3.7.1 Collaboration

Name of the Bhavanas
Bhasha Bhavana (Institute of Languages, Literature & Culture)
Kala Bhavana (Institute of Fine Arts)
Palli Samgathana Vibhaga (Institute of Rural Reconstruction)
Sangit Bhavana (Institute of Music, Dance & Drama)
Siksha Bhavana (Institute of Science)
Vidya Bhavana (Institute of Humanities & Social Science)
Vinaya Bhavana (Institute of Education)

3.7.1 Number of collaborative activities with other institutions/ research establishments/industry for research and academic development of faculty and students per year.

BHASHA BHAVANA			
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2015-2016	7th days, 27/12/2015 - 02/01/2016
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2016	12 days, 15/02/2016 - 26/02/2016
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2016	11 days, 02/06/2016 - 12/06/2016
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2016-2017	7 days, 29/12/2016 - 04/01/2017
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2017	13 days, 12/01/2017 - 24/01/ 2017
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2017	9 days, 26/05/2017 - 04/06/2017
Students' Exchange Programme	Visva-Bharati University	2018	8 days, 12/01/2018 - 17/01/2018
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2018	13 days, 16/05/2018 - 28/05/2018
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2019	8 days, 13/01/2019 - 20/01/2019
Students' Exchange Programme	Yunnan University, People's Republic of China (PRC)	2019	7 days, 20/06/2019 - 26//06/2019
Research Activity	Yunnan University, People's Republic of China (PRC)	2019	3 Months, 08/09/2019 - 07/11/2019
Goethe Institut Travelling Library	Goethe Institut, Kolkata and Visva-Bharati	2016 - 2017	1 year, 01/05/2016-30/04/2017
Goethe Institut Travelling Library	Goethe Institut, Kolkata and Visva-Bharati	2017 - 2018	1 year, 01/05/2017-30/04/2018
Goethe Institut Travelling Library	Goethe Institut, Kolkata and Visva-Bharati	2018 - 2019	1 year, 01/05/2018-30/04/2019
Goethe Institut Travelling Library	Goethe Institut, Kolkata and Visva-Bharati	2019 - 2020	1 year, 01/05/2019-30/04/2020
Students' Exchange Programme	Reitaku University, Japan	2017-2018	4 months, 12/11/2017-28/02/2018
Students' Exchange Programme	Reitaku University, Japan	2018-2019	4 months, 13/12/2018-02/04/2019

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Students & Faculty Exchange Programme	Aoyama Gakuin, Japan Dr. Gita A. Keeni	2018-2019	6 days, 25/10/2018-30/10/2018
Students & Faculty Exchange Programme	Aoyama Gakuin, Japan Piyali Roy	2018-2019	6 days, 25/10/2018-30/10/2018
Students & Faculty Exchange Programme	Aoyama Gakuin, Japan Subhajit Chatterjee	2018-2019	6 days, 25/10/2018-30/10/2018
Students & Faculty Exchange Programme	Aoyama Gakuin, Japan Debangana Bhattacharya	2018-2019	6 days, 25/10/2018-30/10/2018
Students & Faculty Exchange Programme	Aoyama Gakuin, Japan SK Jewel Haque	2018-2019	6 days, 25/10/2018-30/10/2018
Students & Faculty Exchange Programme	Aoyama Gakuin, Japan Mathura Das	2018-2019	6 days, 25/10/2018-30/10/2018

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VISVA-BHARATI
SANTINIKETAN

Ref.No. Admn./G/V-10.1/707

Date: 28.12.2015

चीना-भवन / Cheena Bhavana
विश्वभारती / Visva-Bharati
प्राप्ति सं./Receipt No. 240
दिनांक/Dated 29.12.15

Head
Deptt. of Chinese Language & Culture
Bhasha Bhavana
Visva-Bharati

Sub: Permission for participation in the Students Exchange Programme between Visva-Bharati and Yunnan University, China

Ref: Your letters Nos. i). CB/166/12B/2015-16 dated 07.12.2015

With reference to the above, the undersigned is directed to convey that the competent authority has been pleased to permit the following students of Cheena-Bhavana for participation in the Students Exchange Programme between Visva-Bharati and Yunnan University, China to be held in China on and from 27th December, 2015 to 2nd January, 2016 in order to promote the people to people exchange between Visva-Bharati and Yunnan University, China, subject to submission of undertaking by the Parents/Guardians of the students concerned:

1. Subhendu Ghosal
2. Swapnanil Dhar
3. Ramanuj Baidya
4. Bilash Mukherjee
5. Suman Mitra
6. Subhanwita Sain
7. Sanchita Konai

The Upacharya has kindly nominated Prof. Kailash Pattanaik, Principal, Bhasha Bhavana and Prof. Amal Pal, Head, Deptt. of Bengali to accompany the team.

The expenditure to this effect would be borne by the Consulate Office of China in Kolkata.

Joint Registrar (Establishment)
Visva-Bharati

C.C to:

1. Adhyaksha, Bhasha Bhavana
2. Dean of Students' Welfare
3. Proctor
4. C.S to Vice-Chancellor
5. P.A to Registrar

29/12/15.

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आचार्य
श्री नरेंद्र मोदी

ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI

उपाचार्य
प्रो. सुशांत दत्तगुप्त

UPACHARYA (VICE-CHANCELLOR)
PROF. SUSHANTA DATTAGUPTA

विश्वभारती
VISVA-BHARATI

(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notification No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर

FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731235
SANTINIKETAN - 731235
जि.वीरभूम, पश्चिम बंगाल, भारत
DIST. BIRBHUM, WEST BENGAL, INDIA
फोन Tel: +91-3463-262 451/261 531
फैक्स Fax: +91-3463-262 672
ई-मेल E-mail : visva-bharati@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

Ref. No. CB/163/12B/58/2015-16

सं./No._____

08.12.2015

दिनांक/Date._____

To
Mrs Bi Yuanyuan
Office of International Cooperation and Exchange
Yunnan University
No.2, North Cuihu Road, Kunming, 650091,
Yunnan Province, P.R.C.

Sub: Invitation to Yunnan University to visit India from **15th February 2016 to 26th February 2016** based on the MOU between Visva-Bharati, India and Yunnan University, P.R. China.

Dear Ms. Bi Yuanyuan,

I am very glad that the student exchange program based on the Memorandum of Understanding between Yunnan University, China and Visva-Bharati, India has been proceeding well. According to the schedule, the fourth phase of the exchange program is about to be launched.

I am glad to invite the twenty students and two staff from your university (name list attached) to pay a visit to Visva-Bharati University, India from **15th February 2016 to 26th February 2016** under the exchange program.

As our previous practice, Yunnan University will cover the cost in India, including local transportation, meals, accommodation and field trip, whereas the students and staff from Yunnan University are requested to bear their own round trip airfare and medical insurance.

With regards,

Yours sincerely,

Registrar
Visva-Bharati
कुलसचिव (कार्यवाहक)
विश्वभारती
Registrar (Acting)
Visva-Bharati

Attachment : as stated

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आचार्य
श्री नरेंद्र मोदी

ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI

उपाचार्य
प्रो. सुशांत दत्तगुप्त

UPACHARYA (VICE-CHANCELLOR)
PROF. SUSHANTA DATTAGUPTA

विश्वभारती

VISVA-BHARATI

(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notification No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर

FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731235
SANTINIKETAN - 731235
जि.वीरभूम, पश्चिम बंगाल, भारत
DIST. BIRBHUM, WEST BENGAL, INDIA
फोन Tel: +91-3463-262 451/261 531
फैक्स Fax: +91-3463-262 672
ई-मेल E-mail : visva-bharati@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

सं./No._____

दिनांक/Date._____

Name List for the Delegation from Yunnan University- 2016

1. Ms. Bi Yuanyuan, Office of International Cooperation and Exchange (Teacher), Yunnan University
2. Ms. Li Runhong, Graduate School (Teacher), Yunnan University
3. Ms. Pei Fangyapei, School of Public Administration, Yunnan University
4. Ms. Lichen Junran, School of Mathematics & Statistics, Yunnan University
5. Ms. Liao Aidi, Institute of Development Research, Yunnan University
6. Ms. Zhou Zixuan, Institute of International River & Ecological Security, Yunnan University
7. Ms. Huo Zumei, School of Economics, Yunnan University
8. Mr. Ni Weiyang, School of Economics, Yunnan University
9. Ms. Wu Qing, School of Journalism, Yunnan University
10. Mr. Zhou Qijie, School of Journalism, Yunnan University
11. Ms. Ding Meimei, School of Marxism-Leninism, Yunnan University
12. Ms. Qian Liji, College of International Students, Yunnan University
13. Ms. Li Yang, School of the Humanities, Yunnan University
14. Ms. Sun Kejia, School of the Humanities, Yunnan University
15. Ms. He Xueqian, Institute of International Relations, Yunnan University
16. Ms. Fu Jinlin, Institute of International Relations, Yunnan University
17. Mr. Xue Xiyue, Institute of International Relations, Yunnan University
18. Ms. Zhang Guying, Institute of International Relations, Yunnan University
19. Ms. Tang Kezhen, School of Foreign Languages, Yunnan University
20. Ms. Zhao Qing, School of Foreign Languages, Yunnan University
21. Ms. Tian Dehui. School of Foreign Languages, Yunnan University
22. Ms. Liu Qian, School of Foreign Languages, Yunnan University

Registrar
Visva-Bharati
कुलसचिव (कार्यवाहक)

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VISVA-BHARATI
SANTINIKETAN

Ref.No. Admn./G/V-10.1/157

चीना भवन / Cheena Bhavana
विश्वभारती / Visva-Bharati
दस्तावेज संख्या / Document No. 44
दिनांक / Date 27/05/16

Date: 24.05.2016

Head
Deptt. of Chinese Language & Culture
Bhasha Bhavana
Visva-Bharati

Sub: Permission for participation in the Students Exchange Programme between Visva-Bharati and Yunnan University, China

Ref: Your letters Nos. i). CB/14/12B/2016-17 dated 05.05.2016

With reference to the above, the undersigned is directed to convey that the competent authority has been pleased to permit the following students of Cheena-Bhavana & other Bhavanas of the University for participation in the Students Exchange Programme between Visva-Bharati and Yunnan University, China to be held in China on and from 2nd June, 2016 to 12th June, 2016 in order to promote the educational and cultural exchanges between Visva-Bharati, India and Yunnan University, China, subject to submission of undertaking by the parents/guardians of the students concerned:

The students selected from Cheena Bhavana are:

1. Archita Ghosh - BA (Sem - II)
2. Tathagata Chakraborty – BA (Sem- II)
3. Abhishek Saha – BA (Sem- II)
4. Sreoshi Dutta – BA(Sem- II)
5. Disha Ghosh Dastidar – BA (Sem –II)
6. Gulsanara – BA (Sem – II)
7. Mili Mukherjee – BA (Sem- IV)
8. Sanchita Konai – BA (Sem- IV)
9. Deedhiti Patnaik – BA (Sem- IV)
10. Surajit Mahato – BA (Sem- IV)
11. Jayatasree Kundu- BA (Sem- IV)
12. Abhinandan Dey – BA (Sem- IV)
13. Joyita Bhattacharya – MA (Sem- II)

Contd....P/2

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The students nominated by the Principal of other Bhavanas are:

1. Akangshya Biswas – BA (Hons.) Semester – IV, A.I.H.C. & A, Vidya-Bhavana
2. Arpita Akhanda- MFA – 2nd year, Deptt. of Painting, Kala Bhavana
3. Nitish Kumar – BFA, Sem – VIII, Deptt. of Sculpture, Kala Bhavana
4. Baishali Sarkar – BA (Hons.) Semester –IV, Deptt. of Indo-Tibetan Studies, Bhasha Bhavana.
5. Piya Ghosh (MSW Sem-II), Palli Samgathana Vibhaga

1. Teacher in Charge : Shri Debdas Kundu, Assistant Professor, Cheena Bhavana
2. Assistant: Ajay Kumar Sharma, Assistant Librarian & In-Charge, Cheena Bhavana Library

The University shall have no financial involvement to this tour programme. Necessary measures may please be taken to ensure safety and security of the students during their visit to China.

24.05.

Joint Registrar (Administration)
Visva-Bharati

C.C to:

1. Adhyaksha, Bhasha Bhavana
2. Dean of Students' Welfare
3. Proctor
4. C.S to Vice-Chancellor
5. P.A to Registrar

24/5/11

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RECEIVED
GENERAL SECTION
REGISTRAR'S OFFICE
VISVA-BHARATI

Ref: CB/14/12B/2016-17

Cheena Bhavana
05.05.2016

To Joint
The Deputy Registrar(Establishment)
Visva-Bharati

Sub: Students Exchange Programme between Visva-Bharati University India, and Yunnan University, China.

Sir,

In order to promote the cultural and educational exchange between India and China, Visva-Bharati is again sending a student's team to Yunnan University where the students will pay the two way travel expenses and all the boarding, food and transportation at Yunnan will be taken care by Yunnan University. The tentative time of visit of the students **is 2nd June to 12th June, 2016.**

The students of Cheena Bhavana was selected through a interview on 15.04.2016 where the two visiting faculty from China were present and the Principals of other Bhavanas send the names of the students of their Bhavanas.

The students selected from Cheena Bhavana are:

1. Archita Ghosh - BA (Sem-II)
2. Tathagata Chakraborty - BA (Sem-II)
3. Abhishek Saha - BA (Sem-II)
4. Sreoshi Dutta BA (Sem-II)
5. Disha Ghosh Dastidar - BA (Sem-II)
6. Gulsanara - BA (Sem-II)
7. Mili Mukherjee - BA(Sem-IV)
8. Sanchita Konai - BA (Sem-IV)
9. Deedhiti Patnaik - BA (Sem-IV)
10. Surajit Mahato - BA (Sem-IV)
11. Jayatasree Kundu - BA (Sem-IV)
12. Abhinandan Dey - BA (Sem-IV)

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13. Joyita Bhattacharya - MA (Sem-II)

The students nominated by the Principals of other Bhavana's are:

1. Akangshya Biswas - BA (Hons.) Semester-IV, A.I.H,C & A ,Vidya Bhavana)
2. Arpita Akhanda -MFA-2nd year, Painting, Kala Bhavana)
3. Nitish Kumar -BFA, Sem-VIII, Sculpture ,Kala Bhavana)
4. Baishali Sarkar - BA (Hons.) Semester-IV, Indo-Tibetan Studies, Bhasha Bhavana)
5. Piya Ghosh (MSW Sem-II), Palli Samgathana Vibhaga

Teacher in Charge: Shri Debdas Kundu (Assistant Professor, Cheena Bhavana,)

Assistant: Ajay Kumar Sharma (Assistant Librarian & In-charge,Cheena Bhavana Library)

Sir, This is for your kind approval and necessary action.

A. Banerjee 5/5/10

Head of the Department of
Chinese Language & Culture
(Cheena Bhavana)
Bhasha Bhavana, Visva-Bharati

चीना भवन / Cheena-Bhavana
विश्वभारती / Visva-Bharati
शान्तिनिकेतन / Santiniketan

Encl: Letter of Vice Chancellor approving the tour

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डॉकेट संख्या 1/कुलपति 3208
DCT NO -1/VC
28 NOV 2016
कुलपति का कार्यालय विश्वभारती
VICE-CHANCELLOR'S OFFICE
VISVA-BHARATI

Office of the Registrar
Visva-Bharati
Docket No. 6446 Date 26/11/16

To
The Registrar
Visva-Bharati

Cheena Bhavana
25.11.16

(Sub:Proposal of the Consulate Office of the PRC to send a student-teacher team to China)

Respected Sir,

In order to promote the educational and cultural exchanges between India and China, the Consulate General of the People's Republic of China in Kolkata has proposed to send a delegation of Visva-Bharati including Vice Chancellor, Registrar, Principal, Bhasha Bhavana and few teachers and students of Cheena Bhavana **to China by the end of December, 2016** for a period of **five to seven days**.

Sir, the students of Cheena Bhavana has been selected strictly on the basis of the marks of the last Semester Examination. The entire cost of the tour (excluding visa charges) will be borne by the Chinese Consulate Office in Kolkata.

Sir, in this situation, I hope that you will be kind enough to approve this programme so that we can expedite the process. The letter of the Chinese Consulate Office is enclosed for your kind perusal.

LIST OF THE CANDIDATES FOR CHINA TOUR SPONSORED BY CHINESE CONSULATE OFFICE IN KOLKATA2016

Sl NO.	Name	Date of Birth		Passport No
1.	SWAPAN KUMAR DATTA	28/01/1953	MALE	Z2094926
2.	AMIT KUMAR HAZRA	21/12/1963	MALE	K0476941
3.	KAILASH PATTANAIK	06/02/1957	MALE	N0060992
4.	AVIJIT BANERJEE	12/08/1971	MALE	M0733478
5.	DEBARATI KUNDU	20/02/1994	FEMALE	N9279929
6.	GULSANARA	19/11/1995	FEMALE	N5276543
7.	SUPTADITA BISWAS	28/04/1995	FEMALE	K1221748
8.	RAVINDRA KUMAR	03/07/1990	MALE	P0714775
9.	RITIKA DUTTA	29/09/1992	FEMALE	P0221844
10.	DISHA SEN	06/12/1996	FEMALE	K0497108

Yours faithfully

A. Banerjee 25/11/16

(Dr Avijit Banerjee)
Head of the Department of
Chinese Language & Culture (Cheena Bhavana)
Bhasha Bhavana, Visva-Bharati

विभागाध्यक्ष / Head
भवन / Cheena-Bhavana
विश्वभारती / Visva-Bharati
शान्तिनिकेतन / Santiniketan

May kindly be approved
25/11/16

VC

S. Wallia
29.11.16

HoD, Chinese
2/12/16

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22 November 2016

Dr. Avijit Banerjee
The Head of the Department
Cheena Bhavana
Visva-Bharati University
Santiniketan, Birbhum
West Bengal -731235

Dear Dr. Avijit Banerjee,

In order to promote the people to people exchanges between China and India, the Consulate General of the People's Republic of China in Kolkata would like to invite a 10 to 12 member-delegation from Visva-Bharati University, including Vice Chancellor, Registrar, Principal-Bhasha Bhavana and students from Cheena Bhavana, to China for a 5 to 7 days' trip in December 2016. We believe this trip will further promote India-China educational and cultural exchange.

With best wishes.

Cai Zhifeng
Depury Consul General
of the People's Republic of China in Kolkata

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Ref. No.

To
Ms Bi Yuanyuan
Office of International Cooperation and Exchange
Yunnan University
No.2, North Cuihua Road, Kunming 650091
Yunnan Province, P.R.C.

Sub: Invitation to Yunnan University to Visit India from 12th January 2017 to 24th January 2017 based on the MOU between Visva-Bharati, India and Yunnan University, P.R.China.

Dear Ms. Bi Yuanyuan,

I am very glad that the student exchange program based on the memorandum of understanding between Yunnan University, China and Visva-Bharati , India has been proceeding well . According to the schedule, the fifth phase of exchange program is about to be launched.

I am glad to invite the three teachers and thirty students from your university (name list attached) to pay a visit to Visva-Bharati University, India from 12th January 2017 to 24th January 2017 under the exchange program.

As our previous practice, Yunnan University will cover the cost in India, including local transportation, meals, accommodation and field trip, whereas the students and staff from Yunnan University are requested to bear their own round trip airfare and medical insurance.

With Regards,

Yours Sincerely,

15.12.2017

Arijit Banerjee

विभागाध्यक्ष / Head
चीना भवन / Cheena-Bhavana
विश्वभारती / Visva-Bharati
शन्तिनिकेतन / Santiniketan

Attachment: As stated

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Name list of the Delegation from Yunnan University 2017

1	Mr.SHEN BIN	Office of International Cooperation & Exchange	Teacher
2	Ms.LYU QIMEI	Graduate School	Teacher
3	Mr. WANG JINGYU	Office of International Cooperation & Exchange	Teacher
4	Ms.YUAN WANYING	Development Institute Yunnan University	Student
5	Mr.DUAN XINCHEN	Development Institute Yunnan University	Student
6	Ms.DU YAO	Development Institute Yunnan University	Student
7	Ms.YINXIAOYE	School of Public Administration	Student
8	Ms.TANG LIN	School of Public Administration	Student
9	Ms. LIJIAJIN	School of Public Administration	Student
10	Mr.YUAN XU	Institute of International Rivers and Eco-security	Student
11	Ms.LYUSHUYUN	International College	Student
12	Ms.CHEN TINGTING	International College	Student
13	Ms.ZENG BOYA	School of Economics	Student
14	Mr.ZHANGSHIBIN	School of Economics	Student
15	Ms.LI KEYING	School of Economics	Student
16	Ms.TUQI	School of Ecology and Environmental Science	Student
17	Ms.TANG RUI	School of Ecology and Environmental Science	Student

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18	Ms.ZENG TIAN	School of Life Science	Student
19	Ms.ZHENGLI	School of Vocational & Continuing Education	Student
20	Mr.WANG ZEXIAO	School of Vocational & Continuing Education	Student
21	Mr.ZHAO YUECHEN	Institute of International Studies	Student
22	Ms.LIZHANGYU	Institute of International Studies	Student
23	Mr.ZHANG RUI	School of Law	Student
24	Mr.XU ZHEYUAN	School of Law	Student
25	Ms.YU JING	School of Law	Student
26	Mr.QIN LIUWEI	School of Journalism	Student
27	Mr.XUE CHAO	School of Journalism	Student
28	Ms. LIZIXUAN	School of Chemical Science and Technology	Student
29	Ms.YAO ZHUJUN	School of Literature	Student
30	Ms.PING RUIJUAN	School of Foreign Languages	Student
31	Ms.CAO FANG	School of Foreign Languages	Student
32	Ms.QIU MIAO	School of Foreign Languages	Student
33	Ms.LIU XUELI	School of Foreign Languages	Student

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Schedule of the winter study camp of Yunnan University
云南大学冬季学习营日程表

(12th January - 24th January) of 2017

2017年1月12日—1月24日

Time时间	Activities活动	Remark备注
12th January (Thursday) 1月12日（星期四）		
00:30	Arrival,Pick-up at Airport in Kolkata 抵达加尔各答机场	DressCode Winter casual 着冬装
13th January (Friday)1月13日（星期五）		
10:00am-12:00	Visiting Calcutta University and Campus Tour访问加尔各答大学并参观校园	
2:00pm-5:00pm	Having lecture in Calcutta University 在加尔各答大学听取讲座	
14th January (Saturday)1月14日（星期六）		
		DressCode Formal suits 着正装
10 00am-12:00	Visiting Chinese School in Kolkata 参观加尔各答中国学校	
2:00pm-5:00pm	Visiting Chinese Consulate-general in Kolkata 参观中国驻加尔各答总领事馆	
15th January (Sunday)1月15日（星期日）		
Morning 上午	Departure for Shantniktan and V.B. 出发去和平乡和国际大学	
4:00pm-6:00pm	Orientation Introductory Remark by :HOD Cheena Bhavana Address by:Yunnan Univ, Head of the Delegation Venue:Chinese Department Hall 欢迎及导向会 中国学院院长 致欢迎辞 云南大学 带队老师 致辞 地点：中国学院会议室	
16th January (Monday)1月16日（星期一）		
09:45-10:45 am	Lecture on India's Two Epic Dr Gargi Bhattacharya, Department of Sanskrit, Venue:Chinese Department Hall 讲座：讲印度史诗《摩柯婆罗多》，《罗摩衍那》 梵文系教授地点：中国学院会议室,	
11:00am-1:30m	Visit to Departments of Visva-Bharati,Kala Bhavana, Siksha Bhavana, 参观国际大学的美术学院、科学学院。	
1:30pm	Lunch Venue:Guest House of Visva-Bharati于招待所午餐	
4:00pm-5:30pm	Cultural Performance, 文化表演	
6:00pm-8:00pm	Marketing逛商店	

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8:15pm	Supper Venue:Guest House of Visva-Bharati于招待所晚餐	
17th January (Tuesday)1月17日（星期二）		
9:00am- 11:30am	Visiting residence of Tagore参观泰戈尔故居	
14:30pm- 16:30pm	Having lectures on the Art and Language of West Bengal 听关于西孟加拉邦艺术和语言的讲座	
18th January (Wednesday)1月18日（星期三）		
10:00-1200	Visiting Durgapur town参观杜尔加布尔	
12:00-15:00	Having picnic in Durgapur Dam杜尔加布尔水坝野餐	
16:00	Departure for V.B.出发去国际大学	
19th January (Thursday)1月19日（星期四）		
	Closing and Farewell Ceremony闭幕式和欢送典礼	
	Departure for New Delhi 出发去新德里	
	Arrival at New Delhi 抵达新德里	宿新德里
20th January (Friday)1月20日（星期五）		
上午	1.Visiting museums in New Delhi 参观新德里博物馆 2.Visiting Parliament House and India Gate参观议会大厦和印度门	
下午	Visiting Lotus Temple参观莲花寺 Visiting Jama Masjid参观清真寺	宿新德里
21st January (Saturday)1月21日（星期六）		
上午	1 Visiting Jama Masjid参观清真寺 2、出发去阿格拉 Departure for Aarga	
下午	参观阿格拉红堡Visiting Red Fort	
22nd January (Sunday)1月22日（星期日）		
Morning 上午	参观泰姬陵 visiting Taj Mahal	
Afternoon 下午	参观法塔赫布尔西格里Visiting Fatehpur Sikri	
23rd January (Monday)1月23日（星期一）		
Morning 上午	乘车返回新德里By bus to New Delhli	
Afternoon 下午	By air to Kolkata乘飞机返回加尔各答	
Evening 晚上	By air to Kunming 乘飞机返回昆明	
24th January (Tuesday)1月24日（星期二）		
Morning 凌晨	Arrival at Kunming 抵达昆明	

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Office of the Registrar
Visva-Bharati
Docket No. 207/ Date 11/4

1/256 दिनांक 15.04.17
DOCKET & DESPATCH
GENERAL SECTION
VISVA-BHARATI

Ref: CB/8/12B/2017-18

Cheena Bhavana
11.04.17

To
The Registrar
Visva-Bharati

Sub: Students Exchange Programme between Visva-Bharati University India, and Yunnan University, China.

Sir,

In order to promote the cultural and educational exchange between India and China, Visva-Bharati is again sending a student's team to Yunnan University where the students will pay the two way travel expenses and all the boarding, food and transportation at Yunnan will be taken care by Yunnan University. The **tentative** time of visit of the students **is ~~16th~~ 26th May to ~~28 May~~ 16th June, 2017.**

The students of Cheena Bhavana were selected through an interview where visiting faculty from China was present and the Principals of other Bhavanas send the names of the students of their Bhavanas.

The students selected from Cheena Bhavana are:

1. Taniya Chitrakar
2. Supradip Das
3. Najma Khatoon
4. Punam Ghosh
5. Sushmita Shaw
6. Nilabja Sarkar
7. Poulami Dey
8. Dona Koner
9. Bhaskar Kundu
10. Ramala Mistry
11. Nisha Gupta
12. Pankaj Pratap

The students nominated by the Principals of other Bhavana's are:

1. Sreyashi Das- MA Sem-II, History, Vidya Bhavana
2. Saurodeep Mandal- M.Sc. (Sem-IV), Chemistry, Siksha Bhavana
3. Priya Das- BA (Hons.)Sem-VI, Geography, Vidya Bhavana
4. Monali Dutta- MRS (Sem-IV), Palli Samgathana Vibhaga
5. Vipin Verma- MFA - Design (glass Ceramic), Kala Bhavana

Approved without any financial involvement on my part of VB.
13/4/17

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O/C

To
The Registrar
Visva-Bharati

Cheena Bhavana
20.11.17

Respected Sir,

A thirty eight member delegation, comprising of students and teachers from Yunnan University, People's Republic of China is coming to visit Visva-Bharati University from **12th January 2018 to 17th January, 2018.** This visit is a under the MOU between Yunnan University and Visva-Bharati. This is the fifth visit of the Yunnan University student team to Visva-Bharati.

As a part of the MOU, a twenty two member delegation of students and teachers from Visva-Bharati also visited Yunnan University in **May, 2017**.During the visit, the food, lodging and local transportation was provided by the Yunnan University. During the earlier visit of the Yunnan University Delegation to Visva-Bharati in Febryary 2016, you were kind enough to give permission for free accommodation. I thus request you to give necessary approval so that they can be only **provided free accommodation 14 (fourteen) rooms at Purbapally Guest House and three rooms at Ratan Kuthi Guest House** from **12th January 2018 to 17th January, 2018.**

Thanking you,

Yours sincerely

Avijit Banerjee 20/11/17

Dr. Avijit Banerjee
Head of the Department of
Chinese Language and Culture (Cheena Bhavana)
Visva-Bharati

Head / Cheena-Bhavana
Visva-Bharati / Santiniketan

Approved
AR (PR)
21/11/17

21/11/17

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Schedule of the winter study camp of Yunnan University
云南大学冬季学习营日程表

(10th January - 22nd January) of 2018

2018年1月10日—1月22日

Time时间	Activities活动	Remark备注
10th January (Tursday) 1月10日（星期四）		
10:30	Arrival,Pick-up at Airport in Kolkata 抵达加尔各答机场 MU555	DressCode Winter casual 着冬装
10:00am-12:00	Check-in in the hotel	宿加尔各答
2:00pm-5:00pm	Visiting Victoria Memorial Hall	
11th January (Friday)1月11日（星期五）		
10 00am-12:00	Visiting Schools in Kolkata 参观加尔各答学校	
2:00pm-5:00pm	参观博物馆 Visiting Museum	
12th January (Saturday)1月12日（星期六）		
Morning 上午	Departure for Shantniktan and V.B. 出发去和平乡和国际大学	
3:00pm-6:00pm	体验乡村小树林市场	
13thJanuary (Sunday)1月13日（星期日）		
09:45-10:45 am	Orientation Introductory Remark by :HOD Cheena Bhavana Address by:Yunnan Univ, Head of the Delegation Venue:Chinese Department Hall 欢迎及导向会 中国学院院长 致欢迎辞 云南大学 带队老师 致辞 地点：中国学院会议室	Dress Code Formal suits 着正装
11:00am-1:30m	参观国际大学的美术学院 科学学院。	
1:30 pm	Lunch Venue:Guest House of Visva-Bharati 于招待所午餐	
4:00pm-5:30pm	讲座《梵语》	
6:00pm-8:00pm	Marketing 逛商店	
8:15pm	Supper Venue:Guest House of Visva-Bharati 于招待所晚餐	
14thJanuary (Monday) 1月14日（星期一）		
9:00am- 11:30am	Visiting residence of Tagore 参观泰戈尔故居	
14:30pm- 16:30pm	Lesson on India Art and Music印度音乐艺术体验课	

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15th January (Tuesday) 1月15日（星期二）		
10:00-1200	Visiting Primary School Affiliated V.B.& Visiting Libary 参观国际大学附属小学、图书馆	
15:00-17:00	《今日印度》讲座 Lecture on India Today	
16th January (Wednesday) 1月16日（星期三）		
10:00-1200	Visiting Durgapur town 参观杜加尔坡	
12:00-15:00	Visiting Parks in Durgapur Dam 杜加尔坡公园	
16:00	Departure for V.B. 返回国际大学	
17th January (Thursday) 1月17日（星期四）		
上午	讲座《泰戈尔与教育》Lecture on Tagore and Education	
下午	Party with Students of Cheena Bhavana与中国学院同学联欢	
18th January (Friday) 1月18日（星期五）		
上午	Farewell and Departure for Delhi与中国学院同学告别、出发前往德里	
下午	乘飞机前往德里 by air to Delhi	宿新德里
19th January (Saturday) 1月19日（星期六）		
Morning 上午	1.Visiting Humayong Tobm 参观胡马雍陵 2.Visiting Parliament House and India Gate 参观议会大厦和印度门	
Afternoon 下午	Visiting Lotus Temple 参观莲花寺 Departure for Argra乘车前往阿格拉	宿阿格拉
20th January (Sunday) 1月20日（星期日）		
Morning 上午	参观Visiting Fatehpur Sikri	
Afternoon 下午	参观红堡 Visitong Red Ford	
21st Jannary (Monday)1月21日（周一）		
上午	参观泰姬陵 Visiting Taj Mahal	
下午	阿格拉—德里—加尔各答 Argra-Dehli-Kalkata	
晚上	Check-in the hotel of Kalkata	宿加尔各答
22nd January (Tuseday) 1yue 22日（周二）		
上午	Back to Kunming by air MU556	
下午	返家	

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序号	学院	姓名	姓名拼音	出生日期	护照号	层次
1	工商管理与旅游管理学院 School of Business and Tourism Management	刘璐	Ms LIU LU	19970212	E93397577	本科
2	工商管理与旅游管理学院 School of Business and Tourism Management	黄雨卉	Ms HUANG YUHUI	19980306	E97390618	本科
3	生态学与环境学院 School of Ecology and Environmental Science	刘婕	Ms LIU JIE	19971025	E58687102	本科
4	法学院 School of Law	付雨童	Ms FU YUTONG	19970427	E45225537	本科
5	信息学院 School of Information Science and Engineering	曹玲	Ms CAO LING	19950614	E71880665	本科
6	外国语学院 School of Foreign Languages	张瑞	Ms ZHANG RUI	19970215	E56557921	本科
7	经济学院 School of Economics	盖尊禹	Mr GAI ZUNYU	19970613	E53382534	本科
8	文学院 School of Chinese Language and Literature	任怡燃	Ms REN YIRAN	19970219	E88305399	本科
9	经济学院 School of Economics	宋春瑶	Ms SONG CHUNYAO	19970110	E86459661	本科
10	公共管理学院 School of Public Administration	柯孜凝	Ms KE ZINING	19980107	E86436432	本科
11	软件学院 School of Software	付东伟	Ms FU DONGWEI	19980921		本科
12	经济学院 School of Economics	闵谭林	Mr MIN TANLIN	19980222		本科
13	经济学院 School of Economics	滕丽娜	Ms TENG LINA	19960204		本科
14	经济学院 School of Economics	高雨杰	Ms GAO YUJIE	19971225		本科
15	化学科学与工程学院 School of Chemical Science and Technology	吴旭东	Mr WU XUDONG	19970102		本科
16	外国语学院 School of Foreign Languages	顾卓然	Ms GU ZHUORAN	19960418		本科
17	资源环境与地球科学学院 School of Resources, Environment and Geo-sciences	柴文咪	Ms CHAI WENMI	19950818		本科
18	公共管理学院 School of Public Administration	高金活	Mr GAO JINHUO	19970915		本科
19	法学院 School of Law	刘弘薪	Mr LIU HONGXIN	19971120		本科
20	新闻学院 School of Journalism	徐文玲	Ms XU WENLING	19951204		本科
21	历史与档案学院 School of History and Archives	李淑敏	Ms LI SHUMIN	19950315	E53491967	硕士
22	文学院	王准	Mr WANG ZHUN	19900316	G40465972	博士

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	School of Liberal Arts					
23	国际关系研究院 Institute of International Relations	吴波汛	Mr WU BOXUN	19940627		硕士
24	公共管理学院 School of Public Administration	王江成	Mr WANG JIANGCHENG	19900626	E86413386	博士
25	发展研究院 Institute of Development Research	杨晓	Ms YANG XIAO	19930714		硕士
26	外国语学院 School of Foreign Languages	李静	Ms LI JING	19930420	E67859700	硕士
27	信息学院 School of Information Science and Engineering	赵奕	Mr ZHAO YI	19950312	E88322915	硕士
28	新闻学院 School of Journalism	王妹	Ms WANG MEI	19950530	E78505426	硕士
29	经济学院 School of Economics	李晓晔	Ms LI XIAOYE	19940815	E77381993	硕士
30	法学院 School of Law	马东	Mr MA DONG	19841113	E40662690	硕士
31	法学院 School of Law	吴冬蕾	Ms WU DONGLEI	19940121	G53364366	硕士
32	生态学与环境学院 School of Ecology and Environmental Science	方瑜鸿	Ms FANG YUHONG	19950805	E59872925	硕士
33	外国语学院 School of Foreign Languages	余思璟	Ms YU SIJING	19940626		硕士
34	建筑与规划学院 School of Architecture and Urban Planning	夏春红	Ms XIA CHUNHONG	19940413	EA9682397	硕士
35	数学与统计学院 School of Mathematics and Statistics	陆歆怡	Ms LU XINYI	19930711	EA7782974	硕士

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2018云南大学赴印度带队教师名单

序号 No.	学院/部门 School or Division	姓名 Name	姓名拼音 Name in English	出生日期 Date of Birth YY/MM/DD	护照号 Passport No.	备注 Remarks
1	学生事务工作处 Department of Students' Affairs	张拥军	Mr. ZHANG YONGJUN	19701023		Teacher
2	国际合作与交流处 Office of International Cooperation and Exchange	付蕾	Ms. FU LEI	19840716		Teacher
3	研究生院 Graduate School	宋晓娅	Ms. SONG XIAOYA	19880412		Teacher

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17B

Ref: CB/279/2/12B/2017-18

Cheena Bhavana
31.03.18

VICE CHANCELLOR'S OFFICE
VISVA-BHARATI

To
The Registrar
Visva-Bharati

Sub: Students Exchange Programme between Visva-Bharati University India, and Yunnan University, China.

Sir,

In order to promote the cultural and educational exchange between India and China, Visva-Bharati is again sending a student's team to Yunnan University and to Beijing(only for students of Cheena Bhavana) where the students will pay the two way travel expenses and all the boarding, food and transportation at Yunnan will be taken care by Yunnan University. The **tentative** time of visit of the students **is 16th May to 28th May, 2018.**

The students of Cheena Bhavana were selected through an interview where visiting faculty from China was present and the Principals of other Bhavanas send the names of the students of their Bhavanas.

The students selected from Cheena Bhavana are:

1. Pompia Mondal
2. Somrita Chakraborty
3. Shayani Nandy
4. Srijita Halder
5. Ashis Das
6. Al Mubdi
7. Sangita Pandit
8. Dibyasri Goswami
9. Somasree Mondal
10. Sukannya Das
11. Sreeja Hazra

May be kindly approved without any financial involvement of the University if agreed to

31/3/18

V.C.

Agreed

31.3.18

The students nominated by the Principals of other Bhavana's are:

1. Nafisa Sultana , M.Sc. in BotanySem-IV,Siksha-Bhavana
2. Tundup Dorjay, MFA-1st yearKala-Bhavana
3. Satya Narayan Sing, B.P.Ed., Sem-IIVinaya-Bhavana

AR(E/c) Gen Section

Pl. process

31/3/18.

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4. Sangita Mondal, M.P.Ed., Sem-IIVinaya-Bhavana
5. Souvik Banerjee, MRS. Sem-IIPalli Samgathana Vibhaga
6. Sowkatra , MSW, Sem-IVPalli Samgathana Vibhaga
7. Kamalika Roy , MA in Philosophy, Sem-II. Vidya-Bhavana
8. Debangana Bhattacharya, MA in Japanese, Sem-II Bhasha-Bhavana

Teacher in Charge: Dr Avijit Banerjee (HOD & Associate Prof, Cheena Bhavana,)

Assistant: Shri Sandip Biswas (Research Scholar, Cheena Bhavana& Assistant Professor in Chinese, Central Universityof Jharkhand).

Sir, The tour has been approved in principle by Vice Chancellor. This is for your kind approval and necessary action.

Avijit Banerjee 31/3/18

Head of the Department of
Chinese Language & Culture
(Cheena Bhavana)
Bhasha Bhavana, Visva-Bharati

Encl: Letter of Vice Chancellor approving the tour

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To
The Vice Chancellor
Visva-Bharati

Cheena Bhavana
03.3.18

(Sub: Exchange of Students between Yunnan University, China and Visva-Bharati, India)

Respected Sir,

In order to promote the educational and cultural exchanges between India and China, Visva-Bharati signed a Memorandum of Understanding with Yunnan University, Kunming, People 's Republic of China on July, 2011. Visva-Bharati is the first Central University in India to sign a MOU with a Chinese University. Under this MOU, **more than 250 students** from Visva-Bharati and Yunnan University had already visited each other's university. The students from Cheena Bhavana are selected by the Chinese Teachers. The Principals of Vidya, Bhasha ,PSV, Binoy Bhavana, Siksha Bhavana send the names of the students of their Bhavanas. In 2017, twenty students from Cheena Bhavana and other departments of Visva-Bharati Visited Yunnan university. Now, Yunnan University had again proposed to send about twenty (20) students of our university (about twelve students from Cheena Bhavana and the rest from other Bhavanas) along with one teacher/ Research Scholar(Cheena Bhavana) to Yunnan University by **the middle of May, 2018 for a period of about 10 days. Under this programme, the students will have to bear the travel expenses and visa fees. The accommodation, food and travel expenses of our students at Yunnan will be taken care by the Yunnan University.**

Among this one group of students (only those who know Chinese) may visit Beijing and the rest will be there in Kunming and return to India.

Sir, in this situation, I hope that you will be kind enough to **approve this programme** so that we can expedite the process of exchange of students between Yunnan University and Visva-Bharati.

Yours faithfully

Approved in principle
3/3/2018

Avijit Banerjee 3/3/18

(Dr Avijit Banerjee)
Head of the Department of
Chinese Language & Culture (Cheena Bhavana)
Bhasha Bhavana, Visva-Bharati
विभागाध्यक्ष / Head
चीना भवन / Cheena-Bhavana
विश्वभारती/ Visva-Bharati
शान्तिनिकेतन / Santiniketan

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To
The Registrar
Visva-Bharati

199
20.11.18

Cheena Bhavana
18.11.2018

No. 1/3350 Date 19/11/18

Dear Sir,

A forty five member delegation, comprising of students and teachers from Yunnan University, People's Republic of China is coming to visit Visva-Bharati University from **13th January 2019 to 20th January, 2019.** This visit is a under the MOU between Yunnan University and Visva-Bharati. This is the fifth visit of the Yunnan University student team to Visva-Bharati.

As a part of the MOU, a twenty two member delegation of students and teachers from Visva-Bharati also visited Yunnan University in **May, 2018.During the visit, the food, lodging and local transportation was provided by the Yunnan University. During the earlier visit of the Yunnan University Delegation to Visva-Bharati in January 2018, you were kind enough to give permission for free accommodation.** I thus request you to give necessary approval so that they can be only **provided free accommodation 14 (fourteen) rooms at Purbapally Guest House and three rooms at Ratan Kuthi Guest House from 13th January 2019 to 20th January, 2019.**

Thanking you,

Yours sincerely

Avijit Banerjee 18/11/18

Dr. Avijit Banerjee
Head of the Department of
Chinese Language and Culture (Cheena Bhavana)
Visva-Bharati

AR(PRO) - Pl. examined
put up.
19/11/18

Kindly find last year approval from the Competent Authority

REGISTRAR

Approved
4/12/18

AR(PRO)

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आचार्य
श्री नरेंद्र मोदी
ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI
उपाचार्य
प्रोफेसर विद्युत चक्रवर्ती
UPACHARYA (VICE-CHANCELLOR)
PROF. BIDYUT CHAKRABARTY

विश्वभारती
VISVA-BHARATI

(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notification No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731235
SANTINIKETAN - 731235
जि.वीरभूम, पश्चिम बंगाल, भारत
DIST. BIRBHUM, WEST BENGAL, INDIA
फोन Tel: +91-3463-262 451/261 531
फैक्स Fax: +91-3463-262 672
ई-मेल E-mail : visva-bharati@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

सं./No._____

दिनांक/Date._____

To
Ms. ZHANG YANNI
Yunnan University
Office of International Cooperation & Exchange
Yunnan University
Yunnan Province, P.R.China

Sub: Invitation to Yunan University to Visit India from 13th January 2019 to 25th January 2019 based on the MOU between Visva-Bharati, India and Yunan University, P.R.China.

Dear Ms. Zhang Yanni

I am very glad that the student exchange program based on the Memorandum of Understanding between Yunnan University, China and Visva-Bharati, India has been proceeding well. According to the schedule the seventh phase of exchange program is about to be launched.

I am glad to invite forty two students and three teachers from your university (name list attached) to pay a visit to Visva-Bharati university, India from 13th January 2019 to 25th January 2019 under the exchange program.

As our previous practice, Yunnan University will cover the cost in India, including local transportation, meals, accommodation and field trip, whereas the students and staff from Yunnan University are requested to bear their own round trip airfare and medical insurance.

With regards,

Avijit Banerjee

(Dr. Avijit Banerjee)
Head Department of
Chinese Language & Culture
Visva-Bharati

विभागाध्यक्ष / Head
चीना भवन / Cheena-Bhavana
विश्वभारती/ Visva-Bharati
शान्तिनिकेतन / Santiniketan

Attachment : as stated

Department of Chinese Language & Culture ★ VISVA BHARATI

आचार्य
श्री नरेंद्र मोदी
ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI
उपाचार्य
प्रोफेसर विद्युत चक्रवर्ती
UPACHARYA (VICE-CHANCELLOR)
PROF. BIDYUT CHAKRABARTY

विश्वभारती
VISVA-BHARATI

(Established by the Parliament of India under
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Vide Notification No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

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ई-मेल E-mail : visva-bharati@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

सं./No._____ दिनांक/Date._____

Name list of the delegation from Yunnan University 2019			
Sr. No	Name	Unit	Occupation
1)	Ms ZHANG YANNI	Office of International Cooperation and Exchange	Teacher
2)	Mr. ZHANG SHAOQING	School of Student Affairs	Teacher
3)	Ms ZHAO JIANJU	School of Public Administration	Teacher
4)	Ms YANG YANJIAO	School of Public Administration	Student
5)	Ms YANG YANJU	School of Chemical Science and Technology	Student
6)	Ms ZHAO JINGHAN	School of Chemical Science and Technology	Student
7)	Ms JIN SHUYU	School of Economics	Student
8)	Ms. YANG RUI	School of Business and Tourism Management	Student
9)	Ms LYV QI	School o Foreign Languages	Student
10)	Ms FENG YAOLIN	School of Chinese Languages and Literature	Student
11)	Ms BAO MIN	School of Economics	Student
12)	Ms. ZHANG YAN	School of International Education	Student
13)	Ms XU YUE	School of Business and Tourism Management	Student
14)	Ms YI WEI	College of Vocational and Further Education	Student
15)	Mr LIU XIKE	School of Art and Design	Student
16)	Mr. HAN YUEZHEN	School of Business and Tourism Management	Student
17)	Ms LUO YUAN	School of Journalism	Student
18)	Ms. NIU DAN	School of Journalism	Student
19)	Mr YANG YONGZHI	School of Journalism	Student
20)	Mr.ZHOU ZIMING	Esch School Of Philosophy	Student
21)	Ms. WANG XIAOWEI	School of Resource Environment and Earth Science	Student
22)	Ms. CHEN LINGSHU	School of Foreign Language	Student
23)	Ms. ZOU WENJUN	School of Architecture and Urban Planning	Student
24)	Ms. DENG LIN	School of International Education	Student
25)	Mr. CUI JINYU	School of history and archives	Student
26)	Mr. YANG JIUDA	School of history and archives	Student
27)	Mr XU ZILIAO	Law School	Student
28)	Ms JI RUIJIN	School of Life Science	Student
29)	Ms YANG TINGWEI	School of Business and Tourism Management	Student

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आचार्य
श्री नरेंद्र मोदी
ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI
उपाचार्य
प्रोफेसर विद्युत चक्रवर्ती
UPACHARYA (VICE-CHANCELLOR)
PROF. BIDYUT CHAKRABARTY

विश्वभारती
VISVA-BHARATI

(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notification No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731235
SANTINIKETAN - 731235
जि.वीरभूम, पश्चिम बंगाल, भारत
DIST. BIRBHUM, WEST BENGAL, INDIA
फोन Tel: +91-3463-262 451/261 531
फैक्स Fax: +91-3463-262 672
ई-मेल E-mail : visva-bharati@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

सं./No._____ दिनांक/Date._____

30)	Ms YANG YONGMEI	School of Marxism Studies	Student
31)	Ms SANG YUAN	School of Architecture and Urban Planning	Student
32)	Ms ZHAO YAN	School of Foreign Languages	Student
33)	Mr. YANG SITANG	Law School	Student
34)	Ms ZHANG RUIXUE	Law School	Student
35)	Ms NI YUTING	School of Journalism	Student
36)	Mr. LI XIUNIAN	School of Journalism	Student
37)	Mr. CAO HAOPU	School of Life Sciences	Student
38)	Ms. MA RU	College of Vocational and Further Education	Student
39)	Ms. PU WEI	School of Chemical Science and Technology	Student
40)	Ms. SU LILI	School of history and archives	Student
41)	Mr. MAO ZIJIAN	School of Public Administration	Student
42)	Ms. PAN PAN	School of Chinese Languages and Literature	Student
43)	Ms. YUAN ZIMEI	Development Institute	Student
44)	Ms. LIU TAO	School of Journalism	Student
45)	Ms. XIONG QI	School of Journalism	Student

Avijit Banerjee

विभागाध्यक्ष / Head
चीन भवन / Cheena-Bhavana
विश्वभारती / Visva-Bharati
शांतिनिकेतन / Santiniketan

Department of Chinese Language & Culture ★ VISVA-BHARATI

BACK TO MAIN PAGE

Dr. A. Banerjee

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VISVA-BHARATI
SANTINIKETAN

Ref.No.Admn./G/V-10.1/ 2 1

Date: 30.04.2019

चीना-भवन / Cheena Bhavana
विश्वभारती / Visva-Bharati
सारांश सं./Docket No. 17
तिथि/Date 03.05.19

Head
Deptt. of Chinese Language & Culture
Bhasha Bhavana
Visva-Bharati

Sub: Permission for participation in the Students Exchange Programme between Visva-Bharati and Yunnan University, China

Ref.: Your letter dated 05.04.2019 addressed to the Upacharya & letter No. CB/17/12B/2/2019-20 dated 13.04.2019 addressed to the Registrar, V.B.

With reference to the above, the undersigned is directed to convey that the Upacharya has been pleased to permit the following students of Cheena-Bhavana & other Bhavanas of the University for their participation in the Students Exchange Programme between Visva-Bharati and Yunnan University, China to be held in China on and from 20th June to 26th June, 2019 in order to promote the educational and cultural exchange between Visva-Bharati, India and Yunnan University, China, subject to submission of undertaking by the parents/guardians of the students concerned:

The students selected from Cheena Bhavana are:

1. BIDISHA SETH (B.A SEM-II)
2. BISHAL RANA (B.A SEM-II)
3. PRACHI GUPTA (B.A SEM-II)
4. KAJARSHI BISWAS (B.A SEM-II)
5. SANCHITA GHOSH (B.A SEM-II)
6. SOUMITA PATHAK (B.A SEM-II)
7. SRIJA ROY (B.A SEM-II)
8. SUMANA SARKAR (B.A SEM-II)
9. UDISHA GHOSH (B.A SEM –II)

The students nominated by the Principals of other Bhavanas are:

10. AHANA BHATTACHARYA (B.A SEM-VI SILPA SADAN)
11. KARTIKA NARAYAN NIMJE (M.SC.SEM-VIII ISERC)
12. SAGNIK SADHU (M.A SEM –II ENGLISH, BHASHA BHAVANA)
13. SANGITA MONDAL (M.PED VINAYA BHAVANA)
14. SHANU DUTTA (M.A.SEM-II PSV)
15. SIDHARTHA S.N. (M.FINE SEM–II, GRAPHIC DEPARTMENT, KALA BHAVANA)
16. SAYANTANI SAHA (M.FINE SEM-II, TEXTILE DEPARTMENT, KALA BHAVANA)

The University shall have no financial involvement to this tour programme.

Necessary measure may please be taken to ensure safety and security of the students during their visit to China.

30.04.2019

Joint Registrar(Administration)
Visva-Bharati

Copy to:
1. Adhyaksha, Bhasha Bhavana, Siksha-Bhavana, P.S.V., Kala-Bhavana
2. Dean of Students' Welfare
3. Proctor
4. Deputy Registrar & C.S to Upacharya
5. P.A to the Registrar

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DE 12B

Ref: CB/17/12B/2/2019-20

Cheena Bhavana
13.04.18

To
The Registrar
Visva-Bharati

Sub: Students Exchange Programme between Visva-Bharati University India, and Yunnan University, China.

Sir,

In order to promote the cultural and educational exchange between India and China, Visva-Bharati is again sending a student's team to Yunnan University as per the MOU of the two Universities ,where the students will pay the two way travel expenses and all the boarding, food and transportation at Yunnan will be taken care by Yunnan University. The **tentative** time of visit of the students **is 20th June to 26th June, 2019) (Tentative)**

The students of Cheena Bhavana were selected according to the marks of last semester examinations and the Principals of other Bhavanas send the names of the students of their Bhavanas.

The students selected from Cheena Bhavana are:

1. BIDISHA SETH (B.A SEM-II)
2. BISHAL RANA(B.A SEM-II)
3. PRACHI GUPTA(B.A SEM-II)
4. RAJARSHI BISWAS(B.A SEM-II)
5. SANCHITA GHOSH(B.A SEM-II)
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12. SAGNIK SADHU (M.A SEM-II ENGLISH, BHASHA BHAVANA)
13. SANGITA MONDAL(M.PED VINAYA BHAVANA)

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14. SHANU DUTTA(M.A. SEM-II PSV)

15. SIDHARTHA S.N.(M.FINE SEM-II, GRAPHIC DEPARTMENT, KALA BHAVANA)

16. SAYANTANI SAHA (M.FINE SEM-II ,TEXTILE DEPARTMENT, KALA BHAVANA)

Sir, **The University does not have any financial implication for this tour**. This is for your kind approval and necessary action.

Arijit Banerjee 13.9.19

Head of the Department of
Chinese Language & Culture
(Cheena Bhavana)
Bhasha Bhavana, Visva-Bharati

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चीना-भवन / Cheena Bhavana
विश्वभारती / Visva-Bharati
सारांश सं./Docket No. 99
तिथि/Date 27.09.2019

No.Aca/FSA/220/2019-20

Date:08.09.2019

The Jt. Registrar (Accounts)
Visva-Bharati, Santiniketan.

Sub: Joining of Prof. Zhangliming, University of Yunnan, China, relating to her research work at Visva-Bharati for a period of three months academic year (September, 2019 to November, 2019.)

As informed by the Head, Dept. of Chinese Language and Culture this is to inform you that Prof. Zhangliming shall work as a visiting scholar at the Department of Chinese Bhasha-Bhavana, Visva-Bharati for a period of three months from 08.09.2019.

Enclo: As stated.

Joint Registrar
(Academic & Research)
Visva-Bharati

Copy to: 1. The Registrar, Visva- Bharati
2. The Principal, Bhasha-Bhavana
3. The Head, Dept. of Chinese
4. The Foreign Students Advisor, Visva-Bharati
5. The Prof. In-charge, Central Library, Visva-Bharati
6. The Visiting Scholar concerned

A. Banerjee 27/9/19
c/y to Zhangliming

Zhangliming
27/09/2019

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आचार्य
श्री नरेंद्र मोदी
ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI
उपाचार्य
प्रोफेसर विद्युत चक्रवर्ती
UPACHARYA (VICE-CHANCELLOR)
PROF. BIDYUT CHAKRABARTY

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ई-मेल E-mail : visva-bharati@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

सं./No._____

दिनांक/Date._____

Prof. Liming Zhang
Department of Anthropology
School of Ethnology and Sociology
Yunnan University
Kunming, Yunnan Province
China

Dear Prof. Zhang,

I am pleased to extend an invitation to you on behalf of Visva-Bharati, located in Santiniketan, West Bengal, India for the purpose of pursuing your research "Ethnography of international Chinese Teaching in India (2017-2020)" at Cheena-Bhavana (Department of Chinese language and culture), Visva-Bharati as a Visiting Research Scholar. The period of invitation would officially begin on August 10, 2019 to November 9, 2019 for a period up to three months.

You will be provided an ID from Visva-Bharati to use relevant items including books and electronic materials in the Library, and you will connect with Associate Professor & Head of the Department of, Avijit Banerjee at Cheena Bhavana, who will serve as your professional sponsor during your stay.

