
4	Dr. Purabi Debra Bose	Member	
5	Dr. Raju Bhavale	Member	
6	Prabodh Borah	External member	P. B.
7	Lingaraj Saha	DBT Nominee	 14/11/17
8	Prof BC Goswami	Chairperson	 14-11-17
9			
10			
11			

MINUTES OF MEETING OF INSTITUTIONAL BIOSAFETY COMITTE (IBSC)

Cotton University (CU), Panbazar, Guwahati-01

Date: 14.11.2017 Time: 11.00 pm

The following members of IBSC, CU were present in the meeting to discuss various issues

Name	Affiliation	Members type
Prof. B. C. Goswami	VC, Cotton University	Chairperson
Prof. Lingaraj Sahoo	Professor, Dept. of Biosciences and Bioengineering, IIT, Guwahati	DBT nominee
Prof. Probodh Borah	Professor, Department of Microbiology, College of Veterinary Science, AAU, Khanapara	Outside expert
Dr Raju Bharalee	Dept. of MBBT, Cotton University	Member Secretary
Dr Purabi Deka Bose	Dept. of MBBT, Cotton University	Member
Dr Namram Sushindrajit Singh	Dept. of MBBT, Cotton University	Member
Dr Nameirakpam Nirjanta Devi	Dept. of MBBT, Cotton University	Member

The external expert Dr M. R khan, IASST, Paschim Boragaon; biosafety officer Dr Chandana Ray Das, GMCH, Guwahati; Dr Akalesh Verma and Dr Hrishikesh Upadhyaya of Cotton University have given prior intimation about their inability to attend the meeting.

The meeting was held on 14.11.2017, in conference room of MCB building of CU in presence of DBT nominee and other members (as specified above) to discuss the following points

1. Induction of new Chairperson for IBSC and signing of confidentiality agreement.
2. Power point presentation for Assessment of work elements and approval as per risk category of organisms involved for ongoing/approved projects.
3. Inspection of lab facilities.
4. Discussion on uploading of all IBSC information into university website.
- 5.

Discussion outcomes:

1. Induction of new IBSC Chairperson and signing of confidentiality agreement:

The new Vice Chancellor of Cotton University Prof. Bhabesh Chandra Goswami has taken over the charge as new Chairperson of the IBSC of Cotton University and also signed the confidentiality agreement.

2. Presentation of ongoing/approved projects:

The PI or Co-PI or PhD students of different ongoing /approved projects/PhD work has given a short power point presentation about the work elements involved in their projects as listed below.

R. Bharalee
19/11/18
(R. Bharalee)
Secretary IBSC

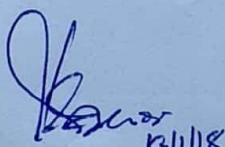
L. Sahoo
19/11/18
(L. SAHOO)

B. Goswami
19.1.18
Vice Chancellor
Cotton University
Panbazar, Guwahati-781001, Assam

SL No	Presented by PI/Co-PI/PhD Student	Name of the project	Status of project
1	Dr N. Sushindrajit Singh(PI), Asst Prof. Department of Zoology, Cotton University	Pharmacological evaluation of some indigenous mushroom of North East India for anticancer activities: Isolation and characterization of bioactive principle(s) with possible mode of action	ongoing
2	Dr N. Sushindrajit Singh (Co-PI), Asst Prof. Department of Zoology, Cotton University	mi-RNAs and extracellular vesicle proteins profiling and identification of promising diagnostic biomarkers in dengue-infected patients from North East (NE) India	approved
3	Ms Natasha Kashyap PhD Research Scholar PhD Guide: Dr. Purabi Deka Bose, Asstt. Professor and Head i/c Deptt. of MBBT, Cotton university	Study the alterations in molecular endocrinology and cell signalling pathways associated with deregulated placental angiogenesis leading to recurrent pregnancy loss: A north-east India population based study	Ongoing (PhD work)