You shall be required to provide evidence that you have financial support for your visit, including cost of living and personal expenses in India.

Sincerely,

Avijit Banerjee 9/4/19.

Dr. Avijit Banerjee
Associate Professor and Head
Department of Chinese Language and Culture
(Cheena Bhavana)
Visva-Bharati University
Santiniketan, Birbhum
West Bengal 731235, India
Mobile: +919434210858

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MAX MUELLER BHAVAN

Agreement

This Agreement is being entered into between:

Goethe-Institut / Max Mueller Bhavan Kolkata through its director, Mr. Friso Maecker (hereinafter referred to as GI/MMB Kolkata)

AND

Visva-Bharati, Santiniketan, through Dr. V. K. Thomas, Librarian, Central Library, Visva-Bharati (hereinafter referred to as VB).

"**The Travelling Library**" is a project of Goethe-Institut / Max Mueller Bhavan Kolkata set within the framework of an initiative to support reading German literature and language books; and using CDs and DVDs in eastern India.

This agreement, effective from May 1st, 2016, till April 30th, 2017 is entered into for the purposes of establishing terms and conditions under which VB and GI/MMB Kolkata will make certain library resources available for use by authorized students, faculty, or staff of the respective institutions.

Borrowing Library Materials from the Goethe-Institut / Max Mueller Bhavan Kolkata

To provide wider access to information sources, VB may offer its students, faculty and staff personal borrowing privileges from *The travelling Library* of the Goethe-Institut / Max Mueller Bhavan Kolkata. This borrowing agreement is initiated by completing a Responsibility Form with an authorized signature.

8, Ballygunge Circular Road
Kolkata 700 019 India
Tel. : +91 33 2486 6398
+91 33 2486 6424
+91 33 2486 6602
Fax : +91 -33 2486 5188
secretariat@kolkata.goethe.org

www.goethe.de/kolkata

AGREED

1. This agreement shall become effective on May 1st, 2016 till April 30th, 2017, and shall continue in effect unless terminated by either party upon thirty (30) days written notice.
2. *The Travelling Library* Box will be sent from GI/MMB Kolkata to VB once in every three (3) months, on receiving the returned box sent previously.
3. VB agrees:

    - To make borrowing privileges available to students, faculty and staff of VB.
    - To provide 2-3 separate shelves in a well visible place with proper labeling.

GOETHE INSTITUT

BACK TO MAIN PAGE

- Ensure open access.
- Loan period for the borrowing individual: three weeks. Maximum two items can be borrowed at a time by a user.
- Circulation statistics to be maintained and sent to GI/MMB Kolkata along with the return-Box.
- Stolen/lost items have to be reported to GI/MMB Kolkata immediately and have to be replaced or compensated.
- DVDs and CDs are only for private viewing/listening/personal lending.
- DVDs are NOT FOR PUBLIC SCREENING.
- All media lent by GI/MMB Kolkata remain property of GI/MMB Kolkata and have to be returned after three months.

4. Either institution may revoke the borrowing privileges of any faculty, staff or student of either institution upon written notice.

Courier of "The Travelling Library" Box

VB and the Library of the Goethe-Institut / Max Mueller Bhavan Kolkata agree that VB will pay for the return courier costs of each of the boxes. The outgoing courier will be paid by GI/MMB Kolkata.

VB and the Library of the Goethe-Institut / Max Mueller Bhavan Kolkata acknowledge that it is the responsibility of VB to ensure that the media lent by the Goethe-Institut / Max Mueller Bhavan Kolkata Library are safely packed for return courier to the Library.

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secretariat@kolkata.goethe.org

www.goethe.de/kolkata

Friso Maecker
Director
Goethe-Institut / Max Mueller Bhavan Kolkata

Dr. V. K. Thomas
Librarian
Central Library,
Visva-Bharati,
Santiniketan 731235
West Bengal, India

Kolkata, April 29, 2016

GOETHE INSTITUT

BACK TO MAIN PAGE

GOETHE-INSTITUT / MAX MUELLER BHAVAN

Agreement

This Agreement is being entered into between:

Goethe-Institut / Max Mueller Bhavan Kolkata through its director, Mr. Friso Maecker (hereinafter referred to as GI/MMB Kolkata)

AND

CMELLCS, Visva-Bharati, Santiniketan, through Prof. Nilanjan Chakrabarti, Coordinator, CMELLCS, Bhasha-Bhavan, Visva-Bharati, Santiniketan (hereinafter referred to as CMELLCS).

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3. CMELLCS agrees:
    - To make borrowing privileges available to students, faculty and staff of CMELLCS.

GOETHE INSTITUT

N Chakrabarti

BACK TO MAIN PAGE

- To provide 2-3 separate shelves in a well visible place with proper labeling.
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Friso Maecker
Director
Goethe-Institut / Max Mueller Bhavan Kolkata

N Chakrabarti

Nilanjan Chakrabarti
Coordinator
CMELLCS, Bhasha Bhavan, Visva-Bharati,
Santiniketan 731235
West Bengal, India

Kolkata, May 17, 2017

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BACK TO MAIN PAGE

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Goethe-Institut /
Max Mueller Bhavan Kolkata
Park Mansions, Gate 4
57A, Park Street
Kolkata 700 016, India

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    - To make borrowing privileges available to students, faculty and staff of CMELLCS.

N Chakrabarti 22/6/18

BACK TO MAIN PAGE

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Friso Maecker
Director
Goethe-Institut / Max Mueller Bhavan Kolkata

N Chakrabarti 22/6/18

Nilanjan Chakrabarti
Coordinator
CMELLCS, Bhasha Bhavan, Visva-Bharati,
Santiniketan 731235
West Bengal, India

Kolkata, June 14, 2018

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- Loan period for the borrowing individual: three weeks. Maximum two items can be borrowed at a time by a user.
- Circulation statistics to be maintained and sent to GI/MMB Kolkata along with the return-Box.
- Stolen/lost items have to be reported to GI/MMB Kolkata immediately and have to be replaced or compensated.
- DVDs and CDs are only for private viewing/listening/personal lending.
- DVDs are NOT FOR PUBLIC SCREENING.
- All media lent by GI/MMB Kolkata remain property of GI/MMB Kolkata and have to be returned after three months.

4. Either institution may revoke the borrowing privileges of any faculty, staff or student of either institution upon written notice.

Courier of "The Travelling Library" Box

CMELLCS and the Library of the Goethe-Institut / Max Mueller Bhavan Kolkata agree that CMELLCS will pay for the return courier costs of each of the boxes. The outgoing courier will be paid by GI/MMB Kolkata.

The Box can also be sent through messengers, who can at the same time deliver and pick up boxes. For this the costs will be borne alternatively by the respective despatchers.

CMELLCS and the Library of the Goethe-Institut / Max Mueller Bhavan Kolkata acknowledge that it is the responsibility of CMELLCS to ensure that the media lent by the Goethe-Institut / Max Mueller Bhavan Kolkata Library are safely packed for return courier to the Library.

Friso Maecker
Director
Goethe-Institut / Max Mueller Bhavan Kolkata

Nilanjan Chakrabarti
Coordinator
CMELLCS, Bhasha Bhavan, Visva-Bharati,
Santiniketan 731235
West Bengal, India

Kolkata, August 12, 2019

Goethe-Institut / Max Mueller Bhavan Kolkata
Park Mansions, Gate 4
57A, Park Street
Kolkata 700 016, India

T +91 33 2264 6602
T +91 33 2264 6398
T +91 33 2264 6424

info@kolkata.goethe.org
www.goethe.de/kolkata

www.goethe.de

GOETHE INSTITUT

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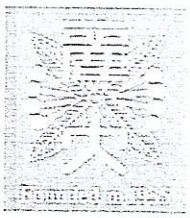

麗澤大学
Reitaku University
[illegible]
2-1-1, Hikarigaoka, Kashiwa-shi,
Chiba-ken, 277-8686 Japan
Phone:04-7173-3600 Fax:04-7173-[illegible]

To whom it may concern

November 12, 2017

I assure that Mr. Charbak Mukherjee is taking the following subjects at Reitaku University:

Core subjects (Japanese):

1. Advanced Japanese - I (2 credits) [Japanese Listening Comprehension & Oral Expression.]
2. Advanced Japanese - I (3 credits) [Japanese Grammar, Reading & Composition]

Allied subjects:

1.	Comparative Philosophy	(2 credits)
2.	Comparative Philosophy	(one extra paper)
3.	Study of Coexistence of Many Cultures	(2 credits)
4.	Study of Coexistence of Many Cultures	(one extra paper)
5.	Environmental Science	(2 credits)
6.	Top-Level English	(1 credit)

Note: Credit number is written according to the registration system of Reitaku University.

Professor Keiji Takeuchi, who is teaching Comparative Philosophy, will assign an extra paper to Mr. Mukherjee which I believe is equivalent to 2 credits. Associate Professor Taichi Uchio, who is teaching Study of Coexistence of Many Cultures, will assign an extra paper to Mr. Mukherjee which I believe is equivalent to 2 credits. They will write the letter on their evaluation of the extra papers.

In the registration system of Reitaku University, a student can take about 12 to 14 credits in one semester. Therefore, the credit awarded to the student by Reitaku University may be multiplied by two (2) by Visva-Bharati to match the credit pattern of Visva-Bharati.

His official transcript of Reitaku University will be issued and sent to him on February 2018.

Takao Inukai

Director
International Exchange Center,
Reitaku University,
2-1-1, Hikarigaoka, Kashiwa-shi,

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特別聴講生入学許可証

CERTIFICATE OF ADMISSION TO GRADUATE SCHOOL AS EXCHANGE STUDENT, REITAKU UNIVERSITY

氏　名　シンハ　スディップ

NAME　SINGHA SUDIP

麗澤大学は、上記の者が、2019年4月に本学言語教育研究科博士後期課程の特別聴講生として入学することを許可します。

This is to certify that the above-named has been given permission to enter Reitaku University, Graduate School of Language Education, Doctoral Program as an exchange student for April 2019 spring enrollment.

［注］本証の有効期限は２０１９年４月２日までとします。

N.B.: This certificate will be valid through April 2, 2019.

2018年12月13日

麗　澤　大　学
学長　中山　理
REITAKU UNIVERSITY
President NAKAYAMA OSAMU
千葉県柏市光ヶ丘２丁目１番１号
2-1-1, Hikarigaoka, Kashiwa-shi
Chiba-ken, 277-8686 Japan
TEL: 04-7173-3633
FAX: 04-7173-3767

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Aoyama Gakuin University

Prof. Yasuhiko KOMATSU
Ph.D. HoD
Department of Japanese Language and Literature
College of Literature
Aoyama Gakuin University
4-4-25 Shibuya, Shibuya-ku
Tokyo 150-8366, Japan
Tel: +81 3 3409 7695

Dear Dr. Gita A. Keeni:

Invitation to Speak and Join Exchange Events at Aoyama Gakuin University

This is to officially announce that you are invited to deliver a lecture and join the exchange events between Department of Japanese Language and Literature, Aoyama Gakuin University and Department of Japanese, Visva-Bharati from the 25th to the 30th October, 2018 along with five students of your Department.

The invitation is extended to you and your students mentioned herebelow:

1) Mrs. Piyali ROY
2) Mr. Subhajit CHATTERJEE
3) Ms. Debangana BHATTACHARYA
4) Mr. Sekh Jewel HAQUE
5) Mr. Mathura DAS

The programme has been designed as follows:

October 26th (Friday)
1) Lecture by Dr. Gita A. Keeni/15:05-16:35 (including discussion), Meeting Room no. 18
   Theme: Rethinking modernization in Indian and Japanese context

October 27th (Saturday)
1) Symposium by Japanese and Indian graduate students/ 11:00-12:30 Room No. 17503
2) To attend to the autumn conference of Nihon Bungakukai/13:20-14:50 Room No. 17310
3) Exchange event between Japanese undergraduate students and Indian graduate/undergraduate students/15:05-16:35 Room No. 17308

October 28th (Sunday) Research trip on modernization in Tokyo/10:00-17:00
October 29th (Monday) Meeting about future cultural exchanges between AGU and VB.

I am hoping that this exchange event will develop our mutual understanding under the academic agreement.

Yours sincerely,

Yasuhiko Komatsu

Yasuhiko KOMATSU, Ph.D.
Professor, HoD, Aoyama Gakuin University

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3.7.1 Collaboration

CONTENT LIST

KALA BHAVANA (Institute of Fine Arts)
Moitree: The Bondage
Student's Exchange programe
Student's Exchange programe
Student's Exchange programe
Student's Exchange programe
The Bridge
A Postcard Show, Homage To K. G. Subhramaniyan, Curated By Kirti Chandak At Tasmai Gallery, Pondicherry.
Reading from Genedered Land-II- Reading and Body Performance by Sanchayan Ghosh
Students exchange program at EPCC Ecole Superieure des Beaux
Student's Exchange programe
"In- Field Studio"- International Joint Workshop
India Korea Joint International Exchange / workshop Exhibition, at
Student's Exchange programe
Student's Exchange programe
In quest of an artistic bondage
Radio project Documenta14, reserach based sound art project
Under the Mango Tree: Other Sites of Learning
Conducted workshop on SITESPECIFIC ART ACTIVITY with students of S.N. SCHOOL, UNIVERSITY OF HYDERABAD, 2017
“National Artists’ Workshop”-with a group of 16 young contemporary artists,
“Project Tihar”- a collaborative workshop of Painting, Drawing, Print, Sculpture, Video and Installation with the inmates of Tihar Jail,
National Artist in Residency in New media Art
India Korea Joint International Exchange /workshop Exhibition, at
Making Tools for Clothing
Student's Exchange programe
Bauhaus 100 years Project
The Bridge-2
An Art and education exchange programme
Student's Exchange programe
Conducted workshop in Imphal Art College, Manipur
Student's Exchange programe
Student's Exchange programe
Theater workshop on Design cum Technical in collaboration with Rangakarmee

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Remembering Prof Dinkar Koushik Exhibition organised by Birla Academy ofbArt and Culture
Conducted workshop as a mentor in ON SITE: A workshop exploring process, diaogue and experimentation
100 years of Jallianwalla Bagh Massacare and Rabibdranth Tagores Responses
Game of Chances, research based public projectin Sunaparanta Arts Foundation, Goa Invited artist
Under The Mango Tree: A Self organised Gathering of Unlearning, Kala Bhavana, Visva Bharati Santniketan
Workshop for academic development
Workshop for academic development
Workshop for academic development
Construction of technical workshop, laboratory.
workshop on Design with 2nd year students of National School of Drama

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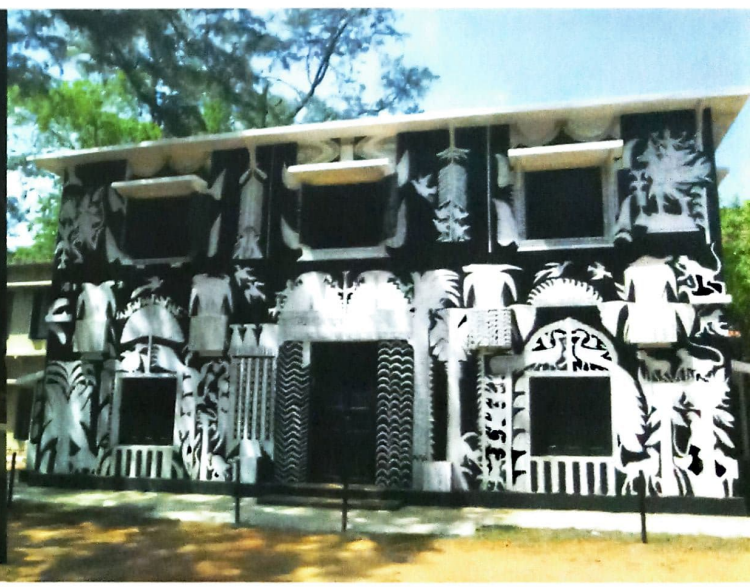
মৈত্রী : একটি বন্ধনের গল্প

Moitree : The Bondage

An Exposition of Prints

Dept. of Printmaking, Faculty of Fine Art, Dhaka University - Dept. of Graphic Art, Kala Bhavana, Visva Bharati

Art and Education Exchange program-2015



26 – 28 August 2015

National Art Gallery

Bangladesh Shilpakala Academy

Segunbagicha, Dhaka

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PVA-10, Poly Vinyle Alcohol Print, 2014

PRASHANT PHIRANGI

Born in 1983

Asst. Professor, Department of Graphic Art

Kala- Bhavana, Visva-Bharati, Santiniketan, India

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esba TALM
École supérieure
des beaux-arts
Tours Angers Le Mans

CERTIFICATE OF ACCEPTANCE
Incoming student – Study period

We hereby certify that the student:

SINGHA ROY	**Arijit**	born on 22/09/1990, Uluberia, West Bengal, INDIA	Nationality: Indian

Student at (sending institution):
Visva Bharati University
Kala Bhavana (Institute of Fine Arts)
731235 Santiniketan
West Bengal
INDIA

Is accepted as an exchange student for a study period at:

Ecole supérieure des beaux-arts Tours Angers Le Mans (ESBA TALM)
In Angers campus: 72 rue Bressigny, 49100 Angers, FRANCE

For the second semester of the academic year 2015/2016
From January 18th to June 10th 2016

In the Art option, as a fourth-year student (level Master)

Angers,
Date: ..24./01./..2015

Lucie DELEFOSSE
International coordinator at ESBA TALM

Signature and stamp:

école supérieure des beaux-arts
Tours Angers Le Mans
E.P.C.C.
75, rue Bressigny 49100 Angers
Tél. 02 41 24 13 50 - Fax 02 41 87 26 49

Ecole Supérieure des beaux-arts Tours Angers Le Mans
International coordinator : Lucie DELEFOSSE
Angers campus : 72 rue Bressigny – 49100 Angers – France
Tél. +33 (0)2 41 24 14 37 / Fax +33 (0)2 41 87 26 49
lucie.delefosse@ville-angers.fr

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Hogeschool der Kunsten, Den Haag

Kabk Koninklijke Academie van Beeldende Kunsten
Royal Academy of Art

Dear Ali Mondal,

Congratulations! This is to let you know that you have been accepted for the 2nd semester 2015-2016 by the Royal Academy of Art in The Hague.

Study programme: Fine Arts
Section: Painting
Year: 3
Coordinator: Martijn Verhoeven (m.verhoeven@kabk.nl)
Study period: 25th of January – 17th of June

Content of study programme
Please contact the Coordinator for all information on the content of the programme.

Registration and Introduction day: 22nd of January

Practical information
1.Housing: all students will have to arrange their own housing. Please check the website for more information.
2.Institutional registration: Please provide us (exchange@kabk.nl) with your Dutch home address.
3.Tuition fee: as an exchange student you do not need to pay tuition fee.
4.Material costs: all material costs are from the students own account.
For all other practical information the student can refer to "How to Survive The Hague"
5. Entrance visa: Mrs. Silvia van der Kist s.vanderkist@kabk.nl will contact you.

Yours Sincerely,

Aparajita Dutta
Head International Affairs

- **KABK**

Date
05-11-2015

Subject
Letter of Acceptance

Our Reference
International Office

Your Reference
-

Page
1/

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Faculty of Fine and Applied Arts, Burapha University

Certificate of Achievement

This is to certify that

MS.AMRITA PRAMANIK

Has successfully completed

The Student Exchange Program between 9th February – 20th March 2016

Presented on 20th March 2016

(Associate Professor Thepsakdi Thongnopkoon)
Dean, Faculty of Fine and Applied Arts, Burapha University

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Faculty of Fine and Applied Arts, Burapha University

Certificate of Achievement

This is to certify that

MR.VISHNU P.VIKRAMAN

Has successfully completed

The Student Exchange Program between 9th February – 20th March 2016

Presented on 20th March 2016

(Associate Professor Thepsakdi Thongnopkoon)
Dean, Faculty of Fine and Applied Arts, Burapha University

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সেতু The Bridge

An Exposition of Prints

চট্টগ্রাম বিশ্ববিদ্যালয়

Printmaking Group, Institute of Fine Arts, University of Chittagong - Dept. of Graphic Art, Kala Bhavana, Visva Bharati

বিশ্বভারতী বিশ্ববিদ্যালয়

Art and Education Exchange Program - 2016

23 - 29 February 2016

Nandan Art Gallery

Kala Bhavana, Visva Bharati

Santiniketan, India.

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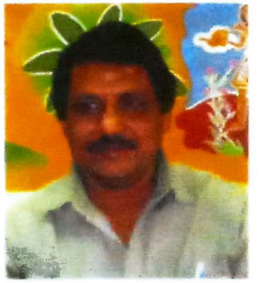
The Walrus-2 Gum Bicromate

Untitled Etching

PRASHANT PHIRANGI
Assistant Professor
Dept. Of Graphic Art
Kala-Bhavana, Visva-Bharati
Santiniketan, India

UTTAM KUMAR BASAK
Assistant Professor
Dept. Of Graphic Art
Kala-Bhavana, Visva-Bharati
Santiniketan, India



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University of Chittagong, Institute of Fine Arts, 721 Badshamia Road, Chittagong, Bangladesh. www.cu.ac.bd

PARTICIPATING ARTISTS

BANGLADESH

Mohd. Jashim Uddin
Sujit Sarker
Ruhul Karim Rumee
Nittananda Gain
Jenia Afrroze
Moon Moon Das
Maruf Adnan
Hosneara
Sumu Sen
Fatema Aowlad
Sumanta Mohonta
Asma Nasrin
Sumon Sutradhar
Rubel
Apu Chakrabarty
Fahad Uddin
Sumit Chakrabarty
Soma Majumdar
Nisat Kamal
Mohammed Ali
Madhabi Nath
Thoihlaching Marma
Monika Nandy
Purna Paul
Sohel Rana
Nilufar Yasmin
Sabiha Mhabub

INDIA

Dr. Nirmalendu Das
Ajit Seal
Salil Sahani
Arpan Mukherjee
Prashant Phirangi
Uttam Kumar Basak
Dr. Aditi Gaveev Sangwan
M. Thomas Singh

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Printmaking Group
Institute of Fine Arts
University of Chittagong
Chittagong, Bangladesh

Jointly
Organised by

Department of Graphic Art
Kala Bhavana, Visva Bharati
Bolpur, Santiniketan
West Bengal, India.

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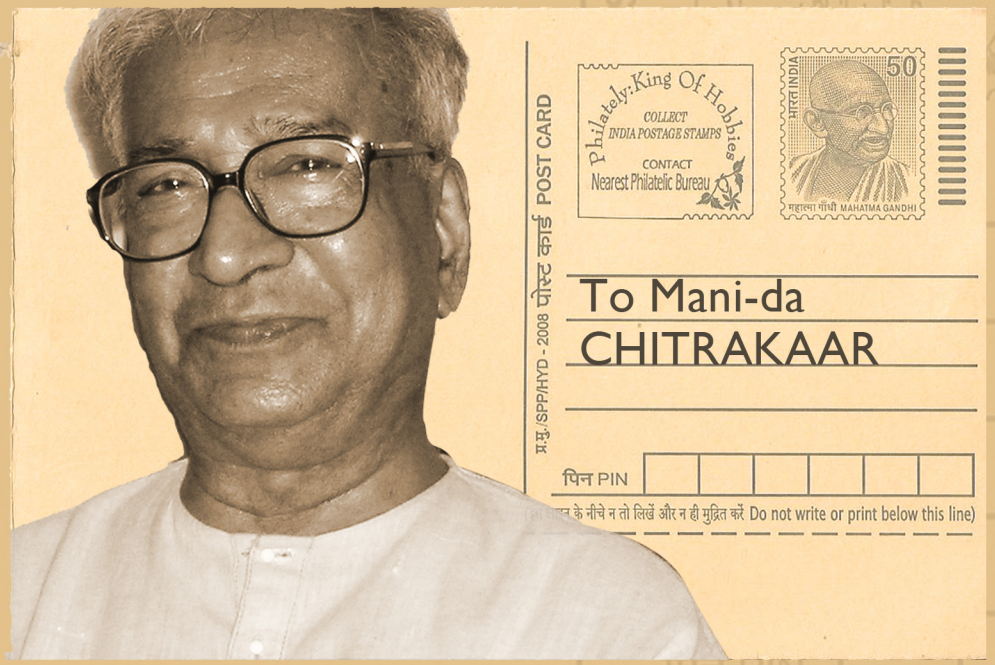
Print : Chittagong University Press

Akmal Husain | Ambarish Nandan | Amit Kumar Danda | Amritah Sen| Anindita Saha | Anjan Chakrabarty | Archana Hande | Arunima Chowdhry | Balakrishnan | Debraj Goswami | Dharitri Bodo | Dilip Mitra | D.P.Mohanty | Giridhar Khasnis | Gulammohammed Sheikh | Indrapramit Roy | Jitendra Baoni



Keiko Mima | Kirti Chandak | Krittika | Laxma Goud | Mahula Ghosh | Malavika Andrews | Malay Saha | Madanlal | Manisha Doshi | Mithu Sen | Nandadulal Mukherjee | Nilima Sheikh | Pampa Panwar | Pranam Singh | Rajarshi Biswas | ` Saju Mannathur | Sanjeev Sonpimpre | Santosh- kumar Singh | Shrabani Roy | Sitanshu Mukherjee | Sk. Sahajahan | Soumik Nandy | Srinivasan.K | Subhalakshmi Shukla | Sumitro Basak | Suresh Nair | Susobhan Adhikary | Sweety Joshi | Tanup Nath | Tarun Mukherjee | Vijay Singh | Vijay Bagodi - ***A POSTCARD HOMAGE*** @

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চারুকলা অনুষদ ॥ ঢাকা বিশ্ববিদ্যালয়, ঢাকা-১০০০, বাংলাদেশ।
Faculty of Fine Art, University of Dhaka, Dhaka-1000, Bangladesh.
Phone : 9675219, PABX No. 9661920-73. Extn. 8570, 8571, 8581
E-mail : deanfineart@du.ac.bd, fineart.du@gmail.com

No...চারুকলা ২০৮..... Date...১০.১১.২০১৬.....

প্রতি
সঞ্চয়ন ঘোষ
এ্যাসোসিয়েট প্রফেসর
চিত্রকলা বিভাগ
কলাভবন, বিশ্বভারতী

মহোদয়,

গত, ৮/১১/২০১৬ তারিখে লেখা ও ইমেল-এ প্রেরিত পত্রের প্রেক্ষিতে জানাচ্ছি যে, আপনার প্রস্তাবিত কর্মশালাটি আয়োজনের জন্য আমরা অত্যন্ত আগ্রহী। আমরা আনন্দিত যে কর্মশালা শেষে এই পারফরমেন্সটি এশীয় চারুকলা প্রদর্শনীতে অংশগ্রহণ করবে। আমরা উক্ত কর্মশালা আয়োজনের জন্য উপযুক্ত স্থান, প্রয়োজনীয় সংখ্যক ছাত্র/ছাত্রীসহ কিছু লোক-বল, থাকা-খাওয়া ও আপ্যায়ন-এর দায়িত্ব গ্রহণ করতে সম্মত আছি।

অতএব আগামী ২৬ নভেম্বর থেকে ৩০ নভেম্বর ২০১৬ পর্যন্ত উক্ত কর্মশালাটি আয়োজন করতে ঢাকায় আসার জন্য আমন্ত্রণ জানাচ্ছি।

ধন্যবাদসহ

১০.১১.১৬
অধ্যাপক নিসার হোসেন
ডিন
চারুকলা অনুষদ
ঢাকা বিশ্ববিদ্যালয়।

....READING FROM THE GENDERED LAND

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An Architectural Installation and a Durational Reading Performance
(1st December to 31st December, 2016),

Concieved , Coordinated and conducted by Sanchayan Ghosh

A Brief Concept Note:

Cultural theorist and art historian Amit Mukhopadhaya in his essay “LAND, Natural ,Gendered”, placed the notion of Land from a Plato’s Cave to Hitler’s Bunker as a basic structural framework of patriarchy , and war and occupation and incorporates the idea of motherhood as a natural organic space in between that projects compassion and hosting . This present architectural Installation maps this context of gendered relationship of representation of Land by reading texts through history where woman has been placed as the protagonist. The Installation stretches the Plutonic mapping of Nature in the form of a Polyhedron into an organic space of interaction that opens up into three circular spaces of collective reading.

Reading and conversing has been traditionally one of the earliest form of dissemination of knowledge in public sphere. A group of nine women will read different texts from Epic, plays, classical and contemporary feminist theories, text on environmental issues and diaries for a period of thirty days and will constantly rework and out stretch the space with their bodies addressing areas like power, gender discrepancy, environment issues, ecology etc. Public Reading will be explored as an intermittent space between autocracy and democracy.

Shamiana as an Intermittent Space between Private and Public

In this context a shamiyana will be placed as an interface which will intend to exemplify these two specific zones of operations as a physical space of viewing and the physicality of experiencing/participating.

Shamiyana is basically a temporary space for meeting and socializing, mostly popular in tropical landscape. It’s open in four sides and can be placed in outdoors as an independent structure. It is also used as temporary shade in indoor courtyards of Houses. It generates a horizontal projection of space with no frontality like a staged auditorium.

In the present project the physical space of Shamiana has been contextualized as a space in between earth and air, a reflection of a land. It is projected as a space between higher and lower , a space between superior and inferior, a space between autocracy and democracy. A space that is dialogical, stretchable and transforming. This is made out of Lycra (a textile generated as a Post World II chemical byproduct and popularized in USA and world over as a skin tight, perfect body shaping textile). The Lycra made shamiana in this context is stretched to the ground as three circular spaces that will host three reading spaces and space for temporary sitting and meeting.

Performers will be both from India and Bangladesh who will work collectively in a workshop situation and contribute to the texts from their own cultural background and world literature to exemplify the position of women and our present state of land and environment

Present body of text that will be read are

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Name of book s

"Medea" and "Sita theke suru"
by Euripides by Nabanita Deb Sen
"Staying Alive" and "The Caucasian Chalk Circle"
By Vandana shiva) by Bertolt Brecht
"Cyborg Manifesto" and "Nathabathi Anathbodh"
By Donna Haraway By Shaoli Mitra
"War zone is my bed and Brecht on Theater
Yasmeen Beverly Rana
"Second Sex" and "Sitayan "
By Simone de Beauvoir by Mallika
"Penelopiad' and "Breast Stories
By Margaret Atwood by Mahasweta Devi
"Sobbhotar sonkot " and "Anne Frank's Dairy"
Sobdo pore tupur tapur by Naba Nita Debsen

Some more books from the Bangladesh literature will be selected as part of the workshop with the Bangladesh participants and will be included in the reading.

Text can be read by a two groups of women one from India/West Bengal and the other from Bangladesh(to be selected by the Biennale foundation, preferably from Charukala, Bangladesh)

Workhop in Charukala

In this respect I will conduct a workshop with students of Charukala(12-15 students, mostly girls) together with six other students from Kala Bhavana. The workshop will be based on interactive collective games to explore body , space and object relationship exploring

- **Female body and gestures as represented and iconized in visual art**
- **Sound as social scape and gender relationship**
- **Space and Body relationship**
- **Body as a dialogical space of memory**
- **Reading as conversation(memories of war, violence and gender)**
- **The workshop will happen from 27th -30th November everyday (10am-12pm and 1pm –to 3pm)**

Installation in Shipakala from 28th-29th November, 2016 (5pm to 8pm)

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esba TALM
École supérieure des beaux-arts Tours Angers Le Mans

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR: 2016/2017 - the second semester

FIELD OF STUDY: Art – third-year student (level bachelor)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana – Santiniketan - India

NAME OF **STUDENT**: **ASHOK KUMAR**

NAME OF **RECEIVING INSTITUTION**: Esba TALM (Ecole supérieure des beaux-arts Tours Angers Le Mans), Le Mans campus.
International coordinator: Pauline Lebrun

Title of the course unit	Duration of course unit	ECTS credits	Points/marks in numerical
Céramique/Ceramics - Clémence Van Lunen	1 semester	**3 out of 4**	**21 out of 24**
Volume/Sculpture – Kate Blacker	1 semester	**2 out of 4**	**14 out of 28**
Dessin-croquis / Drawing-sketch – Guy Brunet	1 semester	**2 out of 4**	**14 out of 28**
Atelier d'écriture / Writing studio – Claude Lothier	1 semester	**2 out of 2**	**14 out of 14**
Perspective / Perspective - Claude Lothier	1 semester	**2 out of 2**	**14 out of 14**
ARC Facing the sky - Clémence Van Lunen	1 semester	**3 out of 3**	**21 out of 21**
ARC Maison d'artiste / ARC Artist's house – Kate Blacker	1 semester	**3 out of 3**	**21 out of 21**
Personal research	1 semester	**7 out of 8**	**49 out of 56**
Bilan/exam General assessment : De multiples expériences dans les diverses techniques et ateliers proposés par l'école. Certaines qualités de finition, et une jubilation manifeste. Aussi, soyez attentif aux processus et aux évènements plastiques afin d'éviter l'aspect démonstratif et illustratif, qui parfois referme prématurément le développement plastique et votre capacité à appréhender le sens de vos gestes. Multiple experiences in the various techniques and workshops proposed by the school. Some finishing qualities, and a clear jubilation. Also, be attentive to the processes and the plastic events in order to avoid the demonstrative and illustrative aspect, which sometimes prematurely closes the plastic development and your capacity to apprehend the direction of your gestures. **General grade: C**		**Total : 24/30 ECTS credits**	**Total: 168/210 points**

Date: 23-06-2017

Signature of registrar/dean/administration officer

Stamp of institution

esba TALM
École supérieure des beaux-arts Tours Angers Le Mans

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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esba TALM
École supérieure des beaux-arts Tours Angers Le Mans

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR: 2015/2016 2nd semester

FIELD OF STUDY: Art - fourth year student (level master 1)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana

NAME OF **STUDENT**: **Aman Preet KAUR**

NAME OF **RECEIVING INSTITUTION**: Esba TALM (Ecole supérieure des beaux-arts Tours Angers Le Mans), Angers campus.
International coordinator: Lucie Delefosse

Title of the course unit	Duration of course unit	ECTS credits	Points/marks in numerical
Art project, personal research, production	1 semester	**2 out of 2**	**14 out of 14**
Not knowing as shared – ACW & V THEODOROPOULOU	1 semester	**4 out of 4**	**28 out of 28**
Under Paint – P. HURTEAU, R. KOLLE	1 semester	**4 out of 4**	**28 out of 28**
Volume – E POULLE	1 semester	**4 out of 4**	**28 out of 28**
Photodoc – S JOUSSEAUME	1 semester	**4 out of 4**	**28 out of 28**
Use value – G. LOWE, J. RIVA (ACW)	1 semester	**4 out of 4**	**28 out of 28**
If / Else – A BERNUS, A COUZON CESCA, G GUIHAIRE	1 semester	**4 out of 4**	**28 out of 28**
Bilan/exam	1 semester	**4 out of 4**	**28 out of 28**
General assessment by the international coordinating teachers (ACW) : An excellent semester of work, interface and engagement. Aman Preet consistently dedicated her time, efforts and intelligence to maximising her stay in the school. She has the ability to collaborate with other students, not so easy at times, and she showed the ability to the think about the fluidity between culture, theory and everyday life situations between both her country of origin (India) and the specificities of France and Angers. Her collaboration for the ARC Course with Sangita, the mud mural is exemplary in that it represents enormous background and materials research, exhaustive preparatory designs and drawings, collaboration with other students, project management and execution of the work itself. The mud wall is also exceptional in the complex ways it combines traditional Indian formats with contemporary ideas about 'alterity of speech'. **General grade: A**		**Total : 30/30 ECTS credits**	**Total: 210/210 points**

Date : 20/06/2016
Signature of registrar/dean/administration officer

Stamp of institution

école supérieure des beaux-arts
Tours Angers Le Mans
E.P.C.C.
75, rue Bressigny 49100 Angers
Tél. 02 41 24 13 50 - Fax 02 41 87 26 49

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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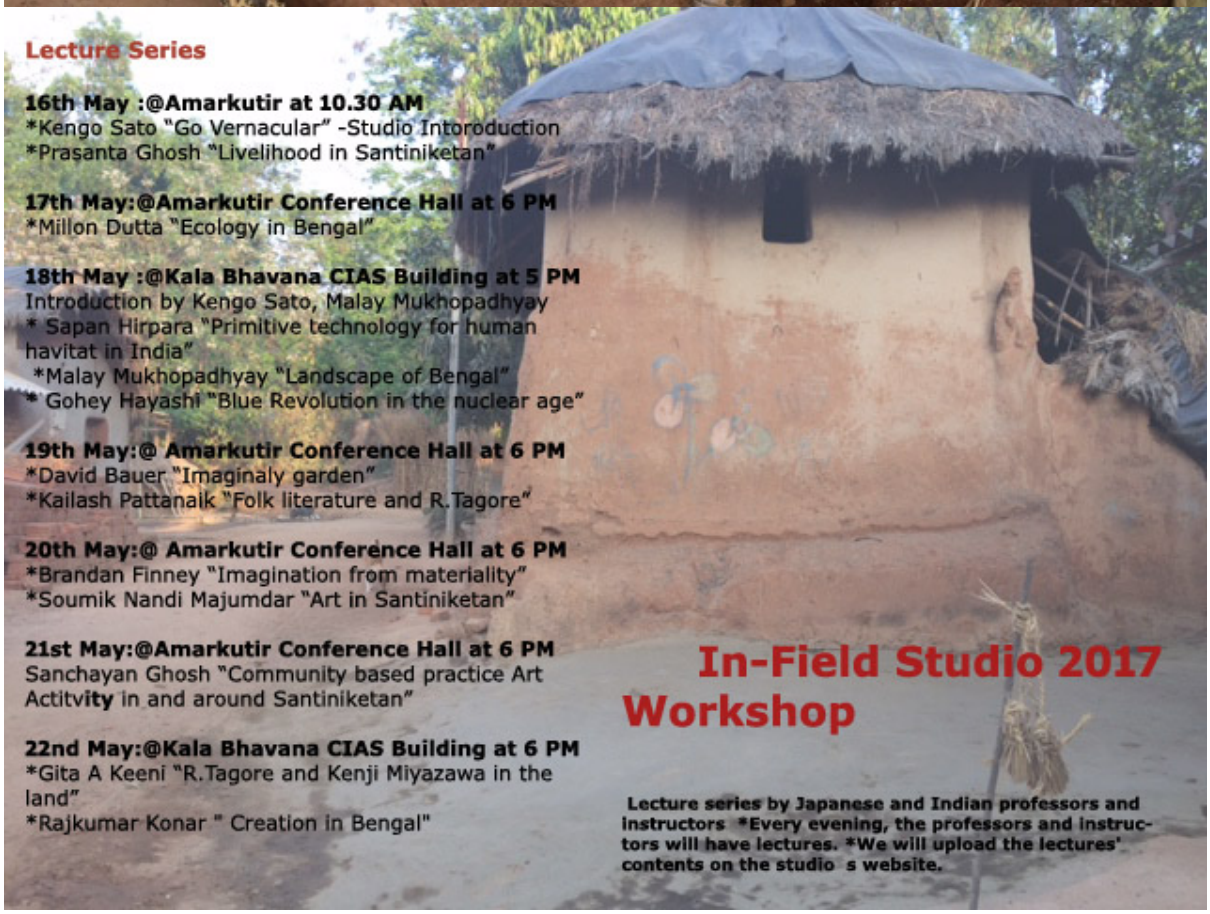

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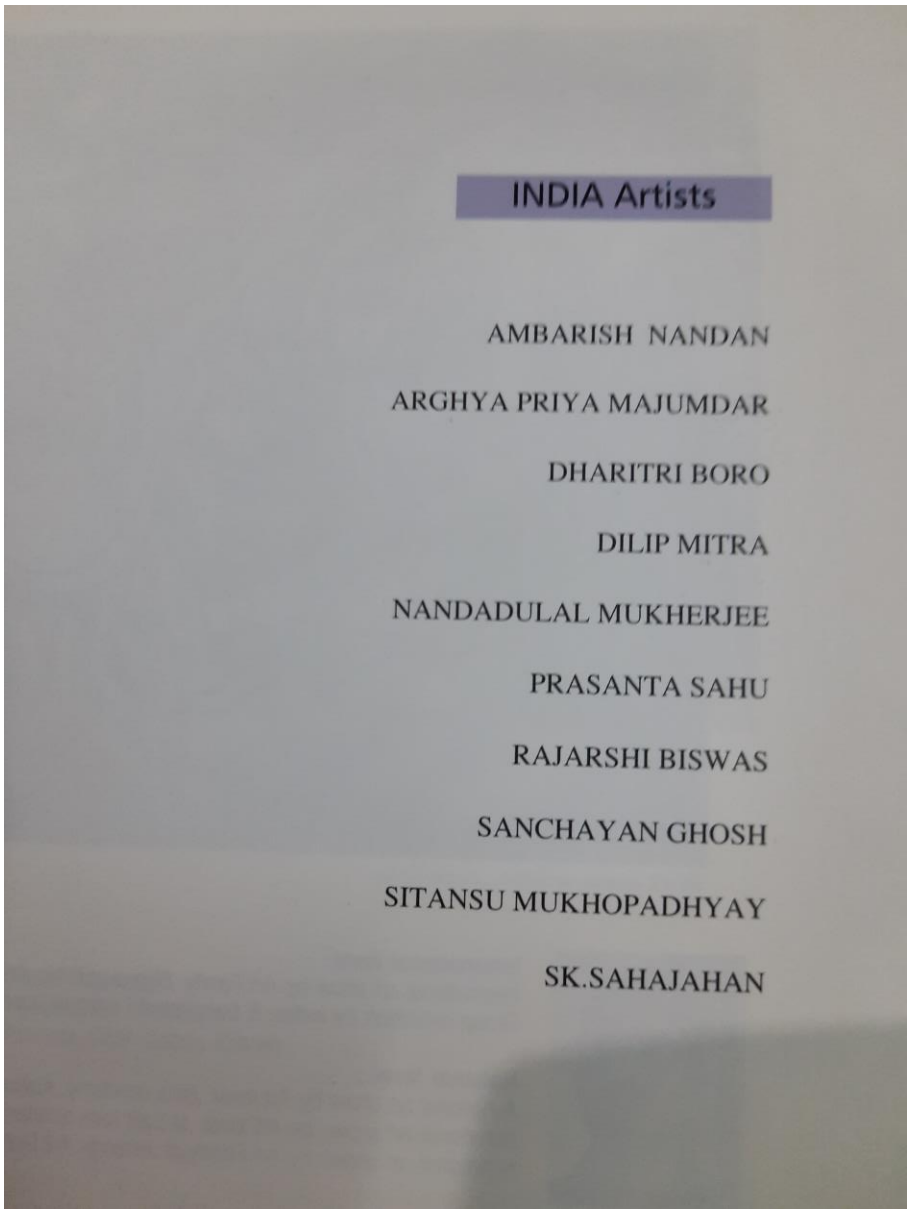

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DAEGU-INDIA
International art Exchange Exhibition
2015 대구-인도 국제미술교류전

3-8 November, 2015
Daegu Culture and Arts Center
11 Exhibition Hall

주최 | 대구미술협회

후원 | 대구광역시 (사)한국예총대구광역시연합회

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esba TALM

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR: 2016/2017 - the first semester

FIELD OF STUDY: Art - fourth year student (level master 1)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana
NAME OF **STUDENT**: **SUKANYA**
NAME OF **RECEIVING INSTITUTION**: Esba TALM (Ecole supérieure des beaux-arts Tours Angers Le Mans), Angers campus. International coordinator: Pauline Lebrun

Title of the course unit	Duration of course unit	ECTS credits	Points/marks in numerical
Workshop Write to reply – Kate Blacker	1 semester	**1 out of 3**	**7 out of 21**
ARC Facing the sky – Clémence Van Lunen	1 semester	**2 out of 4**	**14 out of 28**
Atelier Volume – Kate Blacker	1 semester	**3 out of 4**	**21 out of 28**
Atelier Céramique – Clémence Van Lunen	1 semester	**3 out of 4**	**21 out of 28**
Anglais – Kate Blacker	1 semester	**2 out of 2**	**14 out of 14**
Personal researches and experiments	1 semester	**5 out of 5**	**35 out of 35**
Bilan/exam General assessment by the international coordinating teachers (ACW) : Sukanya benefited a great deal from the technical development of her sculptures in metal and the welding instruction she received from our technician. Her production was regular and of a good quality, however the subject of the sculptures was not always clear in the form. It was a pity that she did not seek more discussion with the teachers, especially in relation to her views on the status of women and European and American feminist art. The opportunity for exchange could have been better exploited. Sukanya realised that her exchange had remained limited and aims to research further the questions raised during her final assessment. She worked hard on her sculptures and during our few discussions proved to be a curious and intelligent student.	1 semester	**6 out of 8**	**42 out of 56**
General grade: C		**Total : 22/30 ECTS credits**	**Total: 154/210 points**

Date: 07/02/2017

Signature of registrar/dean/administration officer

Stamp of institution

esba TALM
École supérieure
des beaux-arts
Tours Angers Le Mans

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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esba TALM
École supérieure des beaux-arts Tours Angers Le Mans

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR: 2016/2017 - the first semester

FIELD OF STUDY: Art - fourth year student (level master 1)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana
NAME OF **STUDENT: HADWDSA GAYARI**
NAME OF **RECEIVING INSTITUTION**: Esba TALM (Ecole supérieure des beaux-arts Tours Angers Le Mans), Angers campus. International coordinator: Lucie Delefosse

Title of the course unit	Duration of course unit	ECTS credits	Points/marks in numerical
99 Stellevista – P. Beson et C. Le Gac	1 semester	**2 out of 4**	**14 out of 28**
Accompagnement à la réalisation – E. Poulle	1 semester	**1.5 out of 3**	**10.5 out of 21**
Echos – A.Bernus, A.Couzon, G.Guihaire et R.Kolle	1 semester	**2 out of 4**	**14 out of 28**
Underpaint – R.Kolle et P.Hurteau	1 semester	**1 out of 3**	**7 out of 21**
Anglais – A constructed World	1 semester	**2.5 out of 3**	**17.5 out of 21**
French lessons at Institut Municipal	1 semester	**2 out of 2**	**14 out of 14**
Personal researches and experiments	1 semester	**4 out of 4**	**28 Out of 28**
Bilan/exam	1 semester	**4.5 out of 7**	**31.5 out of 49**
General assessment by the international coordinating teachers (ACW) : *Nadwdsa presented preliminary works made specifically for three courses he was taking; painting, sculpture and an ARC course. Perhaps better described as preliminary works that moved a way from his usual 3-D sculptural form, these works enabled Nadwdsa to try things he had not before, using the time at the school in Angers as an experimental lab.*			
General grade: B		**Total : 19.5/30 ECTS credits**	**Total: 136.5/210 points**

Date: 02/02/17

Signature of registrar/dean/administration officer

Stamp of institution
École Supérieure des beaux-arts
Tours Angers Le Mans
E.P.C.C.
75, rue Cresolgny 49100 Angers
Tel. 02 41 24 13 50 - Fax 02 41 87 25 49

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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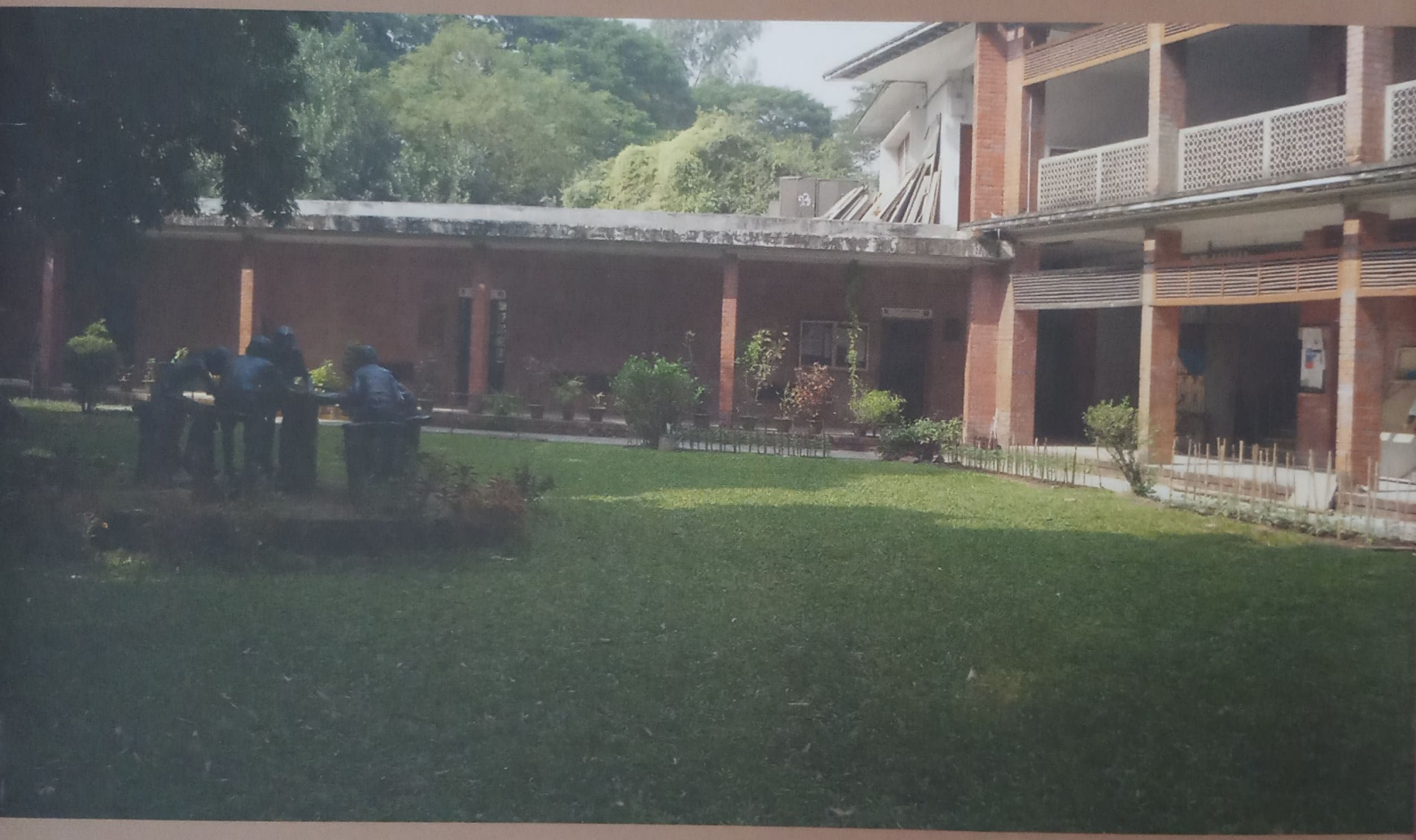
যোগসূত্র : শৈল্পিক বন্ধনের সন্ধানে

In quest of an artistic bondage

Dept. of Printmaking, Faculty of Fine Art, Dhaka University - Dept. of Graphic Art,
Kala Bhavana, Visva Bharati
Art and Education Exchange Program-2017



Department of Printmaking
Faculty of Fine Art
University of Dhaka
Bangladesh

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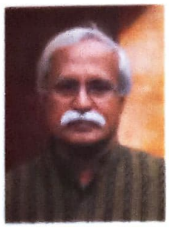
Mahmudul Haque
Honorary Professor
Department of Printmaking
Faculty of Fine Art
University of Dhaka

Lithograph



Syed Abul Barq Alvi
Honorary Professor
Department of Printmaking
Faculty of Fine Art
University of Dhaka
E-mail: abalvi@hotmail.com
Abalvi017@gmail.comj

Etching & Aquatint

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Participating Artists

Mahmudul Haque
Syed Abul Barq Alvi
Rokeya Sultana
Anisuzzaman
Joya Shahrin Huq
Sheikh Mohammad Rokonuzzaman
Asmita Alam Shammy
Md. Nazir Hossain Khan
Kamruzzaman
Bajlur Rashid Khan
Urmi Roy
Md. Ashraful Alam
Dipankar Singha
Chittron Saha
Sanchita Biswas
Fahmida Aktar
Atique Foysal Tonmoy
Swapon Kumar Sana
Mohammad Fazle Elahi
Sakib Salim
Md. Afi Azad
Md. Shahed Hossain
Avijit Mondol
Farhana Haque Meghla
Nazneen Islam Rojony
Istiaque Been Khurshid
Md. Mezanur Rahman
Anup Kumar Karmokar
Nasrin Rehana Eva
Tahaia Hossain
Shaila Sharmin
Shaon Das
Fouzia Fariha
Md. Aman Uallah
Nusrat Jahan
Mazharul Islam Mahim
Tafannum Kagoji
Nurunnahar Konika
Mst. Gultekin Sadia
Rezwana Rahman Mim
Md. Rafequl Islam
Kamrun Naher Mim
Shakil Mridha
Shasoti Dey
Md. Rifat Al Asif
Puja Roy
Md. Foriduzzaman Zabir
Tanjum Nahar Porna
Istiaque Hossain
Shoikot Ahamed
Md. Rakib Alam Shanto
Emam Mahdi

An Exposition of Prints

3 - 6 December 2017

Vanue : Somnath Hore International Artist's Residency
Department of Printmaking, Kala Bhavana, Visva Bharati
Santiniketan, India

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Sent by email to:
Sanchayan Ghosh and Anshuman Dasgupta
anshumandasgupta@gmail.com
sanchayang2@gmail.com

Berlin, December 23, 2016

Commission for documenta 14 radio *Every Time A Ear Di Soun*

Dear Sanchayan Ghosh,
Dear Anshuman Dasgupta,

On behalf of documenta 14's Artistic Director Adam Szymczyk, I, Bonaventure Soh Bejeng Ndikung, Curator at Large for documenta 14, have the utmost pleasure to invite you to produce a one-hour sound piece for radio as part of documenta 14 Radio *Every Time A Ear Di Soun*. This project is realized in collaboration with Deutschlandradio Kultur / Marcus Gammel.

documenta is recognized as the world's largest and most renowned exhibition of contemporary art, presenting new directions to an international audience every five years. Accompanied by lively public debate, documenta serves as forum for reflection on and presentation of global developments in contemporary art, culture, and society, and as a tool for rewriting art history and redefining contemporary exhibition practice.

documenta was founded in Kassel by a group of experts and aficionados led by the artist and designer Arnold Bode. Their intention was to show that modern art had a place in the process of reconstructing German society after World War II. The specific timing and the initial choice of locale allowed documenta to evolve into a venture that has now been in progress for over sixty years; establishing a reputation as a constantly changing institution in the city of Kassel and as a major force in shaping discourse on contemporary art globally.

Each documenta is a unique endeavor that progresses toward a final outcome through multiple phases of research and discussion, based on the original concept proposed by the Artistic Director. For documenta 14, which will issue in Athens, Greece, and Kassel, Germany, from April until late September 2017, Adam Szymczyk envisioned a documenta radio that would relay select radio stations from around the world. This goes a long way to acknowledge the medium, format, and concept of radio and broadcasting as an aural artistic practice, which in his seminal 1936 publication *Radio*, Rudolf Arnheim attests to, stating that the psychological and artistic properties of radio as a medium has stood the test of time.

The conceptual point of departure for the project *Every Time A Ear Di Soun* is that, especially in the so-called oral cultures, histories are carried by the physicality of the sonorous and transmitted to the body. The embodied sound encrypts itself into a corporeal archive through its performativity and reiterations. The auditory phenomena of vocal utterances, speech, sound and music co-define a space and place and cultivate histories. That is to say, through sonority, subjectivities and space are impacted. In his "Reflections on Radio" (1930), Walter Benjamin states that "we need only reflect that the radio listener, unlike every other kind of audience, welcomes the human voice into his house like a visitor," while Arnheim reminds us that "the most elementary aural effects, however, do not consist in transmitting to us the meaning of the

spoken word, or sounds which we know in actuality. The ‘expressive characteristics’ of sound affect us in a far more direct way, comprehensible without any experience by means of intensity, pitch, interval, rhythm and tempi, properties of sound which have very little to do with the objective meaning of the word or the sound.”

It is to this end that documenta 14 will like to relay your radio piece—irrespective of content, language, and other particularities—both through the Internet and SW and across eight radio stations to a worldwide audience, in the hope that these cross-pollinations of intensities, rhythms, histories and other narratives will leave an impact on the listener in space and time.

It goes without saying that we would greatly appreciate your participation in the documenta radio project. Upon interest we would then discuss the symbolic remuneration allocated for the collaboration.

Looking forward to your reply.

Best regards,

Adam Szymczyk

Bonaventure Soh Bejeng Ndikung

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documenta

1955
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2017

Radio Program Purchase Contract

The following contract is hereby concluded

between

documenta und Museum
Fridericianum gGmbH
Friedrichsplatz 18
34117 Kassel
Represented by CEO
Annette Kulenkampff

- hereinafter referred to as documenta -

and

SANCHAYAN GHOSH
DEPARTMENT OF PARTNER
KALA BHAVANA, VISVA BHARATI
SANTINIKETA - 731235, W.BENGAL, INDIA.

- hereinafter referred to as Contractual Partner -

is hereby concluded:

documenta und
Museum Fridericianum gGmbH
Friedrichsplatz 18
34117 Kassel

T +49 561 707270
F +49 561 7072739
www.documenta.de

documenta 14
T +49 561 707270

Fridericianum
T +49 561 7072720

documenta Halle
T +49 561 8104930

documenta Archiv
T +49 561 707273100

Vorsitzender des Aufsichtsrates:
Bertram Hilgen,
Oberbürgermeister der Stadt
Kassel

Geschäftsführerin:
Annette Kulenkampff

Registergericht: Kassel HRB 2154
USt.-IdNr. DE 113060585
Steuer-Nr. 025 250 70040

Kasseler Sparkasse:
IBAN DE 70 5205 0353 0000 060082
Konto-Nr. 60 082
BLZ 520 503 53
SWIFT HELADEF1KAS

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1 (Object of the Contract)

The Contractual Partner has produced a radio program entitled

"SHORT WAVES' TRANSIT TALES" [title]

to which it hereby grants usage rights in accordance with the following provisions.

2 (Assignment of Rights)

(1) The Contractual Partner grants documenta the exclusive right to use the radio program in whole or in part for the following broadcast-related purposes without temporal restrictions and on an unlimited number of occasions. documenta shall be entitled specifically:

- to broadcast the radio program as a whole or in part at documenta 14;
- to present the program in the catalog and the brief guide to documenta 14;
- to present the program in documenta publications, including those on electronic data media;
- to present the program in conjunction with press, public relations and marketing activities for documenta;
- to broadcast film and television reports as well as the radio program as a whole or in part;
- to record or reproduce the radio program or parts thereof in unlimited numbers in the form of videos or related media / slides and/or other technologies;
- to present the radio program on/in brochures, posters and other advertising media;
- to disseminate the radio program in any and all forms, to include specifically public presentations, reproductions, screenings, public-participation broadcasts regardless of time or place as well as publications in the Internet;
- to use the program at the documenta website and in related social media;
- to digitize and/or archive the program, to include presentation in publications for the documenta Archive;

(2) documenta is entitled specifically to broadcast the radio program or authorize third parties to broadcast the program as a whole or in part on an unlimited number of occasions

a) in Germany and abroad via radio (audio, cable radio or satellite transmission) or similar technical media;
b) to record the program on audio recording media or reproduce it in other ways;
c) to present the radio program as a whole or in part via the respective playback devices (audio recording media) during documenta 14 and at the documenta 14 website both in Germany and abroad and after the end of the documenta 14 exhibition.

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d) to make the radio program available as a whole or in part for non-commercial public use in Germany and abroad (e.g. at the documenta Archive) in accordance with Art. 19a, UrhG (German Copyright Act).

e) to permit other radio broadcasting companies in Germany and abroad to use radio programs broadcast or disseminated via cable radio by documenta for the purpose of simultaneous broadcasting;

f) to permit other radio broadcasting companies in Germany and abroad to record radio programs broadcast by documenta on audio recording media and to use or permit the use of such recordings for radio-related purposes;

g) to edit and redesign the radio program in in keeping with the requirements of specific playback devices, while maintaining its unique intellectual character;

h) to make the radio program available free of charge for downloading from the documenta 14 website in Germany and abroad for a period of six months following the first broadcast within the context of documenta 14;

i) to make the radio program available free of charge in Germany and abroad as an on-demand stream following the first broadcast within the context of documenta 14 until the end of 2017.

(3) documenta is entitled to assign the rights set forth in paragraphs (1) and (2) wholly or in part to third parties or to grant corresponding usage rights to third parties.

(4) The assignment of rights encompasses all rights of usage and authorization, ancillary copyrights, and other rights of the Contractual Partner, the author(s) involved in the production, and ancillary copyright holders whose works and ancillary copyright holders whose works and performances have been made use of.

(5) The Contractual Partner affirms that it is authorized and entitled to grant the aforementioned rights, and that it has acquired the consent of those parties necessary for the exploitation of the production in accordance with this contract, in particular the consent of the following parties:

- The author(s) or – should he/she/they have assigned his/her/their rights to third parties – holder(s) of the exclusive usage rights to the works used in producing and/or presenting the program; the performing artists who participated in the production of the program or whose performances were used in the production process or recorded onto playback devices;
- the holders of ancillary copyrights to the performances used in producing and/or presenting the production; and all persons in a position to assert rights of authorship, ancillary copyrights, or other rights in relation to the production

(6) documenta is under no obligation to exercise assigned rights on the basis of the contract.

§ 3 (Compensation)

(1) documenta shall pay, in full recompense for all services to be rendered and rights to be assigned by the Contractual Partner in accordance with this contract, compensation in the amount of

1.500 euros.

Payment of this amount shall constitute full and final satisfaction for all claims of the Contractual Partner. Subsequent claims for additional payment are excluded. The sum agreed upon is a gross amount, and includes VAT and all other applicable taxes. The sum shall be payable _____.

(2) The parties agree that an invoice must be submitted and that payment shall be made by bank transfer to the following account:

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Name of bank: STATE BANK OF INDIA

IBAN: A/c NO : 10598538339

BIC/Swift Code: 02121 (IFSC CODE : SBIN0002121)

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§ 4 (Transfer of Possession)

The radio program is to be provided to documenta in the form of a digital copy transmitted via the Internet no later than 8 March 2017. The point of contact to the provision of the material in question is Ms. Tina Klatte, Klatte@documenta.de. In the event that transmission via the Internet is not possible or desired by either party, the Contractual Partner shall work out a mutually acceptable agreement regarding the mode of transfer. The material shall be transferred to documenta as a broadcast copy and not as the original. documenta is entitled to forward the transferred format to the documenta Archive after the end of the exhibition.

§ 5 (Exemption from Claims)

Should one of the parties to the contract participants or a third party assert claims against documenta in connection with this contract, to include in particular claims relating to the commercial exploitation of the radio program in accordance with this contract, the Contractual Partner shall exempt documenta from all claims. This provision does not affect other claims asserted by documenta. The Contractual Partner is also obligated to oppose and defend against any unjustified claims filed by third parties, and to bear the costs of any legal defense that may be required.

§ 6 (Assignment / Expiration of Claims)

The Contractual Partner may not assign any claims accruing to it under this contract. All claims shall expire three years after becoming due.

§ 7 (Miscellaneous Provisions)

(1) No oral collateral agreements to this contract exist. Modifications and amendments to this contract shall be recognized as valid only in written form.

(2) Should one of more provisions of this contract be or be rendered ineffective or invalid, the validity of the remainder of the contract shall remain unaffected. Instead, the ineffective or invalid provisions shall be replaced by an effective provision corresponding to the economic intent of this contract.

(3) Even if the Contractual Partner is headquartered in another country, German law applies to all legal relations between the Contractual Partner and documenta. Insofar as the conditions governing jurisdiction set forth in Section 38 ff. of the German Code of Civil Procedure [ZPO] are met, the judicial venue for disputes arising from or under the provisions of this contract shall be Kassel.

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Kassel, (date) 2.3.2017

documenta und Museum
Fridericianum gGmbH

ppa.

~~Annette Kulenkampff~~

(City) , (date)

(SANTINIKETAN
WEST BENGAL
INDIA) (30/01/2017)

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documenta 14
Αθήνα/Athens 8.4.–16.7.2017

documenta 14
Kassel 10.6.–17.9.2017

Sanchayan Ghosh
ASSOCIATE PROFESSOR
DEPARTMENT OF PAINTING
KALA BHAVANA
VISVA BHARATI SANTINIKETAN-731235
WEST BENGAL, INDIA

Athens, 25.05.2017

Invitation to SANCHAYAN GOSH (passport number: Z2540255, Address: 77, Lake East Third Road, Kolkata- 700075, West Bengal, India) to visit Athens and Kassel

Dear Sanchayan Ghosh,

With this letter I am inviting you to visit Athens from 5/07/2017 until 8/07/2017 and 14/07/2017 till 17/07/2017 as well as Kassel from 18/07/2017 until 21/07 2017 in order for you to research and make a contribution to documenta 14 in Athens and in Kassel within our Public Programs and Educational Programs. documenta 14 is taking care of your travel from Berlin to Athens in Greece, from Venice to Athens and further to Kassel in Germany as well as of your accommodation in both cities and a per diem for the period of your stay.

In both cities you will be accompanied by Natasha Ginwala, Curatorial Advisor for documenta 14. We would be grateful to the consulate for providing you the required visa in undertaking this travel. In case further information is required documenta 14 can be contacted at any time.

I am very much looking forward to meet you soon.

Yours sincerely,

Adam Szymczyk
Artistic Director
documenta 14

Μετσόβου 25/Metsovou 25
GR-10682 Αθήνα/Athens
T +30 215 535 030 0
athens.office@documenta.de
www.documenta14.de

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Sarojini Naidu School of Arts & Communication
University of Hyderabad, Gachibowli, Hyderabad, Telangana 500046, India
Phone: + 91 40 23135511
Email: fineartssnoffice16@gmail.com / headfinearts@uohyd.ac.in
Website: https://snschool.uohyd.ac.in/finearts/

Department of Fine Arts

17 June 2017

To
Mr. Sanchayan Ghosh
Associate Professor
Department of Painting
Kala Bhavana
Visva Bharati University
Santniketan 731235

Dear Mr. Sanchayan Ghosh,

We are pleased to invite you as Visiting Faculty to conduct a 12 days workshop from 21st August to 1st September 2017. During your stay, you will conduct a workshop and interact with our students and share your valuable experience. If you have any relevant films to Art and Artists for the workshop, please bring them with you for screening, for the benefit of our students. The Department has a multimedia projector for screening. If you require any additional specific materials/technologies for your workshop, please inform us at the earliest so that we can make necessary arrangements.

Please arrange your travel tickets at earliest to your convenience you will be paid back and forth Air Ticket in AirIndia only (from nearest Airport), remuneration as per the rule of the University and the UGC and free accommodation at our Guest House. I sincerely request you to keep your boarding passes and cab receipts that are mandatory for us to process the reimbursements.

We look forward to your workshop at the Department of Fine Arts.

Thanking you.

With best wishes,

Prof. Suresh BV
HEAD
Department of Fine Arts
S.N. SCHOOL
University of Hyderabad
email: headfinearts@uohyd.ac.in

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No:CKP:13:2016-17/310 Date30.01.2017

To,

Sri.Prasanta Sahu
Artist

Sub: Invitation to participate in the "National Art Camp-2017"
Organised by Karnataka Chitrakala Parishath, Bengaluru,

Dear,

We take great pleasure in inviting you to be part of the National Art Camp-2017 which will commemorate the birth Centenary of Sri D. Devaraj Urs, an eminent political figure from Karnataka and a key support behind the establishment of our esteemed institution. This camp is scheduled from 14th to 19th February 2017 at our campus. It attempts to bring together artists who have worked mainly with painting as a medium of expression and is aimed at benefiting our community of students in particular and the art community of our Karnataka State in general.

For some of you who are not familiar with our organization, the Karnataka Chitrakala Parishath, established in 1960 and the College of Fine Arts started by it in 1964, was materialised largely due to the beneficence of Sri D. Devaraj Urs, the then Chief Minister of Karnataka. A significant contribution in this regard was by Prof. M.S.Nanjunda Rao, the founder General Secretary of Karnataka Chitrakala Parishath, who played a pivotal role by dedicating almost half a century of his life time in shaping it into a premier art institution of India.

Ever since its inception, the Karnataka Chitrakala Parishath and its College of Fine Arts have carved a niche for themselves in the field of Visual Arts not only in Karnataka but at the National level. It has emerged as an important centre for art collection possessing many rare art works produced by both Indian and foreign artists. The College of Fine Arts managed by the Parishath has gifted several renowned senior artists to the Nation. The 'Chitra Santhe' (Street-Art Fair) being organised by the Parishath annually for the last thirteen years has not only emerged as a major cultural event but also caught the imagination of art lovers all over the country. The Fine Arts College has also emerged as the most important centre for promoting.

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Art Education at various levels. The College has been attracting students from not only Karnataka but also from other parts of the country.

As a formality, we request you to contribute minimum one artwork which will be cherished as part of the Karnataka Chitrakala Parishath Museum's permanent collection. We expect the work to be measuring not less than a size of 3'x3' or 3'x4'. The materials for creation of the artwork will be provided by us. You will be provided with an Honorarium of Rs.50,000/- in addition to your return air fare, besides extending comfortable boarding, lodging facilities and local conveyance.

We are eager to have you as our esteemed guest participating in this event. Kindly confirm us by e-mail to the our Convener of the event Prof. K. S. Appajaiah, the former Principal of College of Fine Arts, Karnataka Chitrakala Parishath – E-mail id: chitrakalaparishath@gmail.com. We will arrange your travel following the confirmation of your participation.

The Karnataka Chithrakala Parishath looks forward to your gracious contributions and presence in this significant event.

With regards,

Yours sincerely,

Sd/-

(Dr. B.L.SHANKAR)

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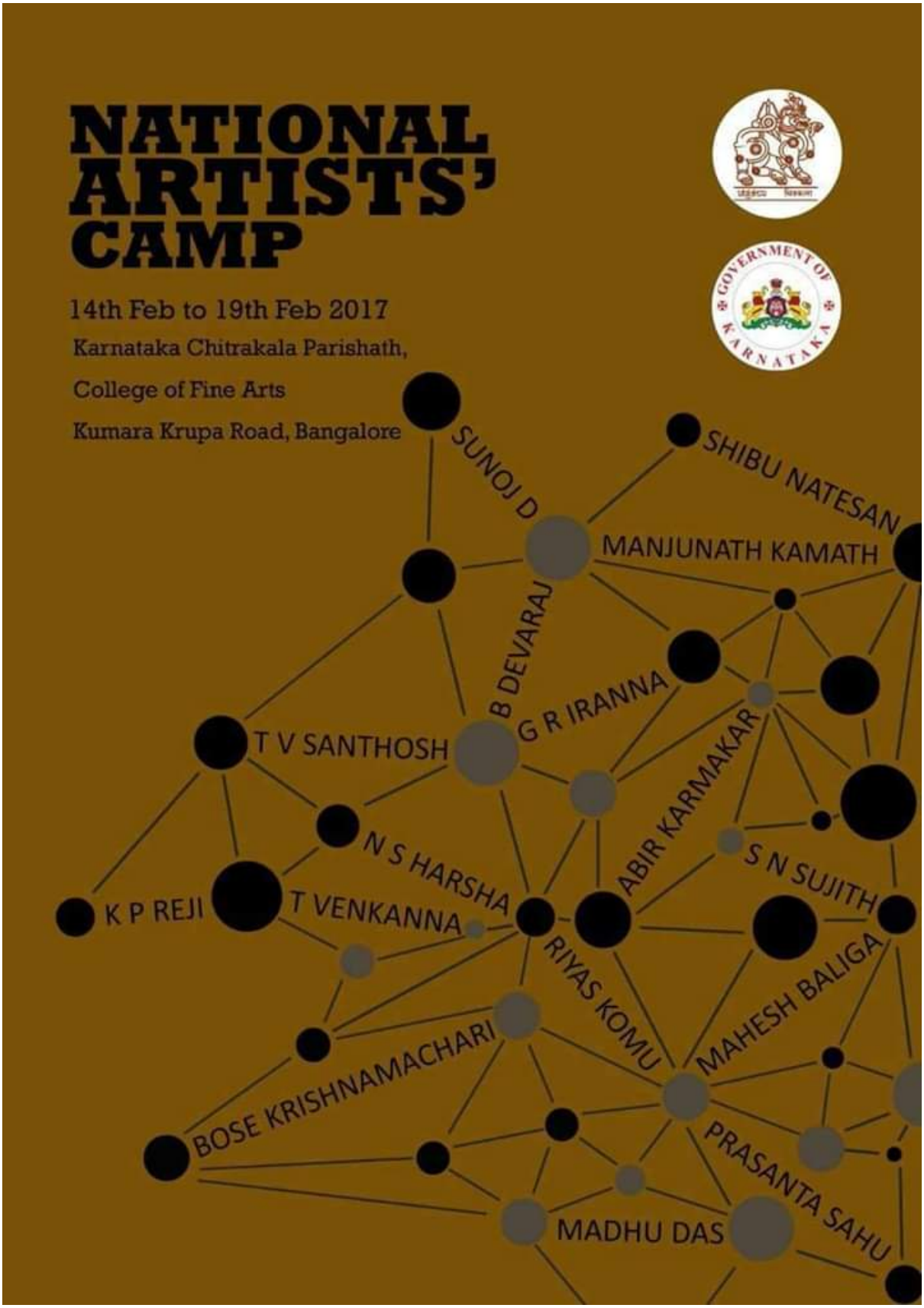
NATIONAL ARTISTS' CAMP

14th Feb to 19th Feb 2017

Karnataka Chitrakala Parishath,

College of Fine Arts

Kumara Krupa Road, Bangalore



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ललित कला अकादेमी
राष्ट्रीय कला संस्थान
संस्कृति मंत्रालय, भारत सरकार के अधीनस्थ
एक स्वायत्तशासी संस्था

Lalit Kala Akademi
National Academy of Art
An Autonomous Organisation of
Ministry of Culture, Government of India

Vishalakshi Nigam
Secretary I/C

LK/Prog./NTAF/2017

8th August, 2017

Subject: Invitation to participate in National Tihar Art Festival.

Dear Prashanta Ji,

I am happy to inform you that the Lalit Kala Akademi, New Delhi, in collaboration with Tihar Jail New Delhi is organizing a national camp on the occasion of National Tihar Art Festival from 19th -23rd August, 2017. The Akademi has selected you as one of the participants for the said camp. I, therefore, feel pleasure in extending this invitation to you to take part in the above camp. The following are the organizational details for your information and necessary action.

1.Duration	19th- 23rd August,2017
2.Honorarium/TA etc.	You will be paid an amount of Rs. 25,000/- as honorarium. Besides this, actual To & Fro train fare AC 2 Tier/ Economy Class by Air India and local conveyance will be reimbursed to you. You have to book tickets by Govt. authorized agency i.e. IRCTC & Air India Website only. Please provide journey tickets with boarding pass for verification and a cancelled cheque (Bank A/C details) for electronic money transfer.
3.Material Required	Art Material (canvas and clay) will be provided to the artists by the organizers. You have to bring colours, brushes , tools, which will be needed to execute the work professionally. The Akademi will reimburse Rs. 2000/- for colours.
4. Venue	Tihar Jail, Jail Road, New Delhi.
5. Local Hospitality	The Akademi will provide hospitality, one day before and after, for the entire camp period, which includes boarding/lodging etc. The accommodation will be on twin sharing basis only. The details will be sent to you shortly.
6.Contact Person	Shri H. C. Joshi, A.P.O (Programme) Ph No.-011-23009281, MB: 9818334563

Since it is happening inside the Jail, you are requested to adhere to Jail rules, where in movement and carrying of items are also restricted.

We are also enclosing the Do's and Don'ts received from Tihar Jail Authorities to be followed during the camp.

We would appreciate your confirmation by return email on lalitkalaakademi1954@gmail.com

With regards,

Yours sincerely,

Vishalakshi Nigam

Shri Prashanta Sahu
Calcutta
Ph. 09832110133

LALIT KALA AKADEMI
(National Academy of Art)
REGIONAL CENTRE, KOLKATA
An Autonomous Organisation of Govt.of India,
Ministry of Culture

ललित कला अकाइेमी
(राष्ट्रिय कला संस्थान)
क्षेत्रेय केंद्र, कोलकाता
भारत सरकार के अधीनस्थ एक स्वायत्तशासी संस्था,
संस्कृति मंत्रालय

LKA/RC/KOL/100-Prog.(PB)/ 393 **December 14, 2017.**

To
Shri Sanchayan Ghosh,
Associate Professor,
Department of Painting,
Kala Bhavana,Santiniketan.

Dear Shri Ghosh,

This has reference to our talk regarding organising a programme on New Media Art at Port Blair, Andaman. I am happy to inform you that Competent Authority of the Akademi has accepted our proposal for organising the same at Port Blair and also agreed with the schedule that you have forwarded to us. The same has already been agreed by the Deptt. of Culture, A&N Administration.

As discussed and confirmed the schedule date of programme is from 2nd to 15th January, 2018. The programme is called "National Artist in Residency in New Media Art". As Resident Artist we shall offer you a token honorarium of Rs. 25,000/- (Rupees Twenty five thousand only), shall provide you to and fro air fare from Kolkata to Port Blair and back and also shall provide your local hospitality and transport at Port Blair.

It is imperative that as per Central Government rules you only fly by Air India and your air ticket should be booked either directly from Air India Booking Counter or from Air India site on net or from a Travel Agency called Balmer Lorry & Co. Ltd. Air tickets booked from any other Travel Agent will not be accepted. You are also requested to provide the boarding pass and air ticket for claiming your TA. Your local contact at Port Blair is Smt. Rashida, Assistant Director, Art & Culture, A&N Administration. Her mobile no. is 9434260984. Any further query regarding your work at Port Blair you may get in touch with her. Please forward your journey schedule to Port Blair to her so that necessary arrangement at Port Blair for you could be made accordingly.

We shall disburse your TA and honorarium through NEFT. For the purpose you may please forward us your Bank details i.e. 1) Name & Branch of Bank, 2) Account Type (Savings or Current), 3) Account Number and 4)IFSC Code. A line in confirmation regarding your participation in the said programme will be appreciated.

Thanking you,

Yours faithfully,

(Siddhartha Ghosh)
Regional Secretary.

361, Keyatala Lane, Kolkata 700 029, Telephone : (033) 2464 1719, E-mail : lkarckol84@gmail.com
361, केयातला लेन, कोलकाता – 700 029, टेलीफेन : (033) 2464 1719, इ–मेल : lkarckol84@gmail.com

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DAEGU-INDIA
Fine Arts Exchange Exhibition 2017
2017 대구-인도 미술교류전

인사말씀

오는 2017년 9월 25일부터 28일에 걸쳐, 한국의 대구미술협회와 인도 산티니케탄 비스바바라티 대학교 깔라바반 예술학과 간에 두 번째 미술교류전이 열리게 되어 진심으로 기쁘게 생각합니다. 이 행사는 한국과 인도 양 국가 간의 깊은 이해를 바탕으로 몇 년 전부터 시작된 국제 교류전입니다. 행사를 통해, 서로 다른 문화 및 예술 영역의 사고에 초점을 두면서도, 다양한 방식으로 예술에 대한 새로운 대화의 장을 만들어 나가는 것이 그 목적이라고 생각합니다.

이번에 저희 대학교 깔라바반 예술학과에서는 드로잉, 그림, 사진, 에칭, 공연 영상 기록, 사진 기록 자료 재활용, 비디오 프로젝션 등 여러 방법을 적용한 예술 작품을 준비했습니다. 이를 통해, 깔라바반 교수진들이 관심을 가지며 연구 중인 서로 다른 미술 기법 및 표현 방식을 강조하고자 합니다. 무엇보다도 이번 교류전을 통해, 양 국가 간에 친밀한 관계를 형성하며 미술 기법을 공유하면서, 가까운 미래에 좀더 다양한 방식으로 대화의 장을 만들 수 있을 것이라 생각합니다.

비스바바라티 대학교와 대구미술협회뿐 아니라, 나아가 양 국가 간에 긍정적 관계 형성을 위해 노력을 해 주시면서 이번 행사를 준비해주신 대구미술협회에 다시 한번 감사드립니다. 마지막으로 이번 행사가 성공적이면서도 의미있는 행사가 되도록 빛내주실 모든 참가자분들께 감사의 인사를 드립니다.

2017. 9
인도 산티니케탄 비스바바라티 대학교 깔라바반 예술학과장
라자르시 비스와스(Rajarshi Biswas)

Greeting

I am very much delighted that for the second time an exchange programme on the basis of exhibition with the Daegue Fine Art Association, South Korea and the Department of Painting, Kala Bhavana, Visva Bharati, Santiniketan is happening at the Daegu Culture and Arts Center, South Korea from 25th - 28th of September 2017. It's an international exchange programme which initiated few years back with a great understanding between the two countries. The whole purpose at the back is to generate a new conversation between the multiple ways of art practices and focusing on different areas of thought as a whole.

This time Department of Painting, Kala Bhavana, Visva Bharati will showcase multiple kinds of mediums, which comprise drawings, paintings, photographs, etchings, documentation of performances, reuse of photo documented data's in painting, video projection etc, which again derive /underline the different practices and languages the faculties of Kala Bhavana are into. Above all I wholly believe that the outcome of bonding between these two countries and their art practices will generate a multiple layers of dialogue in near future.

I again entirely thankful to the Daegue Fine Art Association, for arranging such an event which will generate a positive bonding between the two institutions and between the two countries. At last, I thanks and congratulate all the participants of this grand show making a successful and meaningful episode.

Sep. 2017
H.O.D, Dept. of Painting, Kala Bhavana, Visva Bharati, Santiniketan
Rajarshi Biswas

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DAEGU-INDIA
Fine Arts Exchange Exhibition
2017 대구-인도 미술교류전

26-29 September, 2017
Daegu Arts Center 13 Exhibition Hall

주최 | 대구미술협회
후원 | 대구광역시 (사)한국예총대구광역시연합회

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Short Term & International Workshop

Make Tools for Clothing

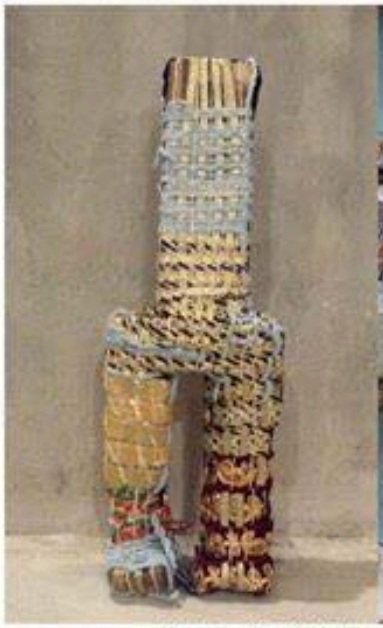
Date : 12th -16th January, 2018

Time : 10am. - 6pm. (Lecture time will be 5pm. - 6pm.)

Venue : Kala Bhavana campus

Organizer : In-Field Studio and Painting Dept., Kala Bhavana

Collaboration : Textile Dept., Kala Bhavana



Prototype of Tool for Clothing

Miku Watanabe' s work

Schedule :

12th morning -Opening Session

-Introduction lecture by Miku Watanabe

12th-14th -Making the tools

13th evening (4:30pm - 6pm)

-Lecture 1 by Sayuri Hashimoto

-Lecture 2 by Kengo Sato

15th -Dyeing and making textiles and clothes with the tools which we made

16th morning -Final presentation (10am.-2pm.)

Conductor :

Miku Watanabe (Fashion Designer, Japan)

Sayuri Hashimoto (Mending designer, Japan)

Nobuhiko Kawahara (Doll Maker, Japan)

Kengo Sato (Architect, Japan)

Coordinator :

Dharitri Boro (Painting Dept., Kala Bhavana)

Banatanwi Das Mahapatra (Textile Dept., Kala Bhavana)

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esba TALM
École supérieure des beaux-arts Tours Angers le Mans

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR and SEMESTER : 2017-2018 – FIRST SEMESTER

YEAR AND FIELD + LEVEL (Bachelor or Master): THIRD YEAR OF ART (BACHELOR)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana

NAME OF **STUDENT: Arpita DAS**

NAME OF **RECEIVING INSTITUTION**: TALM-Tours campus.
Contact : Brigitte VOISIN brigitte.voisin@talm.fr

Title of the course unit	Duration of course unit	ECTS credits	ECTS grade	Points/marks in numerical
History and Theories of art, Philosophy, English, Drawing	1 semester	8	B	56
Researches, experimentations, workshops, participation	1 semester	6	B	42
Options (workshops, methodology):				
- Exhibition practice	1 semester	2	B	14
- Video	1 semester	2	B	14
- Sculpture-Sound-Space	1 semester	2	B	14
- Sculpture	1 semester	2	B	14
- Printmaking	1 semester	2	A	14
- Sculpture	1 semester	2	B	14
Gobal evaluation (Bilan) : You have seized the opportunity to take advantage of all the creative and teaching possibilities during your study period in our institution. Without abandoning your formal and discursive preoccupations, you have managed to re-contextualise them in a wide variety of media; drawing, installations, video and engraving. We can only wish that you continue in this promising vein, becoming increasingly rigorous in the use of space In the exhibition of your work.		4	B	28
General grade: B+		Total : 30/30 ECTS credits		Total: 210/210 points

Date: February 15th 2018
Signature of international coordinator

Brigitte VOISIN

Stamp of institution

École supérieure des beaux-arts TALM-Tours
40, Rue du Docteur Chaumier
37000 TOURS

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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ANSHUMAN DASGUPTA

Curatorial Researcher: Corresponding With

Anshuman Dasgupta is an art historian and curator teaching in Visva-Bharati University, Santiniketan since 1997. He studied Art History in Santiniketan and M.S University, Baroda Goldsmiths College, London and Film Appreciation in F.T.I.I. Pune.

Dasgupta is currently one of the official researchers for *bauhaus imaginista: Corresponding With* and also elected the chief curator for Kala Bhavan in its 100 years (which was founded by Rabindranath Tagore in the year 1919, the same year as Bauhaus).

Completed PhD from Curatorial/Knowledge Ph.D programme at the department of Visual cultures, Goldsmiths College, University of London, Dasgupta has published in journals like LKC, Marg, Art-India and de Appel. His essays are also part of larger compilations like *The Curatorial: A Philosophy of Curating* (ed. Jean Paul Martinon, pub. Bloomsbury Academic London), *Towards a New Art History: Studies in Indian Art* (ed. S.K. Panikker, Parul Dave Mukherje, pub. D.K. Print World), *Art & Visual Culture in India 1857-2007* (Marg Publications), *Contemporary Indian Sculpture; Last Two Decades* (Marg Publications), *Curating Subjects* (ed. Paul O Neil, pub. Open Editions, London & De Appel, Amsterdam), *Santhal Family: Positions around an Indian Sculpture* (ed. Monica Szewczyk, Grant Watson & Anshuman Dasgupta, MuHKA , Antwerp), *Michael Strasser: Exotic Strings a Compilation* (ed. Gabrielle Cram & Michael Strasser, Verlag Für Moderne Kunst Nürnberg).

Dasgupta's collaborative sound project (work of art) ‘Short Wave’s Transit Tales’ is commissioned by Documenta (the German international exhibition project, under its Radio project and was transmitted in 8 countries of 4 continents). This piece has been recently selected as one of the 80 works from the world to be shown in three exhibitions in Basel, Switzerland and Berlin and Weimar, Germany.

His major curatorial projects include exhibitions during the birth centenary of Antonin Artaud (1995, Alliance Francaise, New Delhi), *Santhal Family* at MuHKA (2007–2008, Antwerp), and *Ramkinkar Baij Centenary Exhibition* at Visva-Bharati (2006–2007).

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সেতু –
THE BRIDGE-2

An Exposition of Printmaking

'Art and Education Exchange Programme'

2016-2018

PRINTMAKING GROUP, INSTITUTE OF FINE ARTS
UNIVERSITY OF CHITTAGONG
BANGLADESH

DEPT. OF GRAPHIC ART
KALA BHAVAN, VISVA BHARATI
SANTINIKETAN, INDIA

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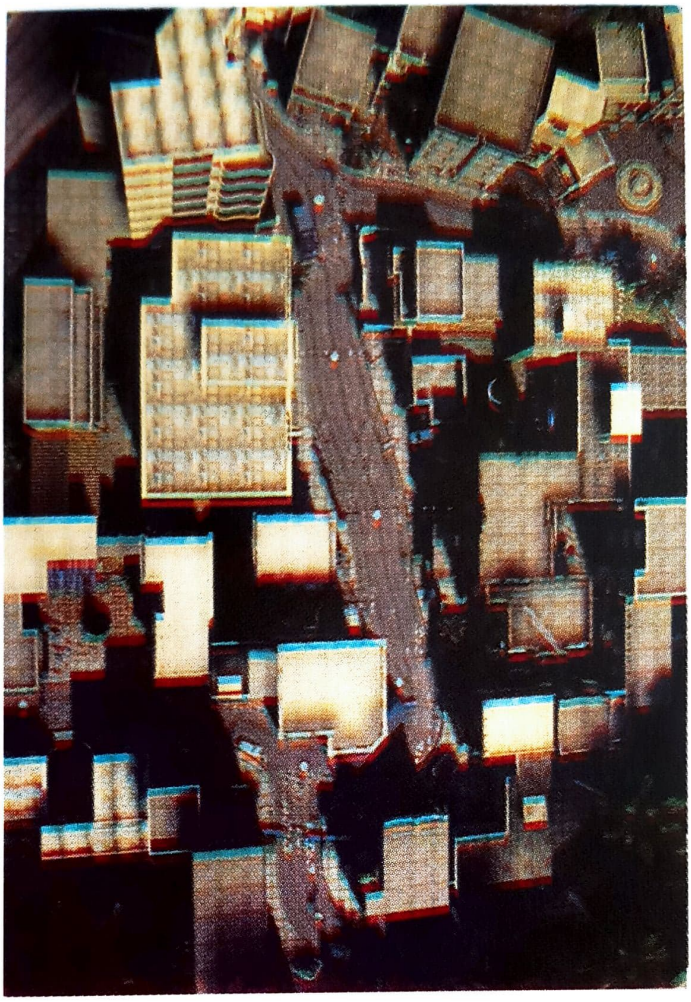
INDIA



PRASHANT PHIRANGI
Assistant Professor
Graphic Art
Kala-Bhavana, Visva-Bharati
Santiniketan, India

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Co-sponsor :

ASSISTANT HIGH COMMISSION OF INDIA
Chittagong, Bangladesh

22 - 27 November 2017
Artist Rashid Chowdhury Art Gallery
721 Badshamia Road, Chittagong, Bangladesh
Institute of Fine Arts
University of Chittagong

20 - 25 April 2018
Nandan Art Gallery
Kala Bhavana
Visva Bharati
Santiniketan, India.

Print : Chittagong University Press

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যোগসূত্র : শৈল্পিক বন্ধনের সন্ধানে

An Art and Education Exchange Program-2018

Department of Printmaking, University of Dhaka
Department of Graphic Art Kala Bhavana,Visva Bharati

Department of Printmaking
Faculty of Fine Art
University of Dhaka
Bangladesh

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Photo Gallery

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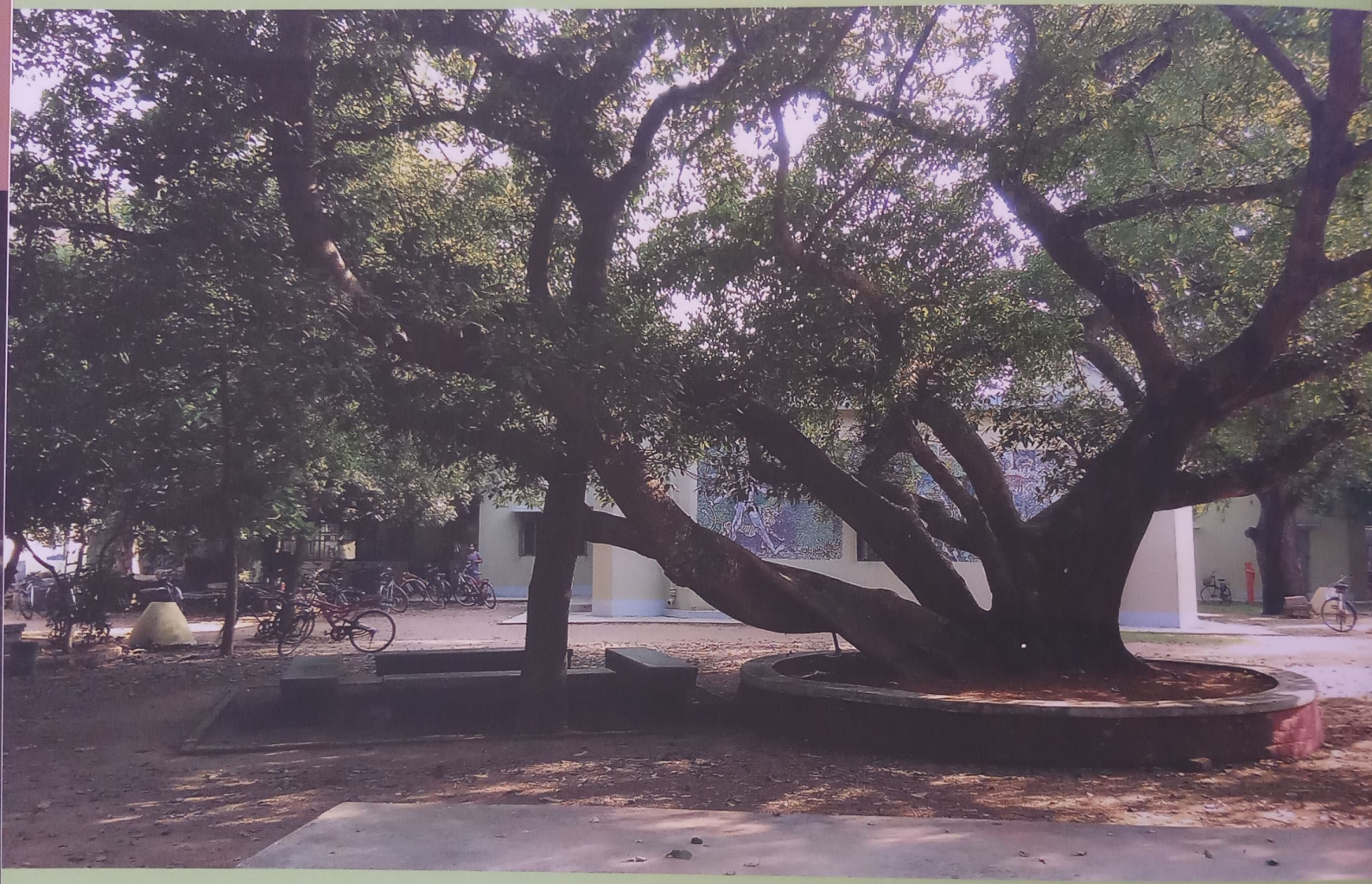
Perticipating Artists

Faculty

Professor Mahmudul Haque
Professor Syed Abul Barq Alvi
Professor Rokeya Sultana
Professor Md.Anisuzzaman
Joya Shahrin Huq
Dr. Sheikh Mohammad Rokonuzzaman
Asmita Alam Shammy
Md. Nazir Hossain Khan
Kamruzzaman
Juton Chandra Roy

Students

Avijit Mondol
Md. Ashraful Alam
Md. Shahed Hossain
Naznin Islam
Urmi Roy
Maharab Bintey Alam
Md. Mashiur Rahman
Faisal Abir
Kamrun Naher Mim
Md. Rifat Al Asif
Puja Roy
Tanjum Nahar Porna
Istiaque Hossain
Nusrat Jahan
Mazharul Islam Mahim
Tafannum Kagoji
Tamanna Siddique Aishy
Shasoti Dey



विश्व भारती
शान्ति निकेतन

An Exposition of Print
1 - 6 December 2018
Venue : Somnath Hore International Artist's Residency
Department of Printmaking, Kala Bhavana,Visva Bharati
Santiniketan, India

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esba TALM
École supérieure des beaux-arts Tours Angers Le Mans

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR and SEMESTER : 2017-2018 – SECOND SEMESTER

YEAR AND FIELD + LEVEL (Bachelor or Master): THIRD YEAR OF ART (BACHELOR)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana
NAME OF **STUDENT: Naphisabiang KHONGWIR**
NAME OF **RECEIVING INSTITUTION**: TALM-Tours campus. Contact : Brigitte VOISIN brigitte.voisin@talm.fr

Title of the course unit	Duration of course unit	ECTS credits	ECTS grade	Grade Points
History and Theories of art, Philosophy, English, Drawing	**1 semester**	**8**	**A**	**4.00**
Researches, experimentations, workshops, participation	**1 semester**	**6**	**B**	**3.00**
Options (workshops, methodology):				
- **Exhibition practice**	**1 semester**	**2**	**A**	**4.00**
- **Video**	**1 semester**	**2**	**A**	**4.00**
- **Light Space Colour**	**1 semester**	**2**	**B**	**3.00**
- **Sculpture**	**1 semester**	**2**	**B**	**3.00**
- **Printmaking**	**1 semester**	**2**	**A**	**4.00**
- **Painting**	**1 semester**	**2**	**B**	**3.00**
- **Comment- No comment**	**1 semester**	**2**	**B**	**3.00**
Gobal evaluation (Bilan): You have seized the opportunity to take advantage of all the creative and teaching possibilities during your study period in our institution. Your involvement has been great and generous in every classes and workshops you participated to. Your adaptation to a new context has been great too, showing that you could open your work, intentions and experimentations to new fields of art practices (performance). The evolution of your painting practice, confronted to a new context, has also been very relevant. We can only wish that you continue to explore and experiment in this generous and authentic way.		**4**	**B**	**3.00**
		Total : 32/30 ECTS credits		**GPA : 3.44**
General grade:A				

Date: 15.06.2018

Signature of international coordinator

Brigitte VOISIN

Stamp of institution

École supérieure des beaux-arts TALM-Tours
40, Rue du Docteur Chaumier
37000 TOURS

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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KOCHI BIENNALE FOUNDATION

Students' Biennale 2018

Students' Biennale 2018: Approval of Budget for Manipur Workshop

Date: September 27, 2018

RE: Approval of Budget for Manipur Workshop

Dear Sanchayan Ghosh,

This is to acknowledge that the Students' Biennale has approved a budget of **Rs. 50,000/-** *(Rupees fifty thousand only)* for the proposed curator's workshop that you seek to organise for the students of Manipur Art College between 15-22 October, 2018 as part of the programme this year. As agreed upon, the workshop will be held in collaboration with R & V Art House, Manipur.

We look forward to the same.

Sincerely,

Faiza Hasan

Faiza Hasan
Education Coordinator
Kochi Biennale Foundation

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ÉCOLE SUPÉRIEURE D'ART ET DE DESIGN
TOURS ANGERS LE MANS

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR and SEMESTER: 2018-2019 – FIRST SEMESTER

YEAR AND FIELD + LEVEL (Bachelor or Master): THIRD YEAR OF ART (BACHELOR)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana

NAME OF **STUDENT: Bhanu JINDAL**

NAME OF **RECEIVING INSTITUTION**: TALM-Tours campus.
Contact : Brigitte VOISIN brigitte.voisin@talm.fr

Title of the course unit	Duration of course unit	ECTS credits	ECTS grade	Points/marks in numerical
History and Theories of art, Philosophy, English	1 semester	6	C	42
Researches, experimentations, workshops, participation	1 semester	4	B	28
Options (workshops, methodology):				
- Exhibition practice	1 semester	4	B	28
- Sound	1 semester	2	A	14
- Drawing	1 semester	2	B	14
- *Sculpture*	1 semester	2	B	14
- Printmaking	1 semester	2	A	14
- Painting	1 semester	2	B	14
	1 semester	2	B	14
Gobal evaluation (Bilan): Banhu is completely transformed during his stay in France, he went through and participated in several workshops and workshops with enthusiasm. During this semester, he produced a series of interesting pictorial works around his sound issues, participated in performances and produced an immersive installation on the scale of the exhibition space, showing a very good sensitivity and a formal mastery of great maturity. His reflections on the use of materials and his ecological and plastic awareness allow him to build a critical discourse of quality.		4	B	28
General grade: B		Total : 30 ECTS		Total: 210 points

Date: 19/02/2019
Signature of international coordinator

Stamp of institution

École supérieure d'art et de design
TALM-Angers
[illegible] Rue Bressigny - 49100 ANGERS
[illegible] 72 79 86 90 - contact-angers@talm.fr
www.esad-talm.fr

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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ÉCOLE SUPÉRIEURE D'ART ET DE DESIGN
TOURS ANGERS LE MANS

TRANSCRIPT OF RECORDS
ECTS – European credit transfer system

ACADEMIC YEAR and SEMESTER: 2018-2019 – SECOND SEMESTER

YEAR AND FIELD + LEVEL (Bachelor or Master): THIRD YEAR OF ART (BACHELOR)

NAME OF **SENDING INSTITUTION**: Visva Bharati University - Kala Bhavana

NAME OF **STUDENT: Saurabh KUMAR**

NAME OF **RECEIVING INSTITUTION**: TALM-Tours campus.
Contact : Brigitte VOISIN brigitte.voisin@talm.fr

Title of the course unit	Duration of course unit	ECTS Credits	ECTS Grade	Grade Points	G.P.
History and Theories of art, Philosophy, English	1 semester	8	B	3 / 4	24 / 32
Researches, experimentations, workshops, participation	1 semester	6	B	3 / 4	18 / 24
Options (workshops, methodology):					
- Drawing	1 semester	2	A	4 / 4	8 / 8
- Video	1 semester	2	B	3 / 4	6 / 8
- Sculpture-Sound-Space	1 semester	2	B	3 / 4	6 / 8
- Sculpture	1 semester	2	B	3 / 4	6 / 8
- Printmaking	1 semester	2	A	4 / 4	8 / 8
- Painting	1 semester	2	A	4 / 4	8 / 8
Gobal evaluation (bilan):Saurabh is a studious student who has benefited from the experience of his stay to put into perspective the classic virtuoso techniques he had acquired in India and to address in his mediums more sensitive, abstract and conceptual approaches. We strongly encourage him to continue his research. His discreet presence did not prevent him from enjoying meetings with other students and a part of the educational body.		4	B	3 / 4	12 / 16
TOTAL		**30**	**General grade : B**	**GPA : 3,2 / 4**	

Date: July 24th 2019
Signature of international coordinator
Brigitte Voisin

Stamp of institution

École supérieure d'art et de design
TALM-Tours
40, rue du docteur Chaumier - 37000 TOURS
02 46 67 39 65 - contact-tours@talm.fr

ECTS credits :
1 academic year = 60 credits
1 semester = 30 credits

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राष्ट्रीय नाट्य विद्यालय
संस्कृति मंत्रालय भारत सरकार की एक स्वायत्त संस्था

National School of Drama
An autonomous Institute of Ministry of Culture Govt. of India

Ref.No. NSD,EPD,/15572 /2018-19 March 14, 2019

Sh. Sanchayan Ghosh,

Sub :- Invitation for a 15 days,'Theatre Workshop on Design cum Technical " in collaboration with Rangakarmee, Kolkata at Kolkata (West Bangal) from 16th March 2019 to 31th March 2019.

Sir,

This has reference to our discussion the above stated workshop. The workshop is being held from 16/03/2019 to 31/03/2019 in collaboration with Rangakarmee Kolkata at Kolkata (West Bengal).

It gives us pleasure to note that you have consented to be one of the resource persons for the said workshop.Your input "Set Desgin " classes has been planned and placed on date 16/03/2019 to 20/03/2019.

The National School of Drama will be pleased to pay you the remuneration of Rs 4,000/- per days ,2 sessions for days Total of Rs 20,000/-(Rupees Twenty Thousand only) and in addition you will be entitled to T.A / D.A. as per NSD rules. Workshop in collaboration with Rangakarmee Kolkata at Kolkata (West Bengal). They will be your host at Kolkata (West Bengal and will take care of all hospitality.

The NSD Extension Department will like to facilitate your travel to and fro you may intimate, your travel plans to our office and we shall do the needful or if you please, you may do the reservation at your end and we shall reimburse the expenses for Kolkata by local transport .

You requested to please intimate us your PAN number, complete address and bank details inclusive of Bank name, branch, bank IFSC code, your bank account number,we will directly deposit your fee in your account. Contacts Persons:-

Ms.Usha Ganguli, Camp Director- M.No 9830151114

Assuring you pleasant stay and enjoyable working at Rangakarmee Gourp at Kolkata (West Bengal)

With kind regards,

(Amitesh Grover)
Asstt.Prof Extension Prog. Deptt.

बहावलपुर हाऊस, भगवानदास रोड, नई दिल्ली-११०००१(भारत) दूरभाष ०११-२३३८६४०२,२३३८७६१६ फैक्स २३३८४२८८
Bahawalpur House, Bhagwandas Road, New Delhi – 110001 (India) Ph. : 011 23389402, 23387916 Fax: 23384288
Email : nationalschoolofdrama@gmail.com Website : nsd.gov.in
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BIRLA ACADEMY OF ART & CULTURE

REMEMBERING DINKAR KOWSHIK

An Exhibition to Commemorate the Birth Centenary of Prof. Dinkar Kowshik featuring his teachers, associates, students and successors

Jointly Organised by

SANTINIKETAN
KALA BHAVAN
PRAKTONI

23rd November to 21st December 2019

Jayashree Mohta
Chairperson, Birla Academy of Art & Culture,
cordially invites you to the inauguration of an exhibition of art
'REMEMBERING DINKAR KOWSHIK'
To Commemorate the Birth Centenary of Prof. Dinkar Kowshik,
Eminent Artist and former Principal of Kala Bhavana, Santiniketan,
on **Saturday 23 November 2019 at 6:00 p.m.**

Sri Somendranath Bandyopadhyay
has consented to be the Chief Guest and inaugurate the exhibition

Sri Pranab Ranjan Roy
has kindly consented to grace the occasion as the Guest of Honour

Seminar/Lecture

12 th December 2019, 6.00 PM

1. 'Visva-Bharati and Co-education: Emergence of Girl Students through Art Education'
- by Smt. Sharmila Roy Pommot, Chaired by Smt. Diyali Lahiri.
2. 'Kala Bhavana - the Dream and the Interventions'
- by Sri Soumik Nandy Majumdar, Chaired by Prof. Chhatrapati Dutta

18th December 2019, 6.00 PM

'Birth of Kala Bhavana - the different phases of its evolution till now'
- by Prof. R. Sivakumar, Chaired by Prof. Janak Jhankar Narzary

Venue: Birla Academy of Art & Culture

Exhibition open till 21 December 2019 , 3:00 p.m. - 8:00p.m. (closed on Mondays)

Venue : Birla Academy of Art & Culture, 108 Southern Avenue, Kolkata-700 029
T: 2466 6802, 2466 2843, 4008 9489 | W: www.birlaart.com | facebook.com/birlaacademy |
https://www.instagram.com/birlaacademy/

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FOUNDATION FOR INDIAN CONTEMPORARY ART

CALL FOR APPLICATIONS

ON-SITE: A Workshop Exploring Process, Dialogue and Experimentation

The Foundation for Indian Contemporary Art, in collaboration with Serendipity Arts Foundation, invites applications from young artists for a five-week course from September 10 until October 20, 2019, titled **ON-SITE: A Workshop exploring process, dialogue and experimentation.**

Duration: September 10 – October 20, 2019

Educators and Modules:

Peter Rösel | *Process-oriented Strategies*
Sanchayan Ghosh | *Site-specific Art: Co-habiting Differences*
Vidya Shivadas | *Reading Site*

Course Facilitator: Krishnapriya C P

Venue: Serendipity Arts Foundation, Basement, C-340, Defence Colony, New Delhi: 110024
Timings: Monday to Saturday| 11 am to 5 pm

Deadline: 25 August, 2019

Search

The Foundation for Indian Contemporary Art (FICA) is a non-profit organization that aims to broaden the audience for contemporary Indian art, enhance opportunities for artists, and establish a continuous dialogue between the arts and the public through education and active participation in public art projects and funding.

JOIN OUR MAILING LIST

Name *

First Name Last Name

Email Address *

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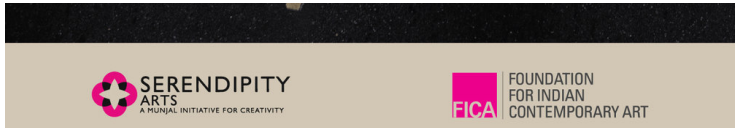

Submit

The proposed course is designed to explore site-specific practice and its relation to process, research and experimentation. Casting aside the more conventional definition of intervention from the 'outside', site-specific practice today is a more complex engagement of generating a public sphere through different models of collective engagement whether of relationalism or social dialogue. The intensive programme opens up possibilities of conceptualizing and making through the process of research, reading and experimenting with mediums through collaborations and exchanges.

The three modules led by the educators will explore different perspectives, understandings, and approaches to working on and around the idea of the site. These would include looking at process-oriented strategies, tracing encounters with a site as a contested entity, and engaging with notions of interdisciplinarity and its intersections with contemporary mobilisations in site-specific practices today.

To know more about the modules and the educators, click here.

Like the previous two editions conducted in 2017 and 2018, this third edition of the course is also directed at giving students insights into how artists turn to the city into an extended studio, mining various resources, individuals and forming their own support structures. The emphasis through all the modules will remain on exercises and explorations carried out by the participants.

Objective: This course will not merely explore the technical skills devised by the respective mentors/artists, but will also aim to create an immersive environment of learning and peer sharing, encouraging engagements with larger conceptual questions these practices throw up. There will be additional sessions with invited guest practitioners.

Open Day: The sessions are designed such that the outcome of each of the sessions leads toward the making of a display. To culminate the process, there will be an Open Day at the end of the work-period to share and discuss the works and ideas generated by the participants.

Eligibility: We are seeking applications from young artists who can devote uninterrupted time for participation in this course and whose practices have a strong location or site-based orientation. Given the duration, we prefer people who are not presently enrolled in any undergraduate or postgraduate programmes.

APPLICATION PROCESS

To apply, please send the following material to **info@ficart.org**, with the subject line,
'**FICA SAF Course 2019**'

1. Samples of your work in PDF format with a special focus on works that explore site-based orientation.

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2. A short statement (300 words) about why you would like to be part of such a programme.
3. A recent CV

——-

For **Serendipity Arts Foundation** and **FICA**, the course has been an invaluable experience in terms of building a curriculum from the inputs of practicing artists and to provide the group of young practitioners a chance to explore ideas, techniques and mediums that they would have not had access to within the formal art college programmes. It has been a very rich set of inputs the group has received and we really look forward to seeing how these young practitioners take these forward in their own bodies of practice.

Serendipity Arts Foundation (SAF) is an arts and cultural development trust created to encourage and support the arts as a significant contributor to civil society. SAT aims to promote new creative strategies, artistic interventions, and cultural partnerships which are responsive and seek to address the social, cultural and environmental milieu. Committed to innovation, SAT intends to support, promote and create platforms for innovation and creativity providing the wider public with a unique cultural and historical source of modern contemporary art and culture. SAT programs are designed and initiated through innovative collaborations with partners across a multitude of fields, each intervention created using the arts to impact education, social initiatives, community development programmes, explore interdisciplinarity between the arts, and to better understand the shared histories of the sub-continent.