- Based on the presentation made, the IBSC members have concluded that the first project (under serial no. 1 above) does not involve any work component that needs IBSC approval.
- The project under serial no. 2 above, although approved by the funding agency the Co-PI could not produce sufficient documental proof. As informed by the Co-PI, the proposed work will generate hazardous biomedical waste that needs to be disposed off through recommended procedure. He informed the house and presented a copy of an agreement signed between the PI and a private agency (Fresh Air Waste Management Service Pvt. Ltd.) for disposal of biomedical waste. According to the agreement, the private agency will regularly collect the hazardous biomedical waste from his department and dispose off following the recommended protocol. When the Co-PI was asked by the house members to produce documental proof of authenticity of the Fresh Air, he could not produce any document. Therefore, the house members have decided to keep the approval pending until the concerned PI or Co-PI submits the following documents to IBSC.
 1. Sanction letter from the funding agency
 2. Documents that will show the authenticity of the Fresh Air with whom they signed the agreement.
 3. A copy of the full proposal signed by PI and all Co-PI showing clearly the part of work to be carried out in Cotton University.
 4. Clearance from the ethical committee of CCSU
- The project under serial no. 3 is a PhD work of Ms Natasha Kayshap under the guideship of Dr P D Bose. The committee members have suggested her to submit a signed copy of the full proposal, a copy of ethical clearance certificate from the concerned committee of Cotton University. She was also directed by the committee to submit documentary proof of appropriate waste disposal mechanism to be used for her proposed part of work to be carried out in Gauhati University. Therefore, the members have decided to keep the approval pending until she submits the above two documents to IBSC.

19/1/18
(R. Bhattacharya)
Secretary IBSC


19/1/18
(L. SAHOO)


19.1.18
Vice Chancellor
Cotton University
Panbazar, Guwahati-781001, Assam

3. Inspection on availability of containment facilities:

The IBSC members have visited Molecular Diagnostic lab of Dr P D Bose in MCB building in Department of Molecular Biology and Biotechnology to inspect the available facilities as per guidelines issued by DBT

4. Other points discussed in the meeting:

- It was decided in the meeting that the PI must submit duly signed hard and soft copies of the project (sanctioned or approved) for which the approval from IBSC is required much before the commencement of the meeting. Once submitted to the secretary, the same should be circulated among the members of IBSC before the meeting. Projects that are submitted or under consideration by the funding agency should not be discussed in the meeting.
- The secretary should give a notification to all concerned about upcoming meeting at least 15 days before the meeting so that projects that need IBSC approval can be submitted in time for consideration in the meeting.
- The PhD or MSc. dissertation or in-house work that needs IBSC approval should also be discussed in the IBSC meeting.
- Scientist having expertise in special areas, all the heads of the departments under life science faculties and related faculties should be invited to the meeting as special invitees.
- Provision should be made to upload all the information of IBSC in the university website for easy access. These should mainly include the application format to apply for IBSC approval, instructions and documents required to submit to IBSC for approval.
- The committee also suggested that Cotton University may sign an MoU with an appropriate agency/firm for carrying out hazardous research waste disposal at institutional level instead of at the departmental level. The committee also suggested that Dr A K Verma of Department of Zoology may take necessary initiative in this regard and discuss the matter with the registrar and the VC of CU.

The meeting ended at 3.00 pm with vote of thanks from the Secretary

Copy to :

1. All the members of IBSC, CU, Guwahati
2. Prof. B C Goswami, VC, CU, Guwahati
3. Prof. S K Sarma, Registrar, CU, Guwahati
4. Dr C Ray Das, Biosafety officer, GMCH, Guwahati
5. Dr M R Khan, outside expert, IASST, Boragaon, Guwahati
6. Prof. Probohd Borah, Dept of Animal Biotechnology, College of Vet Science, AAU, Khanapara
6. Dr Raju Bharalee, Chairperson, IBSC, and Asst Prof, CU, Dept of MBBT

Dr. R. Bharalee
19/1/18
(R. Bharalee)
Secretary, IBSC

(L. SAHOO)
19/1/18

(R. Bharalee)
19.1.18
Vice Chancellor
Cotton University
Panbazar, Guwahati-781001, Assam


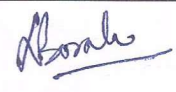
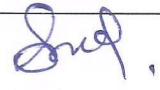

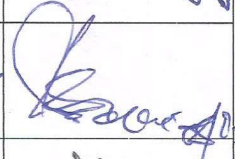
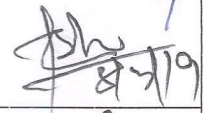
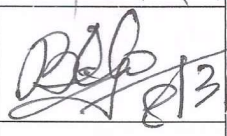
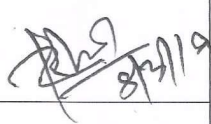
INSTITUTIONAL BIOSAFETY COMMITTEE
Cotton University (CU), Panbazar, Guwahati

Attendance Sheet of members present in the IBSC Meeting

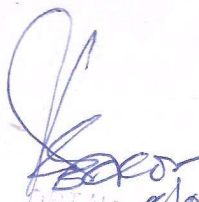
Venue: MCB building, CU

Date: 8/31/2019

Time: 2 pm.