© The Foundation for Indian Contemporary Art 2017

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LETTER OF AGREEMENT

This is a legal agreement between:

1. **The Foundation for Indian Contemporary Art,**
   D 53, Defence Colony, New Delhi 110024
   (hereinafter referred to as FICA)

2. **Sanchayan Ghosh**
   Department of Painting, Kala Bhavana, Visva Bharati
   Santiniketan-731235, Bolpur, West Bengal.
   (hereinafter referred to as 'The Educator')

1. Project Description

FICA, in collaboration with Serendipity Arts Trust, will be supporting a course for young practitioners which is titled **ON-SITE: A Workshop exploring process, dialogue and experimentation.**

-

The proposed five-week long workshop is designed for young artists who are looking to explore site-specific practice and its relation to process, research and experimentation. Casting aside the more conventional definition of intervention from the 'outside', the course will encourage participants to reflect on complex engagements in site-specific practices today, that generate a public sphere through different models of collective engagement whether of relationalism or social dialogue. The intensive programme will open up possibilities of conceptualizing and making through the process of research, reading and experimenting with mediums through collaborations and exchanges. The course starts 10 September 2019 and will continue until October 10, 2019 following which there will be an open day display by the participants. The venue of the course will be Serendipity Arts Trust, C 340, Defence Colony, New Delhi 110024.

As part of this course, you will be providing a module titled *Site-specific Art: Co-habiting Differences* between September 22 to September 28, 2019, Monday to Friday, 10 am to 5 pm. These could also include evening sessions or guest lectures as well as field visits.

This module on site-specific art practice will engage with the notion of site as contested entity of multi-layered, nomadic traits of live-in and move-in relationships that determine the identity of a site. It will explore notions of self-determination, de-territorialization that a site constantly encounters and the reciprocal performative relationship that is inherent in the practice of a site.

2. Educator Engagements

The educator has agreed to participate in the course titled **ON-SITE: A Workshop exploring process, dialogue and experimentation.**

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Sanchayan will:

1. Develop the five-day module, providing FICA with a schedule for the same. This will include a short description of the course followed by a breakdown of the day in terms of exercises and lectures.
2. Reach out to the guest lecturers you want to invite to present as part of your modules. FICA will follow up with them on a more formal basis once you confirm their interest with other details.
3. Provide us with a list of reading materials, online resources, list of material requirements well in time for the module.
4. Provide us with publicity materials including images and texts as per our requirement.

3. The Educator's Responsibilities

Sanchayan agrees to the following:

1. Support the process of finalizing application and spreading the word on the course
2. Being part of the selection process of the participants
3. Participate fully in the module proposed by you
4. Be available for a few informal interactions with the participants even after the module is over.
5. Be present and participate in the outlined course commitments
6. Authorise FICA and SAT to use his name and likeness in any promotional materials, such as print material and social media.
7. Understand and authorise that FICA may record (audio and/or video) the course proceedings (including presentations), and, that the presentation may be included in any reproduction of the course materials.
8. Availability to participate in media related interviews

3. FICA's Responsibilities

FICA will provide the following:

1. Oversee the entire process of running and managing this course with the grant provided by Serendipity Arts Trust.
2. Liaison with Serendipity Arts Trust to provide us with the venue and necessary requirements
3. Make payment as detailed in Section 4.
4. Develop and produce the Project marketing and promotional material
5. Document the event for the purposes of record, promotion and publication
6. Engage with the young artists to support their participation in the course.
7. Ensure that the travel to Delhi and stay during the period of the course.

4. The Educator's Fee

The Educator will receive an honorarium of Rs 25,000 for the role in developing and facilitating the module. The funds will be paid by FICA no later than three weeks following the completion of the module.

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5. Copyright and Permission

a) FICA and the Educator will jointly credit each other in the making of this course. The Educator has generated this module specifically in relation to the FICA Course and it is hoped that there will be further editions of this course. The module therefore can be used and modified by FICA at a later stage while crediting the Resource Person's inputs.

Cancellation

(a) In the event you are unable to fulfil any part of the work covered by this agreement, FICA will endeavour to minimise any costs and losses to both parties. However, you shall be liable for refund of any payments (including any portion of advance fee paid), costs and outlays incurred by FICA till the time of cancellation, reasonably adjusted in respect of the particular circumstances.

In the event of cancellation of any part of this agreement by FICA as a result of unforeseen circumstances beyond its control e.g., fire, riots etc. any payments shall be apportioned by mutual agreement.

Miscellaneous:

(a) Tax will be deducted at source for all payments subject to provisions of Income Tax Act and / or any other applicable law.

(b) Any enlargement / modification of scope of this agreement may be taken up on mutually agreed terms and conditions, duly signed by both the parties.

(c) You shall abide by all the applicable laws, and shall not undertake any illegal, unlawful or unethical activities or activities that infringe any third party rights, including third party intellectual property rights, and you shall defend and indemnify FICA / Serendipity Arts Trust/ Festival and/ or their officers, representatives, personnel, authorities against any and all claims, suits, losses, liabilities, damages, costs, fees and expenses (including reasonable lawyers' fees and expenses) incurred by them as a result of or arising out of such activities of yours.

(d) All intellectual property rights, including copyright, performers' rights, broadcast reproduction right, trademark and design rights in relation to Workshops shall be equally owned by FICA and/ or the creators of the Workshops.

(e) This agreement shall be governed by the laws of India and Courts at New Delhi shall have exclusive jurisdiction to decide as matter relating to and arising out of this letter agreement.

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ACKNOWLEDGMENT

I have read, understood and agree to the terms of this agreement and certify that I have full authority to enter it.

On behalf of **the Educator**

Sanchayan Ghosh
Department of Painting, Kala Bhavana, Visva Bharati
Santiniketan-731235, Bolpur, West Bengal.

On behalf of **the Foundation for Indian Contemporary Art (FICA)**

Ms. Vidya Shivadas
Director
D 53, Defence Colony
New Delhi 110024
Telephone +91-11-46103551
E-mail vshivadas@ficart.org

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1, क्वीन्स वे, कोलकाता - 700 071
1, Queen's Way, Kolkata - 700 071

विक्टोरिया मेमोरियल हाल
VICTORIA MEMORIAL HALL
(भारत सरकार के संस्कृति मंत्रालय के प्रशासनिक नियंत्रण के तहत एक स्वायत्त संगठन)
(An autonomous organisation under the administrative control of the Ministry of Culture, Govt. of India)

V.M. No. 549/2019

14 March 2019

Smt. Sarmistha Dutta Gupta
sarmistha91@yahoo.com

Shri Sanchayan Ghosh
sanchayang2@gmail.com

Subject: *Proposed exhibition on the Jallianwala Bagh Massacre and Rabindranath Tagore's response*

Dear Ms Dutta Gupta and Mr Ghosh,

We take pleasure in informing you that your proposal to curate and mount an exhibition in the Victoria Memorial Hall (and possibly elsewhere) to commemorate the centenary of the Jallianwala Bagh Massacre of 1919 and Rabindranath Tagore's response to it has now been approved by the Ministry of Culture. The proposed budget submitted by you, too, has been approved, and 75 per cent of the funds are soon to be released. We attach a copy of the Ministry's correspondence to its Pay and Accounts unit on this matter.

In view of this, we would take this opportunity to please start this work at your earliest convenience, so that this very interesting exhibition can be organized here and in other museums of India. We appreciate the fact that there is hardly any time left for the inauguration of the exhibition to coincide with the actual centenary of the massacre, but we would still be very grateful if a revised but expeditious timeline may be prepared for this.

With thanks and warm regards,

Yours sincerely,

Jayanta Sengupta
Secretary and Curator

Encl: As stated

✆ : 2223-1890/1891/0953/5142 • फैक्स / Fax : +91-33-2223-5142
ई-मेल / E-Mail : Victomem@gmail.com • वेबसाइट /Website:www.victoriamemorial-cal.org

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No.F.19/1/2019-Spl. Cell
Government of India
Ministry of Culture
(Special Cell)

Vigyan Bhawan Annexe,
New Delhi, 8th March, 2019

To

Pay & Accounts Officer,
Pay & Accounts Office,
Ministry of Culture,
NAI Annexe Building,
New Delhi.

Sub:- Sanction of **Rs.8,12,000/- (Rupees Eight lakh twelve thousand only)** as 1st installment to Victoria Memorial Hall, 1, Queen's Way, Kolkata for installation of exhibition on the Jallianwala Bagh massacre in VMH, Kolkata and subsequently to be taken santiniketan, Delhi, Amritsar and Chandigarh under Commemoration of Centenary of Jallianwala Bagh Massacre during April-2019 to April -2020.

I am directed to convey the sanction of the President of India to the release of 1st installment of **Rs.8,12,000/- (Rupees Eight lakh twelve thousand only)** out of the approved grant of **Rs.10,82,000/- (Rupees Ten lakh eighty two thousand only)** to Victoria Memorial Hall, 1, Queen's Way, Kolkata for installation of exhibition on the Jallianwala Bagh massacre in VMH, Kolkata and subsequently to be taken santiniketan, Delhi, Amritsar and Chandigarh under Commemoration of Centenary of Jallianwala Bagh Massacre during April-2019 to April -2020.

2. The above grant is subject to the following conditions:

i. The grant shall not be utilized for any purpose other than the purpose for which it has been sanctioned.

ii. A separate account for the grant shall be maintained which shall be open to audit by the Comptroller and Auditor General of India under the provision of CAG(DCP) Act, 1971 and Internal Audit by the Principal Accounts officer of the Ministry or any officer deputed by the Ministry of Culture at any time;

iii. The Organization will economize the expenditure to the extent possible and follow GFR – 2017 provisions and codal formalities for undertaking the cultural function wherever needed.

iv. Financial Assistance from GoI shall be limited to Rs.10.82 lakhs within the item-wise ceilings given at **Annexure - I** or the actual expenditure (item-wise), whichever is less and any expenditure beyond the said assistance of Rs.10.82 lakhs for organizing cultural event shall be borne exclusively by the Victoria Memorial Hall, 1, Queen's Way, Kolkata.

Nirmala Goyal

NIRMALA GOYAL
Director
Ministry of Culture
Govt. of India, New Delhi

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v. The grantee shall not raise any funds from any other sources for the purpose for which Ministry of Culture has funded.

vi. It will be prominently displayed in the banners/invitations, at venues, etc. that the cultural event is/are being under taken with the financial assistance of Ministry of Culture, Government of India.

vii. The audit accounts and utilization certificate, duly signed by an approved Chartered Accountant, to the effect that this amount has been utilized for the purpose for which it was sanctioned will be furnished to this Ministry at the earliest possible and in any case within 12 months from the date of release of this grant. Next installment of grant will be considered for release/reimbursement after receipt of physical progress report, utilization certificate, expenditure statement, vouchers/bills etc. for the total expenditure incurred.

viii. The programme will be organized and completed by the grantee organization in within the commemoration year.

ix. The grantee will submit a comprehensive audio/video recording and photographs of the events organized alongwith a copy of DVD of the programme to the Ministry.

3. The amount will be drawn by Drawing and Disbursing Officer (Special Cell) of the Ministry of Culture and paid by RTGS to Victoria Memorial Hall, 1, Queen's Way, Kolkata. No part of this grant shall be utilized for any other purpose.

4. The Victoria Memorial Hall, 1, Queen's Way, Kolkata has saving bank Account No.11143636791 in the State Bank of India, Samriddhi Bhawan, 4th Floor , 1 Strand Road, Kolkata. MICR code is 700002404 and IFSC Code No. is SBIN0014524. Mode of electronic transfer available in the bank branch is RTGS/NIFD.

5. The amount is debitable from the Major Head 2205, Demand No.18, Art & Culture, Minor Head 00.102.12.01- Promotion of Art & Culture – (Centenary & Anniversaries Celebrations) 12.01.31 - Grant-in-Aid (General) (Revenue) Non-recurring 2018-19.

6. Victoria Memorial Hall, 1, Queen's Way, Kolkata being an autonomous organization under the Ministry of Culture, surety Bond is not required.

Nirmala Goyal

NIRMALA GOYAL
Director
Ministry of Culture
Govt. of India, New Delhi

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7. The grant-in-aid is further subject to the conditions laid down in General Financial Rules as amended from time to time.

8. Further release of grant shall only be made based on balances available in Public Financial Management System (PFMS) as per Expenditure –Advance-Transfer (EAT) module date for the grantee organization. The grantee organization is mandatorily required to register itself on PFMS of Ministry of Finance (http://pfms.nic.in) creating vender(s)/beneficiary (ies) in PFMS in EAT (Expenditure-Advance-Transfer) module so that further payments to the vender(s)/beneficiary(ies) are made by the organization through PFMS in their Aadhar Seeded Account.

9. If the grantee fails to utilize the grant for the purpose for which the same has been sanctioned, the grantee will be required to refund the entire amount with interest thereon @ 10% per annum.

10. It is certified that no Utilization Certificate that is due is pending and also that no unspent balance is pending with this organization.

11. This sanction is issued in exercise of the delegated powers in consultation with Integrated Finance Division (IFD) vide their Diary No.**40172/2019** dated **27.02.2019**

12. The amount has been entered in the bill Register at **Sl. No.28 of Page No.26.**

Yours faithfully,

(Nirmala Goyal)
Director
Telephone: 23022041

NIRMALA GOYAL
Director
Ministry of Culture
Govt. of India, New Delhi

Copy forwarded for information and necessary action to:-

1. The Drawing and Disbursing Officer, (Special Cell) Ministry of Culture.
2. The Secretary, Victoria Memorial Hall, 1, Queen's Way, Kolkata -700071
3. Accountant General, AGCR Building, IP Estate, New Delhi
4. Sr. PPS to Secretary, Ministry of Culture, Shastri Bhawan, New Delhi
5. Joint Secretary (Com), Special cell, Ministry of Culture
6. IFD / P & B Division, Ministry of Culture
7. Sanction folder.

((Nirmala Goyal)
Director
Telephone: 23022041

NIRMALA GOYAL
Director
Ministry of Culture
Govt. of India, New Delhi

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Annexure V – Budget for Exhibition

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MULTIMEDIA INSTALLATION ON THE CENTENARY OF THE JALLIANWALLA BAGH MASSACRE & TAGORE'S RESPONSE			
Installation at the Victoria Memorial Hall, Kolkata, in April 2019			
INSTALLATION DESIGN AND PRODUCTION			
1.	Art Installation for Exhibition (Raw Material, Foldable Structures, Designer's fee)	Rs.2,50,000/	
2.	Light Equipment and Design Sound Equipment and Design	Rs.2,00,000/	
3.	Four Technicians' fees for 22 days for Installation Execution (1st April to 22nd April)	Rs. 50,000/-	
4.	Assistant Designer's fees for 22 days (1st April to 22nd April)	Rs. 25,000/-	
5.	Food allowance for 7 people during Installation for 22days @ Rs. 250/- per day per head (1st April to 22nd April)	Rs. 55,000/-	
6.	Local Conveyance for Designer and Curator for 22 days @Rs 500/-per day per head (1st April to 22nd April)	Rs. 22,000/-	
		SUB-TOTAL	Rs. 6,02,000/-
	RESEARCH		
7.	2 Research Assistants' fees for 30 days @ Rs 1000/- per day per head (Between January-March 2019)	Rs.60,000/-	Rs.1,60,000/-
8.	2 Research Trips for Curator and Designer (Delhi, Amritsar, Chandigarh)	Rs.100,000/-	
		SUB-TOTAL	Rs. 7,82,000/-
	EDITING & RECORDING		
9.	Audio visual Editing	Rs.10,000/-	Rs. 80,000/-
10.	Honorarium to 10 resource-persons for recording readings/music/comments @Rs.2000/ per person	Rs.20,000/-	
11.	Recording Instrument (Purchase)	Rs.25,000/-	
12.	Camera Hire for 10 days @Rs.2,500/-	Rs.25,000/-	
		SUB-TOTAL	Rs. 8,62,000/-
	DOCUMENTATION		
13.	Photo and Video Documentation for (12+3+2)17 days (April 2019)	Rs. 75,000/-	Rs. 75,000/-
		SUB-TOTAL	Rs. 9,37,000/-
	OPENING AND CLOSING DAY EVENTS		
14.	Sound for 2 days	Rs.20,000/-	Rs. 77,500/-

NIRMALA GOYAL
Director
Ministry of Culture
Govt. of India, New Delhi

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Annexure V – Budget for Exhibition

15.	Performers' fees	Rs.20,000/-	
16.	Travel and Accommodation of outstation performers	Rs.30,000/-	
17.	Honorarium for 4 panelists @ Rs 1500/ per head	Rs.6,000/-	
18.	Moderator's honorarium for a panel discussion	Rs.1,500/-	
19.	Tea and Seating for visitors	Victoria Memorial Hall	
20.	Publicity of the installation and related events	Victoria Memorial Hall	
		GRAND TOTAL	**Rs.10,82,000/-**

Please Note: We have not included expenses related to making it a travelling installation from Kolkata to Santiniketan, Delhi, Amritsar, Chandigarh and back. The expenses for dismantling and reinstallation each time it moves and documenting it in other places and organizing events in places that the installation travels would form a different budget. If the Victoria Memorial Hall wants to reinstall it permanently after it returns from other parts of the country, that would also form a separate budget.

Nirmala Goyal

NIRMALA GOYAL
Director
Ministry of Culture
Govt. of India, New Delhi

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राष्ट्रीय नाट्य विद्यालय
संस्कृति मंत्रालय भारत सरकार की एक स्वायत्त संस्था

National School of Drama
An autonomous Institute of Ministry of Culture Govt. of India

Ref.No. NSD,EPD,/15572 /2018-19 March 14, 2019

Sh. Sanchayan Ghosh,

Sub :- Invitation for a 15 days,'Theatre Workshop on Design cum Technical " in collaboration with Rangakarmee, Kolkata at Kolkata (West Bangal) from 16th March 2019 to 31th March 2019.

Sir,

This has reference to our discussion the above stated workshop. The workshop is being held from 16/03/2019 to 31/03/2019 in collaboration with Rangakarmee Kolkata at Kolkata (West Bengal).

It gives us pleasure to note that you have consented to be one of the resource persons for the said workshop.Your input "Set Desgin " classes has been planned and placed on date 16/03/2019 to 20/03/2019.

The National School of Drama will be pleased to pay you the remuneration of Rs 4,000/- per days ,2 sessions for days Total of Rs 20,000/-(Rupees Twenty Thousand only) and in addition you will be entitled to T.A / D.A. as per NSD rules. Workshop in collaboration with Rangakarmee Kolkata at Kolkata (West Bengal). They will be your host at Kolkata (West Bengal and will take care of all hospitality.

The NSD Extension Department will like to facilitate your travel to and fro you may intimate, your travel plans to our office and we shall do the needful or if you please, you may do the reservation at your end and we shall reimburse the expenses for Kolkata by local transport .

You requested to please intimate us your PAN number, complete address and bank details inclusive of Bank name, branch, bank IFSC code, your bank account number,we will directly deposit your fee in your account. Contacts Persons:-

Ms.Usha Ganguli, Camp Director- M.No 9830151114

Assuring you pleasant stay and enjoyable working at Rangakarmee Gourp at Kolkata (West Bengal)

With kind regards,

(Amitesh Grover)
Asstt.Prof Extension Prog. Deptt.

बहावलपुर हाऊस, भगवानदास रोड, नई दिल्ली-११०००१(भारत) दूरभाष ०११-२३३८६४०२,२३३८७६१६ फैक्स २३३८४२८८
Bahawalpur House, Bhagwandas Road, New Delhi – 110001 (India) Ph. : 011 23389402, 23387916 Fax: 23384288
Email : nationalschoolofdrama@gmail.com Website : nsd.gov.in
BACK TO MAIN PAGE

SHER-GIL SUNDARAM
ARTS FOUNDATION

15th Dec 2019

Dear Sanchayan Ghosh,

On behalf of SSAF, we are pleased to support you for the project, 'Under the Mango Tree', a self-organized gathering of small scale artist-led initiatives, schools and libraries with a focus on practices from indigenous practices and the global south, from 3 -7 February 2020 at Kala Bhavana, Visva Bharati, Santiniketan.

SSAF will support the project with a total of INR 4,00,000 towards material costs and documentation. The funds will be disbursed in two instalments of INR 3,40,000 before the project commences, and INR 60,000 on the completion of the project, once we have received the project report, financial report and documentation from you.

Please don't hesitate to contact us for any further information that you may require.
We wish you our best for a successful project.
Best regards,

VIVAN SUNDARAM
Managing Trustee
Sher-Gil Sundaram Arts Foundation

Department of Design
Kala-Bhavana, Visva-Bharati, Santiniketan
West Bengal, India

Department of Design is pleased to inform that we are going to organize a Workshop with eminent artist Prof. K. Laxma Goud at the Department of Design (Ceramic & Glass) from 14th. October to 16th October 2019.

All are welcome to see him working in innovative technique.

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Supported by **Tulsyan Family Beneficiary Trust**

Painting workshop

by

Prabhakar Kolte

from 20th. November to 22nd. November, 2019

and

ART TALK

on 22nd November, 2019 at 11am

at the Department of Design, Kala-Bhavana
VISVA-BHARATI

Supported by **Tulsyan Family Beneficiary Trust**

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Workshop
In ceramics

Organised by

Department of Design
Kala-Bhavana, Visva-Bharati
Santiniketan

Participants: Two eminent Ceramists

P R Daroz and Dipalee Daroz

From 12th March to 22nd March, 2020
Venue: Ceramic studio, Design Department
Kala-Bhavana, Santiniketan

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Supported by Tulsyan Family Beneficiary Trust

ACHARYA
(Chancellor)
SRI NARENDRA MODI
Prime Minster of India

UPACHARYA
(Vice-chancellor)
Professor Bidyut Chakraborty

*Ref. No.*_____

VISVA-BHARATI

FOUNDED BY
RABINDRANATH TAGORE

KALA-BHAVANA
(THE INSTITUTE OF FINE ARTS &CRAFTS)

Department of Design
KALA BHAVANA
VISVA BHARATI
SANTINIKETAN - 731 235
WEST BENGAL, INDIA.

email : *sisirksahana@gmail.com*
Date: 22/09/2019

To
Mr. Prashant Tulsiyan
Tulsiyan Family Benificiary Trust
9 New Road, Alipore
Kolkata.

Sub : Financial assistance for conducting workshop at Desigin Department, Kala-Bhavana, Visva-Bharati.

It gives me immence pleasure and hope to submit a proposal for seeking financial support to conduct a workshop with Indias's renowned artist Laxma Gouda at the Department of Design. Kala-Bhavana.
Workshop is scheduled from 18th November to 24th November, 2019 in conversassion with Prof Goud according to his convenience.
In a brief, I would like to inform you that Department is making a shed to install some important equipmentssuch as kilns, furnace and othe equipment wich will facilitate the students of Kala-Bhavana to practice art in ceramic and glass medium.
Your financial support will help us make the workshop. I am submitting estimation of the proposed construction work that required with minimum infrustructure.
Courtesy will be mentioned displayed at the workshop.

The amount may be paid directely to the Contractor.

Your support would help the Institute grow.

22/9/2019

Sisir Sahana
Head Of the Department
Design (Ceramic & Glass, Textile)
Kala-Bhavana
Visva-Bharati

विभागाध्यक्ष / HEAD
अभिकल्पना विभाग / Design Department
कला-भवन / Kala-Bhavana
विश्वभारती/ Visva-Bharati
शान्तिनिकेतन / Santiniketan
पिन कोड-७३१२३५ / PIN Code-731235

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राष्ट्रीय नाट्य विद्यालय
संस्कृति मंत्रालय, भारत सरकार की एक स्वायत्त संस्था

National School of Drama
An autonomous Institution of the Ministry of Culture, Govt. of India

Ref. No. NSD/Acad./3768/2019-20

13, January 2020

Dear Mr. Sanchayan Ghosh,

I have great pleasure in inviting you as an expert to share your valuable experience and expertise on the subject – "Design" with our 2nd year students specializing in Direction head for the period from 11th to 21st March 2020. You may hold class from 12.00 noon to 1.00pm during the period under reference excluding Sundays and holidays.

It will be highly appreciated if you would kindly spare some of your valuable time from your busy schedule to work on above subject with the students during the above period and also drop a letter or mail of your confirmation to the School for official purpose.

With regards to payment, it is to inform you that the School would be happy to pay you fee as well as TA & DA as per its laid down norms in this regard. We are appending herewith a format which you have to fill in and submit it to the School before expiry of the teaching assignment for release of payment to you as it is mandatory for all visiting faculty members in connection with payment as per direction of the Government of India..

With regards,

Yours sincerely,

Prof. (Dr.) Abhilash Pillai
Dean, Academics

Mr. Sanchayan Ghosh

बहावलपुर हाउस, भगवानदास रोड, नई दिल्ली-110001 (भारत) दूरभाष 011-23389402, 23387916 फैक्स 23384288
Bahawalpur House, Bhagwandas Road, New Delhi-110001 (INDIA) Ph.: 011-23389402, 23387916, Fax : 23384288
E-mail : nationalschoolofdrama@gmail.com Website: nsd.gov.in

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3.7.1 Collaborative Activities

PALLI SAMGATHANA VIBHAGA (Institute of Rural Reconstruction)	
Year of Collaboration	**Collaborative Activities**
2015	Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV
	A study on the Best practices of Dairy Cooperative Societies (DCS) in West Bengal
2016	Legal Awareness Programme in Villages
	Community, Community Immersion and Resources of the Tribes
	Application of SPSS to Quantitative Analysis
2017	Prevention of Drug Abuse
	Contextualizing Conflict, its Resolution and Peace Building Initiatives in India
2018	Asian Civilization Parade as part of the Conference on "Dialogue of Asian Civilizations"
	Inter cultural experience programme
	"The Design Limitless 2018"
	"The Design Limitless 2018"
	"The Design Limitless 2018"
	"The Design Limitless 2018"

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2018	Prevention of Drug Abuse for sixty High School Teachers
	Prevention of Drug Abuse for PG students of Visva Bharati
	Students' competition (UG and PG) on "Laws related to Women in India"
	Fieldwork Collaboration (Disability Rehabilitation Management
	Let no child be Excluded
	Success Mantra
	Students Satisfaction Survey (SSS)
	Development, Research and Pilot Scale Installation of Solar-Hydro Pumped Storage scheme in a remote Village of Assam to ensure 24x7 electricity
2019	Social Work Intervention with Elderly: Community Engagement, Social Responsibility and the Social Work Profession
	Child Labour Survey in Birbhum district, West Bengal
	A study on Child Marriage in Birbhum district
	Youth Leaership and Community Development
	BEFWAM-Bioenergy, Fertilizer, And Clean Water From Invasive Aquatic Macrophytes
	Promotion of Family Based Women Entrepreneurship in West Bengal

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Certificate

This certifies that

AHANA BHATTACHARYA

from Visva-Bharati University

has successfully completed

the Intercultural Experience Programme @ YNU

from 25 June to 1 July 2019

Yunnan University

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valid up to june 2020.

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Silpa-Sadana
Visva-Bharati
Srinikatan

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I.D.No- 06666061602

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Sl. No. 26/35

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Date of Issue 11.02.2017

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VISVA-BHARATI

20 16 – 20 20

छात्र-कार्ड
STUDENTS' CARD

नाम
Name AHANA BHATTACHARYA.

भवन
Bhavana B.Ves. Silpa Sadana, P.G.V

Ahana Bhattacharya
छात्र के हस्ताक्षर *Signature of the Student*

Sahana Majumdar
अध्यक्ष के हस्ताक्षर *Signature of the Adhyaksha*

Principal
Palli Samgathana Vibhaga
Visva-Bharati, Srinikatan

इस कार्ड को विश्वविद्यालय परित्याग से पूर्व वापस लौटाना होगा।
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INSTITUTE OF INDIAN INTERIOR DESIGNERS

This Citation is Given in Appreciation to

Mr/Ms. PRIYAK DUTTA

for Talented Participation and Outstanding Contribution Towards

The International Collaborative Workshop of IIID and LB Italy

' TILE DESIGN LIMITLESS 2018 '

IN SEARCH OF AN IDEAL TILE FOR INDIA

AT KOLKATA ON 29TH MAY 2019

GIANLUCA SBRANA
LB Italy Area Manager

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DIPEN PORIYA
LB India Director

JABEEN ZACHARIAS
IIID – President Elect

Valid up to June-2018

I.D.No. 06696281601

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क्रम सं० Sl. No. 12.

निर्गम-तिथि Date of Issue 07/11/2016

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VISVA-BHARATI

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STUDENTS' CARD

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Name नाम PRIYAK DUTTA

भवन Bhavana (CF/I) M.Des. P.S.V. Silpa-Sadana.

छात्र के हस्ताक्षर Signature of the Student

अध्यक्ष के हस्ताक्षर Signature of the Adhyaksha

इस कार्ड को विश्वविद्यालय परिसर से बाहर जाने से पूर्व वापस लौटाना होगा।

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Head
Silpa-Sadana
Visva-Bharati
Sriniketan

Principal Vidhana
Palli Sangathana Vibhaga
Visva-Bharati, Sriniketan

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亚洲文明对话大会

CERTIFICATE

Dear Ms. Priyanka Roy Choudhury

The 2019 Asian Civilization Parade, as part of the Conference on Dialogue of Asian Civilizations,has successfully concluded. We would like to express heartfelt thanks for your outstanding efforts and contributions.This certificate is hereby awarded to you as commemoration.

Activity Division of Beijing Service Leading Group in CDAC
Beijing Municipal Bureau of Culture and Tourism (substitute seal)
May, 2019

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Valid up June-2020.

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क्रम सं० निर्गम-तिथि

Sl. No. 3. Date of Issue 19.7.16

विश्व-भारती

VISVA-BHARATI

2016 — 2020

छात्र-कार्ड

STUDENTS' CARD

नाम
Name PRIYANKA ROY CHOUDHURY (B.Dec), Silpa-Sadana, P.S.V.

भवन
Bhavana

Priyanka Roy Choudhury

छात्र के हस्ताक्षर *Signature of the Student*

Sankar Mojumdar

अध्यक्ष के हस्ताक्षर *Signature of the Adhyaksha*

इस कार्ड को विश्वविद्यालय परित्याग से पूर्व वापस लौटाना होगा।

This card is to be returned at the time of leaving the University.

प्रधान / Head
शिल्प-सदन / Silpa-Sadana
विश्वभारती / Visva-Bharati
श्रीनिकेतन / Srinivasan

Adhyaksha
Palli Samgathan
Visva-Bharati, Sri Lanka

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BMP ALQUAD CAMERA
not by PRC photography

INSTITUTE OF INDIAN INTERIOR DESIGNERS

This Citation is Given in Appreciation to

Mr/Ms. PRIYABRATA MALIK

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AT KOLKATA ON 29TH MAY 2019

GIANLUCA SBRANA
LB Int'l Area Manager

DIPEN PORIYA
LB India Director

JABEEN ZACHARIAS
IIID – President Elect

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Valid up to June-2021.

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शिल्प-सदन / Sripa-Sadana
विश्वभारती / Visva-Bharati
श्रीनिकेतन / Sriniketan

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26341 St. I.D. No- 06696271805

क्रम सं० निर्गम-तिथि

Sl. No. 2 Date of Issue 22/09/2019

विश्व-भारती
VISVA-BHARATI
2019 — 2021.
छात्र-कार्ड
STUDENTS' CARD

नाम
Name PRIYABRATA MALIK.
(M. Des,
भवन
Bhavana Silpa Sadana, P.S.V
Priyabrata Malik

छात्र के हस्ताक्षर *Signature of the Student*

अध्यक्ष / Adhyaksha 29.9.19

अध्यक्ष के हस्ताक्षर *Signature of the Adhyaksha*

इस कार्ड को विश्वविद्यालय परित्याग से पूर्व वापस लौटाना होगा।
This card is to be returned at the time of leaving the University

Palli Samgathana Vibhaga
विश्वभारती, श्रीनिकेतन
Visva-Bharati, Sriniketan

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GIANLUCA SBRANA
LB Italy Area Manager

BIPEN PORIYA
LB India Director

JABEEN ZACHARIAS
IIID – President Elect

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GIANLUCA SBRANA
LB Italy Area Manager

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DIPEN PORIYA
LB India Director

JABEEN ZACHARIAS
IIID – President Elect

A Study on the Best Practices of Dairy Cooperative Societies (DCS) in West Bengal

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Acknowledgement

We express our sincere thanks to National Diary Development Board, Siliguri, West Bengal and District Milk Unions of West Midnapore, North 24 Parganas and Nadia for entrusting us to conduct the study in the interest of the organization and management of milk unions by the milk producers. They always provided to us with all support as and when required. The intention of this study is to identify the best practices in DCS societies to enable NDDB and the members of the milk unions to strategize the organizations and management of milk unions.

The team is deeply indebted to employees of milk unions for giving an opportunity to work with them. They helped us to communicate with the DCS as well as Milk Producers and contributed immensely in conducting the study successfully.

We made our best effort to find the actual picture of the management of Diary Cooperative Societies and its benefit to the Milk Producers through this research study which is aimed at identifying the best practices and possible replication of the same.

This study would have not been conducted without the plan, execution with encouragement and support from Professor Prasanta Kumar Ghosh, Head, Department of Social Work, Visva-Bharati. Santiniketan, Dr. Srikant Sahoo, Principal, Regional Training Center, NDDB, Ms. Chaitali Chatterjee, Manager, NDDB. We, therefore, put on record an appreciation for their continuous support in conducting the study.

The team members of the study

1. Dr. Prasanta Kumar Ghosh, Head, Department of Social Work & Principal Investigator, has been an academic and administrator since last 30 years in different capacities in private, public and government institutions. Apart from this, he also promotes social entrepreneurship organization for the Artisans of the district of Birbhum.
2. Mr. Prosanta Ghosh- MSW, Project Officer, GFATM Round- 7, Investigator, has 15 years of experience in different capacities as Project Coordinator including the Department of Social Work. He is now working as Manager, Social Mobilization, in Infrastructure Development of Santipur Municipality.
3. Mr. Subhodeep Mukherjee- MSW, Project Assistant, GFATM Round-7, Investigator, having 5 years of work experience in different capacities and currently engaged as Assistant Coordinator of a research project on Prevalence of Disability among Tribes and their rehabilitation in West Bengal.

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DCS member. Many times Shri. Mahapatra helps the DCS Secretary for doing official documentation at his free time. According to the DCS Secretary and other members of Managing Committee Sujan Mahapatra is one of the pillars of Pachgeriya Milk Producers' Cooperative Society.

Picture of the activities of the DCS

Farmers of Radha Gobinda Milk Production Cooperative Society

Farmers of Patshimulia Milk Production Cooperative Society

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Farmer

Discussion with the Management Committee Member

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Fat Testing

Milk Collection at the DCS

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Discussion with the farmers

Equipment used for testing milk samples

Sticks of cow dung drying in the sun to be used as fuel

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Manually Milk Sample Collection

Computerized Milk Sample Collection

Back To Main Page

F. No. 43/08/2017-NC-DAP (A)
National Institute of Social Defence
Ministry of Social Justice and Empowerment
R.K. Puram, New Delhi-110066.

Dated: 30th May, 2017

SANCTION ORDER

Sanction of the Competent Authority is hereby conveyed for incurring an expenditure of **Rs. 82,110/- (Rupees Eighty Two Thousand One Hundred and Ten only)** for organizing Two "One days Sensitization Programme on the Drug Abuse Prevention" for University students in collaboration with Central University Visva Bharti, Siriniketan, West Bangal, in the month of August, 2017.

2. The programme should be conducted as per the schedule indicated above or within 03 months of the schedule i.e., by 30th November, 2017. The sanction order will lapse after the due date. The agency must refund the advance money if programme is not conducted within the stipulated time.

3. The detailed fund provision for programme is as given under:

S. No	HEAD	Amount (in Rs.)
(I)	Refreshment for minimum 100 participants	7,000/-
(II)	Honorarium to Resource person @ 1200/- per session x 3 sessions Rs. 1,200 per sessions Rs. 2,200 per two sessions Rs. 2,500 per three sessions Rs. 3,000 for four sessions (full day)	3,600/-
(III)	Thematic competition (poster making), 1st /2nd/3rd prizes (1000/-, 800/-, 500/-) and material	6,000/-
(IV)	Banner, Photography, Stationary, IEC material, Certificate etc.	10,000/-
(V)	Miscellaneous, report writing including local conveyance by the organizer etc.	10,000/-
(VI)	Hall Rent	2,500/-
(VII)	Administrative charges for organizer 5%	1,955/-
	Total expenditure	**41,055/-**
	For 2 Nos. of sensitization Programme for University students = 41,055 x 2 =82,110/-	82,110/-
	Grand Total	**82,110/-**

(Rupees Eighty Two Thousand One Hundred and Ten only)

4. The amount will be released in two instalments, 80% of the sanctioned amount will be released initially. The remaining 20% will be released on settlement of accounts by submitting Utilization Certificate with photographs and detailed report. **The agency may note that the final adjustment should be made within one month of completion of the programme.**

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5. Accordingly, **Rs. 65,688/- (Rupees Sixty Five Thousand Six Hundred Eighty Eight only)**, being 80% of the total sanctioned amount is hereby released.

6. NEFT details for release of payment are as under:-

Beneficiary Name	UBI Project Account
Account No. (for Credit)	0826050001858
Account Type	Current
Centre (Location)	Bhubandanga
Name of the Bank	United Bank of India
Name of the Branch	Bolepur Bhubandanga
IFSC code of the Bank	UTBI0BOBC42

7. All payment over above Rs. 20,000/- is to made through account payee cheque only. The agency should submit copy of passbook indicating transfer of funds through Account payee cheque. In addition all transactions over and above Rs. 5,000/- are to be made only through digital means. Transactions less than Rs. 5,000/- should also be made digitally to the extent possible. This is in accordance with the Govt. of India's directions to promote digital transactions. Hence, this is for strict compliance.

8. The expenditure is debitable to Demand No.89, Major head 2235, Social Security and Welfare, 04 National Institute of Social Defence, 04.00.31. Grant-in-Aid for the year 2017-2018 (Plan).

(Sujit Kumar Mishra)
Deputy Director (Admn.)

Copy to: 1. Accounts Section
2. Dr. Paramita Roy, Associate Professor, Department of Social Work, Visva- Bharati, Sriniketan, Birbhum, West Bangal-731236.
3. Main file

Deputy Director (Admn.)

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SP

National Commission for Women,
Plot No. 21, Jasola Institutional Area,
New Delhi – 110025
राष्ट्रीय महिला आयोग,
प्लाट नं० २१, जसोला इंस्टीट्यूशनल एरिया,
नयी दिल्ली – ११००२५
www.ncw.nic.in

F. No NCW/1202112003451/LAP/20115-16/19

Date: 22/03/2016

To
The
Professor P.K. Ghosh,
Department of Social Work,
Visva-Bharati University,
Santiniketan, Birbhum,
West Bengal- 731235

Subject: - Regarding Legal Awareness Programme.

Sir/Madam,

This has reference to the Proposal of your organization received in the Commission on 13.10.2015 and subsequent approval of the Commission conveyed vide letter no. NCW/1202112003451/LAP/20115-16/19 dated 26.10.2015 for conducting the above mentioned programme.

2. In response to your consent to conduct 3 Legal Awareness Program Camp in the month of February, 2016 at Birbhum, W.B. Rs.1,50,000/- i.e. - (50%) of the total sanctioned amount of Rs.3,00,000/- was released as 1st instalment vide order no. NCW/1202112003451/LAP/20115-16/19 dated 07.01.2016.

3. However as per the record available, documents like the Separate programme report with recommendation of the deliberation, list of Participants, list of Resource persons, Photographs, Programme video recording, Original bills and Vouchers, Expenditure statement & Accounts, Utilization Certificate duly certified by Chartered Accountant have still not been received as per terms and condition of order dated 07/01/2016.

4. You are requested to submit the required documents for processing the case for 2nd instalment at earliest.

(Sudha Chaudhary)
Law Officer

1. Prof. K. Bhattacharya for compliance
2. Mr. M. Biswas

22/3/16

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CURRENT PARTNERS

Anthropological Survey of India

Crafts Council of West Bengal

SFTG Société de Formation Thérapeutique du Généraliste (France)

UNIL Institut des sciences sociales THEMA Université de Lausanne (Suisse)

IUMF Institut Universitaire de Médecine de Famille (Suisse)

La Source, Institut et Haute école de Santé (Suisse)

Visva - Bharati University Santiniketan (India)

Special thank's to Mr Ranjit Bhattacharya

Santiniketan Anthropology and Medicine Project (SAMP)

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Community, Community Immersion and Resources of the Tribes

Santiniketan, CCWB Resource Center

june 26th 2016

Santiniketan
Anthropology and Medicine Project
(SAMP)

CURRENT PARTNERS

Anthropological Survey of India

Crafts Council of West Bengal

(Ruby Palchoudhury, Rishikesh Thapa)

SFTG Société de Formation Thérapeutique du Généraliste (France)

(Dr Patrick Ouvrard)

UNIL Institut des sciences sociales THEMA Université de Lausanne (Suisse)

(Pr Ilario Rossi, Clémence Desarzens, Luis Lima)

IUMF Institut Universitaire de Médecine de Famille (Suisse)

(Dr Daniel Widmer, Dr Sophia Chatelard Léana Ducor, Florent Rhyner)

La Source, Institut et Haute école de Santé (Suisse)

(Pr Madeleine Baumann, Pr Blaise Guinchard, Johanna Jutzi, Simon Menny)

Visva - Bharati University Santiniketan (India)

(Pr Kum-KumBhattacharya)

Special thank's to Pr Ranjit Bhattacharya and to the inhabitants of Santal villages

With the honorable presence of :

Prof. Sabujkoli Sen

Prof. Sankar Majumdar

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Community, Community Immersion and Resources of the Tribes

SANTINIKETAN

Visva-Bharati Social Work Department

june 27th 2017

Santiniketan
Anthropology and Medicine Project
(SAMP)

CURRENT PARTNERS

Anthropological Survey of India

Crafts Council of West Bengal

(Ruby Palchoudhury)

SFTG Société de Formation Thérapeutique du Généraliste (France)

(Dr Patrick Ouvrard, Solène Roquelaure, Chloé Grieumard)

UNIL Institut des sciences sociales THEMA Université de Lausanne (Suisse)

(Pr Ilario Rossi, Dr Carla Vaucher, Solenne Blanc, Marijan Micakovic)

IUMF Institut Universitaire de Médecine de Famille (Suisse)

(Dr Daniel Widmer, Océane Gasser, Adrien Abrecht)

La Source, Institut et Haute école de Santé (Suisse)

(Pr Madeleine Baumann, Pr Blaise Guinchard, Julia Braun, Haeika Chevallier)

Visva - Bharati University Santiniketan (India)

(Pr Kumkum Bhattacharya, Shyam Sundar Gosh, Abhishek Chanda)

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Community, Community Immersion and Resources of the Tribes

Visva-Bharati Social Work Department

SRINIKETAN - 3d congress

june 26th 2018

विश्व भारती
शान्ति निकेतन

UNIL | Université de Lausanne
THEMA - Théorie sociale, Enquête critique, Médiations, Action publique

La Source. Institut et Haute Ecole de la Santé

unisanté
Centre universitaire de médecine générale et santé publique
Lausanne
Family Medicine Department

COLLÈGE de la MÉDECINE GÉNÉRALE

Santiniketan
Anthropology and Medicine Project
(SAMP)

CURRENT PARTNERS

- R.K.Bhattacharya former director of the Anthropological Survey of India

- Crafts Council of West Bengal
(Ruby Palchoudhury)

- Collège de la Médecine Générale (France)
(Dr Patrick Ouvrard)

- Institut des sciences sociales THEMA Université de Lausanne - Unil (Suisse)
(Pr Ilario Rossi, Chiara Mazzarelli, Miloch Jovic)

- DMF Family Medicine Department - Unisanté, Unil (Suisse)
(Dr Daniel Widmer, Kevin Morisod, Matthieu Abbet, Vittoria Guareschi)

- La Source, Institut et Haute école de Santé (Lausanne, Suisse)
(Pr Madeleine Baumann, Pr Blaise Guinchard, Solène Benoit, Annick Budry)

- Visva - Bharati University (Santiniketan, India)
(Pr Kumkum Bhattacharya, Shyam Sundar Ghosh, Abhishek Chanda, Baidyanath Sarkar)

Special thanks to Pr. R.K. Bhattacharya and to the inhabitants of Santal, Hindu and Muslim villages

With the honorable presence of :
Prof. Prasanta Kumar GHOSH

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Community, Community Immersion and Resources of the Tribes

SRINIKETAN

Visva-Bharati, Department of Social Work

june 25 th 2019

UNIL | Université de Lausanne
THEMA - Théorie sociale, Enquête critique, Médiations, Action publique

विश्व भारती
शान्ति निकेतन

La Source. Institut et Haute Ecole de la Santé

unisanté
Centre universitaire de médecine générale et santé publique
Lausanne
Family Medicine Department

COLLÈGE de la MÉDECINE GÉNÉRALE

QUIZ Competition Organized by NCW at Department of Social Work, V.B
(17th November 2018)

Sl. No.	Name of the Student	Age	Sex	Department	Class/Semester	Mobile No.	e.mail ~~[illegible]~~ I.d.	Signature
1.	Shampi Mandal	22	F	Social Work Department	MSW 2nd sem	7602093656	shampimondal1996@gmail.com	Sm 17.11.18
	Shefali Alam.	22	F	Department of Social Work.	MSW III SEM	9002598585	shefalialam.net@gmail.com.	Alam 17.11.18
2.	Kheyali Roy	24	F	Department " " "	MSW Sem III	8617061970	Kheyalinoy9@gmail.com	Roy 17.11.18
	Supriyo Pal	22.	M	" " " "	MSW Sem III	8250135643	Pal.Supriyo1996@gmail.com	Pal 17.11.18
3.		23	M					
4.	Shaurya Prakash	23	M	Department S.W	MSW Sem III	9430860849	saurya p75@gmail.com	[signature] 17/11/18
5.	Srabana Bhattacherjee	21	F	"	MSW Sem III	7003939720	srabanabhattacherjee29@gmail.com	S.B. 17/11/18
6.	Mainak Saha.	22	M	"	MSW Sem III	7908261395	mainaksaha204@gmail.com.	Mainak Saha. 17/11/18
7.	Srijeeta Pal	21	F	"	MSW Sem III	8759105366	srijeetapal4567@gmail.com	S.Pal 17/11/18.
8.	SK Rafikul Hossain	19	M	"	BSW Sem V	7908807394	rafikulhossain55@gmail.com	[signature] 17.11.18
9.	Subhodeep Banerjee	19	M	"	BSW (Sem-V)	8016270247	subhodeepbanerjee99@gm	[signature]
10.	SK. Sahiuddin	20+	M	"	BSW (Sem III)	7098058680	SKsahiuddin8854@	[signature]
11.	TAPAS MAHANTA	20	M	"	BSW (Sem-V)	9547033860		
					BSW (Sem-V)	9547033860	TapasMahanta469@.gmail.com	[signature]
12.	Md. Hsif Zaman	20	M	"	BSW (Sem-V)	9547140370	maz[illegible]76@gmail.com ~~Md. Hsif Zaman~~	[signature]
13.	Sipati Sultana	20	F	"	BSW (Sem-V)	7699318384	SipatiSultana1998@gmail.com	Sipati Sultana
14.	Rachna Kumari	19	F	"	BSW (Sem-III)	8340749398	rachna7177@gmail.com	Rachna Kumari
15.	Moupiya Saha	18	F	"	BSW (Sem-I)	7001682099	pritha.mou2000@gmail.com	Moupiya Saha
16.	NUR GOLAM HOSSAIN	20	M	"	BSW (Sem-III)	9641607112	Nurgolam2740@gmail.com	Nurgolam Hossain
17.	SAMANTAK CHAKRAVORTY	23	M	"	MSW (Sem-III)	9775737518	chaksavortysamantak@gmail.com	Samantak Chakravorty

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Sl. No.	Name of the Student	Age	Sex	Department	Class/Semester	Mobile No	email id	Signature
18.	Ashim Kumar Das	19	M	Social Work	BSW 2 Sem	8158824162	ashimkumar-513@gmail.com	
19.	Baidyanath Sarkar	21	M	Social Work	MSW I Sem	8145484260	sarkarbaidya3@gmail.com	B. Sarkar
20.	Meghna Patra	21	F	Social Work	MSW I Sem	8343962638	meghnapatra0@gmail.com	
21.	Anindita Das	22	F	Social Work	MSW Sem-I	8486925730	ad96730@gmail.com	Anindita Das
22.	Marlin Yesmin	22	F	Social Work	MSW 1st Sem	9678024313	marlinyesmin05@gmail.com	Marlin Yesmin
23.	Nilay Sarkar	22	M	Social Work	MSW 3rd Sem	7980610015	nilay-sarkar13@outlook.com	Nilay Sarkar
24.	Debdutta Das	22	F	Social Work	MSW 3rd Sem	8910727505	debduttadas18@gmail.com	Debdutta Das
25.	Baisakhi Samondal	22	F	Social Work	MSW I Sem	7063280861	cocobaisakhi@gmail.com	Baisakhi Samondal
26.	Mayuri Rani Borah.	21	F	Social Work	MSW 1st	7576919330	mayurirani000@gmail.com	MRBorah.
27.	Chayanika Das	21	F	Social Work	MSW 1st	8729898437	daschayanika923@gmail.com	C Das.
28.	Susmita Bhattacharjee	22	F	Social Work	MSW 1st Sem	7797602237	somalysumi.2@gmail.com	Susmita Bhattacharjee
29.	Taniya Khatun	18	F	Social work	BSW-III	9064384225	taniyakirnahar17@gmail.com	Taniya Khatun
30.	Soheli Chanda	20	F	Social work	BSW-III	9609612174	Sohelichanda2@gmail.com	Soheli Chanda
31.	Sweta Chetri	24	F	Social Work	MSW-I	9902749801	swetachetri@gmail.com	Sweta Chetri.
32.	Tirtha Ghosh	22	M	Social work	MSW-III	8250246936	tirthaghosh45@gmail.com	Tirtha Ghosh
33.	Sayani Bhandary	20	F	Social Work	MSW-I	9614456642	Sayanibhandary2015@gmail.com	Sayani Bhandary
34.	Chandrika Singha	18	F	Social Work	BSW-I	9733673356	Chandrikavbv@gmail.com	Chandrika Singha

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Sl. No.	Name of the Student	Age	Sex	Department	Class/Semester	Mobile No.	e.mail Id.	Signature
35.	Anindita Nandi	18	F	Social Work	BSW(Sem-I)	8116506005	Anindita2080@gmail.com	Anindita Nandi
36.	Shreyasi Saha	18	F	Social Work	BSW(Sem-I)	8016968319	Shreyasisaha584@gmail.com	Shreyasi Saha
37.	Rima Laha	18	F	Social Work	BSW(Sem-I)	8637005900	lahakrisha1357@gmail.com.	Rima Laha
38.	Laxmibabu Soren	18	M	Sd "	" "	8942073152	laxmibabusoren@gmail.com	[illegible]
39.	Amit Das	18	M	"	" "	7319439563	amitdas.sundipur@gmail.com	A. Das,
40.	Bijoy Ghoshal.	20	M	"	BSW-III	9547741964	bijoyghoshal98@gmail.com	Bijoy Ghoshal.
41.	Swiog Ghoshal	20	M	"	" (III)	9800481009	swiogghoshal98@gmail.com	[illegible]
42.	Soumyadipta Bose	19	M	"	"	7076858442	soumyadiptabose@gmail.com	Soumyadipta Bose
43.	Aditi Mukherjee	22	F	"	MSW-3rd sem	7076315074	mukherjee aditi 96@gmail.com	[illegible]
44.	Kunal Das	18	M	Rural study	BRS-I	8145581612	Kunal180600@gmail.com	K. Das.
45.	Chandan Kumar Singh	20	M	SOCIAL WORK	Ith sem	70024-41890	chandansingh3338@gmail.com	Chandan
46.	Srimanta Mondal	20	M	Social work	Vth sem	7318972519	Srimantamondal604@gmail.com	Srimanta Mondal
47.	Anamika Surelia.	17	F	"	Ist sem	9382014659	anamikasurelia@gmail.com	[illegible]
48.	Pallab Sow	18	M	"	Ist sem	8348936022	pallabsow9@gmail.com	[illegible]
49.	Abhishek Chanda	22	M	"	MSW-I sem	8944837509	abhishek8944837509@gmail.com	[illegible]
50.	Md Sirajuddin	19	M	Social work	BSW-V	8944567242	Sirajuddin2027@gmail.com	[illegible]
51.	Sadrul Islam	19	M	Sanskrit	Sanskrit-V	9800920631	sadrulislam1999@gmail.com	[illegible]

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Sl No.	Name of the Students	Age	Sex	Department	Class/Semester	Mobile No.	e.mail. Id.	Signature
52.	Souvik Mondal	20	Male	Social Work	BSW (V) Sem	8116368776	SouvikMondal.Mail@gmail.com	S. Mondal.
53.	Hritadeep Kolay	19	male	Social Work	BSW(III)Sem	8250639972	hritadeepKolay@gmail.com	H.K.
54.	Jeet Roy	18	"	"	BSW(III)Sem	8617479716	Royjeet288@gmail.com	J.Roy
55.	Dwaipayan Chatterjee	18	male	Social Work	B.S.W.(I)Sem	9830297423	cdwaipayan2000@gmail.com.	D. Chatterjee
56.	Swapnadeep Bajdi	25	Male	Social Work R.(D.Plm)	P.G.Diploma	9614109585	Swapnadeepbajdi2014@gmail.com	[signature]
57.	Aripsa Das	23	Fem	Social work	P.G.Diploma	7365095545	aripsadas2@gmail.com	A. Das
58.	Sayanti Sarkar	19	Female	Social Work	BSW Sem-I	9831050839	cuteristisarkar@gmail.com	Sarkar
59.	Sayan Ghosh	20	M	Social work	BSW-3rd	9564202584	sayanghosh2018@gmail.com	S.Ghosh
60.	Papai Mondal	18	M	"	BSW-1sem	8768737431	papaikusumb959@gmail.com	papai mondal.
61.	Sudip Dutta	19	M	"	"	9382050712	Sudipdutta10599@gmail.com	[signature]
62	~~Chanju Sherpa~~		F	"	MSW Sem-I			
62 63.	Satyajit Thandar	18	M	Social work	BSW-1	7047662815	thandarsatyajit@gmail.com	S. Thandar.
63	Jyotisman Bhattacharjee	22	M	Social Work	MSW-1	7908739572	jyotismanbhattacharjee1@gmail	[signature]
64								
65								
66								
67								

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राष्ट्रीय गतिशील दिव्यांगजन संस्थान
National Institute for Locomotor Disabilities (Divyangjan)
(दिव्यांगजन सशक्तिकरण विभाग ,सामाजिक न्याय एवं अधिकारिता मंत्रालय ,भारत सरकार)
Department of Empowerment of PwDs (Divyangjan), Ministry of Social Justice and Empowerment, Govt. of India
बी.टी .रोड,बनहुगली,कोलकाता-700090
B.T. ROAD, BON-HOOGHLY, KOLKATA-700090
Phone: 2531-0279, 2531-0610/Tele Fax: 2531-8379/E-mail: mail@nioh.in and web: www.niohkol.nic.in

No. : PGDDM-2018-2019/2601/SER/2018/NILD Date-14.02.2019

To
Prof. Prasanta Kumar Ghosh,
Department of Social Work,
Visva- Bharati, Bolpur Sriniketan Block Road,
Sriniketan, Dist:-Birbhum, Pin:-731236 (WB)

Sub: -Permission for field work of the students of the Post Graduate Diploma in Disability Rehabilitation Management (PGDDRM) of NILD

Sir,

We are pleased to inform that this institute, an apex organization in the area of locomotor disability is conducting **'Post Graduate Diploma in Disability Rehabilitation and Management (PGDDRM)'**. This course is of one academic year duration and under the affiliation of West Bengal University of Health Sciences. The basic objective of this program is to equip the qualified rehabilitation/Medical professional and managers working in the area of disability rehabilitation with more advanced techniques, value added training and services and managerial skills etc. As part of the course curriculum students are to visit different organizations both Govt. & Non Govt. working in the area of Disability & Rehabilitation.