SI No	Name	Member type	Sign
1	Manguni Chelakhera	Non member Invitee	
2	N. Nirjanta Dwi	Member	
3	Leena Borah	Non-member invitee	
4	N. Sushindrajit Singu	Member	
5	Purabi Deka Bora	Member	
6	Hrishikesh Upadhyay	member	
7	Lingsaj Salro	DBT Nominee	
8	Raju Bhavalee	Secretary	
9	Prof BC GOSWAMI	Chairperson	
10	Raju Bhavalee	Secretary	
11			


 Member Secretary
 IBSC, Cotton University
 Guwahati - 781001, Assam


 DBT Nominee
 IBSC, Cotton University
 Guwahati - 781001, Assam


 Vice Chancellor
 Cotton University
 Panbazar, Guwahati-781001, Assam

MINUTES OF MEETING OF INSTITUTIONAL BIOSAFETY COMMITTEE (IBSC)

Cotton University (CU), Panbazar, Guwahati-01

Date: 08.03.2019 Time: 2 pm

The following members of IBSC, CU were present in the meeting to discuss various issues

Name	Affiliation	Members type
Prof. B. C. Goswami	VC, Cotton University	Chairperson
Prof. Lingaraj Sahoo	Professor, Dept. of Biosciences and Bioengineering, IIT, Guwahati	DBT nominee
Dr Raju Bharalee	Dept. of MBBT, Cotton University	Member Secretary
Dr Purabi Deka Bose	Dept. of MBBT, Cotton University	Member
Dr Namram Sushindrajit Singh	Dept. of Zoology, Cotton University	Member
Dr Nameirakpam Nirjanta Devi	Dept. of MBBT, Cotton University	Member
Dr Hrishikesh Upadhyay	Dept. of Botany, Cotton University	Member

The external expert Prof. Proboadh Borah, Dept of Animal Biotechnology, College of Veterinary Science, AAU, Khanapara; Dr M. R Khan, IASST, Paschim Boragaon; biosafety officer Dr Chandana Ray Das, GMCH, Guwahati and Dr Akalesh Verma of Cotton University have given prior intimation about their inability to attend the meeting.

The meeting was held on 08.03.2019, in class room of MCB building of CU in presence of DBT nominee, Chairperson and other members (as specified above) to discuss the following points

1. Follow up discussion on last IBSC meeting resolution
2. To discuss projects to be approved by IBSC (if any)
3. To include new members to the IBSC.
4. To discuss about renewal of IBSC (to be submitted for registration before June 2019)

Discussion outcomes:

1. Uploading information of IBSC in University website:

As per resolution taken in the last meeting, The secretary of IBSC informed the house that all the necessary information and application forms of IBSC, Cotton University has been uploaded in the university website. The Secretary has also given a presentation about the availability of information of IBSC in the university website.

2. Issue of clearance certificate to projects (PhD Work):

The following projects (PhD Work) has been issued a clearance certificate based on the examination of submitted relevant certificated/documents as per suggestions given in the last IBSC annual meeting.

DBT Nominee

IBSC Cotton University

Vice Chancellor
Cotton University

SL No	Name of PhD Student	Name of the project	Status of project
1	Ms Natasha Kashyap PhD Research Scholar PhD Guide: Dr. Purabi Deka Bose, Asstt. Professor and Head i/c Deptt. of MBBT, Cotton university	Study the alterations in molecular endocrinology and cell signalling pathways associated with deregulated placental angiogenesis leading to recurrent pregnancy loss: A north-east India population based study	Ongoing (PhD work)

4. Renewal of IBSC

It was agreed by all the members present in the meeting that the reconstitution of the IBSC for renewal should start after the meeting. It was agreed that those members who have not attended any IBSC meeting so far conducted should be removed from the next committee. The members have suggested to approach Chief medical officer of MMC Hospital, Panbazar for inclusion as biosafety officer in the next committee.


5. Inclusion of New members


The members have suggested to includes members from different departments of Cotton University in the IBSC, viz., Physics, EBWS, Zoology, Botany and Anthropology.

The meeting ended at 3.00 pm with vote of thanks from the Secretary

Copy to(soft) :

1. All the members of IBSC, CU, Guwahati
2. Prof. B C Goswami, VC, CU, Guwahati
3. Prof. Probodh Borah, Dept of Animal Biotechnology, College of Vet Science, AAU, Khanapara
6. Dr Raju Bharalee, Chairperson, IBSC, and Asst Prof, CU, Dept of MBBT


DBT Nominee
IBSC Cotton University
Guwahati-781001 Assam


Vice Chancellor
Cotton University
Panbazar, Guwahati-781001, Assam

**RCGM Secretariat,
Department of Biotechnology,
Ministry of Science & Technology**

IBSC MINUTES OF MEETING DETAILS

Name of the Organization : Cotton University
IBSC Registration No : COTT09082019428
Meeting Number : 1
Meeting Place : Cotton University

Name & Designation of the Authorized Signatory : Bharesh Goswami Vice Chancellor
UIC : COTT09082019428
Meeting Date : 04/02/2021
Number of Meetings held so far this year : 0

Participants of the Meeting

- | S.No | Composition |
|------|-------------------|
| 1 | Chairman |
| 2 | DBT Nominee |
| 3 | Member Secretary |
| 4 | Biosafety Officer |
| 5 | Outside Expert |
| 6 | Outside Expert |
| 7 | Internal Member |
| 8 | Internal Member |
| 9 | Internal Member |
| 10 | Internal Member |
| 11 | Internal Member |
| 12 | Internal Member |
| 13 | Internal Member |

Name, Designation & Affiliation

- Dr Bharesh Chandra Goswami, Vice Chancellor & Cotton University
 Dr PROBODH BORAH, Professor & College of Veterinary Science Assam Agricultural University
 Dr Raju Bharaleo, Assistant Professor & Cotton University, Department of Molecular Biology and Biotechno
 Dr Sumi Deka, Demonstrator Dept of Biochemistry & Gauhati Medical College and Hospital, Department of Biochemistry
 Dr Pranjan Barman Assistant Professor & Gauhati University, Department of Biotechnology
 Dr Debabrat Baishya Assistant Professor & Gauhati University Dept of Bioengineering and Technology
 Dr Nameirajpam Nirjanta Devi Assistant Professor & Cotton University Dept of MBBT
 Dr Namram Sushindrajit Singh Assistant Professor & Cotton University Dept of Zoology
 Dr Akalesh Kumar Verma Assistant professor & Cotton University, Dept of Zoology
 Dr Hrishikesh Upadhyaya Assistant Professor & Cotton University Dept of Botany
 Dr Leena Borah, Assistant Professor & Cotton University, Dept of EB&S
 Dr Mausumi Ganguly Professor & Cotton University Dept of Chemistry
 Dr Purabi Deka Bose Assistant Professor & Cotton University Department of Molecular Biology and Biotechno

Signatory with Date

 Bharesh Goswami 4/2/21
 Sumi Deka 4/2/21
 Pranjan Barman 4/2/21
 Namram Sushindrajit Singh 4/2/21
 Akalesh Kumar Verma 4/2/21
 Leena Borah 4/2/21
 Mausumi Ganguly 4/2/21
 Purabi Deka Bose 4/2/21

I. Meeting Agenda :

S.No	Agenda ItemNo	Purpose	Issue For Discussion
1	1.1	Issue Discussed other than Above	Follow up discussion on last IBSC meeting resolution
2	1.2	Issue Discussed other than Above	To sign confidentiality agreement by all the members
3	1.3	Issue Discussed other than Above	To take inputs/suggestion for conducting training for SA and faculties on biosafety
4	1.4	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss projects to be approved by IBSC (if any)
5	1.5	Issue Discussed other than Above	To incorporate inputs from all the members

II. Examination & Clearances of Proposals for Import, Export, Receipt and Transfer of Hazardous Microorganism(s), GMOs/ LMOs/ Product(s) thereof for Research & Development Purposes:

S.No	Agenda ItemNo	Purpose	Applicant Name	Applicant Designation	Details of material(s) transportation	Quantity Applied For	Material(s) belong to risk group as per Regulations & Guidelines for recombinant DNA Research & Bioconfinement, 2017	Transportation between	Containment measures to be employed	Details of documents	Whether the end user is different from the applicant? If so, provide details and justify	Details of deliberations	Status of the application
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IBSC MINUTES OF MEETING DETAILS

III. Examination & Clearances of Proposals For Carry Out Research & Development, Pilot Operations, Trials under Contained/ Confined-Field Conditions and Others:

S.No	Agenda ItemNo	Purpose	Project Title	Principal Investigator/Project Coordinator Name	Principal Investigator/Project Coordinator Designation	Risk categories of experiments as per Regulations and Guidelines for recombinant DNA research and biocontainment,2017	Requirement of containment measures	Details of deliberations	Status of the application
1	1.4	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	No projects received for approval	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

IV. Issues Discussed Other than the Above:

S.No	Agenda ItemNo	Topic of Delibrations	Delibrations and Decisions
1	1.1	signing MoU with B Baruah Cancer Institute for disposal of Biohazardous materials	Dr. Akalesh Kumar Verma, a member of IBSC from department of Zoology, Cotton University briefed the house about the MoU to be signed between Cotton University and B. Borooah Cancer Institute, Guwahati for the disposal of biohazard waste. The draft MoU to be signed also shown to the members
2	1.2	signing of confidentiality agreement by all the members	Confidentiality agreements were signed by all the members to be submitted to DBT
3	1.3	Training on Biosafety	It was agreed that the training on Biosafety for scientific assistant and faculties should be conducted regularly
4	1.5	Inputs from others members were discussed	The DBT nominee has explained about the procedural requirement for taking statutory approval from IBSC for research projects. The house members suggested the necessity of clearance of every project going on in Cotton University (internally or externally funded) by IBSC. This would help IBSC to monitor the biosafety issue related to all the projects going on in the University. The DBT nominee suggested to issue a general notification by the University authority to all the academic departments stating that clearance of every research project from IBSC is mandatory before the actual projects work started. This would help IBSC to ensure that appropriate biosafety guidelines are followed while carrying out any research activities in the University. The application should also contain a synopsis of the project to be verified by the IBSC members for initial clearance. 4. The house members have discussed to construct a team to visit the labs for inspection on the research work going on in var

V. UPLOAD RELEVANT INFORMATION :

Remarks : meeting :minute

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VI. Declaration

By the Chairman of the IBSC:

Name : BHABESH CH GOIWAMI

Designation : Vice chancellor

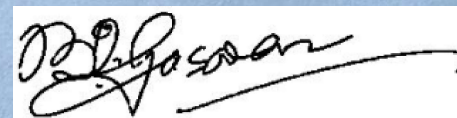
I undertake that the deliberations mentioned above were considered in the meeting of the IBSC held on 04/02/2021. I assure that non-adherence, if any, arising out of the experiments would be brought to the notice of the Govt immediately. I am aware that making false or misleading statements may attract penalty under the Environment (Protection) Act, 1986.

By the DBT Nominee of the IBSC:

Name : Dr. PROBODH BORAH

Designation : Professor

I certify that the information contained in these minutes has been checked by the Institutional Biosafety Committee (IBSC) and found to be complete. I further certify that the firm has been observing all the provisions of Regulations & Guidelines for recombinant DNA Research & Biocontainment 2017 and Guidelines & Handbook for Institutional Biosafety Committee (IBSC), 2011, as modified time to time by the Government of India. The firm also has adequate safety compliance measures and proficiency to pursue proposed agenda.



Signer ID: JH9QA0EYE9...