I take the opportunity to request you kindly to allow our students for field work as per course curriculum to your department on 09.03.2019 to 14.03.2019.

In this connection let me mention the total number of students are 15 (List Attached). One staff will also accompany them during the placement.

I shall be highly obliged if you kindly confirm the field work and the class.

Thanking you.

Yours faithfully
14/02/2019
Dr. P .K. Lenka
HOD P&O &
In-charge SER

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National Institute for Locomotor Disabilities (Divyangjan)
B.T. Road, Bon-Hooghly, Kolkata-700090

No.-PGDDRM-2018- 2019/ 2601/ SER/ 2018/ NILD Date - 14.02.2019

STUDENTS OF PGDDRM IN THE SESSION 2018-2019

1. DEBOJIT CHAKRABORTY
2. SHARMISTHA SARKAR
3. AMRITA MUKHARJEE
4. ALIA SK
5. SUBHASAREE MUKHERJEE
6. TRISHITA CHAKRABORTY
7. SMARANIKA ROY
8. SHRIJANI GHOSH
9. SUKANYA GHOSH
10. SAMANWITA LALA
11. RITWIKA DAS
12. DEBARATI GHARAMI
13. ANUSREE HANSA
14. RIMJHIM SADHUKHAN
15. SAYANI KAR

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F. No. 63-17/2019-20
National Institute of Social Defence
(Old Age Care Division)
Ministry of Social Justice & Empowerment
Government of India
West Block - 1, Wing - 7, Ground Floor
R. K. Puram, New Delhi - 110066.

Dated: 2nd December, 2019

SANCTION ORDER

Sanction of the Competent Authority is hereby conveyed for incurring an expenditure of **Rs.1,70,000/-** (Rupees One Lakh Seventy Thousand Only) to organize **Two Days National Seminar on Social Work Intervention with Elderly: Community Engagement, Social Responsibility and Social Work Profession** in collaboration with **Department of Social Work, Visva Bharati University,** on 18th 19th January, 2020 at Sriniketan, West Bengal.

2. The programme should be conducted as per the schedule indicated above or within 03 months from the scheduled date i.e., by 28th February, 2020. The sanction order will lapse after the due date. The agency must refund the advance money if programme is not conducted, within the stipulated time.

3. The detailed fund provision for each programme is as given under:

Sl. No.	Item	Amount (in Rs.)
1.	Travel Allowance (Air fare) to & fro for 7 Resource Persons including Guest speakers, Guest of Honour, Chief Guest and Plenary Speakers on production of tickets. As per actual.	50,000
2.	Seminar Kits for 100 participants @ Rs.200/- per person (200 x 100)	20,000
3.	Working Lunch including two times Tea/Coffee and snacks @ Rs.175/- per head for 100 persons including Resource Persons and organisers for 2 days. (175 x 100 x 2)	35,000
4.	Stationary, documentation, report writing, photography and certificate, etc.	15,000
5.	Expenses towards publication of book	30,000
6.	Miscellaneous including stage decoration, banner, local conveyance expenses on inauguration and valedictory function, and other contingencies (subject to actual expenditure)	20,000
	TOTAL	**1,70,000/-**

4. The amount will be released in two instalments, 80% of the sanctioned amount will be released initially. The remaining 20% will be released on settlement of accounts by submitting Utilization Certificate with photographs and detailed report. **The agency may note that the final adjustment should be made within one month of completion of the programme. A blank format of UC is enclosed within. The UC should be signed by HOD of the Institute/Principal/Finance Officer.**

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5. Accordingly, Rs.1,36,000/- (Rupees One Lakh Thirty Six Thousand Only), being 80% of the total sanctioned amount is hereby released. Account details for release of payment are as under:-

Beneficiary Name	**UBI Project Account**
Account No. (for Credit)	**0826050001858**
Account Type	**Current**
Centre (Location)	**Bhubandanga**
Name of the Bank	**United Bank of India**
Name of the Branch	**Bolepur, Bhubandanga**
IFSC code of the Bank	**UTBI0BOBC42**

6. The University may ensure that expenditure incurred is proportionate to the number of participants. Further, expenditure should be incurred in accordance with details indicated at para 3 of the sanction order.

7. All payments of Rs.10,000/- is to be made through account payee cheque only. In addition all transactions over and above Rs.5000/- are to be made only through digital means. Transactions less than Rs.5000/- should be made digitally to the extent possible. This is in accordance with the Government of India's directions to promote digital transactions. Hence, this is for strict compliance.

8. The expenditure is debited to Demand No.89, Major Head 2235, Social Security and Welfare, 04 National Institute of Social Defense, 04.00.31, Grant-in-Aid (General) for the Year 2019-2020.

(M. Sunil Kumar)
Dy. Director (Admin. & Plg.)

Copy to:

1. Prof. Kumkum Bhattacharya, HOD, Department of Social Work, Visva-Bharati, Sriniketan-731236, Birbhum, West Bengal- with the remarks that the expenditure should be within the sanctioned amount for each head and no excess expenditure in any head will be accepted under any circumstances. The unspent balance should be sent alongwith accounts vouchers/bills/receipts/reports within one month on completion of the programme failing which interest will be charged on unspent balance as per rates prescribed by the Govt. from time to time. The guidelines issued in this regard should be strictly followed. Clarification, if any, may please be sought from NISD beforehand.
2. Accounts Section (2 Copies)
3. Office File

Dy. Director (Admn. & Plg.)

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सत्यमेव जयते

स्वच्छ भारत
एक कदम स्वच्छता की ओर

जय हिन्द

भारतीय मानवविज्ञान सर्वेक्षण
संस्कृति मंत्रालय
भारत सरकार
भारतीय संग्रहालय परिसर
27, जवाहरलाल नेहरु रोड, कोलकाता - 700 016

ANTHROPOLOGICAL SURVEY OF INDIA
MINISTRY OF CULTURE
GOVERNMENT OF INDIA
INDIAN MUSEUM COMPLEX
27, JAWAHARLAL NEHRU ROAD, KOLKATA - 700 016

TEL : 91-33-2252 1798/1780/1698/1733
FAX : 91-33-2252 1799
E mail : director@ansi.gov.in / hohq@ansi.gov.in
Website : www.ansi.gov.in

No. 2-1/PMI/2017

Date: 20.09.2019

25 SEP 2019

To
Prof. Kumkum Bhattacharya
Head Department of Social Work
Visva – Bharati University
Santiniketan– 731235
Bhirbhum

Subject: Subject: Administrative approval and financial sanction of Rs. 50,000/- (Rupees Fifty thousand) only for organizing a two – day National Seminar on "Social Work Intervention with the Elderly: Community Engagement, Social Responsibility and the Social Work Profession" from 25th to 26th January, 2020 by the Department of Social Work, Visva – Bharati, Santiniketan, Bhirbhum, West Bengal - Regarding.

Sir,

With reference to your letter no. V.B./SW/S-11/181/19-20 dated 24.06.2019 on the subject cited above, I am directed to convey the administrative approval and financial sanction of the competent authority of this Survey towards the collaborative academic assistance for an amount of **Rs. 50,000/- (Rupees Fifty thousand) only** for organizing a two – day National Seminar on "Social Work Intervention with the Elderly: Community Engagement, Social Responsibility and the Social Work Profession" from 25th to 26th January, 2020 by the Department of Social Work, Visva – Bharati University, Santiniketan, Bhirbhum, West Bengal.

Shri Amit Kumar Ghosh, SA(C) of this Survey has been nominated as official delegate for participating in the said programme. Further nominated official delegate is exempted from paying registration fee, if any, as per the terms & conditions of this Survey. (Copy enclosed)

In this context, Shri Amit Kumar Ghosh, SA(C) will be attending the aforesaid programme as official delegate and to make spot payment as Collaborative academic assistance against receipt of relevant documents, vouchers, bills etc. (original) in accordance with the Survey's terms and condition .

Yours faithfully,

(SUBRATA MAJUMDAR)
DRAWING AND DISBURSING OFFICER

आदान एवं प्रदान अधिकारी
Drawing & Disbursing Officer
भारतीय मानव... सर्वेक्षण
Anthropologi... Survey of Ind...
भारत सरक... Govt. of Indi...
27, जवा... नेहरु रोड
27, Jaw... Nehru Road
को... 700016

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VISVA- BHARATI
SANTINIKETAN
ACADEMIC AND RESEARCH

Dated: 26.02.2020

Aca./R-6.3/197 /2019-2020

Prof. Prasanta Kumar Ghosh
Principal Investigator
Memo No. 01/NCLP/Birbhum/2020
Department of Social Work
Palli Samgathana Vibhaga,
Visva-Barati

Subject: Administrative approval for the Project "Child Labour Survey in the District of Birbhum".

This is to inform you that your proposal for administrative approval of "**Child Labour Survey in the District of Birbhum**" during the period from **February,2020 to April,2020** has been approved by the University Administration.

The said expenditure amounting Rs.4,00,000/-(Rupees Four Lakh only) may be met out of the budget head "Asstt. Labour Commissioner, Govt. of W. B. of the said project, subject to availability of fund.

Sd/-
Joint Registrar
(Academic & Research)
Visva-Bharati

No. Aca.R-6.3/197-/2019-2020 Dated:26.02.2020

Copy forwarded for information and necessary action to:

1. The Adhyaksha,Palli Samgathana Vibhaga, V.B.
2. The Head, Department of Social Work, V.B.
3. The Accounts Officer, V.B.,
4. The Finance Officer,V.B
5. The Internal Audit Officer, Visva-Bharati
6. University Webmaster-to upload it in the University Website
7. Guard file

Joint Registrar
(Academic & Research)
Visva-Bharati

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Kendra Kode - 6213

नेहरु युवा केन्द्र बीरभूम
NEHRU YUVA KENDRA BIRBHUM

Together Towards Tomorrow...

जिला कार्यालय
नेहरु युवा केन्द्र संगठन
युवा कार्यक्रम और खेल मंत्रालय
भारत सरकार

District Office of the
Nehru Yuva Kendra Sangathan
Ministry of Youth Affairs and Sports
Government of India

Ref-No:NYK/Birbhum/2018-19/284

Date : 22.02.2019

To
Sh.Ashoke Sarkar - Principal
Dept of Social Work , Visvabharati, Bolpur .

Sub : Training for Youth Leadership & Community Development (TYLCD) Prog. regarding.

Madam ,

I like to inform you that as per Direction of State Director, NYKS, Kolkata vide letter no.1106/WBZ/tylcd/2018-19 dt. 12.2.19 on the subject mentioned above (Xerox copy enclosed). As per the discussion with you on 20.02.2019 we are ready to organize the said prog. Accordingly this office is going to organize the Training for Youth Leadership & Community Development (TYLCD) Prog. From 5th March to 7th March 2019 in your campus in collaboration with you. This office will provide 40 youth for the said residential training programme. Accordingly you are requested to take necessary steps (Boarding & Lodging , Academic sessions, Resource persons etc). The necessary payment will be made according to the rule.

This is for your information and necessary action.

Thanking you for your cooperation.

Sincerely Yours ,

Dist. Youth Coordinator,
NYK, Suri, Birbhum

District Youth Coordinator
Nehru Yuva Kendra
BIRBHUM

जिला कार्यालय : हाटजन बाजार, सिउड़ी, बीरभूम, पिन- ७३१२०८
District Office : Hatjanbazar, Suri, Birbhum, West Bengal, PIN-731202
मन्डल कार्यालय : कोलकाता, पश्चिम बंगाल, Zonal Office: NYKS, 512 VIP Nagar, Kolkata , West Bengal

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12.02.2018

Ref. No. : 1106 /WBZ/tylcd/2018-19

To
The District Youth Coordinator
Nehru Yuva Kendra
BARASAT/DURGAPUR/BIRBHUM

Sub: Propose for organizing the TYLCD...reg.

Sir,
We are proposed to organize the TYLCD at the following Government venue, so DYC of the said district are here by directed to close liaison with the authority of the training institute for organizing the TYLCD smoothly within the stipulated time. Details are given below.

S.No.	Training Institute	Participating District	Coordinating District	Liaison with
01	ICAR-Central Inland Fisheries Research Institute	Barasat, Baruipur, Kolkata (N), Hooghly, Diamond Harbour and Kolkata (S)	DYC, NYK-Barasat	Director, ICAR Central Inland Research Institute
02	National Institute of Technology (NIT)-Durgapur	Midnapur (W), Purulia, Bankura, Durgapur, Midnapur (E), Raghunathpur	DYC, NYK-Durgapur	Director, NIT-Durgapur Srikrishna Roy, Programme Coordinator, NSS, NIT-Durgapur
03	Visvabharati, Sriniketan, Durgapur	Birbhum, Malda, Nadia	DYC, NYK-Birbhum	HOD, Dept. Of Social Work, Visvabharati Dr. Sasmita Patel, Coordinator, Field Work, Dept. Of Social Work, Visvabharati Mr Prasenjit Saha, Dy. Dean, Student Welfare, Visvabharati

DYC of all participant districts are here by requested to close liaison with the Coordinating DYC of the TYLCD Programme for further information.

Thanking you

Yours sincerely

Nabin Kumar Naik 12/2/2018
State Director

CC : All Participating Distric

NYK NO Date
Birbhum 155 15/02/18
IN ...
Out ...

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List of Resource Persons

SL NO	RESOURCE PERSONS	CONTACTS
1.	Mr.Madhav Ranjan Sengupta	Coordinator CHILDLINE-EICS, Santiniketan madhabranjan@gmail.com
2.	Mr.Sudhin Saha	Councellor-Bolpur Sub divisional Hospital sudhinsaha@gmail.com
3.	Prof. P.K.Ghosh	Professor, Department of Social Work, Visva-Bharati Prasanta1958@gmail.com
4.	Mr.Indranil Sarkar	Member-Shanti Trust, Santiniketan indranilsaka@gmail.com
5.	Dr.Nityananda Roy	Development Consultant nityaroy1966@rediffmail.com
6.	Mr.Manoj Kumar Biswas	Field Organiser, Department of Social Work Visva-Bharati manojkumar.biswas@visva-bharati.ac.in
7.	Dr.Debasree Ghosh	District Consultant NPPCF-Birbhum, Department of Health & Family Welfare dishaa21@gmail.com. cmohbirbhum@gmail.com
8.	Mr.Nirupam Sinha	District Child Protection Officer Birbhum
9.	Mr.Subrata Das	Fitness Trainer, Santiniketan subratamsw@gmail.com

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Three Days Training on Youth Development and Community Development

Organised By: Nehru Yuba Kendra Sangathan, Birbhum, Ministry of Youth Affairs & Sports, Government of India in Collaboration with Department of Social Work Visva-Bharati, Sriniketan

Training Schedule
5th March, 2019-7th March, 2019

Day-1	Session	Resource Person
9.00am - 10.00am	Registration	
10.00am-11.00am	Inaugural Session • Inaugural Speech by DYC, NYK, Birbhum. • Speech by Principal, PSV, Visva-Bharati. • Speech by Head, Department of Social Work, Visva-Bharati.	DYC,NYK, Birbhum
	Introductory Activities	
11.00am-11.20am	Knowing Each Other	DYC,NYK, Birbhum
11.20am-11.30am	Tea Break	
11.30am-12.00 noon	Objectives of Three Days Training Program	DYC,NYK, Birbhum
12.00noon-12.10pm	Establishing Ground Rules of the Training Program	DYC,NYK, Birbhum
12.10pm-1.00pm	Significance of Youth Organisation in India	Mr.Madhav Ranjan Sengupta
1.00pm-2.00pm	Lunch Break	
2.00pm-3.45pm	Communication Skills	Mr.Indranil Sarkar
3.45pm-4.00pm	Tea Break	
4.00pm-5.00pm	Life Skills	Mr.Indranil Sarkar

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Day-2	Session	Resource Person
9.00am-9.30am	Recap of Pervious Day	DYC,NYK, Birbhum
9.30am-11.15am	Concept of Leadership and Role of a Leader	Prof. P.K.Ghosh
11.15am-11.30am	Tea Break	
11.30am-1.00pm	Leadership Skills	Prof. P.K.Ghosh
1.00pm-2.00pm	Lunch Break	
2.00pm-3.45pm	Personality Development	Dr.Nityananda Roy
3.45pm-4.00pm	Computer and Social Media Skills	Dr.Nityananda Roy
4.00pm-5.00pm	Information regarding on-going Government Schemes for Youth Development	Mr.Sudhin Saha

Day-3	Session	Resource Person
9.00am-9.30am	Recap of Pervious Day	DYC,NYK, Birbhum
9.30am-11.15am	Programme Management	Mr.Manoj Kumar Biswas
11.15am-11.30am	Tea Break	
11.30am-1.00pm	Health Risks among Youth in India	Dr.Debasree Ghosh
1.00pm-2.00pm	Lunch Break	
2.00pm-3.45pm	Good Responsible Citizenship	Mr.Nirupam Sinha
3.45pm-4.00pm	Employability Skill	Mr.Nirupam Sinha
4.00pm-5.00pm	Yoga as Way of Life	Mr.Subrata Das

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National Seminar

on

Contextualising Conflict, its Resolution and Peace-Building Initiatives in India

March 04-05, 2017

Jointly Organised

by

Department of Social Work
Visva-Bharati, Sriniketan,
Birbhum, West Bangal,
PIN-731236

North East Institute of Social
Science & Research (NEISSR),
Bishop's House, Dimapur,
Nagaland-797112

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VISVA-BHARATI
SANTINIKETAN

Ref.No.Admn./G/S.4.1/816

Date: 12.11.2016

समाज कार्य विभाग
DEPARTMENT OF SOCIAL WORK
विश्वभारती, श्रीनिकेतन
VISVA-BHARATI, SRINIKETAN
डकेट संख्या / DOCKET NO. 287
तिथि / DATE 22.11.16

Prof. Asok Kumar Sarkar
Convenor of the National Seminar
Deptt. of Social Work.
Visva-Bharati

Sub: Administrative approval for organizing a Two-Day National Seminar

Ref.: Your letter dated 06.10.2016 addressed to Registrar, Visva-Bharati

With reference to the above, the undersigned is directed to convey that the Upacharya has been pleased to accord administrative approval to your proposal for organizing a two-day national seminar on "Voluntarism, Conflict Mitigation and Peace Building Initiatives" on and from 04.03.2017 to 05.03.2017 in collaboration with National Foundation for Communal Harmony at the Department of Social Work, Visva-Bharati.

Joint Registrar (Administration)
Visva-Bharati

Copy to:

1. Principal, Palli Samgathana Vibhaga
2. Head, Department of Social Work
3. Chief Medical Officer, P.M.Hospital
4. C.S to Vice-Chancellor
5. Assistant Registrar, Office of the Pro-Vice-Chancellor
6. Chief Security Officer
7. P.A to the Registrar

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13.2.17

Received on 5.55 P.M

डॉकेट एवं प्रेषण
साधारण विभाग
विश्वभारती
सं. 1A/1152 दिनांक
DOCKET & DESPATCH
GENERAL SECTION
VISVA-BHARATI
No. 1A/1152 Date. 16/01/17

Office of the Registrar
Visva-Bharati
Docket No. 413 Date 24-1-17

Date: 013.01.2017

डॉकेट संख्या-1/कुलपति
DCT NO.-1/VC/ 344
09 FEB 2017
कुलपति का कार्यालय
विश्वभारती
VICE CHANCELLOR'S OFFICE
VISVA-BHARATI

To
The Registrar,
Visva-Bharati,
Santiniketan- 731235.

Through proper Channel

Subject: Minor change in the title of the national seminar

Dear Sir,

We have proposed a national seminar during 04-05March, 2017. In this regard, we have taken approval from our university (copy enclosed). While wrote the concept note and developed seminar brochure, minor change has been made in the title. Now the title of the seminar is **"Contextualizing Conflict, its Resolution and Peace-Building Initiatives in India" and** the final brochure of this seminar has been uploaded on the Visva-Bharati website. This is for your kind information and necessary action.

Thanking You

Yours sincerely,

Head, Department of Social Work,
Visva Bharati, Sriniketan-731236.

Sankar Majumdar 13.1.17
Principal
Palli Samgathana Vibhaga
Visva-Bharati, Sriniketan

Forwarded
13/1/17

Director
Studies, Educational Innovation &
Rural Reconstruction
Visva-Bharati

Available re
For kind approval
7/2/17

H.O.D., Social work

10.2.17

~~JR (Exam)~~ AR (Ac. & Re.

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Programme Schedule

National Seminar
On
"Contextualising Conflict, Its Resolution and Peace Building Initiatives In India"
Organized By
Department of Social Work, Visva-Bharati, Sriniketan
and
North East Institute of Social Science and Research
Date: March 4th - 5th, 2017

Day 1: March 4, 2017

Venue for Registration and Inauguration: P.S.B. Community Hall

8:30-9:30 AM: Welcome and Registration

9:30-11:00 AM: Seminar Inauguration

Inaugural Song
Lighting Lamp
Introductory Note by the Convener- Prof. Asok Kumar Sarkar
Welcome Address by the Head of the Department- Prof. Prasanta Kumar Ghosh
Address by the Dignitaries on the Dias
Inaugural Address by the Honourable Vice-Chancellor, Visva-Bharati
Speech of the Keynote Speaker- Prof. Virginius Xaxa
Book Release
Vote of Thanks

11:00-11:30 AM- Tea Break

11:30 AM- 1:00 PM - Panel Session 1

Venue for Panel Session 1: P.S.B Community Hall
Chairperson: Prof. Amit Hazra

Sl. No	Presenter	Title
1.	C. P. Anto	Peace Channel: A Model for Conflict Transformation and Promotion of Universal Peace
2.	Goutam Ghosal	Sri Aurobindo: Cultivation of Inner and Outer Peace
3.	Kalpana Sarathy	Protracted Conflict in Manipur: What Happens to People's Mental Health?
4.	Sib Ranjan Misra	Interrogating Conflicts and their Resolution: A Case of North-East India

1:00- 2:00 PM- Lunch Break

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2:00-2:30 PM- Photo Session

2:30-4:30 PM - Presentation of Papers in Parallel Sessions

Parallel Session 1

Date: 04/03/2017 **Time: 2:30 PM to 4:30 PM**

Venue: Department of Social Work, Room No: 1
Chair Person: Prof. Kanu Charan Sahoo
Theme: Good Governance for Peace and Peace Building Education

Sl. No.	Presenter	Title
1	Abu Sayeed Miah & Pradip Debnath	Yoga: A Strong Tool for Peace Education
2	Avisek Paul	Role of Education in Conflict Management for Peace Building: An Overview
3	Indranil Sarkar	Introspection towards Peace Building: A Comparative View in the Context of Moral Value in Primary Education System of India and Japan
4	Sanchita Dasgupta	Under the Dark Sky: An Invocation to Peace
5	Umakant Prasad	Role of Education in Peace-Building
6	Manoj Kumar Biswas	Indigenous Self-Governance System and Peace-Building Actions
7	Suhas Ghosh & Subhrangsu Santra	Good Governance for Conflict Resolution and Peace-Building: A Study in different Panchayat Samities in Birbhum District of West Bengal

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Parallel Session 2

Date: 04/03/2017 Time: 2:30 PM to 4:30 PM

Venue: Department of Social Work, Room No: 2

Chair Person: Prof. Kalpana Sarathi

Theme: Peace Building Initiatives through FBOs, CBOs, NGOs and INGOs

Sl. No.	Presenter	Title
1	Amitava Dutta & Aritri Pal	Role of Shalishi-Sabha (Traditional Local Body) for Bringing Peace in Villages of Sagardwip, Sunderban
2	Moumita Laha	NGOs in Peace Building: Exploring the Scope of Rights Based Approach
3	Paramita Roy	Conflict Resolution and Civil Society: A Theoretical Exploration
4	Subhashree Sanyal	"Whose River Is It Anyway?" Exploring the Role of NGOs in Mitigation and Peace-Building of River Water Disputes in India
5	Sudeshna Saha & Neelmani Jaysawal	Role of Corporate Social Responsibility in Peace-Building
6	Tulshi Kumar Das	Democracy, Civil Society and the Status of Minority: A Case of Bangladesh
7	Toli H. Kiba	Women as Peacemakers in the Community: A Study on Sümi Mother's Association (SMA)

Parallel Session 3

Date: 04/03/2017 **Time: 2:30 PM to 4:30 PM**

Venue: Department of Social Work, Room No: 3

Chair Person: Prof. Prasanta Kumar Ghosh

Theme: Access to Service in the Context of Conflict (Education, Health, Livelihood, Communication) and Issues of Human Rights

Sl. No.	Presenter	Title
1	Ashutosh Kundu	Access to Services in the Context of Conflict: Education, Health, Livelihood and Communication
2	Parthasarathi Giri	Conflicts and Peace Building in India: A Simulation in Emergency Health Care System
3	Pintu Dewasi & Bikash Saha	Sarva Shiksha Abhiyan (SSA) –A Positive Attempt to Achieve Human Rights
4	Sasmita Patel	Educational Rights of Children in the Civil Strife affected Zones: Challenges and Way Forward
5	Aditi Bhowmick & Kuntal Chattopadhyay	Demonetization and Human Rights: A Look at the Other Side of the Coin

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6	Partha Pratim Paul	Rules of International Humanitarian Law and its Relevance in Conflict Zones in India
7	Somdatta Neogi	Perpetuating Struggle of Human Rights to Combat Conflict

Date: 04/03/2017

Parallel Session 4

Venue: Department of Social Work, Room No: 4 **Time: 2:30 PM to 4:30 PM**

Chair Person: Prof. Pratibha J. Mishra

Theme: Philosophy, Practice of Violence and Peace

Sl. No.	Presenter	Title
1	Rekha Ojha	Peace from Thinking to Practicing: A Philosophical Reflection
2	Rima Ghosh	Political Philosophy of Sri Aurobindo and Emergence of Global Peace: Beyond "the Little Ego"
3	Indrani Ghatak	Marital Conflict leads to Domestic Violence: A Study in Durgapur, West Bengal
4	Madhumita Banerjee	Intrinsically Conflictual! Social Outlook towards Women in Indian Politics
5	Nanigopal Debnath & Rajesh Chatterjee	Ethnic violence, Displacement and Social Exclusion: A Study on North East India with Special Reference to Tripura
6	Muhammad Ala Uddin	Continuing Conflict: Critical Transition to Peace in the Post-Conflict Chittagong Hill Tracts (CHT), Bangladesh
7	Rupa Biswas	Conflict and Violence in Marital Relationship: A Study on Law Enforcing Machineries

6:00 PM -Cultural Programme

8:00 PM – Dinner

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Programme Schedule

National Seminar
On
"Contextualising Conflict, Its Resolution and Peace Building Initiatives In India"
Organized By
Department of Social Work, Visva-Bharati, Sriniketan
and
North East Institute of Social Science and Research
Date: March 4th - 5th, 2017

Day 2: March 5, 2017

9:30 AM- 11:00 PM - Panel Session 2

Venue for Panel Session 2: P.S.B Community Hall
Chairperson: Prof. Kumkum Bhattacharya

Sl. No	Presenter	Title
1.	Amitava Dutta	Shalishi-Sabha (Traditional Local-Body): A Peacemaking Institution for the Villagers of Sagardwip, Sunderban
2.	Debasis Poddar	Conflict and the Law: At the Crossroads of a Bizarre Paradox
3.	Hari Charan Behera	The Nature of Land related Conflicts in Post-Colonial India
4.	R.R.Patil	Caste Conflict and Instrumentalities of Civil Society in Conflict Resolution in Gujarat

11:00-11:30 AM- Tea Break

11:30 AM-1:30 PM - Presentation of Papers in Parallel Sessions

Parallel Session 5

Date: 05/03/2017 **Time: 11:30 AM to 1:30 PM**
Venue: Department of Social Work, Room No: 1
Chair Person: Prof. Tulshi Kumar Das
Theme: Culture, Tradition and Peace Building

Sl No.	Presenter	Title
1	Debarati Sarkar, Rashmi Jha & Somdatta Neogi	Salvaging Culture against Conflict: An Attempt to uphold the Heritage of India
2	Pranami Buragohain & Bhaskar Saikia	Language as a Factor of Unification/Conflicts in Context of Assamese Language
3	Sarita Anand	Culture, Tradition and Peace-Building: A Case Study of Banaras
4	Shaswati Pan	Culture, Tradition and Peace Building

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5	Rimi Ghosh Dastidar & Sibansu Mukhopadhyay	Competitive Ethnicity, Linguistic Coordination and Order of Violence
6	Tripti Debnath, Srenwantee Bhattacharya & Aruna Singh	Hidden Links between Women, War and Conflict: A Study of Indian History and Mythology
7	Pratibha J Mishra & Nadia Ahad	Peace Building with Social Work Education

Date: 05/03/2017

Parallel Session 6

Time: 11:30 AM to 1:30 PM

Venue: Department of Social Work, Room No: 2

Chair Person: Prof. Debashis Sarkar

Theme: Environment and Peace Building

Sl. No.	Presenter	Title
1	Anupam Rajak & SK. Samsul Alan	Identifying the Elements of Peace in Educational Environment
2	Khabirul Alam & Ujjwal Kumar Halder	A Pioneer of Environmental Movements in India: Bishnoi Movement
3	Samriddhi	Environmental Degradation: A Cause for Intra-Inter Boundary Conflicts
4	K. Umadevi & Jose Antony	Dialoguing Environmental Peace through Anti- Dam Movements: Case Study of Chalakkudi River Basin, Kerala
5	K. Umadevi	Peaceful Living and Sustainable Development in the Context of Ecological Degradation and Conflicts
6	Bapi Mishra	Environmental Friendliness: An Approach of Peace Building for Humanity
7	Hari Charan Behera & Ashish Aman Sinha	Natural Resource, and Conflict in Scheduled Areas

Parallel Session 7

Date: 05/03/2017

Time: 11:30 AM to 1:30 PM

Venue: Department of Social Work, Room No:3

Chair Person: Prof. Debotosh Sinha

Theme: Issues of Resilience, Self-Regulation, Coping and Mental Health in Conflict Resolution

Sl. No.	Presenter	Title
1	Alapan Ghosh	Peace through Accountability

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2	Paromita Das	Self-Regulation in Everyday Life- A Harbinger of Peace
3	Soumi Mandal	Resilience in Conflict Resolution: A Study on Socio-economically Disadvantaged Children of Odisha
4	Angshu Jajodia	Conflict and Impact on Mental Health – A Discussion
5	Arpan Bag	Communal Violence and Psycho-social Experiences: The Khaki Angle
6	Sujata Mukhopadhyay	"Cultivating" Consciousness: Symbolic vs. Subjective Representation of Conflicts in Television News and its acceptability to Mass Audiences
7	Pallabi Paul	Child Labour and Violation of Rights in West Bengal

Parallel Session 8

Date: 05/03/2017 **Time: 11:30 AM to 1:30 PM**

Venue: Department of Social Work, Room No: 4

Chair Person: Prof. Md Ala Uddin

Theme: Ethnicity and Conflict

Sl. No.	Presenter	Title
1	Chayanika Borah & Dipendra Kumar Khanal	Ethnicity, Conflict and Population Displacement in Assam: A Study of Bodo-Muslim Conflicts in Assam
2	Kriti Raj Rai	The Impact of Ethno-Political Conflict on the Lives of Children: A Case Study of the 2012 conflict in Kokrajhar, Assam
3	Rajesh Kumar Ekka	Development and Tribal Conflict: A Case Study of Buchukupara Gram Panchayat, Sundergarh District
4	Subarna Moni Pradhan	Kanglaipak to Manipur: Constraints and Conflict
5	Thasleem MP	Children and Armed Conflict in Kashmir
6	Sukumar Pal & Prajnalankar Bhikkhu	Mapping Caste Based Conflicts in India and Its Resolution
7	Meghadeepa Chakraborty	Hydropower Development Plans and Livelihood Conflict In the context of Northeast, India

1:30 – 2:30 PM- Lunch Break

2:30 – 3:30 PM Seminar Summation and Valedictory Session

Presentation of Seminar Report
Words from the Dignitaries on the Dias
Valedictory Address
Vote of Thanks

3:30 PM – Collection of Certificate from the Help Desk and Departure

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BLOOMING DALE ACADEMY
(HIGH SCHOOL)
Govt. Recognized – Index No. : A3216
459 Madurdaha, Kalikapur, Kolkata 700107
(Near Prince Anwar Shah & Bye Pass Crossing)
Phone numbers : 98307 48732, 98311 77138

Report of the Seminar/workshop "Let No Child Be Excluded "held on 24th November 2018 at Department of Social Work, Visva Bharati, Sriniketan.

A seminar/workshop was held at Department of Social Work, Visva Bharati, Sriiketan which was attended by Neurologists from Neurogen Brain and Spine Institute-Mumbai on the initiative of Blooming Dale Academy (High School).

The seminar/workshop was organized by the Department of Social Work, Visva Bharati University. The participants were the students and the faculty of the Department of Social Work, Visva Bharati University.

The main purpose of the seminar/workshop was to offer free neurological checkup of the children with special needs residing in the vicinity. Around 50 children with their parents came for the check-up.

A presentation was given by Dr. Nandini Gokulchandran, Deputy Director of Neurogen Brain and Spine Institute- Mumbai on Stem Cell Therapy and its efficacy in case of children with special needs; specially the autistic children.

Blooming Dale Academy (High School) organized a display of learning materials which would make reaching out to children with intellectual difficulties easier. This display was much appreciated.

The program was inaugurated by Smt. Kumkum Bhattacharya, Prof. & Head of Department of Social Work and the introductory speech on the program emphasizing on the social integration of such children was delivered by Mrs. Pradipta Kanungo, Principal of Blooming Dale Academy(High School).

The workshop/seminar was followed by lunch; Joined by all the participants, faculty, doctors and the representatives of Blooming Dale Academy (High School).

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ईस्टर्नकोलफील्ड्सलिमिटेड
(कोल इंडिया का एक अभिन्न अंग)
अध्यक्ष-सह-प्रबंध निदेशक का कार्यालय
सांकतोड़िया, पत्रालय -डिसेरगढ़,
जिला -पश्चिम बर्धमान, पश्चिम बंगाल713333-
अधिकारी स्थापना विभाग
सी .आइ .एन -.U10101WB1975GOI030295
वेबसाइट -www.easterncoal.nic.in

EASTERN COALFIELDS LIMITED
(A subsidiary of Coal India Limited)
Office of the Chairman-cum-Managing Director
Sanctoria, P.O.: Dishergarh,
Dist.-Paschim Bardhman, West Bengal-713333
Executive Establishment Departmen
CIN-U10101WB1975GOI030295
Website- www.easterncoal.nic.in

Ref No. ECL/C-5(D)/Misc/EE/2865

Dated: 05/12/2018

To
Head Of the Department,
Department of Social Work
VISVA-BHARATI

Sub: Visit of Director (Personnel), Eastern Coalfields Limited to Shantiniketan on 08.12.2018.

Respected Madam,

Our Director(Personnel), Sri Vinay Ranjan is visiting Shantiniketan on 08.12.2018 in a get together of all Personnel Executives of Eastern Coalfields Limited.

On behalf of Alumni Association of Department of Social work, Sriniketan, VISVA-BHARATI, I personaly requested Sri Vinay Ranjan Sir to enrich all of us and the Faculties, students of Departments of Social Work, Sriniketan by sharing his vast knowledge and experiences both in private and Public Sectors in India.

Sri Vinay Ranjan,Director(Personnel),ECL has kindly consented to have an interactive session with faculties and students of department of Social Work, VISVA-BHARATI on his favourite topic 'SUCCESS MANTRA' on 08.12.2018, Saturday at 04.00 p.m. The session will be One (01) hour duration. Introduction of Director(Personnel), Eastern Coalfields Limited is attached herewith to be read out at the time of his introduction in the seminar.

You are requested to kindly arrange a seminar hall in the Department of Social Work, Chipkuthi, Sriniketan.

A line of confirmation through mail will be highly appreciated.

Yours faithfully

5/12/2018

(R.H Khanchowdhury)
Sr.Manager(P/EE)

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EASTERN COALFIELDS LIMITED
(A Subsidiary of Coal India Limited)
Sanctoria, P.O. Dishergarh,
Dist. Paschim Bardhaman, State-W.B, India
Ph.No-0341-2523795. Fax – 0341-2523906
CIN-U10101WB1975GOI030295.
E-mail – dp.ecl.cil@coalindia.in

Introduction of Director (Personnel),EASTERN COALFIELDS LIMITED

Shri Vinay Ranjan joined ECL as Director (Personnel) on 16th August 2018. He is born & brought up from Asansol with CH Kalla as his birth place. His initial Schooling was at Dhanbad & higher education at Patna. His expertize as a HR professional includes hiring, Talent Management, Performance management, Bench Marking, Branding, Change Management, Employee relation, HRIS, organizational culture. His career includes VSNL, Tata communication, before joining ECL he was head of HR, DB Power Ltd at Mumbai.

He has also successfully extended HR support to overseas business entities. He was also part of two full life cycle SAP HR implementation. He lead the team for full life cycle SAP HR implementation at TATA Communication (Erstwhile VSNL), where he Led the 8 member team consisting from VSNL HR and TCS for the implementation of entire SAP HCM module. He was also part of the Tata Teleservices (TTSL) SAP HR implementation team on deputation from VSNL.

He is impactful leader with the ability to develop and lead efficient and highly productive workforce. He has excellent stakeholder's management skills and has been, working directly with promoters for over 6 years. He is recognized for integrity and commitment High level of service delivery & execution. He also possesses Strong interpersonal, communication and negotiation skills.

As an individual he is mixable, down to earth, compassionate, open minded, clear hearted & keeps employees welfare/hygiene in the top of his agenda.

Now Sri Vinay Ranjan will enrich all of us by sharing his vast knowledge and experience to the faculties and students of Department of Social Work, VISVA-BHARTATI University on his favorite topic "SUCCESS MANTRA"

5/12/2018

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राष्ट्रीय शैक्षिक योजना एवं प्रशासन संस्थान
(मानित विश्वविद्यालय)
17-बी, श्री अरविंद मार्ग, नई दिल्ली 110 016
NATIONAL INSTITUTE OF EDUCATIONAL PLANNING AND ADMINISTRATION
(Deemed to be University)
17-B, Sri Aurobindo Marg, New Delhi 110 016
EPABX 91-11-2656 5600, 2654 4800 Fax 91-11-2685 3041, 2686 5180
E-mail nuepa@nuepa.org Website www.nuepa.org

Dr. Sudhanshu Bhushan,
Head, Dept, of Higher & Professional Education, and
Head, National Resource Centre for Education (NRCE)

F.No. 39/DHPE/NRCE/2018
31 July 2018

Dear Professor Sen,

I am glad to inform you that National Institute of Educational Planning and Administration has a plan to conduct Students Satisfaction Survey (SSS) under the scheme of National Resource Centre of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Ministry of Human Resource Development, Government of India. This is a national level initiative to study the student satisfaction. The objective of SSS is to understand teachers, colleges, teaching methods, governance and policy related issues from the perspective of student's well being, their satisfaction in academic experience and campus life.

I hope you will agree that this is an important initiative to move forward in the development of higher education institutions in India. Dr. Neelmani Jaysawal, Assistant Professor from Department of Social Work, Visva-Bharati University, Birbhum, had contributed in the development of Questionnaire on Students Satisfaction Survey in a Workshop held during 18-20 July, 2018 at NIEPA, New Delhi.

I request you to kindly designate Dr. Neelmani Jaysawal, as a Nodal Officer for the conduct of Students Satisfaction Survey. Your co-operation will help to bring student satisfaction at the center of higher education engagement, and thereby make you as part of the pioneer initiative.

With regards

Bhushan

(Sudhanshu Bhushan)

Professor Sabuj Koli Sen,
Vice Chancellor (Offg.)
Visva-Bharati University,
Birbhum,
West Bengal

Cc: Dr. Neelmani Jaysawal, Assistant Professor from Department of Social Work, Visva-Bharati University, Birbhum, West Bengal.

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राष्ट्रीय शैक्षिक योजना एवं प्रशासन संस्थान
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E-mail nuepa@nuepa.org Website www.nuepa.org

Dr. Sudhanshu Bhushan,
Head, Dept, of Higher & Professional Education, and
Head, National Resource Centre for Education (NRCE)

F.No. 39/DHPE/NRCE/2018
31 July 2018

Dear Smt. Ray,

I am glad to inform you that National Institute of Educational Planning and Administration has a plan to conduct Students Satisfaction Survey (SSS) under the scheme of National Resource Centre of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Ministry of Human Resource Development, Government of India. This is a national level initiative to study the student satisfaction. The objective of SSS is to understand teachers, colleges, teaching methods, governance and policy related issues from the perspective of student's well being, their satisfaction in academic experience and campus life.

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I request you to kindly designate Dr. Neelmani Jaysawal, as a Nodal Officer for the conduct of Students Satisfaction Survey. Your co-operation will help to bring student satisfaction at the center of higher education engagement, and thereby make you as part of the pioneer initiative.

With regards

Bhushan

(Sudhanshu Bhushan)

Smt. Madhumita Ray, IAS
Secretary,
Department of Higher Education,
6th Floor, Bikash Bhavan,
Salt Lake City,
Kolkata-700091

Cc: Dr. Neelmani Jaysawal, Assistant Professor from Department of Social Work, Visva-Bharati University, Birbhum, West Bengal.

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राष्ट्रीय शैक्षिक योजना एवं प्रशासन संस्थान
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E-mail nuepa@nuepa.org Website www.nuepa.org

Dr. Sudhanshu Bhushan,
Head, Dept, of Higher & Professional Education, and
Head, National Resource Centre for Education (NRCE)

F.No. 39/DHPE/NRCE/2018
31 July 2018

Dear Prof. Bhattacharya,

I am glad to inform you that National Institute of Educational Planning and Administration has a plan to conduct Students Satisfaction Survey (SSS) under the scheme of National Resource Centre of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Ministry of Human Resource Development, Government of India. This is a national level initiative to study the student satisfaction. The objective of SSS is to understand teachers, colleges, teaching methods, governance and policy related issues from the perspective of student's well being, their satisfaction in academic experience and campus life.

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I request you to kindly designate Dr. Neelmani Jaysawal, as a Nodal Officer for the conduct of Students Satisfaction Survey. Your co-operation will help to bring student satisfaction at the center of higher education engagement, and thereby make you as part of the pioneer initiative.

With regards

Bhushan

(Sudhanshu Bhushan)

Prof. Kumkum Bhattacharya,
Head of the Department of Social Work,
Visva-Bharati University,
Birbhum,
West Bengal

Cc: Dr. Neelmani Jaysawal, Assistant Professor from Department of Social Work, Visva-Bharati University, Birbhum, West Bengal.

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Gmail **Neelmani Jaysawal <neelmanijayswal@gmail.com>**

NRCE- Pilot Survey of SSS Questionnaire

Kumkum Bhattacharya <kmkm.bh@gmail.com> Fri, Aug 3, 2018 at 11:29 AM
To: NRCESSS NIEPA <nrcesss.niepa@gmail.com>, Neelmani jayswal <neelmanijayswal@gmail.com>

Dear Dr. Mathew,

Thank you for your mail. Dr. Neelmani Jayswal will be the Nodal Officer for the Department of Social Work, Visva-Bharati for conducting the Student Satisfaction Survey.

Kindly contact him and send the relevant survey materials to him.

Wish your work a success.

With best wishes,

Professor Kumkum Bhattacharya
Head, Department of Social Work, VB

On Thu, Aug 2, 2018 at 4:31 PM, NRCESSS NIEPA <nrcesss.niepa@gmail.com> wrote:

> Dear Madam/Sir,
>
> Attached please find our letter - from Dr. Sudhanshu Bhushan, addressed to you -- the Principals of Arts, Science and Commerce and Engineering Colleges, Director, Directorate of Higher/Collegiate Education, and Principal Secretary, Department of Higher Education of various state governments- regarding the NRCE initiated Student Satisfaction Survey to be undertaken in Higher Education Institutions --, Colleges and Universities across India. The letter is addressed to request you to designate the participants who attended the Workshop in NIEPA during 18-20 July, 2018. We would be grateful for your cooperation.
>
> Regards,
> A. Mathew,
> NRCE Team

--
Kumkum Bhattacharya
Professor and Head, Department of Social Work
Visva-Bharati, Sriniketan
West Bengal 731236
Ph: (office) 9434073319
Mobile: 9434016039

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From: "KongaGopikrishna Scientist C, DST, Min. of Science & Technology" <k.gopikrishna@nic.in>
Date: Sep 29, 2016 3:50 AM
Subject: BioCPV
To: "Prof. Shibani Chaudhury" <shibani.chaudhury@visva-bharati.ac.in>
Cc: "Prof. Srinivas K Reddy" <ksreddy@iitm.ac.in>, <pcghosh@iitb.ac.in>

Dr.KongaGopikrishna
Scientist – 'D'
Science for Equity Empowerment and Development Division
E – Mail: k.gopikrishna@nic.in; Phone: 011 – 26590298

DST/SEED/INDO-UK/002/2011 **29th September 2016**

Dear Madam/Sir

This has reference to your letter dated 23.05.2016 regarding reappropriation of grant under several heads, extension of tenure of the project, release of subsequent installment etc. "Development and Integration of Biomass, Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV". The competent authority has approved the following

1. Extension of the tenure of the project without any additional cost up to 09.01.2017.

2. Reappropriation of an amount of Rs.12,00,000/- from International Travel budget head to manpower and contingency budget head subject to the condition that the investigators certify that all the requirements for which the amount has been allocated under International Travel are fulfilled and no further allocation of the fund on this account shall be made in future.

3. Release of an amount of Rs.30,00,000/- as third installment of the grant to IIT Madras.

The competent authority has **not** agreed for purchase of new equipments and costs to meet CMC/AMC of equipment by VBU from capital grant. VBU should return the unspent balance under capital grant in the form of cheque or DD in favor of DDO,DST payable at New Delhi. The next installment to VBU will be released subject to the investigators/institute reporting interest on the unspent balances at the end of each financial year as per the condition laid down in the sanction orders of earlier released grants.

Kind Regards

Yours Sincerely
(KongaGopikrishna)

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F. No. DST/TMD/MI/OGMI/2018/14(C)

Received by post on 05/11/18

Government of India
Ministry of Science & Technology
Department of Science & Technology
(Technology Mission Division- Water and Clean Energy)

Technology Bhavan, New Delhi
Dated: 29/08/2018

Sanction order

Sub: - Financial support for project entitled "**Development, Research and Pilot Scale installation of Solar-Hydro Pumped Storage Scheme in a Remote Village of Assam to Ensure 24x7 Electricity**" by Dr. Shibani Chaudhury, Professor, Department of Environmental Studies, Institute of Science, Visva-Bharati University, (a central university) Santiniketan-731235.

In continuation of sanction of even No **DST/TMD/MI/OGMI/2018/14(G)** Dated: 28/08/2018, sanction of the President is also accorded to the initial release of **Rs. 1,79,82,500/- (Rupees One Crore seventy-nine lakhs eighty-two thousand five hundred only)** for implementation of the above mentioned project.

2. This sanction is subject to the condition that the grantee organisation will furnish to the Department of Science & technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

3. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

4. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

5. The grant-in-aid being released is subject to the condition that

(a) A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant.

(b) While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grant under the project shall be considered only on receipt of the said documents.

6. As per GFR rule 230(8), the grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2018-19 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India, immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project account.

7. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

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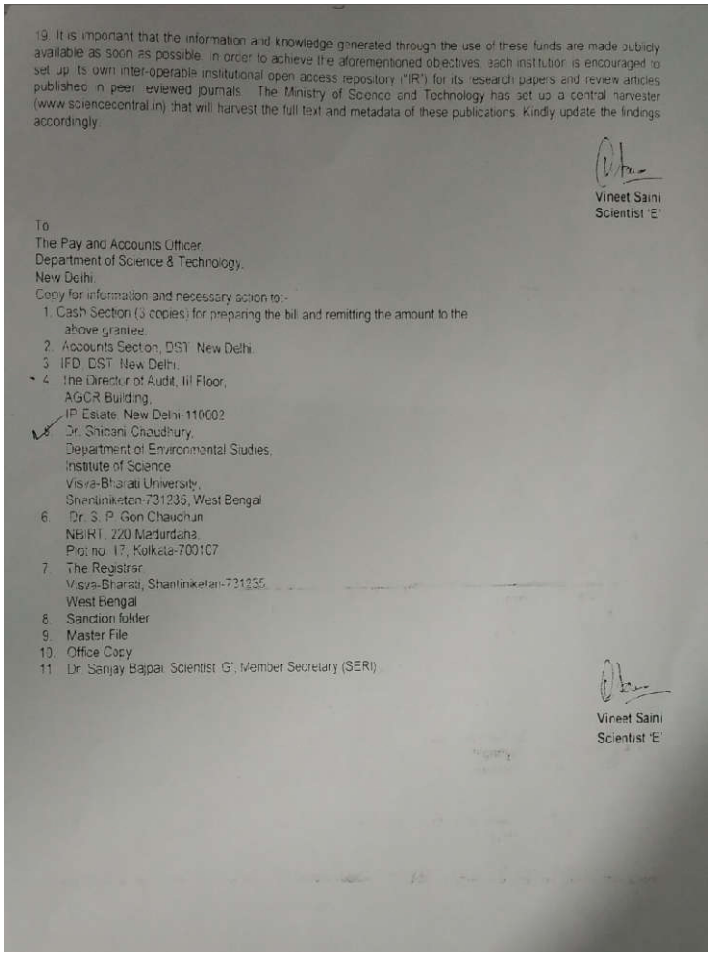

19. It is important that the information and knowledge generated through the use of these funds are made publicly available as soon as possible. In order to achieve the aforementioned obectives, each institution is encouraged to set up its own inter-operable institutional open access repository ("IR") for its research papers and review articles published in peer reviewed journals. The Ministry of Science and Technology has set up a central harvester (www.sciencecentral.in) that will harvest the full text and metadata of these publications. Kindly update the findings accordingly.

Vineet Saini
Scientist 'E'

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

Copy for information and necessary action to:-

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, DST, New Delhi.
4. The Director of Audit, III Floor, AGCR Building, IP Estate, New Delhi-110002
5. Dr. Shibani Chaudhury, Department of Environmental Studies, Institute of Science, Visva-Bharati University, Shantiniketan-731235, West Bengal
6. Dr. S. P. Gon Chauchuri, NBRT, 220 Maturdaha, Plot no. 17, Kolkata-700107
7. The Registrar, Visva-Bharati, Shantiniketan-731235, West Bengal
8. Sanction folder
9. Master File
10. Office Copy
11. Dr. Sanjay Bajpai, Scientist 'G', Member Secretary (SERI).

Vineet Saini
Scientist 'E'

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Visva-Bharati

Shibani Chaudhury <shibani.chaudhury@visva-bharati.ac.in>

Development ,Research & Pilot Scale Installation of Solar -Hydro Pumped Storage Scheme in a Remote Village of Assam to ensure 24x7 Electricity

3 messages

dhirendra tiwari <dtiwari368@gmail.com> Mon, Jun 3, 2019 at 4:30 PM
To: Shibani Chaudhury <shibani.chaudhury@visva-bharati.ac.in>
Cc: vineet.saini@nic.in

Dear, Prof, Shibani Chaudhury

Please refer your requisition for change of Project Site from Assam to Manipur due to various Safety & Security reasons.

The issue was discussed in the Review Meeting and thereafter in accordance of the Recommendations of the Committee, Competent authority of the Department has approved the request for Change of Project Site i.e. from Assam to Manipur.
Thus it is requested that expedite the activities of the Project so that Project may be completed with in stipulated period.

--
With warm regards,
Dhirendra Tiwari,
Scientist "B"', Technology Mission Division-
(Energy and Water),
Hall C, Room No.13
Department of Science and Technology (DST),
Ministry of Science and Technology ,Govt. of India ,
Technology Bhavan,New Mehrauli Road
New Delhi-110016
Ph:01126590622

Shibani Chaudhury <shibani.chaudhury@visva-bharati.ac.in> Thu, Jun 6, 2019 at 9:29 AM
To: dhirendra tiwari <dtiwari368@gmail.com>

Dear Dr. Tiwari,

Thank you so much for your email. We would try our best to complete the Project within the stipulated time.

Best wishes,

[Quoted text hidden]
--
Dr. Shibani Chaudhury
Professor and Head
Department of Environmental Studies
Siksha-Bhavana, Visva-Bharati
Santiniketan-731 235

Shibani Chaudhury <shibani.chaudhury@visva-bharati.ac.in> Thu, Jun 6, 2019 at 9:32 AM

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From: IBBEDEW - UKRI BBSRC [mailto:IBBEDW@bbsrc.ac.uk]
Sent: 08 November 2018 13:02
To: Andrew Ross [PRE] <A.B.Ross@leeds.ac.uk>
Subject: BBSRC IBBEDW Proposal Outcome
Importance: High

Dear Dr Ross

I am pleased to inform you that application BB/S011439/1 – 'BEFWAM-BIOENERGY, FERTILISER AND CLEAN WATER FROM INVASIVE AQUATIC MACROPHYTES' submitted to the 18IBBEDW Initiative has been successful. We are currently in the process of preparing the grants for announcement.

You must not commit any expenditure against the project until you have received the formal announcement documentation – this is the announcement documentation sent by UKSBS which includes the grant terms and conditions. Once you have received the announcement documentation and accepted the grant, you can begin recruitment (if required) and subsequently charge these recruitment costs to the grant once it starts. In general, a grant is deemed to have started when staff costs are first incurred. It may be the case that cuts have been applied by the Panel where insufficient justification was given, and as such details of the final award amount will not be known until the announcement documents have been prepared. Any costs incurred by you prior to the announcement date will be ineligible.

We will be working through the announcement process as quickly as possible. However, it will take us a few weeks to complete this process for all grants to be announced. Your patience during this time is very much appreciated.

Feedback will be provided to all applicants. This will be provided within three months of this email.

Please note that during the announcement process you will receive automated emails from UKSBS. If you require any further information, please email ibbedw@bbsrc.ukri.org

Best wishes,
Alex

Alexandra Winn
Peer Review Officer
+44 1793 413224 Alexandra.Winn@bbsrc.ukri.org

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www.ukri.org | @UKRI_News

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Department of English

Grace Thomas Kennedy Building [illegible]
Tel +1 803.535.5463 or 53[illegible]
Fax +1 803.535.5381

[illegible]

[illegible]

[illegible]

This Memorandum of Agreement [illegible] (hereafter referred to as Claflin) [illegible] Institution for the purpose of [illegible] Partnership 2020) of the Fiscal [illegible] amount of
$ 27,019.00.

WHEREAS Visva-Bharati University [illegible] importance located in Santiniketan, [illegible]

WHEREAS Claflin is a regional [illegible] dedicated to increasing the number of [illegible] and

WHEREAS it is of mutual benefit [illegible]

THEREFORE, the parties agree [illegible]

Project activities

1. Review of research, [illegible] practices and [illegible]
2. Develop two [illegible] families) and [illegible]
3. Set up a website [illegible] will also serve [illegible]
4. Set up a "Consortium [illegible] families in West [illegible]
5. Hold a conference [illegible] disseminate [illegible]
6. Work with Orangeburg County [illegible] prospects of a [illegible]

The start date of the project is May [illegible] No period extension will be permitted [illegible]

The Recipient shall carry out the [illegible] 26- Aug-2019, and any revisions [illegible] Recipient's proposal and any [illegible] by reference.

Department of English

Grace Thomas Kennedy Business and Communications Building
Tel +1 803.535.5463 or 535.5221
Fax +1 803.535.5381

Funding

Claflin shall be Visva-Bharati's University Sole Partner Institution regarding the implementation of Partnership 2020.