Signature with Stamp & date : 28/01/2023

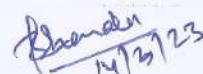
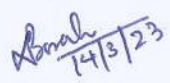
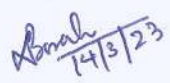
Professor & Head
Dept. of Animal Biotechnology
College of Veterinary Science
A.A.U., Khanapara, Guwahati-781 122

IBSC MINUTES OF MEETING DETAILS

Name of the Organization : Cotton University
IBSC Registration No : COTT09082019428
Meeting Number : 1
Meeting Place : Cotton University, Guwahati

Name & Designation of the Authorized Signatory : Ramesh Ch.Deka Vice Chancellor
UIC : COTT09082019428
Meeting Date : 06/03/2023
Number of Meetings held so far this year : 1

Participants of the Meeting

S.No	Composition	Name ,Designation & Affiliation	Signature with Date
1	Chairman	Dr Ramesh Chandra Deka,Vice Chancellor & Cotton University	 14/03/2023
2	DBT Nominee	Dr PROBODH BORAH,Professor & College of Veterinary Science, Assam Agricultural University,	 14/3/23
3	Member Secretary	Dr Raju Bharalee,Assistant Professor & Cotton University, Department of Molecular Biology and Biotechno	 14/3/23
4	Biosafety Officer	Dr Sumi Deka, Biosafety Officer, Department of Biochemistry, GMCH, Guwahati, Assam	 14/03/23
5	Outside Expert	Dr Pranjan Barman,Assistant Professor & Gauhati University, Department of Biotechnology.	 14/3/2023
6	Outside Expert	Dr Debabrat Baishya,Assistant Professor & Gauhati University, Dept. of Bioengineering and Technology	 14/3/23
7	Internal Member	Dr Nameirakpam Nirjanta Devi,Assistant Professor & Cotton University	 14/3/23
8	Internal Member	Dr Namram Sushindrajit Singh,Assistant Professor & Cotton University, Dept. of Zoology	 14/3/23
9	Internal Member	Dr Akalesh Kumar Verma,Assistant professor & Cotton University, Dept. of Zoology	 14/3/23
10	Internal Member	Dr Hrishikesh Upadhyaya,Assistant Professor & Cotton University, Dept. of Botany	 14/3/23
11	Internal Member	Dr Leena Borah,Assistant Professor & Cotton University, Dept. of EBWS	 14/3/23
12	Internal Member	Dr Mausumi Ganguly,Professor & Cotton University, Dept. of Chemistry	 14/3/23
13	Internal Member	Dr Purabi Deka Bose,Assistant Professor & Cotton University, Department of Molecular Biology and Biotechno	 14/3/23

IBSC MINUTES OF MEETING DETAILS

I. Meeting Agenda :

S.No	Agenda ItemNo	Purpose	Issue For Discussion
1	1.1	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To review biosafety issues related to the submitted proposal
2	1.2	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss biosafety issues related to handling of soil microbes.
3	1.3	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Biosafety issues related to handling of fungal isolates from dumping sites
4	1.4	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss about possible risk involved in handling the wild mushrooms
5	1.5	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To biosafety issues related to wild mushrooms were discussed
6	1.6	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss biosafety issues related to endophytes
7	1.7	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss about biosafety issues related to endophytic bacteria
8	1.8	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss biosafety issues in handling gut microbial communities of earth worm
9	1.9	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Biosafety issues related to the submitted research work
10	2.1	Examination & Clearance of Proposal for Import, Export, Receipt and Transfer	There were no proposals for examination and clearance for import export etc
11	1.10	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Biosafety issues related to the research work would be discussed
12	1.11	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss biosafety issues related to the research work submitted
13	1.12	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Biosafety issues related to the research work would be discussed
14	1.13	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss biosafety issues related to the submitted work
15	1.14	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	biosafety issues related to the submitted research work
16	1.15	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	biosafety issue related to the submitted proposal
17	1.16	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss about the biosafety issues related to the proposed work.
18	1.17	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	biosafety issues related to the submitted proposal
19	1.18	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss possible biosafety issues involved in the submitted work.
20	1.19	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	There were no issues related to biosafety in the research work
21	1.20	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	no issues related to biosafety are there in the research work
22	1.21	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	biosafety issues related to the two species of fungus were discussed
23	1.22	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss issues related to biosafety of the submitted research work
24	1.23	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Biosafety issues related to the project

IBSC MINUTES OF MEETING DETAILS

25	1.24	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss biosafety issues, if any, related to the submitted proposal
26	1.25	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	To discuss any biosafety issues involved

II.Examination & Clearances of Proposals for Import, Export, Receipt and Transfer of Hazardous Microorganism(s), GMOs/ LMOs/ Product(s) thereof for Research & Development Purposes:

S.No	Agenda ItemNo	Purpose	Applicant Name	Applicant Designation	Details of material(s) transportation	Quantity Applied For	Material(s) belong to risk group as per Regulations & Guidelines for recombinant DNA Research & Biocontainment,2017	Transportation between	Containment measures to be employed	Details of documents	Whether the end user is different from the applicant? If so, provide details and justify	Details of deliberations	Status of the application
1	2.1	Examination & Clearance of Proposal for Import, Export, Receipt and Transfer	No application received	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

III.Examination & Clearances of Proposals For Carry Out Research & Development, Pilot Operations, Trials under Contained/ Confined-Field Conditions and Others:

S.No	Agenda ItemNo	Purpose	Project Title	Principal Investigator/Project Coordinator Name	Principal Investigator/Project Coordinator Designation	Risk categories of experiments as per Regulations and Guidelines for recombinant DNA research and biocontainment,2017	Requirement of containment measures	Details of deliberations	Status of the application
1	1.1	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Identification and study of certain heavy metal tolerant fungi	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-1	laminar flow and Autoclave	Details were presented in front of the IBSC members during the meeting	Approved
2	1.2	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Isolation and Identification of heavy metal tolerant bacterial strains from soil	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-2	laminar flow and Autoclave. Suggested to use Class 2 Biosafety Cabinet	Details were presented in front of the IBSC members during the meeting	approved
3	1.3	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Mycoremediation of heavy metal contaminated dumping site through metallotolerant fungal isolates	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-2	laminar flow and Autoclave, Suggested to use Class 2 Biosafety Cabinet	Details were presented in front of the IBSC members during the meeting	approved
4	1.4	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Extraction of bioactive compound and medicinal properties of wild edible mushrooms and production of spawn and mushroom cultivation technology	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-1	laminar flow and Autoclave	Details were presented in front of the IBSC members during the meeting	approved
5	1.5	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	A study on the diversity of wild mushroom species of Assam	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-1	laminar flow and Autoclave	Details were presented in front of the IBSC members during the meeting	approved
6	1.6	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field	Isolation and phytochemical screening of endophytes isolated from Curcuma	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	None	laminar flow and Autoclave	Details were presented in front of the IBSC members during the	approved

IBSC MINUTES OF MEETING DETAILS

7	1.7	Conditions, etc Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	amada Screening of bioactive compounds and endophytic actinobacteria from the pharmacologically potent cultivars of ginger grown in Assam, North-East, India	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-1	laminar flow and Autoclave	meeting Details were presented in front of the IBSC members during the meeting	approved
8	1.8	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Study on the functional diversity of gut microbial communities of earthworm under heavy metal stress	Dr N Nirjanta Devi	ASSISTANT PROFESSOR	Risk Category-1	laminar flow and Autoclave	Details were presented in front of the IBSC members during the meeting	approved
9	1.9	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	A study on Vascular Endothelial Growth Factor-A (VEGF-A) gene polymorphism in patients with Acute Myeloid Leukemia of Assam, India	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
10	1.10	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	A study on Programmed cell death protein-1 (PD-1) gene polymorphism in patients with Acute Myeloid Leukemia of Assam, India	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
11	1.11	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	A study on Hypoxia-inducible factor 1-a (HIF-1a) gene polymorphism in patients with Acute Myeloid Leukemia of Assam, India	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
12	1.12	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Role of Tim-3 gene expression studies in the pathogenesis of Acute Myeloid Leukemia (AML) patients in the population of Assam	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
13	1.13	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Role of Hypoxia-inducible factor 1a (HIF-1a) gene expression in the pathogenesis of Acute Myeloid Leukemia (AML) in the population of Assam	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
14	1.14	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Role of FOXO1 gene polymorphism and expression studies in the pathogenesis of Non-alcoholic Fatty liver disease (NAFLD) in the population of Assam	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
15	1.15	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	A study on the Role of T- cell immunoglobulin and mucin domain 3 (Tim- 3) and Associated Immune Checkpoints in the Pathogenesis of Acute Myeloid Leukemia	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
16	1.16	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field	Evaluation of Potent Immunological and Genetic Mechanisms in the	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved

IBSC MINUTES OF MEETING DETAILS

	Conditions, etc	Pathogenesis of Non-Alcoholic Fatty Liver Disease in the population of Assam							
17	1.17	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Associative study of chromosomal abnormalities and molecular genetic factors in hypoxic and angiogenic pathways in the pathogenesis of Acute Myeloid Leukemia: A study from Assam, India	Dr Purabi Deka Bose	ASSISTANT PROFESSOR	No risk group microbes	containment facilities for RG 1 would be applicable	PI has explained that no risk group microbes are involved	approved
18	1.18	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Evaluation of Vitamin C content of citrus fruits of North East India	Dr Raju Bharalee	ASSISTANT PROFESSOR	No risk group microbes	No containment required	PI has explained the details of the work	approved
19	1.19	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Comparative analysis of total protein content of locally available lablab beans	Dr Raju Bharalee	ASSISTANT PROFESSOR	No risk group microbes	No containment required	PI has explained the details of the work	approved
20	1.20	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	A study to detect adulterant in raw and commercial milk samples from Guwahati	Dr Raju Bharalee	ASSISTANT PROFESSOR	No risk group microbes	No containment required	PI has explained the details of the work	approved
21	1.21	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Evaluating the combined efficacy of fungal formulations: Beauveria bassiana and Verticillium lecanii in mosquito population control in Guwahati, Assam	Dr Anjana Singha Naorem	ASSISTANT PROFESSOR	Risk Category-1	containment facilities like autoclave, laminar flow, BSC etc would be required	PI has explained the details of the work	approved
22	1.22	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Study of antitumor activity and toxicity of fungal extracts in murine tumor model and isolation of bioactive principle thereof.	Dr Akalesh Kumar Verma	ASSISTANT PROFESSOR	No risk group microbes	Containment facilities related to RG 1 would be enough, BSC-II	PI has explained the details of the work	approved
23	1.23	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Study of anti-tumor activity and toxicity of Melinjo (Gnetum gnemon L.) in Dalton's lymphoma ascites bearing mice	Dr Namram Sushindrajit Singh	ASSISTANT PROFESSOR	No risk group microbes	Containment facilities related to RG 1 would be enough	PI has explained the details of the work	approved
24	1.24	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Assessment of antitumor efficacy of Garcinia pedunculata Roxb. Fruit extract in tumor bearing mice model	Dr Namram Sushindrajit Singh	ASSISTANT PROFESSOR	No risk group microbes	Containment facilities related to RG 1 would be enough	PI has explained the details of the work	approved
25	1.25	Examination & Clearance of Proposal for Carry out R&D, Pilot Operations and Trials under Contained/ Confined-Field Conditions, etc	Evaluation of the anticancer efficacy of certain traditionally used medicinal plants of Northeast India	Dr Namram Sushindrajit Singh	ASSISTANT PROFESSOR	No risk group microbes	Containment facilities related to RG 1 would be enough	PI has explained the details of the work	approved

IV. Issues Discussed Other than the Above:

S.No Agenda ItemNo Topic of Deliberations

Deliberations and Decisions

V. UPLOAD RELEVANT INFORMATION :

IBSC MINUTES OF MEETING DETAILS

Remarks : Meeting agenda and attendance sheet

20230310102333937_Agenda and attendance record 06.03.2023.pdf

VI. Declaration

By the Chairman of the IBSC:

Name :

Designation :

- . I undertake that the deliberations mentioned above were considered in the meeting of the IBSC held on 06/03/2023
- . I assure that non-adherence, if any, arising out of the experiments would be brought to the notice of the Govt immediately.
- . I am aware that making false or misleading statements may attract penalty under the Environment (Protection) Act, 1986.

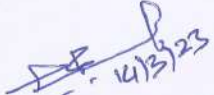
By the DBT Nominee of the IBSC:

Name : Dr PROBODH BORAH

Designation : Professor

- . I certify that the information contained in these minutes has been checked by the Institutional Biosafety Committee (IBSC) and found to be complete.
- . I further certify that the firm has been observing all the provisions of Regulations & Guidelines for recombinant DNA Research & Biocontainment, 2017 and Guidelines & Handbook for Institutional Biosafety Committee (IBSC), 2011, as modified time to time by the Government of India;
- . The firm also has adequate safety compliance measures and proficiency to pursue proposed agenda.


14/03/2023
Signature with stamp & 14/03/2023
date :


14/3/23
Signature with stamp & 14/03/2023
date :