Disbursement of funds

Invoices from Visva-Bharati University will be due on the following dates:

July 1, 2020
August 1, 2020
September 1, 2020
October 1, 2020
November 1, 2020
December 1, 2020
January 2, 2021
February 1, 2021
March 1, 2021
April 1, 2021
May 1, 2021
June 1, 2021

Collaboration

Claflin University and Visva-Bharati University shall work collaboratively and providemodelsforsuccessfulpartnershipsbetweenUSandIndianuniversitiesby engaging state and local government, business, and civil society leaders in the academicpartnerships.

Reports

The Recipient is required to submit half-yearly performance and half-yearly financial reports.Allreportsmustbesignedandcertifiedbyanauthorizedrepresentativeofthe Recipient organization. All performance progress reports must indicate the Federal Award Identifying Number (FAIN), period of performance, reporting period end date, reportingfrequency(semi-annual,annual/final)andincludeadetailed description of programprogress.

Reports from Claflin University's partner institution are due at the end of a reporting period and in accordance with the schedule below:

Half-yearly report due on October 31, 2020

Department of English

Grace Thomas Kennedy Business and Communications Building
Tel +1 803.535.5463 or 535.5221
Fax +1 803.535.5381

Annual report due on April 30, 2021

A final program and financial report is due 90 calendar days after the period of performance end date. Failure to comply with these reporting requirements may jeopardize the Recipient's eligibility for future awards and/or delays in payments.

Effective Date and Duration

Claflin and Visva-Bharati University agree to the provisions of this Memorandum of Agreement as it relates to project activities and deliverables.

Noperiodextensionwillbepermittedbeyond 12/31/21.

The Recipient shall carry out the Agreement in accordance with its proposal dated: 26- Aug-2019, and any revisions to which both parties agree to in writing. The Recipient's proposal and any subsequent negotiated revisions are hereby incorporated by reference.

As noted above, the provisions of this Memorandum of Agreement are subject to change only after notification, agreement, and signatures of all parties in a new Memorandum of Agreement.

Harpal S. Grewal

Dr. Harpal Grewal, Professor of Economics and Finance English Department
07/12/20207/10/2020
Date

Mitali P. Wong

Dr. Mitali Wong, Professor and Chair
Date

Amit Kumar Hazra

Dr. Amit Kumar Hazra
Professor and Head
Department of Lifelong Learning and Extension, Visva-Bharati University
Visva-Bharati University Representative

Date 07/13/2020

3.7.1 **Collaborative Activities**

SANGIT BHAVANA (INSTITUTE OF MUSIC, DANCE & DRAMA)
Advanced Techniques of Analysis in Khyal Performance
Khyal: Music and Imagination
Student exchange visit
Film Project: Contributing artistes in the film "O Horizon" by The Otolith Group
Ten Day Workshop on Kathakali

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1. Advanced Techniques of Analysis in Khyal Performance 2015-2016

Durham University

Department of Music

Shaped by the past, creating the future

10 March 2016

To whom it may concern

Dr Ranjani Ramachandran visited the Music Department of Durham University, UK, from 17 February 2016 until 10 March 2016 with the support of a Charles Wallace India Trust scholarship. This visit gave me and colleague Prof. Martin Clayton the opportunity to further develop our collaboration with Dr Ramachandran in the study of khyal; our exchange and dialogue on our respective analytical methods culminated in a joint research seminar delivered on 8 March 2016 (title: "Analysing North Indian khyal performance") as part of the Music Department Guest Lectures Series, in which we presented the results' of Ranjani's work in Durham and the preliminary findings of the collaborative research we intend to pursue in the future.

As part of her research visit, Ranjani Ramachandran also performed on 23 February 2016 in a public recital as part of the Durham University "MUSICON" professional concert series: this performance – which feeds directly into our research collaboration – was enthusiastically received by participants and contributed to positively increase the visibility of North Indian classical music among audiences in the North East of England.

I also invited Dr Ramachandran to deliver a guest lecture on 29 February 2016 as part of the department level-3 undergraduate module "The Music of India": Ranjani engaged students in a highly stimulating dialogue which enriched the module and their learning experience in a unique way. Dr Ramachandran's interaction with our students, however, went beyond this: one particular example concerned an interview that she gave to a final year student writing a dissertation on vocal techniques – precious help much appreciated by us as well as the student.

In general, Dr Ranjani Ramachandran has greatly contributed to the Music Department's research environment throughout her stay in Durham, nourishing intellectual exchange both at formal research and didactic events and, informally, on a number of occasions.

It was a great pleasure to have Dr Ramachandran as visiting fellow at the Music Department, and we hope we will have another opportunity to welcome her in Durham again in the future.

Best Regards,

Dr Laura Leante
(Lecturer in Ethnomusicology)

Durham University Music School Palace Green Durham DH1 3RL
Telephone +44 (0)191 334 3140 Fax +44 (0)191 334 3141
www.durham.ac.uk/Music
Durham University is the trading name of the University of Durham

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Durham University

Department of Music

Shaped by the past, creating the future

10 March 2016

To whom it may concern

Dr Ranjani Ramachandran visited the Music Department of Durham University, UK, from 17 February 2016 until 10 March 2016 with the support of a Charles Wallace India Trust scholarship.

This visit gave us the opportunity to develop our ongoing collaboration on the study of khyal; the exchange and dialogue on our respective analytical methods culminated in a joint research seminar which we delivered on 8 March 2016 as part of the Music Department Guest Lectures Series. This seminar, entitled "Analysing North Indian khyal performance" presented the results' of Ranjani's work in Durham and the preliminary findings of the collaborative research we intend to further pursue in the future.

It was a great pleasure to have Dr Ramachandran as visiting fellow at the Music Department, and we hope we will have another opportunity to welcome her in Durham again in the future.

Best Regards,

Prof Martin Clayton
(Professor of Ethnomusicology)

Dr Laura Leante
(Lecturer in Ethnomusicology)

Durham University Music School Palace Green Durham DH1 3RL
Telephone +44 (0)191 334 3140 Fax +44 (0)191 334 3141
www.durham.ac.uk/Music
Durham University is the trading name of the University of Durham

https://www.dur.ac.uk/music/seminars/ramachandran/
https://www.dur.ac.uk/dialogue/signposts/staff/?itemno=27201

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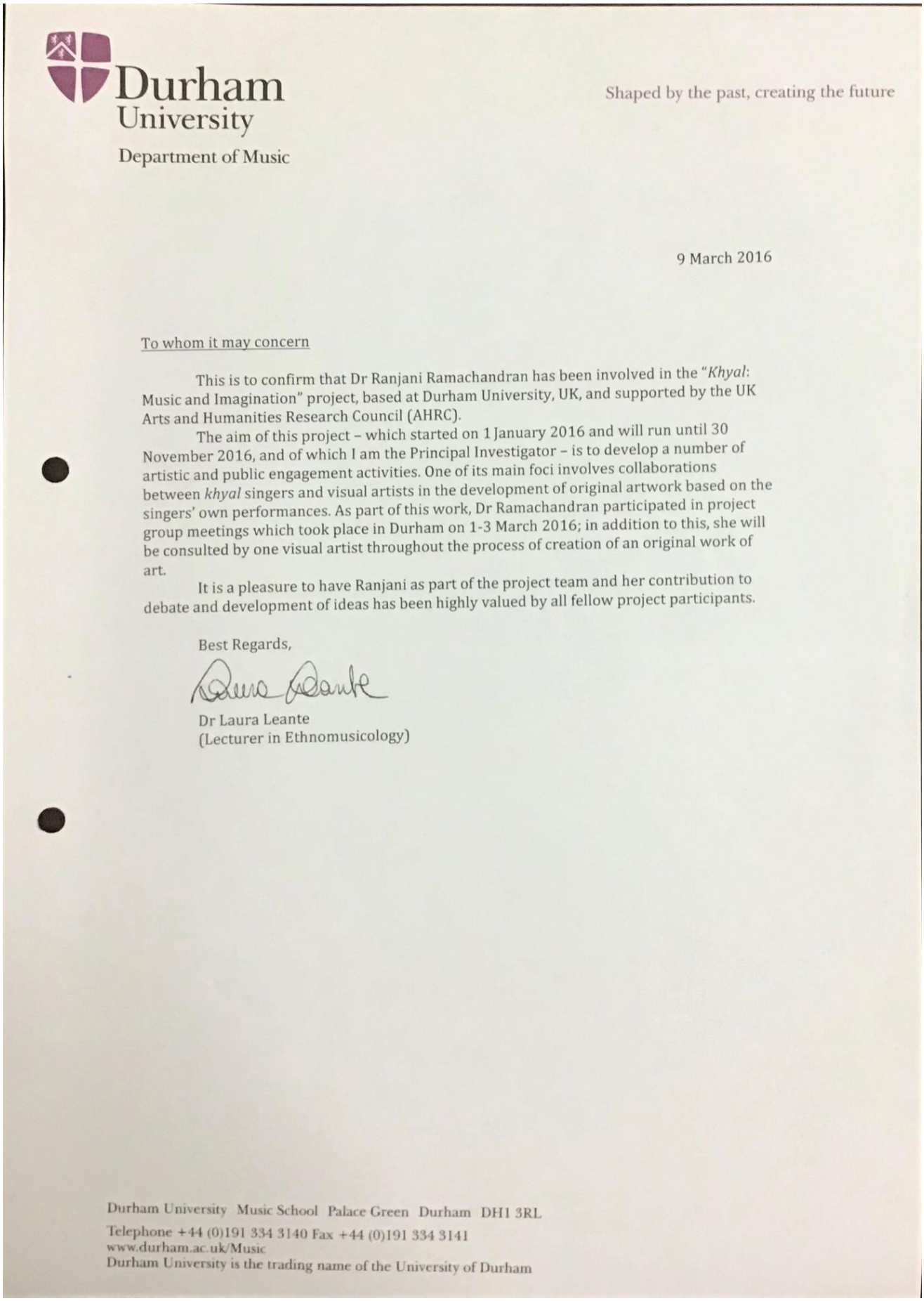
2. Khyal: Music and Imagination (2016-2017)



Durham University
Department of Music

Shaped by the past, creating the future

9 March 2016

To whom it may concern

This is to confirm that Dr Ranjani Ramachandran has been involved in the "*Khyal*: Music and Imagination" project, based at Durham University, UK, and supported by the UK Arts and Humanities Research Council (AHRC).

The aim of this project – which started on 1 January 2016 and will run until 30 November 2016, and of which I am the Principal Investigator – is to develop a number of artistic and public engagement activities. One of its main foci involves collaborations between *khyal* singers and visual artists in the development of original artwork based on the singers' own performances. As part of this work, Dr Ramachandran participated in project group meetings which took place in Durham on 1-3 March 2016; in addition to this, she will be consulted by one visual artist throughout the process of creation of an original work of art.

It is a pleasure to have Ranjani as part of the project team and her contribution to debate and development of ideas has been highly valued by all fellow project participants.

Best Regards,

Dr Laura Leante
(Lecturer in Ethnomusicology)

Durham University Music School Palace Green Durham DH1 3RL
Telephone +44 (0)191 334 3140 Fax +44 (0)191 334 3141
www.durham.ac.uk/Music
Durham University is the trading name of the University of Durham

https://www.dur.ac.uk/resources/music/163578_DU_KhyalMusicandImaginationBrochure_A428ppplus4ppcover_LowRes.pdf
https://www.dur.ac.uk/music/about/news/?itemno=28421&rehref=%2Fmusic%2F&resubj=Headlines
https://www.dur.ac.uk/music/khyal/

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Student exchange visit

संगीत-भवन
संगीत, नृत्य एवं नाट्य संस्थान
शांतिनिकेतन - ७३१२३५
पश्चिम बंगाल, भारत

Sangit-Bhavana
Institute of Music, Dance & Drama
Santiniketan-731235
West Bengal, India

विश्वभारती
VISVA-BHARATI
(A Central University)
संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731235
SANTINIKETAN - 731235
जि.बीरभूम, पश्चिम बंगाल, भारत
DIST. BIRBHUM, WEST BENGAL, INDIA
फोन Tel : +91-3463-262 751 to 262 756 (6 lines)
Extension : 312 / 364
फैक्स Fax : +91-3463-262 672 / 261
ई-मेल E-mail : principal.sgb@visva-bharati.ac.in
sangit312@gmail.com
Website : www.visva-bharati.ac.in

सं. / No._____

दिनांक / Date._____

TO WHOM IT MAY CONCERN

This is to certify that Dr. Ranjani Ramachandran, Assistant Professor, Department of Hindustani Classical Music at Sangit Bhavana, Visva Bharati successfully coordinated a visit for the students of Sangit Bhavana, Visva Bharati, to attend a one day lecture at the Satyajit Ray Film and Television Institute (SRFTI) in Kolkata on 22nd February 2017. A total of fifteen students from Sangit Bhavana, Visva Bharati attended a day long lecture on the "nuances of Sound and Recording", conducted by the faculty members of the Department of Sound and Recording in SRFTI. The lecture was an immense learning experience for the students as they got a firsthand experience on the workings of a state of the art recording studio.

M. Ray 3.7.17
Principal
Sangit-Bhavana
Date-03.07.2017

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Film Project: Participation as performing vocalist and dancers; Contributing artistes in the film "O Horizon" by The Otolith Group

The Otolith Group
42 Osbaldeston Road
Hackney
London N16 7DR
t: 0044 (0) 207 502 0137
www.otolithgroup.org

To :

The Principal
Sangit Bhavana, Visva Bharati,
Santiniketan

1st June 2018

Dear Sir,

This is to thank you and the Vice Chancellor in 2018, for your kind permission to shoot in the premises of Sangit Bhavana and for the valuable participation of some faculty members and students of Sangit Bhavana, Visva Bharati. This was so that we could include elements to make our essay video O Horizon directed by The Otolith Group, UK, Commissioned by Bauhaus Imaginista (Berlin), and co-produced with the Rubin Museum (New York) , with kind support of Project 88, Mumbai.

Yours Sincerely

Anjalika Sagar

Co-Director

The Otolith Group

http://otolithgroup.org/index.php?m=project&id=206

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Dr. T.K. Narayanan
Vice-Chancellor

Kerala Kalamandalam
(DEEMED TO BE UNIVERSITY FOR ART & CULTURE)
(University established under section 3 of the UGC Act 1956)
Vallathol Nagar, Cheruthuruthy, Thrissur Dt., PIN 679 531, Kerala, India.
Phone: +91 4884 263440 Fax: +91 4884 263440
Email: vicechancellor@kalamandalam.org, www.kalamandalam.org

KKMDU/G1/1259/2018 **13/06/2018**

Principal

Sangit Bhavana

Visva- Bharati

Santhiniketan

West Bengal

Sir,

Sub : Study tour of students from Visva-Bharati Santiniketan to Kerala Kalamandalam(Deemed to be University for Art and Culture) to Experience the traditional Kathakali class –Reg:

Ref : Letter dated 23/03/2018 of the students recommended by the principal, Sangit-Bhavana.

I am very glad to inform you that sixteen students and Sri. Sucheendran P.K., Kathakali Dance faculty, Dept RSDD, Sangit Bhavana, Visva-Bharati, Santiniketan have successfully completed ten days workshop in Kathakali from 6th to 16th June 2018 in Kerala Kalamandalam (Deemed to be University for Art and Culture)

Yours faithfully

Vice- Chancellor

Kerala Kalamandalam

Residence: Tharayil House, Nadavaramba, Irinjalakkuda - 680661, Thrissur Dt. Mob: 9497361552

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3.7.1 Collaboration

CONTENT LIST

SIKSHA BHAVANA (Institute of Science)
Department of Biotechnology
Department of Botany
Department of Chemistry
Department of Environmental Studies
Integrated Science Education & Research Centre
Department of Physics
Department of Zoology

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Project Review

3 messages

Lavinia M. Dkhar <lmdkhar@gmail.com> Tue, 27 Aug 2019 at 15:21
To: Tathagata Choudhuri <tathagata.choudhuri@visva-bharati.ac.in>, Tapti Sengupta <tapti.sg@gmail.com>, mehra_chf@hotmail.com, jnvishwakarma@rediffmail.com, jayntidr@gmail.com, kasomva@gmail.com

Dear Sir/ Madam,
Kindly be informed that the Project Review Meeting for "CONSORTIUM PLATFORM FOR MEDICINAL PLANT OF NORTH EAST INDIA", is scheduled for the 16th September 2019. Please make it convenient to attend.
Regards,

--
Lavinia M. Dkhar
YP-II
Division of Animal Health
ICAR, RC-NEH
Meghalaya-793103

---

khanmi kasomva <kasomva@gmail.com> Thu, 12 Sep 2019 at 13:32
To: Lavinia M. Dkhar <lmdkhar@gmail.com>
Cc: Tathagata Choudhuri <tathagata.choudhuri@visva-bharati.ac.in>, Tapti Sengupta <tapti.sg@gmail.com>, mehra_chf@hotmail.com, jnvishwakarma@rediffmail.com, Jayanti datta roy <jayntidr@gmail.com>

Dear Sir/Madam,
I herewith attached the programme schedule for the project review meeting for "CONSORTIUM PLATFORM FOR MEDICINAL PLANT OF NORTH EAST INDIA" on 16th September 2019.for your kind information. looking forward to see you soon.

regards,
K. Kasomva
[Quoted text hidden]

programme 001.jpg
565 KB

Tathagata Choudhuri <tathagata.choudhuri@visva-bharati.ac.in> Thu, 12 Sep 2019 at 17:52
To: khanmi kasomva <kasomva@gmail.com>

Ok
[Quoted text hidden]

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आचार्य
श्री नरेंद्र मोदी
ACHARYA (CHANCELLOR)
SHRI NARENDRA MODI
उपाचार्य
प्रोफेसर विद्युत चक्रवर्ती
UPACHARYA (VICE-CHANCELLOR)
PROF. BIDYUT CHAKRABARTY

विश्वभारती
VISVA-BHARATI
(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notification No. : 40-5/50 G.3 Dt. 14 May, 1951)
संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731235
SANTINIKETAN - 731235
जि.बीरभूम, पश्चिम बंगाल, भारत
DIST. BIRBHUM, WEST BENGAL, INDIA
फोन Tel: +91-3463-262 451/261 531
फैक्स Fax: +91-3463-262 672
ई-मेल E-mail: vice-chancellor@visva-bharati.ac.in
Website: www.visva-bharati.ac.in

सं./No._____

दिनांक/Date 20.02.2020

To
Prof. Debasish Maiti
Dept. of Human Physiology
Tripura University
Suryamaninagar, Agartala
Tripura – 799022

Subject: Invitation for a Training Program w.r.t. our DBT supported Twinning project during 02.03.2020 to 04.03.2020.

Ref.: Project sanction no. BT/PR25104/NER/95/1017/2017, dt. 26.09.2019

Sir,

With respect to the above reference, I invite you to a training program during 02.03.2020 to 04.03.2020 on conducting some experiments regarding the DBT supported Twinning project entitled 'Study of induction and mechanism of autophagy in EAC cells upon treatment with Theaflavins'. It is therefore essential that you kindly attend the program for successful continuation of the research.

Looking forward for your cooperation.

Thanking you,

Yours sincerely,

Samiran Saha.

Dr. Samiran Saha
Assistant Professor
Department of Bi technology
(Institute of Science)
Visva-Bharati
Santiniketan-731 235

(Dr. Samiran Saha)
Principal Investigator of the Project
DBT Twinning Project
BT/PR25104/NER/95/1017/2017

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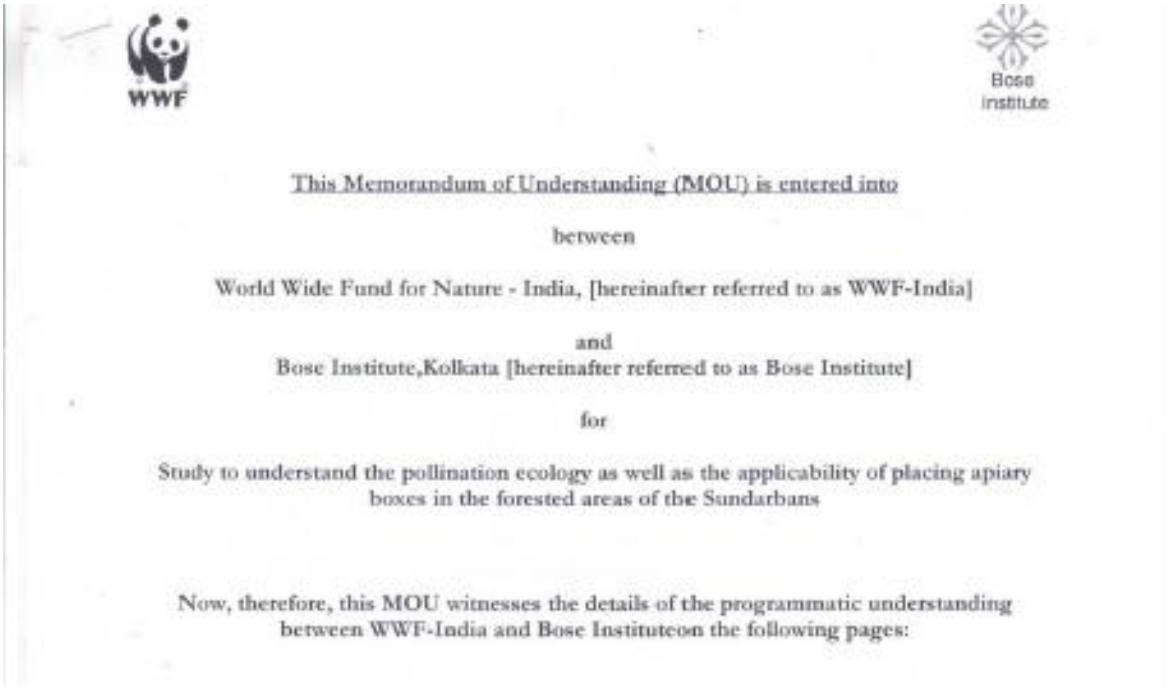
Project copy of K. Bhattacharya



This Memorandum of Understanding (MOU) is entered into

between

World Wide Fund for Nature - India, [hereinafter referred to as WWF-India]

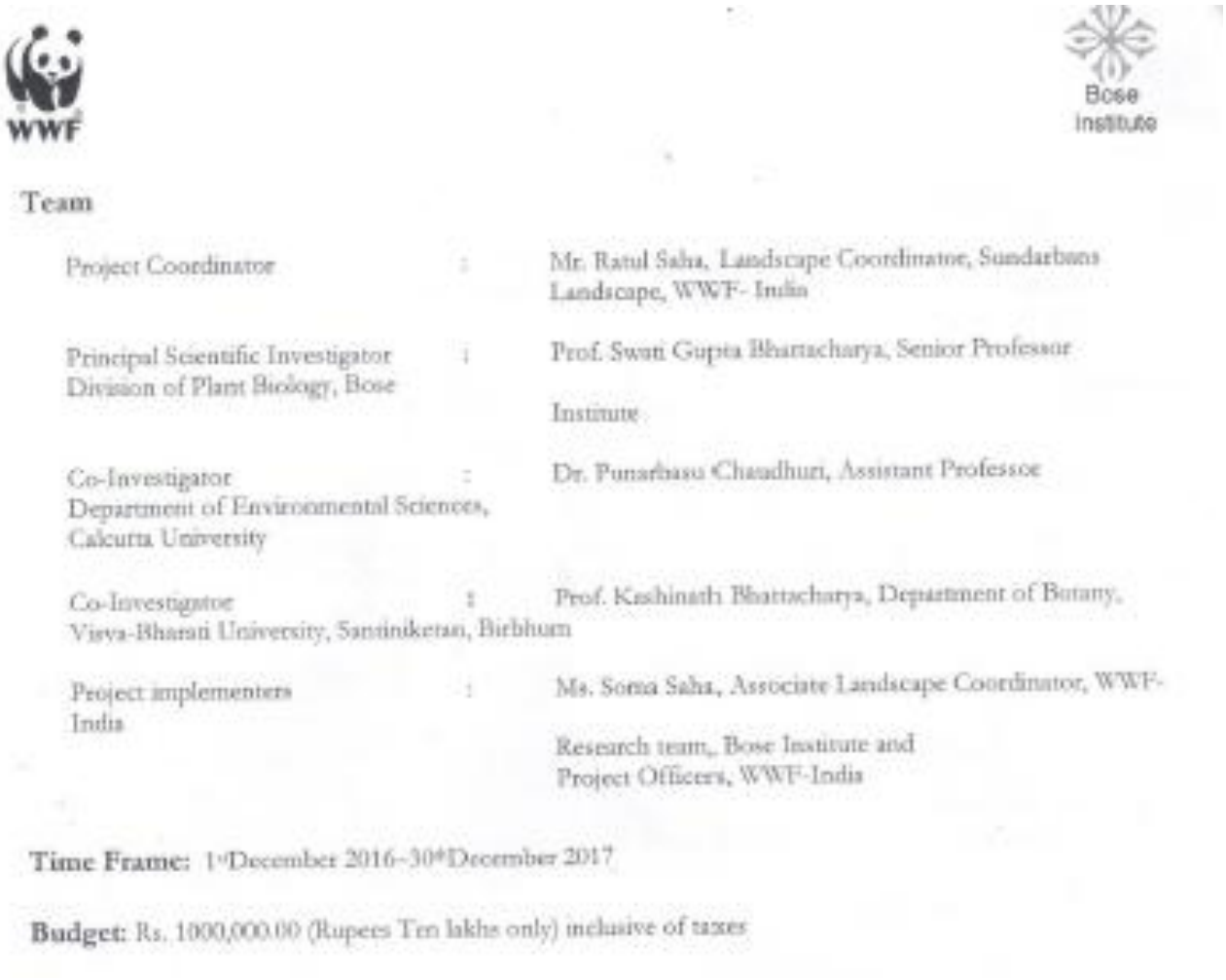
and

Bose Institute,Kolkata [hereinafter referred to as Bose Institute]

for

Study to understand the pollination ecology as well as the applicability of placing apiary boxes in the forested areas of the Sundarbans

Now, therefore, this MOU witnesses the details of the programmatic understanding between WWF-India and Bose Instituteon the following pages:



Team

Project Coordinator	:	Mr. Ratul Saha, Landscape Coordinator, Sundarbans Landscape, WWF- India
Principal Scientific Investigator Division of Plant Biology, Bose	:	Prof. Swati Gupta Bhattacharya, Senior Professor Institute
Co-Investigator Department of Environmental Sciences, Calcutta University	:	Dr. Punarbasu Chaudhuri, Assistant Professor
Co-Investigator Visva-Bharati University, Santiniketan, Birbhum	:	Prof. Kashinath Bhattacharya, Department of Botany,
Project implementers India	:	Ms. Sonia Saha, Associate Landscape Coordinator, WWF- Research team, Bose Institute and Project Officers, WWF-India

Time Frame: 1st December 2016–30th December 2017

Budget: Rs. 1000,000.00 (Rupees Ten lakhs only) inclusive of taxes

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Government of India
Department of science and technology
(International Division)

INT/HUN/P-08/2016 Dated: 04.110.2016

ORDER

Subject: Implementation of Indo-Russian project entitled "Responses of crop plants (rice and wheat) to combination of light and drought stress" coordinated by Dr Rup Kumar Kar, Department of Botany, Visva- Bharati University Santiniketan with his hungarian counterpart Dr. Gabor Kocsy, Plant Molecular Biology Department, Martonvasar, Hungary under indo – Hungarian.

Sanction of the President is hereby accorded for an DST and Hungarian Programme of cooperation in Science & Technology entitled "Responses of crop plants (rice and wheat) to combination of light and drought stress" under the MoU DST-Hungary at a total cost of **Rs. 31,56,000/- (Rupees thirty one lakh and fifty six thousand only)** for a period of three years as under:-

Item of Expenditure	Amount		
	First year	Second year	Third year
1. **Consumables**	3,00,000	3,00,000	3,00,000
2. **Contingency**	50,000	50,000	50,000
3. **Mobility of Scientist** Two visits from each side in each year			
• For visit of Indian scientists to Hungary	1,68,000	1,68,000	1,68,000
• For visit of Hungarian Scientist to India	1,44,000	1,44,000	1,44,000
(as calculated below)			
4. **Manpower- JRF- 1@ Rs. 25,000pm +30% HRA**	3,90,000	3,90,000	3,90,000
Year wise Cost	10,52,000	10,52,000	10,52,000
Grand Total	**Rs 31,56,000/-**		

2. Sanction of the President is hereby accorded for release of 1st installment **Rs. 10,52,000/- (Rupees Ten lakh and fifty two thousand only) ,** Visva- Bharati University.

3. An amount of **Rs. 10,52,00/- (Rupees Ten lakh and fifty two thousand only)** will be disbursed by means of electronic transfer (E-transfer) in favour Visva- Bharati University.

Account Holders name/ designation	Registrar, Visva – Bharati
Name of Bank & Branch	United Bank of India, Bhubandanga
Bank Account Number	0826050001858
IFSC Code	UTBIOBOBC42
E-Mail	registrar@visva-bharati.ac.in
MICR Code	731027002

4. The expenditure involved is debitable to:-

(i) Demand No. 77-Department of Science and Technology
(ii) Major Head-3425 B-Other Scientific Research
(iii) 60 others - Minor Head 60.798 International Co-operation S&T Co-operation with other Countries
(iv) 12.00.31 Grants-in-aid (general) during the current financial year 2016-17(PLAN).

5. The Project will be coordinated by Dr Rup Kumar Kar, Department of Botany, Visva- Bharati Univ Santiniketan with his hungarian counterpart Dr. Gabor Kocsy, Plant Molecular Biology Departme Martonvasar, Hungary, under indo – Hungarian. from Indian and Hungary side respectively and will be presumed to commence from the date of issue of this sanction.

6. Dr Rup Kumar Kar, Department of Botany, Visva- Bharati University Santiniketan is required to submit technical progress report periodically (at least once in six months) and a final report at the end of project.

7. As and when required, proposal for a visit under the project should be sent to DST at least six weeks prior to the initiation of the visit. The grant for exchange visit is to be operated subject to the condition that the prior approval of this Department would be obtained on all project related visits to be undertaken by the scientists from either side in connection with the implementation of the project on a case to case basis before any expenditure is incurred in this regard. Break up for proposed expenditure on each exchange visit will be calculated broadly as below:

a) Break up of expenditure on each visit of Indian Scientists visiting collaborative Institute is calculated broadly as below:

• International Fare Kolkata -Brunszvik – Kolkata By excursion/economy class (Cheapest available fare)	Rs 70,000
• Medical Insurance (Silver class)	Rs 4,000
• Domestic Travel related to visit	Rs 2,000
• Visa Fee (as per actuals)	Rs 8,000
	Total : Rs. 84,000

b) Break up of expenditure on each visit of Hungarian scientists and project staff visiting the Indian collaborative Institute (for an average duration of two weeks) :

• Accommodation @ Rs. 2500*14 day	Rs 35,000
• Per diem@ Res.	Rs 35,000
• Local transport	Rs 2,000
Total	Rs 72,000

8. The institute will maintain separate audited accounts for the project and the **amount of grant will be kept in a bank account earning interest**. The interest earned should be reported to DST while submitted the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

9. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

10. No re-appropriation will be allowed from one item/sub head of expenditure to another item sub head of expenditure and copies of claims may be called by DST if required. This sanction order has been issued in current financial year 2016-17 and is valid up to 31-03-17 only. For incurring any expenditure in next financial year (year 2017-18), PI should apply to DST for carry forward of unspent balance to 2016-17 during April 2016 for seeking carry forward approval/sanction order. Indian Project coordinator should furnish the requisite utilization certificate immediately at the end of the each financial year (ending 31st March) along with the audited statement of expenditure and progress report.

11. "There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of

the project. Project staff should be selected as per the DST norms, as indicated in DST Office Memorandum no.SR/S9/Z-09/2012 dated : October, 21, 2014.

12. ***Due acknowledgement of support received from DST should mandatorily be made in publication/ media release resulting from this project grant during and after the completion of the project.***

13. The account of the grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institution is called upon to do so, as laid down under Rule 211 (i) of General Financial Rules.

14. This issues under the delegated powers to the Minister/Departments and with approval of Director, Integrated Finance Division vide **Diary No.C/3918/2016-17 dated: 07.10.2016**.

15. This sanction order has been noted at Sl. No. 273 in Grant in Aid register.

16. No UC/SE is due from Visva- Bharati University for this project.

(S.K.Varshney)
Scientist "G"

To,

The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016

Copy to:

1. Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
2. Cash Section (3 copies), DST
3. I.F. Division/Accounts Section, DST
4. Sanction Folder
5. Dr Rup Kumar Kar, Department of Botany, Visva- Bharati University Santiniketan- 731235, Bengal *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
6. Director, Visva- Bharati University Santiniketan- 731235, Bengal. *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
7. Registrar, Visva- Bharati University Santiniketan- 731235, Bengal. *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
8. Finance Officer, Visva- Bharati University Santiniketan- 731235, Bengal, *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
9. Project File

(S.K.Varshney)
Scientist "G"

VISVA-BHARATI
SANTINIKETAN

Aca./R-6.3/9145/2017-18 Dated : 19.01.2018

Dr. Anjalika Roy
Assistant Professor
Department of Botany
Siksha-Bhavana
Visva-Bharati

Subject : Administrative approval of TA / DA, including air fare (National carrier) in respect of Debarati Pramanik, Biotech Consortium India Limited, Sanction order No. BCIL/NER-BPMC/2017/164 under supervision of Dr. Anjalika Roy, Department of Botany, Siksha-Bhavana, Visva-Bharati.

This is to inform you that your proposal for administrative approval of TA / DA including air fare (National Carrier) for the collection of samples for project work will visit Guwahati, Jorhat and adjoining forests form 09.01.2018 to 14.01.2018 has been approved by the University Administration.

The said expenditure (approximate amount Rs. 10000/- (ten thousand only) may be met out of budget head "**Travel**" of the said fellowship, subject to availability of fund.

Sd/-
Joint Registrar
(Academic & Research)
Visva-Bharati

Copy forwarded for information and necessary action to :

1. The Adhyaksha, Siksha-Bhavana, V.B.
2. The Head, Department of Botany, Siksha-Bhavana, V.B.
3. The Finance Officer, V.B.
4. The Accounts Officer, V.B.
5. The Internal Audit Officer, V.B.
6. University Webmaster – To upload it in the University website
7. Guard file

23/01/18
Joint Registrar
(Academic & Research)
Visva-Bharati
19/01/18

त्रिपुरा विश्वविद्यालय
TRIPURA UNIVERSITY
(केन्द्रीय विश्वविद्यालय / A Central University)
सूर्यमणिनगर, अगरतला / Suryamaninagar, Agartala
त्रिपुरा(प.) /Tripura (W), पिन/PIN – 799022, भारत/ INDIA

दूरभाष / Phone : (0381) 237 9003, 237 4805.
फैक्स / Fax : (0381) 237 4802/3
ई-मेल / E-Mail: registrar@tripurauniv.in
वेबसाइट / Website : www.tripurauniv.in

No. TU/REG/G-Admin/05/2015(Vol-I) Date: 08.06.2018

To
The Superintendent
Women's Research Scholars Hostel
Tripura University

Subject: Accommodation for two Research Scholars of the Department of Botany, Visva Bharati, Santiniketan.

Madam,

The following two Research Scholars of the Department of Botany, Visva Bharati, Santiniketan, West Bengal will be staying in Tripura University Campus w.e.f. *08.07.2018 to 15.07.2018* in connection with some research works in the laboratory of Prof. Sangram Sinha, Dept. of Botany, Tripura University and of Dr. Bimal Debnath, Assistant Professor, Dept. of Forestry & Biodiversity, Tripura University:

1. Smt. Sumana Aditya,UGC-BSR Fellow,
   Dept. of Botany, Visva Bharati, Santiniketan
2. Smt. Debarati Pramanick, Project Assistant,
   DBT Twinning Project, Dept. of Botany, Visva Bharati, Santiniketan

In view of the above, it is requested to make necessary arrangements for accommodation and food for them for the above mentioned period. Necessary charges will be borne by themselves.

Yours faithfully,

(M.M. Reang)
Joint Registrar

To
1. Smt. Sumana Aditya,UGC-BSR Fellow
2. Smt. Debarati Pramanick, Project Assistant

Copy to:
1. The Dean,Facuity of Science, Tripura University
2. Prof. Sangram Sinha, Dept. of Botany, Tripura University
3. Dr. Bimal Debnath, Assistant Professor, Dept. of Forestry & Biodiversity, Tripura University
4. P.S. to the Hon'ble Vice-Chancellor, Tripura University

भारतसरकार
GOVERNMENT OF INDIA
पर्यावरण, वनऔरजलवायुपरिवर्तनमंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
फैक्स/Fax: (033)26686226
दूरभाष/Phone: (033)26683235/3364

सत्यमेव जयते

भारतीयवनस्पतिसर्वेक्षण
BOTANICAL SURVEY OF INDIA
केंद्रीयराष्ट्रीयपादपालय
CENTRAL NATIONAL HERBARIUM
हावड़ा / HOWRAH – 711 103

दिनांक/ Date: 20.09.2018

To whom it may concern

This is to certify that **Smt. Reshma Lakra** daughter of **Sri Gangu Lakra,** is a Junior Project Fellow of **Central National Herberium, Botanical Survey of India**. The institution/ organization has no objection in allowing **Smt. Reshma Lakra** to be registered as a full time Ph.D. student in Visva-Bharti University, Santiniketan.

20/9/18

Head of Office
Central National Herbarium
Botanical Survey of India

डॉ. पी. वि. प्रसन्ना
Dr. P. V. Prasanna
वैज्ञानिक "एफ", Scientist "F"
केन्द्रीय राष्ट्रीय पादपालय
Central National Herbarium
भारतीय वनस्पति सर्वेक्षण
Botanical Survey of India
हावड़ा / Howrah-711103

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
बायोटेक्नोलॉजी विभाग
ब्लाक-2,7 वां तल, सी० जी० ओ० कम्पलेक्स
लोदी रोड, नई दिल्ली-110003
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
Block-2, 7th Floor C.G.O. Complex
Lodi Road, New Delhi-110003

Dr. Arun Kumar Rawat
Advisor
Phone: 24369614 (O)
Email : akrawat.dbt@nic.in

BT/PR28574/AAQ/3/920/2018

Dated: 18.06.2019

Dear Dr. Dam,

I am pleased to convey the approval of this Department for the multi-centric project entitled "**Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach**". Please find enclosed sanction order of **Rs. 91.4294** lakhs (Rs. 36.2612 lakhs for Burdwan University component and Rs. 55.1682 lakhs for Visva Bharati University component) and release of first installment of Rs. **33.9146** lakhs for your component (other formats required to be furnished to this Department from time to time has been sent to you through e-mail).

You are requested to go through the terms and conditions carefully and the date of sanction of the project is the starting date of the project. The first release of grant is being made with a condition that the **Memorandum of Agreement,** in Rs.100/- stamp paper, would be signed by the concerned party and returned back to the Department within three months for execution. Clearance of Animal Ethics committee or any other regulatory body may be obtained before initiating such work, if needed. A copy of clearance may also be submitted to the Department accordingly. The progress of the project should be reviewed by the group of investigators once in six months and DBT should be intimated in advance. The financial assistance provided for the project should exclusively be used for the specific purpose for which they are provided. This should be as per the approved budget for specific head and for a stipulated period only. **Approved equipment should be done as per provisions of GFR 2017 & manual of procurement of goods & services 2017** and balance available, if any, under Non-recurring head after completion of first year will be deducted while making second year release. **The manpower approved for the project should be appointed strictly as per guidelines.** This department neither will bear any over expenditure and any expenditure after the last date of the project nor any additionality will be provided. Unspent amount as on the last day of the project should be surrendered to DDO, DBT, New Delhi.

With kind regards,

Yours sincerely,

(A.K. Rawat)

Dr. Bomba Dam,
Assistant Professor,
Microbiology Laboratory,
Department of Botany,
Siksha-Bhavana, Visva-Bharati University,
Santiniketan-731235, West Bengal

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
बायोटेक्नोलॉजी विभाग
ब्लाक-2,7 वां तल, सी० जी० ओ० कम्पलेक्स
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GOVERNMENT OF INDIA
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Block-2, 7th Floor C.G.O. Complex
Lodi Road, New Delhi-110003

Dr. Arun Kumar Rawat
Advisor
Phone: 24369614 (O)
Email : akrawat.dbt@nic.in

BT/PR28574/AAQ/3/920/2018

Dated: 18.06.2019

Dear Dr. Ghosh,

I am pleased to convey the approval of this Department for the multi-centric project entitled "**Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach**". Please find enclosed sanction order of **Rs. 91.4294** lakhs (Rs. 36.2612 lakhs for Burdwan University component and Rs. 55.1682 lakhs for Visva Bharati University component) and release of first installment of Rs. **20.5076** lakhs for your component (other formats required to be furnished to this Department from time to time has been sent to you through e-mail).

You are requested to go through the terms and conditions carefully and the date of sanction of the project is the starting date of the project. The first release of grant is being made with a condition that the **Memorandum of Agreement,** in Rs.100/- stamp paper, would be signed by the concerned party and returned back to the Department within three months for execution. Clearance of Animal Ethics committee or any other regulatory body may be obtained before initiating such work, if needed. A copy of clearance may also be submitted to the Department accordingly. The progress of the project should be reviewed by the group of investigators once in six months and DBT should be intimated in advance. The financial assistance provided for the project should exclusively be used for the specific purpose for which they are provided. This should be as per the approved budget for specific head and for a stipulated period only. **Approved equipment should be done as per provisions of GFR 2017 & manual of procurement of goods & services 2017** and balance available, if any, under Non-recurring head after completion of first year will be deducted while making second year release. **The manpower approved for the project should be appointed strictly as per guidelines.** This department neither will bear any over expenditure and any expenditure after the last date of the project nor any additionality will be provided. Unspent amount as on the last day of the project should be surrendered to DDO, DBT, New Delhi.

With kind regards,

Yours sincerely,

(A.K. Rawat)

Dr. Koushik Ghosh,
Associate Professor,
Department of Zoology,
The University of Burdwan,
Bardhaman-713104, West Bengal

No. BT/PR28574/AAQ/3/920/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003

Dated: 18.06.2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules ,1978 , for the implementation of the project entitled "**Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach**" for a period of 3 Year 0 Month at a total cost of Rs. **9142940** (Rupees Ninety One Lakhs Fourty Two Thousand Nine Hundred and Fourty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach.

2.2 Details of the Investigators:

Project Co-ordinator

Prof. Nimai Chandra Saha,
Vice-Chancellor, The University of Burdwan,
Bardhaman-713104, West Bengal

Principal Investigators:

Dr. Bomba Dam,
Assistant Professor,
Microbiology Laboratory,
Department of Botany,
SIksha-Bhavana, Visva-Bharati,
Santiniketan-731235, West Bengal

Dr. Koushik Ghosh,
Associate Professor,
Department of Zoology,
The University of Burdwan,
Bardhaman-713104,West Bengal

2.3 Objectives:

Overall Objectives:

1. To select the most appropriate prebiotic feed supplement(s) for the three IMCs, Labeo rohita (rohu), Cirrhinus mrigala (mrigal) and Catla catla (catla) in monoculture by evaluation of their growth performance, feed utilization, metabolic, hematological and immunological parameters.

2. To evaluate nutrient-induced gene expression and metabolic activity in host tissues and gut microbiota particularly those related to carbohydrate metabolism
3. To determine the spatio-temporal variation of gut microbial population due to prebiotic treatment by culture-independent 16S rDNA amplicon sequencing
4. To culture the major gut microbial groups belonging to Firmicutes and Bacteroidetes using selective media and select likely probiotic candidates, preferably an anaerobe/facultative anaerobe capable of producing SCFA and estimate its effectiveness
5. To assess the abundance and diversity of short chain fatty acid producers, their functional genes, estimation of SCFAs and eventually establish them as molecular or metabolic marker for gut health
6. Field trial under polyculture to validate the effectiveness of the prebiotic/symbiotic formulations

Institute wise Objectives:

Burdwan University:

1. To select the most appropriate prebiotic feed supplement(s) for the three IMCs, Labeo rohita (rohu), Cirrhinus mrigala (mrigal) and Catla catla (catla) in monoculture by evaluation of their growth performance, feed utilization, metabolic, hematological and immunological parameters.
2. To evaluate nutrient induced metabolic activity in host tissues, particularly those related to carbohydrate metabolism.
3. To culture the major gut microbial groups belonging to Firmicutes and Bacteroidetes using selective media and select likely probiotic candidates, preferably an anaerobe/facultative anaerobe capable of producing SCFA and estimate its effectiveness.
4. Field trial under polyculture to validate the effectiveness of the prebiotic/symbiotic formulations.

Visva Bharati University:

1. To evaluate nutrient induced gene expression in host tissues, particularly those related to carbohydrate metabolism.
2. To determine the spatio-temporal variation of gut microbial population due to prebiotic treatment using both culture-independent 16S rDNA amplicon sequencing, and culture-dependent methods.
3. To assess the abundance and diversity of short chain fatty acid producers, their functional genes, estimation of SCFAs and eventually establish them as molecular or metabolic marker for gut health.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **9142940**/-(Rupees Ninety One Lakhs Fourty Two Thousand Nine Hundred and Fourty Only) as per details given below:

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Burdwan University	2050760	811760	763600	**3626120**
2. Visva Bharati University	3391460	1066760	1058600	**5516820**
Total (Rs.)	**5442220**	**1878520**	**1822200**	**9142940**

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Visva Bharati University				
Equipment	2409700.00			**2409700.00**
Manpower	401760.00	401760.00	453600.00	**1257120.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel		15000.00	25000.00	**40000.00**
Consumables	500000.00	570000.00	500000.00	**1570000.00**
Contingency	30000.00	30000.00	30000.00	**90000.00**
Total (Rs.)	**3391460.00**	**1066760.00**	**1058600.00**	**5516820.00**
2. Burdwan University				
Equipment	1029000.00			**1029000.00**
Manpower	401760.00	401760.00	453600.00	**1257120.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	20000.00	30000.00	30000.00	**80000.00**
Consumables	500000.00	300000.00	200000.00	**1000000.00**
Contingency	50000.00	30000.00	30000.00	**110000.00**
Total (Rs.)	**2050760.00**	**811760.00**	**763600.00**	**3626120.00**

2.6 Equipment

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

Demand No. 85	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

4.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in Annexure-IV.

4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

6. The Registrar, Burdwan University, Bardhaman, West Bengal and The Registrar, Visva Bharati University, Birbhum, West Bengal would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-09/2012 dated 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.

8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.

9. If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org

10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clarence, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project investigator(s) and Host Institution(s) shall compulsory comply the same before undertaking such activities.

11. This issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/678/2019-20** dated **14.06.2019**

12. This sanction order has been noted at serial no. 20 in the Register of Grants.

(Dr.Sanjay Kalia)
Scientist 'E'

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110002.
2 Prof. Nimai Chanrda Saha (Project Coordinator), Vice-Chancellor, The University of Burdwan, Rajbati, Bardhaman-713104.
3 The Registrar, Burdwan University, Golapbag Campus, Bardhaman - 713104, West Bengal.
4 The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal.
5 Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, SIksha-Bhavana, Visva-Bharati University, Santiniketan - 731235, West Bengal.
6 Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.
7 Cash Section, DBT (2 copies).
8 Sanction Folder.
9 File Copy.

(Dr.Sanjay Kalia)
Scientist 'E'

Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled **"Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach":**

Visva Bharati University			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Microplate microvolume spectrophotometer, BioTek	1	864600.00
2.	Computer Workstation, Dell	1	600000.00
3.	Bench-top high speed cooling centrifuge, Hermle	1	779600.00
4.	Horizontal gel electrophoresis unit with powerpack, Bio-Rad	1	115500.00
5.	Upright freezer, Vestfrost	1	50000.00
		Total	**2409700.00**
Burdwan University			
SNo.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	UV-VIS Spectrophotometer With Temperature Controlled Cuvette Holder, Hitachi	1	859000.00
2.	Vertical gel electrophoresis unit with power pack, Bio-Rad	1	120000.00
3.	Vertical freezer, Vestfrost	1	50000.00
		Total	**1029000.00**

(Dr.Sanjay Kalia)
Scientist 'E'

Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled **"Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach":**

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
1. Burdwan University					
JRF/SRF @ Rs. 31,000/-+8% HRA for 1st and 2nd and Rs. 35,000/-+8% HRA for 3rd year as per revised guidelines of DST/DBT and HRA given as per 7th CPC.	1	401760	401760	453600	**1257121**
Total(Rs.)		**401760**	**401760**	**453600**	**1257120**
2. Visva Bharati University					
JRF/SRF @ Rs. 31,000/-+8% HRA for 1st and 2nd and Rs. 35,000/-+8% HRA for 3rd year as per revised guidelines of DST/DBT and HRA given as per 7th CPC.	1	401760	401760	453600	**1257121**
Total(Rs.)		**401760**	**401760**	**453600**	**1257120**

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST OM No. SR/S9/Z-08/2018 dated January 30, 2019.

(Dr.Sanjay Kalia)
Scientist 'E'

No. BT/PR28574/AAQ/3/920/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 18.06.2019

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 18.06.2019 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **2003520.00** (Rupees Twenty Lakhs Three Thousand Five Hundred and Twenty Only) being the first year release for the project entitled **"Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach",** being implemented by:

1. Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, Siksha-Bhavana, Visva-Bharati University, Santiniketan - 731235, West Bengal.

2. Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.

The detailed break-up is as given below:

SN	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	Burdwan University Bardhaman	401760.00	500000.00	20000.00	50000.00	0.00	50000.00	**1021760.00**
2	Visva Bharati University Birbhum	401760.00	500000.00	0.00000	30000.00	0.00	50000.00	**981760.00**

2. The amount of Rs. **2003520.00** /-(**Rupees Twenty Lakhs Three Thousand Five Hundred and Twenty Only**) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

1. Rs.**981760.00**/- (**Rupees Nine Lakhs Eighty One Thousand Seven Hundred and Sixty Only)** to The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal

   Bank Name :United Bank of India
   Branch Name :Bolepur Branch (0826)
   A/c No. :0826050001858
   IFSC Code :UTBI0BOBC42
   MICR Code :731027001

2. Rs.**1021760.00**/- (**Rupees Ten Lakhs Twenty One Thousand Seven Hundred and Sixty Only)** to The Registrar, Burdwan University, Golapbag Campus, Bardhaman - 713104, West Bengal

Bank Name : Bank of India
Branch Name : Burdwan Branch (004201)
A/c No. : 420110100019490
IFSC Code : BKID0004201
MICR Code : 713013102

3. The expenditure involved is debitable to:

Demand No. 85	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. The Registrar, Visva Bharati University, Birbhum, West Bengal and The Registrar, Burdwan University, Bardhaman, West Bengal will submit audited utilization certificates and statements of expenditure in respect of the above-mentioned amount.

5. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.

6. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

7. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

8. (a). In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.
The other terms and conditions governing the financial sanction will remain unaltered.

9. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their SAN No. **102/IFD/SAN/679/2019-20** dated **14.06.2019**

10. This sanction order has been noted at serial no. 21 in the Register of Grants.

(Dr. Sanjay Kalia)
Scientist 'E'

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi-110002.
2 Prof. Nimai Chanrda Saha (Project Coordinator), Vice-Chancellor, The University of Burdwan, Rajbati, Bardhaman-713104.
3 The Registrar, Burdwan University, Golapbag Campus, Burdwan, Bardhaman - 713104, West Bengal.
4 The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal.
5 Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, SIksha-Bhavana, Visva-Bharati University, Santiniketan - 731235, West Bengal.
6 Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.
7 Cash Section, DBT (2 copies).
8 Sanction Folder.
9 File Copy.

(Dr. Sanjay Kalia)
Scientist 'E'

No. BT/PR28574/AAQ/3/920/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 18.06.2019

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 18.06.2019 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **3438700.00** (Rupees Thirty Four Lakhs Thirty Eight Thousand Seven Hundred Only) being the first year release for the project entitled **"Prebiotic feed supplement for growth improvement of Indian major carps, Labeo rohita, Cirrhinus mrigala and Catla catla under composite culture system: A gut microbiome and nutrigenomics based approach",** being implemented by:

1. Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, Siksha-Bhavana, Visva-Bharati University, Santiniketan - 731235, West Bengal.

2. Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.

The detailed break-up is as given below:

SN	Institute Name	Non Recurring		Total Release Amount (Rs)
		Equipment	Other	
1	Burdwan University Bardhaman	1029000.00	0.00	**1029000.00**
2	Visva Bharati University Birbhum	2409700.00	0.00	**2409700.00**

2. The amount of Rs. **3438700.00** /-(**Rupees Thirty Four Lakhs Thirty Eight Thousand Seven Hundred Only**) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

1. Rs.**2409700.00**/- (**Rupees Twenty Four Lakhs Nine Thousand Seven Hundred Only)** to The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal

   Bank Name : United Bank of India
   Branch Name: Bolepur Branch (0826)
   A/c No. : 0826050001858
   IFSC Code : UTBI0BOBC42
   MICR Code : 731027001

2. Rs.**1029000.00**/- (**Rupees Ten Lakhs Twenty Nine Thousand Only)** to The Registrar, Burdwan University, Golapbag Campus, Bardhaman - 713104, West Bengal

   Bank Name : Bank of India
   Branch Name: Burdwan Branch (004201)
   A/c No. : 420110100019490
   IFSC Code : BKID0004201
   MICR Code : 713013102

3. The expenditure involved is debitable to:

Demand No. 85	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

4. The Registrar, Visva Bharati University, Birbhum, West Bengal and The Registrar, Burdwan University, Bardhaman, West Bengal will submit audited utilization certificates and statements of expenditure in respect of the above-mentioned amount.

5. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.

6. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

7. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

8. (a). In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.

(b.) Non-Recurring (Equipment) grant should be utilized within one year.
The other terms and conditions governing the financial sanction will remain unaltered.

9. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their SAN No. **102/IFD/SAN/680/2019-20** dated **14.06.2019.**

10. This sanction order has been noted at serial no. 20 in the Register of Grants.

(Dr. Sanjay Kalia)
Scientist 'E'

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi-110002.
2 Prof. Nimai Chanrda Saha (Project Coordinator), Vice-Chancellor, The University of Burdwan, Rajbati, Bardhaman-713104.
3 The Registrar, Burdwan University, Golapbag Campus, Burdwan, Bardhaman - 713104, West Bengal.
4 The Registrar, Visva Bharati University, Santiniketan, Birbhum - 731235, West Bengal.
5 Dr. Bomba Dam, Assistant Professor, Microbiology Laboratory, Department of Botany, Siksha-Bhavana, Visva-Bharati University, Santiniketan - 731235, West Bengal.
6 Dr. Koushik Ghosh, Associate Professor, Department of Zoology, The University of Burdwan, Bardhaman - 713104, West Bengal.
7 Cash Section, DBT (2 copies).
8 Sanction Folder.
9 File Copy.

(Dr. Sanjay Kalia)
Scientist 'E'

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Government of India
Department of science and technology
(International Division)

INT/RUS/RSF/P-08 **Dated: 05.09.2016**

ORDER

Subject: Implementation of Indo-Russian project entitled "Development of new atom efficient syntheric methodologies for organic and organometallic synthesis of target(hetero) and macrocycles for the needs of industry and pharmacy" coordinated by Dr. Adinath Majee, Visva Bharati, Shantiniketan - 731235 with his Russian counterpart Prof. Emily Nosova, Institute of organic Synthesis, Yekaterinburg Russia.

Sanction of the President is hereby accorded for an DST and Russian Federation of Basic Research entitled "Development of new atom efficient syntheric methodologies for organic and organometallic synthesis of target (hetero) and macrocycles for the needs of industry and pharmacy" under the MoU DST-RSF at a total cost **of Rs. 46,28,580/- (Rupees forty six lakh twenty eight thousand five hundred eighty only)** for a period of three years as under:-

Item of Expenditure	Amount		
	First year	Second year	Third year
1. Consumables	7,20,000	7,20,000	7,20,000
2. Contingency	50,000	50,000	50,000
3. Exchange visits (One exchange visit from each side each year for visit of Indian scientists to Russia (as calculated below)	2,42,600	2,42,600	2,42,600
4 Manpower JRF-1 (Rs. 25,000), + 30%	3,90,000	3,90,000	3,90,000
Year wise Cost	14,02,600	14,02,600	14,02,600
Overhead @ 10%	1,40,260	1,40,260	1,40,260
Total annual cost	15,42,860	15,42,860	15,42,860
Grand Total	Rs 46,28,580/-		

2. Sanction of the President is hereby accorded for release of 1st installment **Rs.15,42,860/- (Rupees fifteen lakh forty two thousand eight hundred sixty only)** Visva Bharati, Shantiniketan - 731235.

3. An amount of **Rs.15,42,860/-(Rupees fifteen lakh forty two thousand eight hundred sixty only)**, will be disbursed by means of electronic transfer (E-transfer) Visva Bharati, Shantiniketan - 731235.

Account Holders name/ designation	Registrars, Visva- Bharati
Name of Bank & Branch	United Bank of India, Bhubandanga Bolpur, Birbhum
Bank Account Number	0826050001858
IFSC Code	UTBIOBBC42
E-Mail	Adinth.majee@visva-bharati.ac.in
MICR Code	731027002

4. The expenditure involved is debitable to:-

(i) Demand No. 77-Department of Science and Technology
(ii) Major Head-3425 B-Other Scientific Research
(iii) 60 others - Minor Head 60.798 International Co-operation S&T Co-operation with other Countries
(iv) 12.00.31 Grants-in-aid (general) during the current financial year 2016-17(PLAN).

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5. The Project will be by Dr. Adinath Majee, Visva Bharati, Shantiniketan - 731235 with his Russian counterpart Prof. Emily Nosova, Institute of organic Synthesis, Yekaterinburg Russia, from Indian and Russian side respectively and will be presumed to commence from the date of issue of this sanction.

6 Dr. Adinath Majee, Visva Bharati, Shantiniketan - 731235 is required to submit technical progress report periodically (at least once in six months) and a final report at the end of project.

7. As and when required, proposal for a visit under the project should be sent to DST at least six weeks prior to the initiation of the visit. The grant for exchange visit is to be operated subject to the condition that the prior approval of this Department would be obtained on all project related visits to be undertaken by the scientists from either side in connection with the implementation of the project on a case to case basis before any expenditure is incurred in this regard. Break up for proposed expenditure on each exchange visit will be calculated broadly as below:

a) Break up of expenditure on each visit of Indian Scientists visiting collaborative Institute is calculated broadly as below: (All conversion US $ 1 = Rs 60)

• International Fare Kolkata -Ekaterinburg –Kolkata By excursion economy class	Rs 85,000
• Medical Insurance (Silver class)	Rs 4,000
• Domestic Travel related to visit (from/to Shantiniketan)	Rs 5,000
• Visa Fee (as per actuals)	Rs 10,000
• Accommodation @ US $ 125 for 14 days	Rs 84,000
• Cash Allowance @ US $ 40 for 14 days	Rs 33,600
• Local transport @ US $ 25 for 14 days	Rs 21,000
Total	Rs 2,42,600

8. The institute will maintain separate audited accounts for the project and the **amount of grant will be kept in a bank account earning interest**. The interest earned should be reported to DST while submitted the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant".

9. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

10. No re-appropriation will be allowed from one item/sub head of expenditure to another item sub head of expenditure and copies of claims may be called by DST if required. This sanction order has been issued in current financial year 2016-17 and is valid up to 31-03-17 only. For incurring any expenditure in next financial year (year 2017-18), PI should apply to DST for carry forward of unspent balance to 2016-17 during April 2016 for seeking carry forward approval/sanction order. Indian Project coordinator should furnish the requisite utilization certificate immediately at the end of the each financial year (ending 31st March) along with the audited statement of expenditure and progress report.

11. "There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project. Project staff should be selected as per the DST norms, as indicated in DST Office Memorandum no.SR/S9/Z-09/2012 dated : October, 21, 2014.

12. ***Due acknowledgement of support received from DST should mandatorily be made in publication/ media release resulting from this project grant during and after the completion of the project.***

13. The account of the grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institution is called upon to do so, as laid down under Rule 211 (i) of General Financial Rules.

14. This issues under the delegated powers to the Minister/Departments and with approval of Director, Integrated Finance Division vide Diary No.2922/2016-17 dated: 01.09.2016 .

15. This sanction order has been noted at Sl. No. 170 in Grant in Aid register.

16. No UC/SE is due from Visva Bharati, Shantiniketan - 731235.

(S.K.Varshney)
Scientist "G"

To,

The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016

Copy to:

1. Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
2. Cash Section (3 copies), DST
3. I.F. Division/Accounts Section, DST
4. Sanction Folder
5. by Dr. Adinath Majee, Visva Bharati, Shantiniketan - 731235 – 32.*"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
6. Director, Visva Bharati, Shantiniketan - 731235. *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
7. Registrar, Visva Bharati, Shantiniketan - 731235 *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee. As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
8. Finance Officer Visva Bharati, Shantiniketan - 731235, *"There is provision for manpower in the project. For recruitment of manpower there should be nominee from DST also in selection committee As soon as someone is appointed his/her name, copy of joining report, appointment order, qualifications & post should be sent to DST. Positions of manpower are co-terminus with duration of the project and DST would have no liability to meet these manpower costs beyond the duration of the project."* ***DST should get acceptance of the terms of this grant from the Institute.***
9. Project File

(S.K.Varshney)
Scientist "G"

Government of India
Ministry of Science and Technology
Department of Science & Technology
(International Bilateral Cooperation Division)

Technology Bhavan, New Mehraulli Road
New Delhi-110016
Date: 31.07.2017

INT/RUS/RFBR/P-295

ORDER

Subject: Implementation of Indo- Russian Joint project entitled: "The design, synthesis and evaluation of antiproliferative activity of novel fused N-heterocyclic derivatives of steroids" coordinated by **Dr. Alakananda Hajra,** Department of Chemistry, Visva-Bharati University, Santiniketan with the Russian partner **Prof. Valerik Z. Shirinian**, N. D. Zelinsky Institute of Organic Chemistry Russian Academy of 47 Leninskyprosp, Moscow, Russia - regarding.

Sanction of the President is hereby accorded for incurring an expenditure not exceeding **Rs. 22,27,200/- (Rupees Twenty Two lakh Twenty Seven Thousand and Two Hundred only)** for implementation of the Indo- Russian joint project entitled "The design, synthesis and evaluation of antiproliferative activity of novel fused N-heterocyclic derivatives of steroids" coordinated by **Dr. Alakananda Hajra,** Department of Chemistry, Visva-Bharati University, Santiniketan in collaboration with **Prof. Valerik Z. Shirinian**, N. D. Zelinsky Institute of Organic Chemistry Russian Academy of 47 Leninskyprosp, Moscow, Russia for a total duration of Two years from the date of issue of the Sanction Order. The detailed breakup of the grant for General as well as Capital Components are given below:-

General Component	:	Rs. 22,27,200/-
Capital Component	:	Rs. NIL

2. As per the terms and conditions, agreed by both side, under the project the sending side will bear the cost related to the International air travel, medical insurance and visa charges whereas the receiving side shall bear the cost of accommodation, hospitality and local travels of the visiting scientist. The break-up of approved expenditure is as indicated below :

Item of Expenditure	Amount		
	First year	Second year	Total
1.Consumables	8,10,000	8,10,000	16,20,000
2. Contingency			
3.Exchange Visits (One visit, as per annexure)	50,000	50,000	1,00,000
For visit of Indian scientists to Russia For visit of Russian scientists to India	2,53,600	2,53,600	5,07,200
Year wise Cost	11,13,600	11,13,600	22,27,200
Grand Total	Rs.22,27,200/-		

3. Sanction of the President is hereby accorded for release of 1st instalment amounting of **Rs.11,13,600/- (Rupees Eleven lakh Thirteen Thousand and Six Hundred only)** to the grantee Institute. The amount of grant will drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **Visva-Bharati University, Santiniketan**, The bank details for electronic transfer of funds through RTGS are given below:-

Account Holders name/ designation	Registrar, Visva – Bharati
Name of Bank	United bank of India
Bank Account Number	0826050001858
IFSC Code	UTBIOB0BC42
E-Mail	Alakananda.hajra@visva-bharatia.ac.in

Condition for placing of grant amount :

4. The institute will maintain separate audited account for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the (financial year wise) Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further instalment of the grant.

Conditions for submission of SE/UC and Progress report:

5. (a) the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

   (b) While submitting Utilisation Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

   (c) a transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organisation under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant;

6. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

7. In the event grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

Conditions of Assets (if any) :

8.(a) DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

(b) The equipment/instrument shall have to be purchased within twelve months from the date of release of the capital grant. Fresh permission shall have to be sought from DST, in the event, the Institute fails to purchase the equipment/instrument within the prescribed period of twelve months from the date of release of sanctioned amount.

Conditions for International Visits :

9. All project related visits to be undertaken by the Scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.

10. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

Other Conditions:

11. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

12. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

13. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/ fellowship from any other project either supported by DST or by any other funding agency.

14. **Failure to comply with the terms and conditions of the sanction order will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.**

15. The expenditure involved is debitable to Demand No.84, Department of Science & Technology for the year 2017-18:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.798	:	International Cooperation (Minor Head)
14	:	S & T Cooperation with Other countries
14.00.31	:	Grants-in-aid General for the year 2017-18 (Plan) (**Previous** : ICD-3425.60.798.12.00.31)

16. This sanction order being 1st instalment for implementation of this project, no SE/UC is due from the grantee institution against this project.

17. This issues with the concurrence of IFD vide their concurrence Dy. No. **C/1705 /IFD 2017-18 dated** 21.07.2017.

18. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 191 in the register of grants maintained in the Division.

(S.K. Varshney)
Scientist 'G'

To,

The Pay & Accounts Officer,
Department of Science & Technology,
New Delhi-110016

Copy to:

1. Office of the Principal Director of Audit, AGCR Bldg., IP Estate, New Delhi-110002
2. Cash Section (3 copies), DST
3. I.F. Division/Accounts Section, DST
4. Sanction Folder
5. Project File.
6. **Dr. Alakananda Hajra**, Department of Chemistry, Visva-Bharati University, Santiniketan - 731235
7. **Registrar**, Visva-Bharati University, Santiniketan -731235
8. **Finance Officer**, Visva-Bharati University, Santiniketan -731235

(S.K. Varshney)
Scientist 'G'

Annexure

Break up of expenditure on each visit of Indian Scientists visiting collaborative institute is calculated broadly as below: (All conversion US $ 1= Rs. 60)

1) International Fare Kolkata –Moscow – Kolkata i. By excursion / economy class	Rs. 80,000
2) Medical Insurance (Silver Class)	Rs. 4,000
3) Domestic Travel related to visit	Rs. 2,000
4) Visa Fee (as per actual)	Rs. 8,000
5) Accommodation in Moscow @US $ 125 for 14 days	Rs. 1,05,000
6) Cash Allowance @ US $ 40 for 14 days	Rs. 33,600
7) Transport Allowance @ US $ 25 for 14 days	Rs. 21,000
Total	**2,53,600/-**

(S.K. Varshney)
Scientist 'G'

Please Distribute to the Addressee as Marked(✓)

Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Dr. Ashok Pandey
Programme Officer (BRE)

BRNS Secretariat, 1st Floor, CC,
BARC, Trombay, Mumbai-400085.
Phone: +91-02225594566
Email: ashokk@barc.gov.in

No:37(2)/14/07/2018-BRNS/ 10133

Date: 22 MAY 2019

OFFICE MEMORANDUM

Sub: R/P entitled "Electronic structure and transport properties of inorganic-organic" under Dr. Pranab Sarkar, Professor, Dept. of Chemistry, Visva-Bharati, Santiniketan, West Bengal,731235 bearing sanction No.37(2)/14/07/2018-BRNS with BRE, BRNS.

In continuation of this Department's OM of even number dated 09/04/2018 on the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval of the President of India for the continuance of captioned project during **2019-2020** and sanction to incur an expenditure of **Rs. 4,69,775/- (Rupees four lakh sixty nine thousand seven hundred seventy five only)** as detailed below:

Item of expenditure	**Year 2 (2019-2020)**
Equipments	0
Staff Salary - JRF	372000
Staff Salary - SRF	0
Travel - PI	25000
Contingencies	25000
Overheads	29775
Salary Arrears	18000
Total(INR)	**469775**

2. The grant remaining unspent under the Heads "Equipments","Consumables" and "Overheads" for the year 2018-2019 are only allowed to be carried forward to the current financial year 2019-2020. Unspent balance under other heads will be adjusted while releasing the subsequent grant.
3. **Salary arrears has been calculated @ Rs.6,000/- p.m. from 01.01.2019 to 31.03.2019.**
4. The expenditure involved is debitable to the following Head of Account: **3401 00 004 27 02 31**
5. This is issued with the concurrence of the competent authority in the Department.

Pandey 15.5.2019

Dr. Ashok Pandey

Pay & Accounts Officer, DAE, Mumbai-400 001

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP,OYC,CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Registrar, Visva-Bharati, Santiniketan, West Bengal,731235..
4. Principal Investigator(PI): Dr. Pranab Sarkar, Professor, Dept. of Chemistry, Visva-Bharati, Santiniketan, West Bengal,731235..

A. The actual amount of grant-in-aid that would be released will be limited to the actual expenditure up to 31st March 2019 subject to the maximum recommended by the Board.

B. In accordance with Rule 30 of the General Financial Rules 2005, this sanction will lapse if no payment in whole or part is made during a period of twelve months from the date of issue of this sanction letter.

C. The PI is authorized to incur the expenditures towards the general administrative requirements of the project and towards fees payable to Auditor/Chartered Accountant for audit of accounts of the project, from the funds sanctioned under "overhead" for the project.

D. The other Terms and Conditions governing the payment of the grant-in-aid have already been sent to you while sanctioning the grant for the first year of the project.

E. Grant for the second year will be released in FULL (unspent balance of previous year and Interest earned will be adjusted) on receipt of the bill IN DUPLICATE in prescribed FORM-II along with the following documents.The data for these documents are required to be filled online and a printout of the same should be forwarded to the undersigned after obtaining original signatures of the concerned officials.

(a) Utilization Certificate (FORM-III) for the preceding year.
(b) Statement of Accounts signed by Internal Auditor/ Accountant of the Institution/ University (FORM-IV) for the preceding year. Interest earned in previous year should be reflected in the Statement of Accounts.
(c) Copy of appointment order and joining report of the staff appointed for the project along with Minutes of the Selection Committee.
(d) An Inventory of euipment (FORM-V).

F. PLEASE NOTE THAT CLAIM(S) SHALL BE SUBMITTED TO THIS DEPARTMENT WELL IN ADVANCE BEFORE THE END OF THE FINANCIAL YEAR IN WHICH THE CLAIM IS DUE. OTHERWISE, THE SANCTIONED GRANT WILL BE LAPSE.

G. Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed Form-PRA after logging into his/her account at www.daebrns.gov.in . Template for Form-PRAcan be downloaded from website www.daebrns.gov.in . All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
6. Member Secretary (BRE) : Dr. Surendra Singh, SSPD, BARC surendra@barc.gov.in; Ph:+91-1234 .
7. Principal Collaborator(PC): Dr. C Majumder, ChD, BARC, Trombay, Mumbai-85, Email : chimaju@barc.gov.in, Mobile :9969377523 .

Pandey 15.5.2019

Dr. Ashok Pandey

Note:

1. Please quote the Sanction Number 37(2)/14/07/2018-BRNS in all your correspondence with BRNS.
2. Kindly upload renewal/extension forms and update the Statement of Accounts, details of Bank Account, Equipment and staff appointed, after clicking view application the menu available on the top left corner needs to be populated by the PI. All the forms mentioned in the sanction letter and the terms and conditions are available on the website. In case of any difficulty, please call up the undersigned.
3. Please note that as per the government orders under **Direct Benefit Transfer (DBT)scheme, the staff salary has to be transferred to his/her bank account**. Accordingly, Aadhar Number(UID) of the appointed staff, BankAccount details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

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Revised Project Proposal
(Ref No: DST/SEED/INDO-UK/002/2011)

On

Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV

Submitted to

Department of Science and Technology; Government of India;
New Delhi - 110016

Under

Indo-UK Collaborative Research Initiative
on
"Bridging the Urban Rural Divide"

by

Visva-Bharati University (Lead Investigator)
Indian Institute of Technology Madras (Co-Investigator)
Indian Institute of Technology Bombay (Co-Investigator)

In Collaboration with

Heriot-Watt University, Endinburgh, UK
University of Leeds, Leeds, UK
University of Nottingham, Nottingham, UK
NB Institute for Rural Technology, NGO, Kolkatta, India

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Part I: Proposal Summary (Restricted to 3-4 pages only)

1. Project Title:
Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV

2. Nature of project: (Pl. tick one or more boxes, as applicable)

Technology development (new product/process or up/down scaling of existing systems)	√
Technology development & transfer (development of product/process followed by field adaptation trials, demonstrations & transfer of technology)	√
Technology dissemination (dissemination of available technology for solution of identified problem)	
Technology adaptation/optimization, demo and training	
Other (Please specify)	

3. Implementing Organization (s):

	Role & responsibility	
a. Implementing Org.	**Visva-Bharati University** **Indian Institute of Technology Madras** **Indian Institute of Technology Bombay**	**PI (India)** **CI** **CI**
b. Collaborator(s)	Heriot-Watt University University of Leeds University of Nottingham NB Institute for Rural Technology	PI (UK) CI CI NGO

4. Name of PI, Co-PI's and Affiliation

i. PI	
Name	**Prof. Shibani Chaudhury**
Organization	Visva-Bharati University
City (with pin code)	Santiniketan - 731235
Highest qualification & subject	PhD in Zoology
ii. Co-PI	
Name	**Prof. Amit Hazra**
Organization	Visva-Bharati University
City (with pin code)	Santiniketan - 731235
Highest qualification & subject	Ph.D, Agricultural Economics
iii. Co-PI	
Name	**Dr. Balachandran**
Organization	Visva-Bharati University
City (with pin code)	Santiniketan; 731235
Highest qualification & subject	PhD in Environmental Sciences
iv. Co-PI	
Name	**Dr. K S Reddy**
Organization	Indian Institute of Technology Madras
City (with pin code)	Chennai; 60036
Highest qualification & subject	PhD in Solar Energy
v. Co-PI	
Name	**Dr. Srinivas Srinivas**
Organization	Indian Institute of Technology Madras
City (with pin code)	Chennai; 60036
Highest qualification & subject	PhD in Power Electronics

vi. Co-PI	
Name	**Prof. Mahesh Kumar**
Organization	Indian Institute of Technology Madras
City (with pin code)	Chennai; 60036
Highest qualification & subject	PhD in Power Electronics
vii. Co-PI	
Name	**Dr. P C Ghosh**
Organization	Indian Institute of Technology Bombay
City (with pin code)	Mumbai; 400076
Highest qualification & subject	PhD in Renewable Energy

5. Objectives

To develop an efficient and low cost solar Concentrating Photovoltaic (CPV) system.

a. To investigate the optical losses of the CPV system and improve the optical efficiency of the concentrator system to 91% by developing a single sheet reflector material (currently ~85%).
b. To develop integrated optical-thermal-electrical (OTE) model of CPV system for performance enhancement.
c. To develop AD biogas system for supply of electrical power to the rural community.

To develop a low-cost version of the AD system based on locally available material in India.

a. To develop an energy efficient Hydrogen storage system
b. To develop a 10kWe autonomous integrated 15kWth Biomass-7.5kWe CPV (BioCPV) for rural electrification.

To provide reliable and autonomous electrical power to rural society.

a. To carry out a social and economical study to identify the effect of the livelihood of the villagers.

6. Methodology and Work Plan (Max. 250 words):

i. State the methodology in a sequence of clearly defined steps leading to achievement of the stated objectives

The project is divided into six main workpackages (**WP**) are:

WP1: System Specification, Component level Modelling (Lead: VBU & All)

This work package will provide detailed specifications, requirements for all subsystems and computer simulations for the individual components of the integrated system.

WP2: Advances and Development of Concentrating Photovoltaic System (Lead: HWU, IITM)

A new reflective based CPV system of CR of 500× will be developed by using a single sheet of reflective material. The special radial receiver and the acceptance angle of the system of 1.0º will be employed to reduce its optical mismatch and improve efficiency to >37%.

WP3: Development of medium sized modular biomass/waste AD system (Lead: UoL, VBU)

A 15kWth anaerobic digestion reactor will be developed through comprehensive CFD modelling and experimental investigations.

WP4: Hydrogen generation and storage from Biomass and CPV system (Lead: UoN, IITB)

This task will design and optimize a hydrogen storage system which uses 30% less electrical power to run. This will be realized through reducing parasitic losses.

WP5: Integration of Biomass-CPV system and development of a stand-alone rural power system for improving rural energy supply (Lead: IITM, HWU)

Various components and sub-components will be integrated into a complete system, and early testing for faults will be performed.

WP6: Development of digital monitoring and healthcare benefit for local users (Lead: IITB, IITM, VBU, HWU)

This work package will develop a GPS based remote monitoring algorithm for the CPV and Biomass system such that the integrated system can be monitored from UK.

ii. Phase wise Work plan of action with time line and deliverables in **tabular form**

Indian Lead: Visva-Bharati University
UK Lead: Heriot-Watt University

Workpackages & Tasks		Task Leader
WP1	**System Specification, Component level Modelling**	**VBU**
T1.1	System specification and requirements	All
T1.2	Optical-thermal-eletrical modelling for CPV system	HWU, IITM
T1.3	Biomass System modelling	VBU, UoL
T1.4	Energy efficient Hydrogen system modelling	UoN, IITB
WP2	**Advances and Development of Concentrating Photovoltaic System**	**HWU**
T2.1	Optical system development	HWU, IITM
T2.2	Receiver, cell assemble design & prototype development	HWU
T2.3	Development of cooling technologies for CPV system	HWU, IITB
T2.4	Novel tracking for CPV system	HWU, IITM
T2.5	7.5 kW CPV system development	HWU, IITM
WP3	**Development of medium sized modular Biomass/Waste AD system**	**UoL**
T3.1	Optimisation of AD prototype using CFD simulations	UoL, VBU
T3.2	Low cost Biomass AD system development	UoL, VBU
T3.3	Integration of CPV system with AD system	UoL, VBU
T3.4	Scalability studies of the developed AD plant	UoL, VBU
WP4	**Hydrogen generation and storage from Biomass and CPV system**	**UoN**
T4.1	H2 generation from CPV and Biomass system	UoN, VBU
T4.2	New material development for H2 Storage	UoN, IITB
T4.3	Integration of H2 with CPV and Biomass system	UoN, VBU
T4.4	Power generation for Hydrogen system	UoN, IITB
WP5	**Integration of Biomass-CPV system and development of a stand-alone rural power system**	**IITM**
T5.1	Electrical and thermal management of CPV system	IITM, HWU
T5.2	Thermal management for Biomass system	IITM, UoL
T5.3	Thermal management for Hydrogen system	IITM, UoN
T5.4	Energy management and BioCPV system installation	IITM, HWU
WP6	**Development of digital monitoring and healthcare benefit for local users**	**IITB**
T6.1	GPS based monitoring algorithm development	IITM, HWU
T6.2	Remote monitoring & characterisation of BioCPV system	IITB, IITM
T6.3	Socio-economical and health enhancement study	IITB, VBU

7. Project Area:

Project Area: √ Rural ☐ Urban ☐ Both
Geographical Focus Area: Village(s)/urban locality: **Uttar Sehalai;** Block/Taluka: **Bolpur-Sriniketan Block** District: **Birbhum** ; State: **West Bengal**
Project Area Profile (Give following details along with a neatly drawn location map):
I. Geographical area covered : 7 Hectare Climate : Tropical Land use pattern : Household and agriculture, animal husbandry Crops : Mainly Paddy (in Two seasons viz. Autumn and Summer), Mustard, Potato, Wheat, Pulses in Winter Cropping patterns: Paddy – Mustard – Paddy, Paddy – Potato - Paddy, Availability of natural resources & raw materials: Water, River, Riverside forest, Straw (By-products of Paddy, Wheat, Mustard) Availability of special skills/trades: Basket making, Pottery, Sola (water hyacinths product), Seed ornaments, Mason, musical instrument making etc. Location map : Will be attached with hard copy (Annexure I)
II. a. *Socio-economic status (such as conditions and occupations) of the target beneficiaries* : Most of the beneficiaries live a unhygienic living, most of them are Below Poverty Line (BPL category), occupations are diversified and marginal like mason, daily labour, agricultural labour, farmer availability of basic amenities and facilities such as water & sanitation is not available *Health centers:* not available *Communication:* non-metalled roads (kachcha), morrum roads *Marketing facilities*: nearest marketing facility available 2 km. away b. Baseline data sheet which may be assessed annually with respect to results and deliverables during implementation of the project activities (if it is to improve livelihood opportunities through improved agriculture practices, what are the present status in terms of soil conditions): Acidic in nature, clay Crop productivity: below average Disease management: nil etc.

8. Target Beneficiaries

Type of Target Beneficiaries:	
☐ ST population:	**160**
☐ Economically weaker section :	**157 (SC)**
☐ Labourers :	**310**
☐ Artisans :	**15**
☐ Women :	**172**
☐ Youth :	**143**
☐ Children :	**73**
Total Size of Target Group(s) indicating % of women:	**54.25 %**
SC :	**49.53%**
ST of total population in project area:	**50.47%**
Present average income level at the household level:	**Rs. 2500 per month**

9. **Total Budget (Rs. in Lakhs):798.82**
   i. Recurring Cost (Rs in Lakhs): **541.03**
   ii. Non-Recurring Cost (Rs in Lakhs): **240.79**

S. No.	Item	Budget (Rs. in Lakhs)			
		1st Yr	2nd Yr	3rd Yr	Total
A	**Recurring**				
	1. Manpower	49.32	54.84	59.64	**163.80**
	2. Consumables	59.99	27.54	44.01	**131.53**
	3. Travel	38.59	32.64	29.47	**100.70**
	4. Field testing, Demo/ Training expenses (if applicable)	1.00	2.00	2.00	**5.00**
	5. Contingencies/Other costs	22.00	13.00	14.00	**49.00**
	6. Institutional Overheads*	66.40	21.90	22.70	**111.00**
	7. Any other item	0.00	0.00	0.00	**0.00**
B	**Non-Recurring**	0.00	0.00	0.00	
	Permanent equipment	220.79	0.00	0.00	**220.79**
	Construction of work shed/structures	2.00	10.00	5.00	**17.00**
	Fabrication of prototype equipment	0.00	0.00	0.00	0.00
	Grand Total (A+B)	**460.08**	**161.92**	**176.82**	**798.82**

10. Deliverables (the list below must correspond with and be derived from # 5 & # 6):

Deliverable	Mark √	Brief description
Product development/adaptation	√	New CPV module will be adapted and developed. Efficiency enhancement will be made for bacterial growth to separate hydrogen from methane, hence H_2 generation from biogass.
Process development/adaptation	√	Integration strategies biomass and solar power.
Technology package for development of the project area and local community	√	Biomass and solar integrated power supply to the local community.
Technology capability development, training & documentation (e.g. reports, papers, articles, technology manuals, patents)	√	• PhD students and scientists will be trained • All deliverables/milestones will be reported and submitted to DST • Research outcomes will be reported in peer reviewed high impact scientific journals and national/international conferences. • Appropriate patent on CPV dish, hydrogen conversion from biomass and hydrogen storage will develop at Indian institutions.
Scientific knowledge and/or data generation leading to technology development in future	√	• Integration strategies will lead to develop other intermittent energy resources to produce continuous power supply.

Part II - Technical Details

1. I. **Statement of the problem**

Given the threat posed by global warming it is widely accepted that the reliance on fossil fuels for our energy need must decrease rapidly. To tackle the global threat and self dependency on fossil fuels, renewable energy such as solar, wind, wave and biomass gives the pathways to reduce the overall CO_2 emissions to the atmosphere. This project addresses the issues related to integrated solar photovoltaic system - converting incoming solar energy into electricity and biomass power technologies - generation of electrical power from waste materials, for rural electrification.

This project seeks to develop a new class of solar photovoltaic technologies - Concentrating Photovoltaic (CPV) to integrate with Biomass power generation as a backup source and develop high efficiency hydrogen generation and storage from the integrated systems. The integrated system will be installed at Uttar Sehalai Tribal Hamlet, located in a remote village, 200km north-west of Calcutta for rural electrification with key focuses on satellite based remote monitoring technologies. The village is comprised of 64 households and has a population of approximately 400. It is located very close to Visva-Bharati University, Santiniketan (a probable World Heritage Site).

II. **Technology gaps & Suggested solution** (150 words):

(Describe how the proposal will lead to a novel and effective solution, **based on a scientifically and technically sound concept** and keeping in view the user needs and local availability of resources)

This project will develop an integrated solutions for renewable energy technologies by combining the solar photovoltaic and biomass to build up an autonomous power supply system suitable for remote applications. The solar power will be converted by high efficiency concentrating photovoltaic system (CPV). The electrical conversion efficiency of such system will be enhanced by utilizing single sheet reflectors, minimizing optical losses and developing nano-structured silicon based receiver system. An anaerobic digester will also be developed for utilizing locally available biomass resources such that the electricity will be provided during the unavailability of solar energy. In addition, metal hydride based material will be examined for enhancing performance efficiency of hydrogen storage. Hydrogen will be generated during the peak solar hour and stored in newly developed metal hydride based materials. Such methods will ensure to minimize parasitic losses enhancing overall conversion efficiencies.

2. **Review of Status** - (100 words): Are you aware of any other initiative related to proposed activities to solve this problem? What were the outcomes?

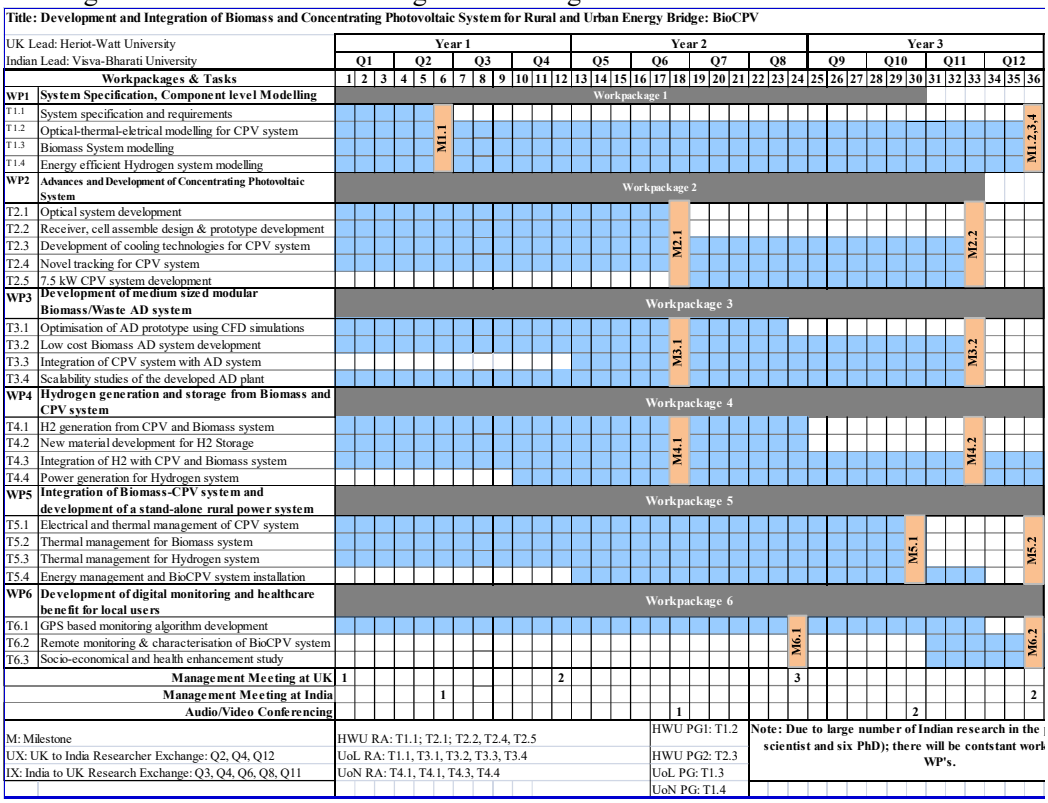
(Mention importance of the project in context of the current status, and demonstrate how the project will progress beyond the "state-of-art" or the best initiative tried by others in providing new innovative technological solution to the identified problem and user needs)

Several systems have been developed for the Anarobic digester in India and different types of CPV systems have been reported worldwide. CPV system can be reflective type such as developed by Zeneth Solar, Solfocus and Arzues based CP technology, and examples of refractive type CPV technologies are Amonix, Emcore, and Soitec. However, CPV research in India is very limited, mainly reported CPV systems are in low concentration based. In India, reported CPV system's efficiencies are less than 10% and worldwide, highest CPV system of 32% has been reported. Medium sized CPV systems (~1-2m^2) are yet to be reported in scientific journals.

3. **Methodology** (100 words):

- This alternative energy supply will be eco-friendly, environmentally sound.
- Overall sustainable development can be achieved by involving all types of stakeholders.
- Educational improvement.
- Enrollment in primary schools.
- Drop out rates will diminish.
- Community culture will be increased.
- Conflict resolution through discussion.
- Health centre.
- Reducing alcoholicity.
- Communication will be improved.

Work Plan (150 words - Please also provide activities schedule – Pert Diagram):
The grant chart for all activities is given in the figure below.



i. **Source of Technology**:

Source	**Name of agency/institution/individual expert**
Generated in-house by staff	IIT Madras/ Prof. Reddy – CPV dish VBU/Prof. Chaudhury - Microbal growth for Biomass Hydrogen -
Generated in-house by employing outside experts	*Nil*
Borrowed from an outside institution/expert	CPV cells, receiver, Biomass Anaerobic Digester and Metal Hydride based H2 storage will be borrowed from UK partners.
Modification of technlogy/know-how being used by the beneficiaries	Electrical distribution network from the NGO

ii. **Mechanisms for Beneficiaries mobilization & Involvement:**
(Please indicate how mobilization & participation of beneficiaries in the project work will be ensured)

☐ Formation of new SHGs/technology user group or beneficiaries' group for project implementation: technology user group can be formed
☐ Involvement of existing SHGs: 3 in number
☐ Through demonstration of usefulness of technology or training package
☐ Involvement of beneficiaries through formation of enterprises
☐ Provision of certificates for participation/proficiency for beneficiaries
☐ Involvement of the beneficiaries as trainers and/or trainees
☐ Financial contribution by beneficiaries in project execution: nil
☐ Material contribution (tools/raw material, labour, etc.) by beneficiaries in project execution:
☐ handholding through local panchayats/welfare organizations: support will be taken from NGO
☐ Any others (please specify):_____

4. **Environmental, Legal and Ethical Issues:**
(Explain any environmental, legal and ethical compliance issues. Please mention how these will be addressed & enclose clearance certificate from concerned authorities if required)
It is confirmed that the local authority (Panchayats) has no objection and the community welcomed the project when discussed.

5. **Deliverables** (the list below must correspond with and be derived from # 4, # 5 & # 6. Please also indicate affordability of deliverables to the target beneficiaries):

Deliverable	Mark √	Brief description
Product development/adaptation	√	New CPV module will be adapted and developed. Efficiency enhancement will be made for bacterial growth to separate Hydrogen from Methane, hence H2 generation from Biogass.
Process development/adaptation	√	Integration strategies Biomass and solar Power.
Technology package for development of the project area	√	Biomass and Solar integrated power supply to the local community.
Technology capability development, training & documentation (e.g. reports, papers, articles, technology manuals, patents)	√	• Training of PhD students and scientists will be arranged. • All deliverables/milestones will be reported and submitted to DST. • Research outcomes will be reported to peer reviewed high impact scientific journals and national/international conferences. • Appropriate patent on CPV dish, Hydrogen conversion from Biomass and hydrogen storage will develop at Indian institutions.
Scientific knowledge and/or data generation leading to technology development in future	√	• Integration strategies will lead to develop other intermittent energy resources to produce continuous power supply.

6. **Estimated Benefits** (100 words):

Benefit	Mark √	Brief description
Economic (Cost-benefit analysis)	√	Social benefits will be more than economic benefits.
Employment generation	√	Employment generation will be created through improvement of physical quality of life.
Social	√	Social and economic upliftment will be enhanced.
Environmental including potential for CDM benefits	√	Habit of composting (including Vermi-composting) and organic farming will be enhanced leads to sustainable agriculture.
Others (Please specify)		

Note: Please also comments on the possible benefit sharing mechanism of project outcome by different stakeholders.

7. Self- sustainability of the project after DST's project support is over (30 words):
A NGO "West Bengal Green Energy Development Corporation Limited" has confirmed self-sustainability of the project (see attached letter) once the DST's project support is over.

8. Possibility of replication of project in similar areas (after the proposed technological solution is proven, how it will be distributed? Involving state govt. for large scale technology dissemination or via market or any other means - any entrepreneur or business person involved in the work in any manner?):
Replication of the project may be done in similar socio-economic conditioned tribal / backward areas. As Visva-Bharati University is working with 50 villages surrounding its headquarter, the benefits / outcome of the project can easily be replicated in any of these villages having no electricity. Distribution will be made household wise, it will be need based and in this purpose the government and local NGOs can be involved.

9. Suggest measurable indicators (**10-12 tangible as well as non-tangible along with means of verification)** for monitoring effectiveness of project interventions in respect to the stated objectives and deliverables. The indices you choose must permit objective measurement and determination *vis-à-vis* time line during project cycle comparing with base line data:

1. Education
2. Purchase Power Parity
3. Empowerment
4. Community culture
5. Environmental Parameters
6. Availability of water Sanitation
7. Health Improvement
8. Autism
9. Social Motivation
10. Per capita energy consumption
11. Improved standard of living
12. Carbon foot print
13. Per capita income
14. Economical benefit

Part III. Budget Details

BUDGET ESTIMATES: SUMMARY

Total

S. No.	Item	Budget (Rs in Lakhs)			
		1st Yr	2nd Yr	3rd Yr	Total
A	**Recurring**				
	1. Manpower	49.32	54.84	59.64	**163.80**
	2. Consumables	59.99	27.54	44.01	**131.53**
	3. Travel	38.59	32.64	29.47	**100.70**
	4. Field testing, Demo/ Training expenses (if applicable)	1.00	2.00	2.00	**5.00**
	5. Contingencies/Other costs	22.00	13.00	14.00	**49.00**
	6. Institutional Overheads*	66.40	21.90	22.70	**111.00**
	7. Any other item	0.00	0.00	0.00	**0.00**
B	**Non-Recurring**	0.00	0.00	0.00	
	Permanent equipment	220.79	0.00	0.00	**220.79**
	Construction of work shed/structures	2.00	10.00	5.00	**17.00**
	Fabrication	0.00	0.00	0.00	0.00
Grand Total (A+B)		**460.08**	**161.92**	**176.82**	**798.82**

Visva-Bharati University

S. No.	Item	Budget (Rs. in Lakhs)			
		1st Yr	2nd Yr	3rd Yr	Total
A	**Recurring**				
	1. Manpower	21.24	23.88	26.28	**71.40**
	2. Consumables	6.54	7.54	28.01	**42.08**
	3. Travel	17.10	15.58	15.15	**47.83**
	4. Field testing, Demo/ Training expenses (if applicable)	1.00	2.00	2.00	**5.00**
	5. Contingencies/Other costs	9.00	6.00	8.00	**23.00**
	6. Institutional Overheads*	18.00	6.70	8.90	**33.60**
	7. Any other item				**0.00**
B	**Non-Recurring**				
	Permanent equipment	109.48			**109.48**
	Construction of work shed/structures	2.00	10.00	5.00	**17.00**
	Fabrication				0.00
Grand Total (A+B)		**184.35**	**71.69**	**93.34**	**349.38**

Indian Institute of Technology Madras

S. No.	Item	Budget (Rs. in Lakhs)			
		1st Yr	2nd Yr	3rd Yr	Total
A	**Recurring**				
	1. Manpower	22.14	24.48	26.52	**73.14**
	2. Consumables	47.95	18.00	14.50	**80.45**
	3. Travel	16.09	12.93	11.66	**40.68**
	4. Field testing, Demo/ Training expenses (if applicable)				**0.00**
	5. Contingencies/Other costs	8.00	5.00	4.00	**17.00**
	6. Institutional Overheads*	37.80	12.40	11.20	**61.40**
	7. Any other item				**0.00**
B	**Non-Recurring**				
	Permanent equipment	90.31			**90.31**
	Construction of work shed/structures				**0.00**
	Fabrication				0.00
Grand Total (A+B)		**222.29**	**72.81**	**67.88**	**362.98**

Indian Institute of Technology Bombay

S. No.	Item	Budget (Rs. in Lakhs)			
		1st Yr	2nd Yr	3rd Yr	Total
A	**Recurring**				
	1. Manpower	5.94	6.48	6.84	**19.26**
	2. Consumables	5.50	2.00	1.50	**9.00**
	3. Travel	5.40	4.14	2.66	**12.20**
	4. Field testing, Demo/ Training expenses (if applicable)				**0.00**
	5. Contingencies/Other costs	5.00	2.00	2.00	**9.00**
	6. Institutional Overheads*	10.60	2.80	2.60	**16.00**
	7. Any other item				**0.00**
B	**Non-Recurring**				
	Permanent equipment	21.00			**21.00**
	Construction of work shed/structures				**0.00**
	Fabrication				0.00
Grand Total (A+B)		**53.44**	**17.42**	**15.60**	**86.46**

1. Financial Year : April to March
2. It is essential to provide brief & adequate justification for each item of expenditure.

A. Recurring:

1. BUDGET FOR MANPOWER

Visva Bharati University

S.No.	Designation	No.	Qualification & experience	Monthly emolument (Rs)	Budget (Rs. in lakhs)			
					1st Yr	2nd Yr	3rd Yr	Total
1	Project Manager	1	PhD in Science/Engineering with 5 yrs of experience	60000	7.2	8.4	9.6	**25.2**
2	Senior Scientist	1	PhD in BioEnergy/ Chemistry/ Environmental Science/ Engineering	27500	3.3	3.84	4.2	**11.34**
3	Senior Scientist	1	MSc in Environmental Science/ Biology/Chemistry or in Mechanical Engineering or applied Physics	27500	3.3	3.84	4.2	**11.34**
4	Project Associate	1	BTech in Electronics Engineering with more 4 yrs of experience in circuit algorethim, networking, digital monitoring	18000	2.16	2.52	3	**7.68**
5	PhD Scholar	1	MSc and Gate/NET	22000	2.64	2.64	2.64	**7.92**
6	PhD Scholar	1	MSc and Gate/NET	22000	2.64	2.64	2.64	**7.92**
Total					**21.24**	**23.88**	**26.28**	**71.4**

Indian Institute of Technology Madras

S.No.	Designation	No.	Qualification & experience	Monthly emolument (Rs)	Budget (Rs. in lakhs)			
					1st Yr	2nd Yr	3rd Yr	Total
1	Senior Scientist	1	PhD in Solar Energy and/or related areas. Experience in Solar PV is essential.	27500	3.3	3.84	4.2	**11.34**
2	Senior Scientist	1	PhD in Mechanical Engineering and/or heat transfer areas	27500	3.3	3.84	4.2	**11.34**
3	Senior Scientist	1	MTech in Electrical Engineering or BTech in Electrical Engineering with 2 yrs of experience in controls.	27500	3.3	3.84	4.2	**11.34**
4	Project Associate	1	MTech in Mechanical Engineering or BTech in ME with 2 yrs of experience in system design engineering	18000	2.16	2.52	3	**7.68**
5	Project Associate	1	MTech in Electrical /Electronics Engineering or BTech in ME with 2 yrs of experience in system design engineering	18000	2.16	2.52	3	**7.68**
6	PhD Scholar	1	BE/BTech in Electrical	22000	2.64	2.64	2.64	**7.92**
7	PhD Scholar	1	BE/BTech in Mechanical	22000	2.64	2.64	2.64	**7.92**
8	PhD Scholar	1	BE/BTech in Mechanical	22000	2.64	2.64	2.64	**7.92**
Total					**22.14**	**24.48**	**26.52**	**73.14**

Indian Institute of Technology Bombay

Sl.No.	Designation	No.	Qualification & experience	Monthly emolument (Rs)	Budget (Rs. in lakhs)			
					1st Yr	2nd Yr	3rd Yr	Total
1	Senior Scientist	1	M Tech in Mechanical Engineering or BTech in ME with 2 yrs of experience in heat transfer related work specially in Solar Energy or Hydrogen systems	27500	3.3	3.84	4.2	**11.34**
2	Project Associate/ (PhD)	1	MSc or BE/BTech	22000	2.64	2.64	2.64	**7.92**
Total					**5.94**	**6.48**	**6.84**	**19.26**

i. Only NET/GATE qualified candidates can be appointed as Res. Associate/SRF/JRF.
ii. DST would not entertain any request for hike in emolument of project staff during the project period.
iii. Limited funds may be allowed as 'Honorarium to Experts' for need-specific consultancy.

2. BUDGET FOR CONSUMABLES*

Overall Consumables

Sl.No.	Item	Qty./Yr	Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
Please see the breakdown below			59.99	27.54	44.01	**131.53**

Visva-Bharati University

S.No.	Description of consumable	Qty./Yr	Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	Transport to the Site	Rs 800 a day, twice a week, for 8 years	0.84	0.84	5.04*	**6.72**
2	Land rental	5000 per month	0.6	0.6	3.6*	**4.8**
3	Labourer for Biomass collection	100 per day for three people	1.095	1.095	6.57*	**8.76**
4	NGO cost (See attached letter)		2	3	10.8	**15.8**
5	Mechanical tools, assemble, biomass and cpv components installation, glassware, chemical wares	Several	2	2	2	**6**
Total			**6.54**	**7.54**	**28.01**	**42.08**

*: Please note that the system will be running for five years after DST project completed, hence, cost or biomass collection, land rental charges are included.

Indian Institute of Technology Madras

Sl.No.	Description of consumable	Qty./Yr	Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	Thermocouples	several	1.5	1	1	**3.5**
2	Optical system concetrator	several components	2	2	2	**6**
3	Design software (Optics, CFX, TRNSYS, PVSAT, CCS)	one each	2	2	2	**6**
4	CPV tracking development	five	2	3	0	**5**
5	III-V CPV cells	300 cells	2	4	4	**10**
6	Power controller	10	7	1	1	**9**
7	Voltage & Current transducers	20	2	2	1.5	**5.5**
8	GPS communication	1	2.00			**2**
9	Inverters & Converters	2	3.00			**3**
10	Set up choppers	2	2.00			**2**
11	Transformers	2	2.00			**2**
12	Digital controller platform	2	2.00			**2**
13	Transducers + PCBs	10	2.20			**2.2**
14	Digital Signal Processing platform	1+1	1.25			**1.25**
15	(EVM & Starter Kit)					**0**
16	Installation of systems at site (Cabling, control panels, metering, converters, battery backup, etc.) with AMC for 2 years	1 each	12.00	3	3	18
17	5 kW Engine/gen set/	1	3.00			
Total			**47.95**	**18**	**14.5**	**80.45**

Indian Institute of Technology Bombay

Sl.No.	Description of consumable	Qty./Yr	Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	Labware/gasware	One each	1	1	0.5	**2.5**
2	Storage System	two	1	1	1	**3**
3	Chiller	One	1.5	0		**1.5**
4	Computer based data acquisition system	One	2	0	0	**2**
Total			**5.5**	**2**	**1.5**	**9**

* Includes items like chemicals, glasswares, supplies, seed, pesticides, fertilizers, raw materials for fabrication, stationery, etc.

3. BUDGET FOR TRAVEL

Visva Bharati University

Sl.No.	Purpose		Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	Project logistics	Indian Meeting	1.80	1.80	1.80	**5.40**
1.1		International Meeting	4.78	4.78	4.78	**14.34**
1.2		Conference	3.05	3.05	3.05	**9.14**
		PhD Exchange	2.95	2.95	0.00	**5.90**
1.3		Scientist Exchange	2.53	0.00	2.53	**5.05**
2	Field activities		1.00	2.00	2.00	**5.00**
3	DST review meetings		1.00	1.00	1.00	**3.00**
Total			**17.10**	**15.58**	**15.15**	**47.83**

Indian Institute of Technology Madras

Sl.No.	Purpose		Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	Project logistics	Indian Meeting	1.35	1.35	1.35	**4.05**
1.1		International Meeting	3.59	3.59	3.59	**10.76**
1.2		Conference	3.57	3.57	3.57	**10.71**
		PhD Exchange	4.43	4.43	0.00	**8.85**
1.3		Scientist Exchange	3.16	0.00	3.16	**6.31**
2	Field activities					**0**
3	DST review meetings					**0**
Total			**16.09**	**12.93**	**11.66**	**40.68**

Indian Institute of Technology Bombay

Sl.No.	Purpose		Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	Project logistics	Indian Meeting	0.45	0.45	0.45	**1.35**
1.1		International Meeting	1.20	1.20	1.20	**3.59**
1.2		Conference	1.02	1.02	1.02	**3.05**
		PhD Exchange	1.48	1.48	0.00	**2.95**
1.3		Scientist Exchange	1.26	0.00	0.00	**1.26**
2	Field activities					**0**
3	DST review meetings					**0**
Total			**5.40**	**4.14**	**2.66**	**12.20**

4. FIELD TESTING/DEMO/TRAININGS*

Sl.No.	Description of field testing/demos /trainings	No/Yr	Budget (Rs. in lakhs)			
			3rd Yr	4th Yr	5th Yr	Total
1	Testing at the village, organizing training and work shop after the implementation of the project.	1/Yr3	1.00	2.00	2.00	**5.00**

* Include material for technology field testing/demo, training manuals, training expenses for beneficiaries. **Note:** For training give details about the subject of training(s), no. of beneficiaries/training, duration of training days, cost /training).

5. BUDGET FOR CONTINGENCIES*

Sl.No.	Item	Qty./Yr	Budget (Rs. in lakhs)			
			1st Yr	2nd Yr	3rd Yr	Total
1	This includes in-house computer time, secretarial assistance, documentation, IP protection, maintaining and servicing equipments, project review arrangements,	Three years	22.00	13.00	14.00	**49.00**

* Includes items like computer time, secretarial assistance, documentation, cost of technology transfers/acquisitions (intellectual fees), lab/field trials, maintenance/servicing of equipment, incidental expenses, etc.

B. Non-Recurring:

BUDGET FOR PERMANENT EQUIPMENT/WORKSHED/STRUCTURES

Visva-Bharati University

S No	Item/Equipment	Quantity	Amount (Rs in Lakhs)
1	Thermo Flash CHN Analyser	1 @ £34601	26.99
2	Thermo Flash Analyser assecirios	1	1.50
3	Anaerobic Chamber	1 @$28028	13.45
4	Isotherm Incubator	1	1.54
5	Ultra Low deep freezers (4.2) + Autoclave (0.56) +Electronic Banalce (1.55)	1 each	6.31
6	Perkin Elmer GC System	1 @ $38698	18.58
7	Weather Station & Sun sensor	1 @ AUD 12850	6.17
8	Digester	1 @ Euro 7375	4.79
9	Real-time PCR System	1 @Euro 16500	10.73
10	Gel Doc EZ System	1 @ $ 13340	6.40
11	Mini-sub Cell GT System	1 @ $6775	3.25
12	Wide Mini-sub Cell GT system	1 @ $7847	3.77
13	Computing facilities	8 @ 0.75 lakhs	6.00
Total			**109.48**

Institute of Technology Madras

Sl No	Item/Equipment	Quantity	Amount (Rs in Lakhs)
1	Spectrophotometer	1 @ $82488	38.77
2	Kipp & Zenon dual axes tracker and associated kits	1 @£23490	17.62
3	EKO IV Tracer	1 @ Euro 22,800	14.82
4	Digital Storage Oscilloscope	2	8.40
5	Power Scope with current probe	2	6.20
6	Computing facilities	6 @ 0.75 lakhs	4.50
Total			**90.31**

Indian Institute of Technology Bombay			
Sl No	**Item/Equipment**	**Quantity**	**Amount (Rs in Lakhs)**
1	Electrolyser Kit	1 @£25000	18.75
2	Computing facilities	3 @ 0.75 lakhs	2.25
Total			**21.00**

i. Include installation charges, transport, taxes/duties/levies, etc. Please try to avail tax/duty exemptions as applicable to your institution/organization.

ii. Budgetary quotations will be required for permanent equipment (estimates, if the equipment is to be fabricated locally for prototype testing etc) and other items under non-recurring head, once project is approved for financial support.

iii. Drawings/layouts, etc. prepared by authorized professionals/agencies should be submitted for proposed work shed/structures, if applicable, and supported by documents showing availability of required land along with consent letter from the owner (Panchayat/individual/Govt./etc.).Land area 10 decimal will be hired / taken for the purpose on monthly rental basis. The person (Kanka Soren, a Tribal person) is agreed to rent out the land from his own land resource for the purpose. The agreement letter is attached herewith.

iv. Proper record should be maintained for the items procured under this Head.

Annexure-I:

ENDORSEMENT FROM THE HEAD OF INSTITUTIONS

आचार्य
डॉ० मनमोहन सिंह
ACHARYA
DR. MANMOHAN SINGH

उपाचार्य
प्रो० रजत कान्त राय
UPACHARYA
PROF. RAJAT KANTA RAY

विश्वभारती
VISVA-BHARATI

(Established by the Parliament of India under
Visva-Bharati Act XXIX of 1951
Vide Notificatin No. : 40-5/50 G.3 Dt. 14 May, 1951)

संस्थापक
रवीन्द्रनाथ ठाकुर
FOUNDED BY
RABINDRANATH TAGORE

शांतिनिकेतन - 731 235
SANTINIKETAN - 731 235
पश्चिम बंगाल, भारत
WEST BENGAL, INDIA
टेलीफोन/Telephone : (03463) 262-751 (6 lines)
फैक्स/Fax : 91-03463 262-672/261-156/261-409
Website address : www.visva-bharati.ac.in
E.Mail : visva-bharati@visva-bharati.ac.in

सं./No. CES/90/2011-12

दिनांक/Dated 16/06/11

ENDORSEMENT FROM THE HEAD OF INSTITUTION
(TO BE GIVEN ON LETTER HEAD)

PROJECT TITLE: **Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV**

1. Certified that the Institute welcomes participation of Dr. Shibani Chaudhury, Professor-in-Charge, Centre for Environmental Studies, Siksha-Bhavana, Visva-Bharati as the Principal Investigator and Dr Amit Hazrs , Professor & Director, Rural Extension Centre, Institute of Rural Reconstruction, Visva-Bharati University and Dr. S.Balachandran, Senior Lecturer, Centre for Environmental Studies, Siksha-Bhavana, Visva-Bharati as the Co-Investigator for the project and that in the unforeseen event of discontinuance by the Principal Investigator, the Co-Investigator will assume the responsibility for the fruitful completion of the project (after obtaining consent in advance from DST).

2. Certified that the equipment, other basic facilities and such other administrative facilities as per terms and conditions of the grant, will be extended to investigator (s) throughout the duration of the project.

3. Institute assures financial and other managerial responsibilities of the project.

4. Certified that the organization has never been blacklisted by any department of the State Government or Central Government.

Forwarded

Principal 16-06-2011
Siksha-Bhavana

Adhyaksha
SIKSHA-BHAVANA
(Institute of Science)
Visva-Bharati, Santiniketan

Registrar
Visva-Bharati

Karma-Sachiva
(Registrar)
Visva-Bharati

CENTRE FOR IC & SR, IIT MADRAS

No.: ICSR/NP/2011 May 19, 2011

MINUTES OF THE MEETING HELD ON 04.05.2011 AT 2.30PM IN THE CONFERENCE ROOM 1st FLOOR OF IC&SR BLDG.

Sub: Presentation of project proposal on Title **"Development and integration of biomass and concentrating photovoltaic system for rural and urban energy bridge: BioCPV"**

* * *

Present:

Dr. Job Kurian, Dean IC & SR	:	Chairman
Dr. M S Shunmugam,Head (i/c), Dept. of Mechanical Engg.	:	Member
Dr. Ajit Kumar Kolar, Dept. of Mechanical Engg.	:	Member
Dr. S Karmalkar, Dept. of Electrical Engg.	:	Member

Dr. K. Krishnaiah, Dean, Acd. Research could not attend the meeting.

Dr. K Srinivas Reddy, Dept. of Mechanical Engg., and Dr. Srirama Srinivas, Dept. of Electrical Engg., made a brief presentation of the proposal titled **"Development and integration of biomass and concentrating photovoltaic system for rural and urban energy bridge: BioCPV".** Dr. Reddy informed that Dr. Shibani Chaudhury of Visva-Bharati Univerisy, will be the Principal Investigator for the project.

After discussion the Committee approved forwarding the proposal to **Department of Science & Technology.**

DEAN, IC & SR

Ev/-

Prof. JOB KURIAN
DEAN, IC&SR

CENTRE FOR
INDUSTRIAL CONSULTANCY
AND
SPONSORED RESEARCH
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI - 600 036
INDIA

No: ICSR/NP/2011

May 19, 2011

ENDORSEMENT FROM THE HEAD OF THE INSTITUTION

Proposal Title: **"Development and integration of biomass and concentrating photovoltaic system for rural and urban energy bridge: BioCPV"**

***

1. Certified that the Institute welcomes participation of **Dr. K Srinivas Reddy, Dept. of Mechanical Engineering,** as the Principal Co-Investigator for the above project for which **Dr. Shibani Chaudhury, Visva-Bharati Univerisy** is the Principal Investigator.

2. Certified that the equipment and other basic facilities and other administrative facilities as per terms and conditions of the grant, will be extended to the investigator throughout the duration of the project.

3. Institute assures to undertake the financial and other management responsibilities for the work to be carried out by IIT Madras under the project.

(JOB KURIAN)
for Head of the Institution

Ev/-

Phone : +91 (0) 44 2257 8062 / 8061/ 8060 Fax : +91 (0) 44 2257 0545 / 2257 0509 / 2257 8366 email : deanicsr@iitm.ac.in website : http://www.iitm.ac.in

भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई - 400 076, भारत
Indian Institute of Technology Bombay
Powai, Mumbai - 400 076, India

दूरभाष/Phone : (+91-22) 2572 2545
फैक्स/Fax : (+91-22) 2572 3480
वेबसाईट/Website : www.iitb.ac.in

IIT Bombay

ENDORSEMENT FROM THE HEAD OF INSTITUTION

PROJECT TITLE: **Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV**

1. Certified that the Institute welcomes participation of **Dr. Prakash C Ghosh,** Dept. of Energy Sc. and Engg. as the Principal Co-Investigator for the above-mentioned project for which **Dr. Shibani Chaudhury**, Centre for Environmental Studies, Visva-Bharati University is the Principal Investigator.

2. Certified that the equipment, other basic facilities and such other administrative facilities as per terms and conditions of the grant, will be extended to investigator throughout the duration of the project.

3. Institute assures financial and other managerial responsibilities of the project.

4. Certified that the organization has never been blacklisted by any department of the State Government or Central Government.

(Rangan Banerjee)
for Head of the Institution

Date: 13 June 2011
Place:Mumbai

संकायाध्यक्ष, शोध एवं विकास
Dean, Research and Development
कृते निदेशक, आय आय टी मुंबई
For Director, IIT Bombay

Annexure-II

CERTIFICATE FROM THE INVESTIGATORS

Annexure II

CERTIFICATE FROM THE INVESTIGATOR

PROJECT TITLE: Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV

1. We agree to abide by the terms and conditions of the DST grant.

2. We did not submit this or a similar project proposal elsewhere for financial support.

3. We have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the project. We shall not request financial support under this project, for procurement of these items.

4. We undertake that spare time on permanent equipment will be made available to other users.

5. We have enclosed the following materials:

	ITEMS	NUMBER OF COPIES
(a)	Endorsement from the Head of the Institution (on letter head)	One
(b)	Copies of the proposals	3 (Three)
(c)	Registration certificate, Memorandum of association, rules and regulations of the institution, Audited Balance Sheet and annual report of previous three years.	One

Date : 16.06.2011

Name & Signature of Principal Investigator

Professor-in-Charge
Centre for Environmental Studies
Siksha Bhavana, Visva - Bharati
Santiniketan-731235

Place: Santiniketan

Name & Signature of Co-Investigator(s)

1. S. Balachandran
Centre for Environmental Studies
Siksha - Bhavana, Visva - Bharati
Santiniketan- 731235

2. A. Hazra

HEAD
Rural Extension Centre
Visva-Bharati, Sriniketan.

Annexure-II

CERTIFICATE FROM THE INVESTIGATOR

PROJECT TITLE: **Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV**

1. We agree to abide by the terms and conditions of the DST grant.

2. We did not submit this or a similar project proposal elsewhere for financial support.

3. We have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the project. We shall not request financial support under this project, for procurement of these items.

4. We undertake that spare time on permanent equipment will be made available to other users.

5. We have enclosed the following materials:

	ITEMS	NUMBER OF COPIES
(a)	Endorsement from the Head of the Institution (on letter head)	One
(b)	Copies of the proposals	10
(c)	Registration certificate, Memorandum of association, rules and regulations of the institution, Audited Balance Sheet and annual report of previous three years.	One

Date : June 13, 2011

Place:. Chennai

Name & Signature of Principal Investigator

Dr. Shibani Chaudhury

Professor-in-Charge
Centre for Environmental Studies
Siksha Bhavana, Visva - Bharati
Santiniketan-731235

Name & Signature of Co-Investigator(s)

Dr. K. S. Reddy

Dr. K. SRINIVAS REDDY
Associate Professor
Heat Transfer & Thermal Power Laboratory
Department of Mechanical Engineering
Indian Institute of Technology Madras
CHENNAI - 600 036.

Dr. S. [illegible]

Prof. Mahesh Kumar

Dr. MAHESH KUMAR
Professor
Department of Electrical Engineering
Indian Institute of Technology Madras
Chennai-600 036.

Indian Institute of Technology Bombay
Powai, Mumbai-400076, India

Dr.-Ing P. C. Ghosh
Assistant Professor

Ph : (+91-22) 2576-7896
EPABX : (+91-22) 2572-2545
Extn.:7896
Fax : (+91-22) 2576-4890
e-mail : pcghosh@iitb.ac.in
website :
http://www.ese.iitb.ac.in/~pcghosh/

IIT Bombay

Date: 13/06/2011

CERTIFICATE FROM THE INVESTIGATOR

PROJECT TITLE: **Development and Integration of Biomass and Concentrating Photovoltaic System for Rural and Urban Energy Bridge: BioCPV**

1. I agree to abide by the terms and conditions of the DST grant.
2. I did not submit this or a similar project proposal elsewhere for financial support.
3. I have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the project. We shall not request financial support under this project, for procurement of these items.
4. I undertake that spare time on permanent equipment will be made available to other users.

Date : 13 June 2011
Place :Mumbai

Shibani Chaudhury
Name of
Principal Investigator

Professor-in-Charge
Centre for Environmental Studies
Siksha Bhavana, Visva - Bharati
Santiniketan-731235

(Prakash C Ghosh)
Co-Investigator(s)

केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
पूर्ववर्ती केंद्रीय ईंधन अनुसंधान संस्थान, डिगवाडीह परिसर
(वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद्)
विज्ञान एवं प्रोद्यौगिकी मंत्रालय, भारत सरकार

CIMFR

CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH
ERSTWHILE CENTRAL FUEL RESEARCH INSTITUTE, Digwadih Campus
(Council of Scientific & Industrial Research)
Ministry of Science & Technology, Govt. of India

S. Balachandran
Assistant Prof.
Department of Environmental Studeis,
Siksha-Bhavan, Visva-Bharati
Santiniketan-731235
W.B.

CIMFR/HRD-Dig/14-15/5
Dated: 02nd May, 2014

Sub:- Co-Supervisor for PhD student at CSIR-CIMFR, Digwadih Campus.

Dear Sir,

This has reference to your Letter No. NIL Dated 26/04/2014 a requested by you, the competent authority of CSIR-CIMFR has permitted the following PhD scholar to use the research facility at CSIR-CIMFR, Digwadih Campus in Collabrative form, under the guidance of Dr. R. E. Masto, Sr. Scientist (E-I), Environmental Management Division, CSIR-CIMFR, Digwadih Campus , Dhanbad.

1. Mr. Manish Gope

The Institute shall not bear any sort of financial obligation in this regard. The scholar should have to make their own arrangement for stay in Dhanbad during the period. He should also have to submit a project report after the completion of the programme.

They should report to Dr. R. E. Masto, Sr. Scientist during their visit to CSIR-CIMFR, Digwadih Campus.

With regards.

Thanking you

Yours faithfully

02/05/2014

(AK Roy)
Head HRD,
CSIR-CIMFR
Digwadih Campus

Copy to: Dr. R.E. Masto, Sr. Scientist, (E-I)
e-mail:ebhinmasto@rediffmai.com

Postal Address
P.O. FRI, Dhanbad-828108
Jharkhand
India

EPABX :+91-0326-2388200, 2381001-10
+91-0326-2388+Extn. no. direct (if known)
F A X :+91-0326-2381113, 2381385, 2381490, 2381210

email :dnb_dcfri@sancharnet.in
website : http://www.cfriindia.nic.in

सीएसआईआर–केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
पूर्ववर्ती केंद्रीय ईंधन अनुसंधान संस्थान, डिगवाडीह परिसर
(वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद्)
विज्ञान एवं प्रोद्यौगिकी मंत्रालय, भारत सरकार

CIMFR

CSIR-CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH
ERSTWHILE CENTRAL FUEL RESEARCH INSTITUTE, Digwadih Campus
(Council of Scientific & Industrial Research)
Ministry of Science & Technology, Govt. of India

S. Balachandran
Assistant Professor
Department of Environmental Studies,
Siksha-Bhavana, Visva-Bharati
Santiniketan-731235
W. B.

CIMFR/HRD-Dig/14-15/36
Dated: 19th August, 2014

Sub:- Co-Supervisor for PhD student at CSIR-CIMFR, Digwadih Campus.

Dear Sir,

This has reference to your Letter No. NIL Dated 12/08/2014 a requested by you, the competent authority of CSIR-CIMFR has permitted the following PhD scholar to use the research facility at CSIR-CIMFR, Digwadih Campus in Collaborative form, under the guidance of Dr. R. E. Masto, Sr. Scientist (E-I), Environmental Management Division, CSIR-CIMFR, Digwadih Campus, Dhanbad.

1. Mr. Tanmay Laha

The Institute shall not bear any sort of financial obligation in this regard. The scholar should have to make their own arrangement for stay in Dhanbad during the period. He should also have to submit a project report after the completion of the programme.

Mr. Laha should report to Dr. R. E. Masto, Scientist during his visit to CSIR-CIMFR, Digwadih Campus.

With regards.

Thanking you

Yours faithfully

17/08/2014

(A K Roy)
Head HRD,
CSIR-CIMFR
Digwadih Campus

Back to main page

Copy to: Dr. R.E. Masto, Sr. Scientist, (E-I)
e-mail:ebhinmasto@rediffmai.com

Postal Address
P.O. FRI, Dhanbad-828108
Jharkhand
India

EPABX :+91-0326-2388200, 2381001-08
+91-0326-2388+Extn. no. direct (if known)
FAX :+91-0326-2381113, 2381385, 2381490, 2381210

email : director@cimfr.res.in
dcmrips@yahoo.co.in
website : http://www.cimfr.nic.in
http://www.cfriindia.nic.in

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
DEPARTMENT OF PHYSICS
Mahatma Gandhi Avenue, Durgapur, 713209, West Bengal, INDIA

Email: amitkc61@gmail.com

+91 343 275 4780 (O)
+91 973 4780 973 (M)
+91 343 354 7375 (Fax)

Letter of Consent from the Co-Investigator

May 15, 2014

To
The Head
Human Resource Development Group
Council of Scientific and industrial Research
CSIR Complex, Library Avenue, Pusa
New Delhi – 110 012

Subject: Letter of consent from the **Co-Investigator (Co-I)** for the research proposal entitled "Investigation of polyaniline based nanocomposites by steady state and time-resolved spectroscopic techniques" **submitted to CSIR by Dr. Subrata Sinha as PI.**

Dear Sir,
I hereby give my consent to act as a Co-Investigator (Co-I) for the research proposal entitled "Investigation of polyaniline based nanocomposites by steady state and time-resolved spectroscopic techniques" submitted to CSIR by Dr. Subrata Sinha (PI), Associate Professor, Integrated Science Education and Research Centre (ISERC), Siksha-Bhavana, Visva-Bharati, Santiniketan – 731 235.

Thanking you.

Yours sincerely,

15/05/14

DR. AMIT KUMAR CHAKRABORTY
Associate Professor & Head
Department of Physics
National Institute of Technology Durgapur
M. G. Avenue, Durgapur – 713 209, West Bengal

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VISVA-BHARATI

SIKSHA BHAVANA
(Institute of Science)

INTEGRATED SCIENCE EDUCATION AND RESEARCH CENTRE

November 16, 2017

TO WHOM IT MAY CONCERN

It is my great pleasure to state that Dr. Amit Kumar Chakraborty (Department of Physics, National Institute of Technology Durgapur, Durgapur – 713 209, West Bengal) is a Co-Supervisor in the CSIR funded research project (Sanction No.: 03(1365)/16/EMR-II, dated: 11.05.2016) entitled "Investigation of polyaniline based nanocomposites by steady state and time-resolved spectroscopic techniques".

S. Sinha
16.11.2017

DR. SUBRATA SINHA
Principal Investigator of the CSIR Project
Associate Professor, ISERC
Siksha Bhavana, Visva-Bharati
Santiniketan – 731 235, West Bengal
E-mail: subrata.sinha@visva-bharati.ac.in, subratasinha67@rediffmail.com
Mob: (0)9547065061

Back to main page

OSAKA UNIVERSITY

Department of Applied Chemistry,
Graduate School of Engineering,
Suita, Osaka 565-0871, Japan

Telephone : +81-6-6879-7364
Fax : +81-6-6879-7367
e-mail : uyama@chem.eng.osaka-u.ac.jp

Prof. HIROSHI UYAMA

Date: April 20, 2016

NANDI MAHASWETA
Integrated Science Education and Research Centre,
Siksha Bhavana, Visva-Bharati
Santiniketan 731 235
West Bengal, India

Dear Dr. NANDI MAHASWETA

I am delighted to extend an official invitation to you to visit my laboratory at the Department of Applied Chemistry, Graduate School of Engineering, Osaka University from June 1, 2016 to August 10, 2016 to engage in the collaborative research work entitled 'Functional Organic-Inorganic Hybrid Monolith'. The funding of this collaborative research shall be extended by our University. It is expected that the outcome of this study will open up newer dimensions in future.

The expenses towards your contingency, travel, accommodation and local hospitality shall also be provided by our University.

Hiroshi Uyama

HIROSHI UYAMA
Professor, Department of Applied Chemistry
Graduate School of Engineering,
Osaka University

МЕЖДУНАРОДНАЯ МЕЖПРАВИТЕЛЬСТВЕННАЯ ОРГАНИЗАЦИЯ
INTERNATIONAL INTERGOVERNMENTAL ORGANIZATION

ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ
JOINT INSTITUTE FOR NUCLEAR RESEARCH

Дубна Московской области Россия 141980 Dubna Moscow Region Russia 141980
Fax: (7-495) 632-78-80 **Tel.:** (7-49621) 6-50-59 **AT:** 205493 WOLNA RU **E-mail:** post@jinr.ru http://www.jinr.ru

003-05 № 1227 Dubna, 14 December 2016

From: D.V. Kamanin, Head of the JINR International Cooperation Department

Fax: 7 (496) 21 65891

To: **Mr. Nilanjan Bondyopadhaya**
Visva Bharati University
Santiniketan Bribhum 731235
West Bengal, India

REQUEST TO APPLY FOR A RUSSIAN VISA

Dear Mr. Bondyopadhaya,

We are pleased to inform you that your visit to the Joint Institute for Nuclear Research is confirmed to take place at any time convenient to you between the **19th of January, 2017** and the **19th of March, 2017** in order to take part in the scientific research activities at the Bogoliubov Laboratory of Theoretical Physics.

Please apply for your Russian visa at the Russian consulate in **Kolkata** on or after the **20th of December, 2016** and quote the following reference (telex) number from the Consulate department of the Russian Ministry of Foreign Affairs (MFA) in Moscow:

Your MFA telex number: **288346**
Date: **20 December 2016**

Note: This document is only for your personal information and is not to be submitted to the Russian Consulate. The Russian Consulate issues business visas on the basis of the provided Russian MFA reference (telex) number and other supporting documents as required by your local visa department.

Respectfully yours,

Kamanin D.V.
Head of the JINR International
Cooperation Department

Gmail **Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com>**

Fwd: Consent for visit: DST-RFBR project (Ref no. INT/RUS/RFBR/P-249 dates 7th Sept 2016)

5 messages

Krishnendu Sengupta <tpks@iacs.res.in> 28 December 2016 at 17:29
To: Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com>

Nilanjan

Please do the needful

Best

Krishnendu
---------- Forwarded message ----------
From: **S. K. Varshney** <skvdst@nic.in>
Date: Wed, Dec 28, 2016 at 4:29 PM
Subject: RE: Consent for visit: DST-RFBR project (Ref no. INT/RUS/RFBR/P-249 dates 7th Sept 2016)
To: Krishnendu Sengupta <tpks@iacs.res.in>

Dear Dr Sengupta,

We are pleased to convey DST approval for the visit of Dr Nilanjan Bandyopadhyay to Russia during 1-14 Feb 2017 under the Indo-Russian project coordinated by you.

He can undertake the travel after obtaining administrative approval of his parent organisation and expenditure on his travel could be booked to DST grant as per its terms.

With regards

SK Varshney

From: S. K. Varshney [mailto:skvdst@nic.in]
Sent: 01 December 2016 11:55
To: 'Krishnendu Sengupta' <tpks@iacs.res.in>
Subject: RE: Consent for visit: DST-RFBR project (Ref no. INT/RUS/RFBR/P-249 dates 7th Sept 2016)

Dear Dr Sengupta,

This is fine with us. We shall be processing it accordingly.

With regards

SK Varshney

From: ksengupta1@gmail.com [mailto:ksengupta1@gmail.com] **On Behalf Of** Krishnendu Sengupta
Sent: 01 December 2016 11:45
To: S.K. Varshney <skvdst@nic.in>
Subject: Consent for visit: DST-RFBR project (Ref no. INT/RUS/RFBR/P-249 dates 7th Sept 2016)

Dear Dr. Varshney

Please find the email with Prof. Shukrinov's consent regarding the visit. The dates of the visit are 1st to 14th Feb as also mentioned in the emails below.

Please do let me know if you need anything else in this regard.

Thank you for your prompt reply.

Best

Krishnendu

---------- Forwarded message ----------
From: **Shukrinov Yury** <shukrinv@theor.jinr.ru>
Date: Thu, Dec 1, 2016 at 11:18 AM
Subject: Visit Dubna
To: Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com>
Cc: Krishnendu Sengupta <tpks@iacs.res.in>

Dear Dr. Nilanjan Bondyopadhaya,
Your visit between 1st and 14th February is fine with me.
With best regards,
Yury Shukrinov

--
Dr.,Prof. Yury M.Shukrinov,

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research,
Dubna, Moscow Region, 141980, Russia
Phone: +7 4962163844 (off), +7 9150442981(mobile)
Fax: +7 4962165084
E-mail: shukrinv@theor.jinr.ru,
yurishukrinov@yahoo.com

> Dear Sir,
> I would prefer to visit JINR from 1st February to 14th February 2017.
Thanking you,
> Yours sincerely,
> Nilanjan
> On 30 Nov 2016 7:33 p.m., "Krishnendu Sengupta" <tpks@iacs.res.in>
wrote:
>> Nilanjan
>> You need to send the dates to Yury.
>> Yury, once you recieve the dates, can you send the invitation letter to
Nilanjan with those dates.
>> Please do this asap.
>> best
>> krishnendu
>> ---------- Forwarded message ----------
>> From: *S. K. Varshney* <skvdst@nic.in>
>> Date: Wednesday, November 30, 2016
>> Subject: Scanned letters
>> To: Krishnendu Sengupta <tpks@iacs.res.in>
>> Dear Dr Sengupta,
>> Please specify dates for the visit of Dr Nilanjan Bandyopahyay, and
also
>> whether consent from your Russian counterpart for his visit has been
obtained.
>> With regards
>> SK Varshney
>> *From:* ksengupta1@gmail.com [mailto:ksengupta1@gmail.com] *On Behalf
Of
>> *Krishnendu
>> Sengupta
>> *Sent:* 28 November 2016 14:48
>> *To:* S.K. Varshney <skvdst@nic.in>
>> *Subject:* Fwd: Scanned letters
>> Dear Dr. Varshney
>> Dr. Nilanjan Bandyopadhyay, who is a member of the DST-RFBR project (
Ref no. INT/RUS/RFBR/P-249 dates 7th Sept 2016)
>> sanctioned by DST would like to travel to JINR for collaboration with
Prof. Yury Shukrinov (Russian PI). The details of the visit
>> is given in the attached letter.
>>%2

--
Dr.,Prof. Yury M.Shukrinov,
Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research,

Dubna, Moscow Region, 141980, Russia
Phone: +7 4962163844 (off), +7 9150442981(mobile)
Fax: +7 4962165084
E-mail: shukrinv@theor.jinr.ru,
yurishukrinov@yahoo.com

Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com> 28 December 2016 at 17:37
To: Krishnendu Sengupta <tpks@iacs.res.in>

Thank you Krishnendu Da. I have already applied for visa, and I will collect it on Friday. I will also apply for leave from Visva-Bharati on Friday. Should I now proceed for booking air-tickets?

With regards,
Nilanjan
[Quoted text hidden]

Krishnendu Sengupta <tpks@iacs.res.in> 28 December 2016 at 17:39
To: Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com>

I think you should proceed with visa/tkt etc.

I shall need a consent from Visva-Bharati authority to start processing the advance payment on airticket.

Also please let Yury know so that he can make necessary arrangements --

[Quoted text hidden]

Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com> 28 December 2016 at 17:42
To: Krishnendu Sengupta <tpks@iacs.res.in>

Are you free now? I can call you.
[Quoted text hidden]

Krishnendu Sengupta <tpks@iacs.res.in> 28 December 2016 at 17:45
To: Nilanjan Bondyopadhaya <nilanjan.tn@gmail.com>

yes
[Quoted text hidden]

Subrata Sinha <subrata.sinha@visva-bharati.ac.in>

DST-RMES, Project approval

S. K. Varshney <skvdst@nic.in> Fri, Jun 23, 2017 at 12:59 PM
To: subrata.sinha@visva-bharati.ac.in

Dear Dr Sinha,

Congratulations.

I am pleased to inform you that your following proposal has been jointly approved by DST and Russian Ministry of Education & Science for implementation:

S. No.	New DST Ref. No.	Title	Indian PI	Russian PI
3	**DST/INT/RMES/P-09/2016**	Development of new functional materials and green processing routes for efficient and stable organic photovoltaic devices	Dr. Subrata Sinha Visva-Bharati, Santiniketan and Dr. K.C. Narayan, NJCASR, Bangalore E-mail: subrata.sinha@visva-bharati.ac.in	Prof.S.A. Ponomarenko Enikolopov, Institute of Synthetic Polymeric Materials of Russian Academy of Sciences (ISPM RAS), Moscow

While your Russian partner would get information and financial support from our Russian partner, Ministry of Education and Science, , financial support for project implementation to you would be discussed in the upcoming PAC meeting and as per prevailing government laws and practices.

We also require to process for security / sensitivity clearance for your project, prior to the financial sanction. Accordingly, you are requested to send us information filled in attached format. We also require detailed justification / basis of calculation of your requirement under the budget heads of consumables, contingency and manpower (if requested). In case, some equipment are also planned as a part of the project, please append a quote for the same. Also provide us bank details for remittance.

With regards

S.K.Varshney

Scientist G / Adviser

International Bilateral Cooperation

Department of Science & Technology

Government of India

Technology Bhavan, New Mehrauli Road

NEW DELHI 110016

Phone 26525594

ANNEXURE II.doc
51K

Visva-Bharati

Subrata Sinha <subrata.sinha@visva-bharati.ac.in>

Your India Russia project

S. K. Varshney <skvdst@nic.in> Wed, Sep 6, 2017 at 9:29 AM
To: Subrata Sinha <subrata.sinha@visva-bharati.ac.in>

Dear Dr Sinha,

This is with reference to your India Russia project which was considered by our PAC last week for financial support.

PAC has recommended DST support as following:

PAC considered recommending funding support from DST for 2 years. PAC recommended Funding support from DS as Consumable : Rs. 25 Lakh (12 Lakh for Vishwa Bharati; 8 lakh for JNC and 5 lakh for IACS); Manpower : 3 JRF (One for each group); Contingency : Rs. 50,000 per year for each three groups; Exchange Visits 6 per year (2 visits for each group each year. One visit per year should be availed by student from each group).

For processing with our finance, we would require detailed justification / elaboration of your requirement under the budget head consumables.

Also please note that DST would make one grant to Visva Bharati and you may further distribute it to other participating institutes.

I hope you have already sent us detailed security check list signed by you and your institute and bank details for making remittance.

With regards

S.K.Varshney

Scientist G / Adviser

International Bilateral Cooperation

Department of Science & Technology

Government of India

Technology Bhavan, New Mehrauli Road

NEW DELHI 110016

Phone 26525594

Yunnan University

University Town, Chenggong, Kunming, Yunnan, P.R.China
Tel:0086-871-65033815 Fax:0086-871-65183424
Http://www.ynu.edu.cn Zip code:650500

14th June, 2019

Ms. MAHASWETA NANDI
Visva-Bharati University, India

Invitation to "2019 Intercultural Experience Programme @ Yunnan University, Kunming, China"

Dear Ms. MAHASWETA NANDI ,

We are pleased to invite you and your 14 students from Visva-Bharati University, India to participate in the "2019 Intercultural Experience Programme @ Yunnan University, Kunming, China" which will be held from 25th June to 1th July, 2019.

Based on the reciprocal agreement between Yunnan University and Visva-Bharati University, it has been agreed that we will waive participation fees for your delegation. Yunnan University will financially support 14 students and 2 staffs from Visva-Bharati University **inclusive** of participation fees, accommodation, meals and local transportation **except** for flight tickets, visa and other personal expenses.

Please note that Visva-Bharati University and the individual participants, is responsible for the travel insurance coverage for the students and staffs. You are reminded to observe China's local regulations during the visit.

If there are any queries, please do not hesitate to contact Mr. Qian Jun, program officer from Office of International Cooperation & Exchange at Email: 1076042869@qq.com or Tel: 0086-871-65033815.

Sincerely,

Associate Prof. Yang Wei
Director
Office of International Cooperation & Exchange
Yunnan University

Back to main page

No. SR/MF/PS-02/2014-VB (G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(Mega Facilities for Basic Research)

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: **17.09.2014**

ORDER

Sub: Financial assistance for the project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization".
Project Coordinator: Dr. Manas Maity, Department of Physics, Visva-Bharati University, P.O. Shantiniketan-751 235 (West Bengal).

In continuation of Government of India sanction order No. 3/4/2013/Gen/R&D-1/9807 dated 31.07.2014, sanction of the President is hereby accorded for DST contribution of **Rs. 2,10,00,000/-** (Rupees two crore ten lakh only) to the **"Visva-Bharati University, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** with break-up of **Rs.1,71,00,000/-** under 'Grants-in-aid General' and **Rs. 39,00,000/-** under 'Grants for creation of capital assets' budget heads respectively. The date of start of the project will be 31.07.2014, i.e., the date of sanction of the project by Government of India. The scheduled date of completion of the project is 31.03.2019. The items of expenditure for which total allocation of Rs. 2,10,00,000/- has been approved are given below:

(Amount in Rs. Lakh)

Budget head	1st year	2nd year	3rd year	4th year	5th year	Total
General (Revenue)						
Manpower	10.20	10.20	10.20	10.20	10.20	**51.00**
Travel (Domestic)	1.00	1.00	1.00	1.00	1.00	**5.00**
Travel (Foreign)	19.00	19.00	19.00	19.00	19.00	**95.00**
Office Expenses/Contingency	2.00	2.00	2.00	2.00	2.00	**10.00**
Overhead	2.00	2.00	2.00	2.00	2.00	**10.00**
Sub-Total (General)	***34.20***	***34.20***	***34.20***	***34.20***	***34.20***	***171.00***
Capital						
Machinery & Equipment	5.00	5.00	25.00	-	-	**35.00**
Major Works	-	4.00	-	-	-	**4.00**
Sub-Total (Capital)	***5.00***	***9.00***	***25.00***			***39.00***
TOTAL	**39.20**	**43.20**	**59.20**	**34.20**	**34.20**	**210.00**

2. Sanction of the President is also accorded for payment of **Rs. 34,20,000/-** (Rupees thirty four lakh twenty thousand only) from 'Grants-in-aid General' and **Rs. 5,00,000/-** (Rupees five lakh only) from 'Grants for creation of capital assets' budget heads respectively to **"Visva-Bharati University, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** being **first** installment of the grant for implementation of the above said project. **Since it is first installment of grant, no previous UC is applicable.**

3. The amount of **Rs. 34,20,000/-** (Rupees thirty four lakh twenty thousand only) will be drawn by Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the **"Visva-Bharati University, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** through their bank account details given below:

Bank account number	**0826050001858**
Name of the bank and branch	**United Bank of India** **Bolepur Bhubandanga branch**
RTGS/IFSC Code	**UTBI0BOBC42**
MICR Code	**731027002**

4. The expenditure involved is debit able to:

Demand No. 86	Department of Science & Technology
3425	Other Scientific Research (Major Head)
60.	Others: (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
45.	**Mega Facilities for Basic Research**
45.01	**Mega Facilities for Basic Research**
45.01.31	**Grants-in-aid General for 2014-2015 (Plan Expenditure)**
This release is being made under **Mega Facilities for Basic Research**	

Gaurav Garg
17-9-14

Back to main page

5. Overheads are meant for the host institute/university towards the cost for providing infrastructural facilities and benefits to the staff employed in the project etc.

6. **Sanction of the grant is subject to the conditions as detailed in "Guidelines for Implementing Research Project" given on our website. All items of equipment should be procured in accordance with the provisions contained in GFR'2005. The benefit of custom duty exemption extended to the research institutes under GoI notification No. 51/96 on imports of equipment for research purposes, may be availed.**

7. The implementing institute/university will furnish to the DST, utilization certificate and audited statement of accounts pertaining to the grant immediately after the end of each financial year.

8. **The implementing institute/university will maintain separate audited accounts for this project and would keep the whole of the grant in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the implementing institute/university to be adjusted towards further installment of the grant.**

9. As per rule 211 of GFRs, the accounts of this grant shall be open to inspection by sanctioning authority/audit whenever the implementing Institute/University is called upon to do so.

10. The sanction has been issued under the powers delegated to the Ministries and with the concurrence of Integrated Finance Division of Department of Science and Technology vide concurrence diary number **C/ 3334 /IFD/2014-15** dated **17.09.2014.**

11. The sanction order is entered in the Register of Grants for **Mega Facilities for Basic Research programme** at Sr. No. 30.

Gaurav Aggr

(GAURAV AGGARWAL)
Scientist-D

To

Drawing and Disbursing Officer, DST
Cash Section (Copy with 2 spare copies).

Copy forwarded for information and necessary action to:

1. The Pay & Accounts Officer, DST.
2. Dr. Manas Maity
   Department of Physics
   Visva-Bharati University
   P.O. Shantiniketan-751 235 (West Bengal)
3. The Registrar
   Visva-Bharati University
   P.O. Shantiniketan-751 235 (West Bengal)
4. Dr. Ajit K. Mohanty
   Bhabha Atomic Research Centre (BARC)
   Trombay, Mumbai-400 085 (Maharashtra)
5. The Under Secretary (R&D)
   Department of Atomic Energy
   O. Y. C. Building, CSM Marg
   Mumbai - 400 001
6. The Principal Director of Audit, Scientific Departments
   IIIrd Floor, AGCR Building, I.P. Estate
   New Delhi-110 002
7. Sanction folder (Mega Facilities for Basic Research programme).
8. File copy.

Gaurav Aggr
17.9.14

(GAURAV AGGARWAL)
Scientist-D

No. SR/MF/PS-01/2014-VB (C)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(Mega Facilities for Basic Research)

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: **17.09.2014**

ORDER

Sub: Financial assistance for the project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization".
Project Coordinator: Dr. Manas Maity, Department of Physics, Visva-Bharati University, P.O. Shantiniketan-751 235 (West Bengal).

In continuation of Government of India sanction order No. 3/4/2013/Gen/R&D-1/9807 dated 31.07.2014 and this Department's sanction order of even number dated **17.09.2014**, sanction of the President is hereby accorded for payment of **Rs. 5,00,000/-** (Rupees five lakh only) from 'Grants for creation of capital assets' budget head to the **"Visva-Bharati University, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** being **first** installment of the grant for implementation of the above said project. **Since it is first installment of grant, no previous UC is applicable.**

2. The amount of **Rs. 5,00,000/-** (Rupees five lakh only) will be drawn by Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the **"Visva-Bharati University, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** through their bank account details given below:

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RTGS/IFSC Code	**UTBI0BOBC42**
MICR Code	**731027002**

3. The expenditure involved is debit able to:

Demand No. 86	Department of Science & Technology
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60.200	Assistance to other Scientific Bodies (Minor Head)
45.	**Mega Facilities for Basic Research**
45.01	**Mega Facilities for Basic Research**
45.01.35	**Grants for creation of capital assets for 2014-2015 (Plan Expenditure)**
This release is being made under **Mega Facilities for Basic Research**	

4. **Sanction of the grant is subject to the conditions as detailed in "Guidelines for Implementing Research Project" given on our website. All items of equipment should be procured in accordance with the provisions contained in GFR'2005. The benefit of custom duty exemption extended to the research institutes under GoI notification No. 51/96 on imports of equipment for research purposes, may be availed.**

5. The implementing institute/university will furnish to the DST, utilization certificate and audited statement of accounts pertaining to the grant immediately after the end of each financial year.

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Gaurav Rgr
17.9.14

7. As per rule 211 of GFRs, the accounts of this grant shall be open to inspection by sanctioning authority/audit whenever the implementing Institute/University is called upon to do so.

8. The sanction has been issued under the powers delegated to the Ministries and with the concurrence of Integrated Finance Division of Department of Science and Technology vide concurrence diary number **C/ 3335 /IFD/2014-15** dated **17.09.2014.**

9. The sanction order is entered in the Register of Grants for **Mega Facilities for Basic Research programme** at Sr. No. 31.

Gaurav Agg

(GAURAV AGGARWAL)
Scientist-D

To

Drawing and Disbursing Officer, DST
Cash Section (Copy with 2 spare copies).

Copy forwarded for information and necessary action to:

1. The Pay & Accounts Officer, DST.
2. Dr. Manas Maity
   Department of Physics
   P.O. Shantiniketan-751 235 (West Bengal)
3. The Registrar
   Panjab University, Chandigarh-160 014
4. Dr. Ajit K. Mohanty
   Bhabha Atomic Research Centre (BARC)
   Trombay, Mumbai-400 085 (Maharashtra)
5. The Under Secretary (R&D)
   Department of Atomic Energy
   O. Y. C. Building, CSM Marg
   Mumbai - 400 001
6. The Principal Director of Audit, Scientific Departments
   IIIrd Floor, AGCR Building, I.P. Estate
   New Delhi-110 002
7. Sanction folder (Mega Facilities for Basic Research).
8. File copy.

Gaurav Agg 17.9.14

(GAURAV AGGARWAL)
Scientist-D

No. SR/MF/PS-02/2014-VB
Government of India
Ministry of Science & Technology
Department of Science & Technology
(Mega Facilities for Basic Research)

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: 30.09.2015

ORDER

Sub: Financial assistance for the project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization" under the guidance of Dr. Manas Maity, Department of Physics, Visva-Bharati, P.O. Shantiniketan-751 235 (West Bengal) – release of 2nd instalment of the grant regarding..

In continuation of this Department's sanction order of even number dated 17.09.2014, sanction of the President is hereby accorded for payment of **Rs. 34,20,000/-** (Rupees thirty four lakh twenty thousand only) from 'Grants-in-aid General' and **Rs. 30,00,000/-** (Rupees thirty lakh only) from 'Grants for creation of capital assets' budget heads respectively to **"Visva-Bharati, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** being **2nd** installment of the grant for implementation of the above said project.

2. The amount of **Rs. 34,20,000/- (**Rupees thirty four lakh twenty thousand only) will be drawn by Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the **"Visva-Bharati, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** through their bank account details given below:

Bank account number	**0826050001858**
Name of the bank and branch	**United Bank of India** **Bolepur Bhubandanga branch**
RTGS/IFSC Code	**UTBI0BOBC42**
MICR Code	**731027002**

3. The expenditure involved is debit able to:

Demand No. 86	Department of Science & Technology
3425	Other Scientific Research (Major Head)
60.	Others: (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
45.	**Mega Facilities for Basic Research**
45.01	**Mega Facilities for Basic Research**
45.01.31	**Grants-in-aid General for 2015-2016 (Plan Expenditure)**
This release is being made under **Mega Facilities for Basic Research**	

4. Sanction of the President is also accorded for carrying forward the unspent grant of Rs. 28,95,963/- from 2014-15 to 2015-16 for the same purposes for which it was sanctioned.

5. It is certified that provision 212(1) relating to Utilization Certificates (UCs) for the funds released under the grant have been satisfied. **It is also certified that no UC is pending against Dr. Manas Maity, Department of Physics, Visva-Bharati, P.O. Shantiniketan from Mega Facilities for Basic Research programme as per details in the PFMS also and UC for FY 2014-15 received from the implementing institution/university are enclosed herewith.**

6. Sanction of the grant is subject to the conditions as detailed in "Guidelines for Implementing Research Project" given on our website.

7. The implementing institute/university will furnish to the DST, utilization certificate and audited statement of accounts pertaining to the grant immediately after the end of each financial year.

30.9.15

8. **The implementing institute/university will maintain separate audited accounts for this project and would keep the whole of the grant in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the implementing institute/university to be adjusted towards further installment of the grant.**

9. As per rule 211 of GFRs, the accounts of this grant shall be open to inspection by sanctioning authority/audit whenever the implementing Institute/University is called upon to do so.

10. The sanction has been issued under the powers delegated to the Ministries and with the concurrence of Integrated Finance Division of Department of Science and Technology vide concurrence diary number C/ 3188 /IFD/2015-16 dated 29.09.2015.

11. The sanction order is entered in the Register of Grants for **Mega Facilities for Basic Research programme** at Sr. No. 08.

Gaurav Aggr

(GAURAV AGGARWAL)
Scientist-D

To

Drawing and Disbursing Officer, DST
Cash Section (Copy with 2 spare copies).

Copy forwarded for information and necessary action to:

1. The Pay & Accounts Officer, DST.

2. Dr. Manas Maity
Department of Physics
Visva-Bharati
P.O. Shantiniketan-751 235 (West Bengal)

3. The Registrar
Visva-Bharati
P.O. Shantiniketan-751 235 (West Bengal)

4. Dr. (Ms.) Kajari Majumdar
India-CMS Spokesperson
Tata Institute of Fundamental Research
Homi Bhabha Road
Mumbai -400 005 (Maharashtra)

5. The Under Secretary (R&D)
Department of Atomic Energy
O. Y. C. Building, CSM Marg
Mumbai - 400 001

6. The Principal Director of Audit, Scientific Departments
IIIrd Floor, AGCR Building, I.P. Estate
New Delhi-110 002

7. Sanction folder (Mega Facilities for Basic Research programme).

8. File copy.

Gaurav Aggr
30.9.15

(GAURAV AGGARWAL)
Scientist-D

No. SR/MF/PS-02/2014-VB (C)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(Mega Facilities for Basic Research)

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: 30.09.2015

ORDER

Sub: Financial assistance for the project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization" under the guidance of Dr. Manas Maity, Department of Physics, Visva-Bharati, P.O. Shantiniketan-751 235 (West Bengal) – release of part of 2nd instalment of the grant regarding..

In continuation of this Department's sanction order of even number dated 17.09.2014 and 30.09.2015, sanction of the President is hereby accorded for payment of **Rs.30,00,000/-** (Rupees thirty lakh only) from 'Grants for creation of capital assets' budget head to **"Visva-Bharati, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** being part of **2nd** installment of the grant for implementation of the above said project.

2. The amount of **Rs.30,00,000/-** (Rupees thirty lakh only) will be drawn by Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the **"Visva-Bharati, P.O. Shantiniketan, Shantiniketan-751 235 (West Bengal)"** through their bank account details given below:

Bank account number	**0826050001858**
Name of the bank and branch	**United Bank of India Bolepur Bhubandanga branch**
RTGS/IFSC Code	**UTBI0BOBC42**
MICR Code	**731027002**

3. The expenditure involved is debit able to:

Demand No. 86	Department of Science & Technology
3425	Other Scientific Research (Major Head)
60.	Others: (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
45.	**Mega Facilities for Basic Research**
45.01	**Mega Facilities for Basic Research**
45.01.35	**Grants for creation of capital assets for 2015-2016 (Plan Expenditure)**
This release is being made under **Mega Facilities for Basic Research**	

4. Sanction of the President is also accorded for carrying forward the unspent grant of Rs. 28,95,963/- from 2014-15 to 2015-16 for the same purposes for which it was sanctioned.

5. It is certified that provision 212(1) relating to Utilization Certificates (UCs) for the funds released under the grant have been satisfied. **It is also certified that no UC is pending against Dr. Manas Maity, Department of Physics, Visva-Bharati, P.O. Shantiniketan from Mega Facilities for Basic Research programme as per details in the PFMS also and UC for FY 2014-15 received from the implementing institution/university are enclosed herewith.**

6. Sanction of the grant is subject to the conditions as detailed in "Guidelines for Implementing Research Project" given on our website.

30.9.15

7. The implementing institute/university will furnish to the DST, utilization certificate and audited statement of accounts pertaining to the grant immediately after the end of each financial year.

8. **The implementing institute/university will maintain separate audited accounts for this project and would keep the whole of the grant in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the implementing institute/university to be adjusted towards further installment of the grant.**

9. As per rule 211 of GFRs, the accounts of this grant shall be open to inspection by sanctioning authority/audit whenever the implementing institute/university is called upon to do so.

10. The sanction has been issued under the powers delegated to the Ministries and with the concurrence of Integrated Finance Division of Department of Science and Technology vide concurrence diary number C/ 3189/IFD/2015-16 dated 29.09.2015.

11. The sanction order is entered in the Register of Grants for **Mega Facilities for Basic Research programme** at Sr. No. 89.

Gaurav Agr

(GAURAV AGGARWAL)
Scientist-D

To

Drawing and Disbursing Officer, DST
Cash Section (Copy with 2 spare copies).

Copy forwarded for information and necessary action to:

1. The Pay & Accounts Officer, DST.

2. Dr. Manas Maity
Department of Physics
Visva-Bharati
P.O. Shantiniketan-751 235 (West Bengal)

3. The Registrar
Visva-Bharati
P.O. Shantiniketan-751 235 (West Bengal)

4. Dr. (Ms.) Kajari Majumdar
India-CMS Spokesperson
Tata Institute of Fundamental Research
Homi Bhabha Road
Mumbai -400 005 (Maharashtra)

5. The Under Secretary (R&D)
Department of Atomic Energy
O. Y. C. Building, CSM Marg
Mumbai - 400 001

6. The Principal Director of Audit, Scientific Departments
IIIrd Floor, AGCR Building, I.P. Estate, New Delhi-110 002

7. Sanction folder (Mega Facilities for Basic Research programme).
8. File copy.

Gaurav Agr 30.9.15

(GAURAV AGGARWAL)
Scientist-D

No. SR/MF/PS-02/2014-VB
Government of India
Ministry of Science & Technology
Department of Science & Technology
(Mega Science Division)

Technology Bhavan
New Mehrauli Road
New Delhi -110 016
Dated: 15.06.2018

ORDER

Sub: The research project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization" under the guidance of Dr. Manas Maity, Department of Physics, Visva-Bharati, Santiniketan-751235 (West Bengal).

In continuation to Government of India sanction order No. 3/4/2013/Gen/R&D-I/4141 dated 28.03.2018 and in partial modification of this Department's sanction order of even number dated 17.09.2014, sanction of the President is hereby accorded for revision in sanctioned cost for the above said project from Rs. 210 lakh to Rs. 172 lakh. The scheduled date of completion of the project, i.e. 31.03.2019 remains the same. The revised allocations for Rs.172 lakh are given below:

(Amount in Rupees lakh)

Budget heads	Earlier allocations	Revised allocations
General (Revenue)		
Manpower	51.00	31.00
Travel (Domestic)	5.00	5.00
Travel (Foreign)	95.00	67.00
Office Expenses/Contingency	10.00	10.00
Consultancy/Entry Fee	-	-
Overheads	10.00	10.00
Sub-Total (General)	***171.00***	***123.00***
Capital		
Machinery & Equipment	35.00	45.00
Materials and Supplies	-	-
Major Works	4.00	4.00
Sub-Total (Capital)	***39.00***	***49.00***
Total	**210.00**	**172.00**

2. All other terms and conditions of the grant remains the same.

Gaurav Rgl

(GAURAV AGGARWAL)
Scientist-D
Email: gaurav.dst@nic.in

To

Dr. Manas Maity
Department of Physics
Visva-Bharati
Santiniketan-751235 (West Bengal)

Copy to:

1. The Registrar
   Visva-Bharati
   Santiniketan-751235 (West Bengal)

2. Dr. Brajesh Chandra Choudhary (India-CMS Spokesperson)
   Department of Physics
   University of Delhi
   Delhi - 110007

3. The Principal Director of Audit, Scientific Departments
   3rd Floor, AGCR Building, I.P. Estate
   New Delhi-110 002

सत्यमेव जयते

दूरभाष / Tel : 26962819, 26567373,
26562134, 26562122 (EPBAX)
फैक्स / Fax : 26569908, 26515637,
26863847, 26862418
वेबसाइट/website : www.dst.gov.in

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग
टेक्नोलॉजी भवन, नया महरौली मार्ग
नई दिल्ली-110 016

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD
NEW DELHI-110 016

No. SR/MF/PS-02/2014 Dated: 01.05.2019

Sub: The project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization".

In continuation to DAE Office Memorandum No. 3/4/2013/Gen/R&D-1/Vol.II/4906 dated 15.04.2019 and partial modification of this Department's sanction orders of even number dated 15.09.2014, sanction of the President is hereby conveyed for time extension of the above said project till 31.03.2020 within sanctioned allocations.

Gaurav Agg

(Gaurav Aggarwal)
Scientist-E
Email: gaurav.dst@nic.in

To

Prof. Brajesh Chandra Choudhary
India-CMS Project Spokesperson
Department of Physics
University of Delhi
Delhi – 110 007

Copy to:

1. All Participating Institutions and Principal Investigators (as per enclosed list)
2. The Director General of Audit, Scientific Departments
   3rd Floor, AGCR Building, I.P. Estate
   New Delhi-110 002
3. File copy.

No. SR/MF/PS-02/2014

The project entitled "Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization".

Participating Institutions

1. The Registrar
   University of Delhi, Delhi – 110 007

2. The Registrar
   Panjab University, Chandigarh –160 014

3. The Registrar
   Visva-Bharti, Santiniketan – 751 235

4. The Registrar
   Indian Institute of Technology –Bombay, Powai
   Mumbai – 400 076 (Maharashtra)

5. The Registrar
   Indian Institute of Technology –Madras,
   Chennai – 600 036

6. The Director
   Indian Institute of Science Education and Research, Pune
   Dr. Homi Bhabha Road, Pune – 411 088

7. The Registrar
   Indian Institute of Technology-Bhubaneshwar
   Toshali Bhawan, Satya Nagar,
   Bhubaneshwar – 751 007

8. The Director
   Bhabha Atomic Research Centre, Trombay
   Mumbai – 400 085

9. The Director
   Saha Institute of Nuclear Physics,
   1/AF Bidhannagar,
   Kolkata – 700 064

10. The Registrar
    Tata Institute of Fundamental Research
    Homi Bhabha Road,Mumbai – 400 005

11. The Registrar
    National Institute of Science Education & Research- Bhubaneswar
    P.O. Jatni District Khordha
    Bhubaneswar – 752 050

Principal Investigators

1. Dr. Brajesh Chandra Choudhary
   Deparment of Physics,
   University of Delhi, Delhi – 110 007

2. Dr. Kirti Ranjan
   Department of Physics,
   University of Delhi, Delhi – 110 007

3. Prof. J.B. Singh
   Department of Physics,
   Panjab University, Chandigarh –160 014

4. Dr. Manas Maity
   Department of Physics,
   Visva-Bharti, P.O. Santiniketan – 751 235

5. Dr. Pradeep Sarin,
   Department of Physics,
   Indian Institute of Technology –Bombay, Powai
   Mumbai – 400 076 (Maharashtra)

6. Dr. Prafulla Kumar Behera
   Department of Physics,
   Indian Institute of Technology –Madras, Chennai – 600 036

7. Dr. Sunil Bansal
   Department of Applied Sciences,
   University Institute of Engineering and Technology,
   Panjab University, Sector – 25, Chandigarh – 160 014

8. Dr. Seema Sharma
   Department of Physics,
   Indian Institute of Science Education and Research, Pune
   Dr. Homi Bhabha Road, Pune – 411 088

9. Dr. Seema Bahinipati
   School of Basic Sciences,
   Indian Institute of Technology-Bhubaneshwar
   Toshali Bhawan, Satya Nagar, Bhubaneshwar – 751 007

10. Dr. Lalit M. Pant
    Bhabha Atomic Research Centre, Trombay, Mumbai – 400 085

11. Dr. S. Banerjee
    Department of Physics,
    Saha Institute of Nuclear Physics,
    1/AF Bidhannagar, Kolkata – 700 064

12. Dr. (Ms.) Kajari Majumdar
    Tata Institute of Fundamental Research,
    Homi Bhabha Road, Mumbai – 400 005

13. Dr. Sanjay Swain
    National Institute of Science Education & Research- Bhubaneswar
    P.O. Jatni District Khordha
    Bhubaneswar – 752 050

भारतीय राष्ट्रीय विज्ञान अकादमी
बहादुर शाह ज़फर मार्ग, नई दिल्ली-110 002
INDIAN NATIONAL SCIENCE ACADEMY
Bahadur Shah Zafar Marg, New Delhi-110 002

एस.पी. मिश्र
उप कार्यकारी निदेशक-I
S. P. MISHRA
Deputy Executive Director-I

No.IA/INSA/DST-JSPS/F-1/2018
03 December, 2018

Dr. Gohei HAYASHI
Postdoctoral Researcher
School of Medicine Disaster Public Health Nursing
Fukushima Medical University
Koagurayama 2, Otamn Village, Fukushima Prefecture
Japan

Sub: DST-JSPS Fellowship Programme 2018-2019

Dear Dr. Gohei HAYASHI,

The Indian National Science Academy (INSA), New Delhi is pleased to accept your visit to India for **46 days from 03/12/2018 to 18/01/2019** as an awardee of the **DST-JSPS Fellowship Programme 2018-2019** coordinated by INSA in collaboration with the Japan Society for the Promotion of Science.

As part of this fellowship program you will be carrying out research work at Visva Bharti, Santiniketan,West Bengal, India under the supervision of **Prof. Ashis Bhattacharjee,** (ashis.bhattacharjee@visva-bharati.ac.in).

As part of the fellowship programme, INSA will make payment for the following during your stay at Visva Bharti, Santiniketan,West Bengal:

S. No.	Particulars	Amount
1	Stipend amount	Rs. 50,000/- per month
2	Accommodation charges	Rs. 25,000/- per month(Max.)
3	Local transport by road/rail between the nearest airport and host institute in India and one time contingency grant to the host institute.	Rs. 20,000/-

With best regards,

Yours sincerely,

(S.P. Mishra)

CC: 1. The Embassy of India, Kudan-Minami, Chiyoda-ku, Tokyo, Japan
2. Mr. Hideyuki Yamaguchi, Head, Overseas Fellowship Division, International Program Department, Japan Society for the Promotion of Science, Tokyo, Japan.
3. Dr. Ashis Bhattacharjee, Professor, Visva Bharti, Santiniketan, West Bengal,India.

❑ टेलीफोन/Tel. : 91-11-23221953 (Dir), 91-11-23221931 – 23221950 (ई.पी.ए.बी.एक्स./EPABX), Ext.: 327
❑ फैक्स/Fax : 91-11-23231095, 23235648 ❑ ई-मेल/E-mail : dedsc@insa.nic.in
❑ वेबसाइट/Website : www.insaindia.res.in

Scheme for Promotion of Academic and Research Collaboration

No.: SPARC/2018-2019/P474/SL **Dt.:** 13.05.2019

To
Prof. ASHIS BHATTACHARJEE,
Physics,
Visva Bharati,
India

Dear Sir/Madam,

Sub: Sanction letter of SPARC proposal

Based on the recommendation of the Apex Committee of SPARC, MHRD has sanctioned the following project. The details are mentioned below

Project Code	**:**	P474
Proposal-Id	**:**	474
Title	**:**	Single Molecule Magnets and Molecular Magnetic Coolers from Lanthanide-based Metal-Organic Framework Materials
Indian PI	**:**	Prof. ASHIS BHATTACHARJEE (Visva Bharati)
Indian Co-PI(s)	**:**	Prof. SUBRATANATH KONER (Jadavpur University)
International PI	**:**	Prof. YASUHIRO NAKAZAWA (OSAKA UNIVERSITY)
International Co-PI(s)	**:**	Dr. HIROKI AKUTSU (OSAKA UNIVERSITY)

Sanctioned Budget Details :

Budget Head	Sanctioned Amount (in INR)
Travel - International Faculty	21,28,580
Travel - International Scholar	2,00,000
Travel - Indian Scholar	11,39,195
Publication - Monograph	2,00,000
Workshop / Symposium	3,00,000
Overhead and Contingency	9,91,000
Total	**49,58,775**

The start date and the duration for the project are as follows

Start Date: 13.05.2019 **Duration:** 2 years

All procedures to be followed including expenditure will be as per SPARC norms.

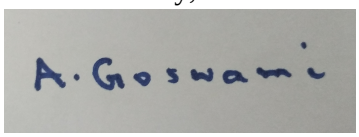
As per rule 211 of GFR, the accounts of project shall be open for inspection by sanctioning authority/audit whenever the institute is called upon to do so.

The Institute has to maintain a separate account for each project.

The Institute Coordinator of SPARC is requested to arrange for uploading provisional statement of accounts/UC in the site for all projects approved for the Institute during the 1st week of April and to upload the audited statement of accounts/UC by July.

The sanction is issued as per the approval of the National Coordinator, SPARC.

Yours sincerely,



For National Coordinator
IIT, Kharagpur

Back to main page

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
NATIONAL FUND FOR BASIC STRATEGIC AND FRONTIER APPLICATION RESEARCH IN AGRICULTURE
Room No. 707, KAB -I, Pusa , New Delhi - 110 012

F.No. NFBSFARA/WQ-3021/2012-13 **Dated: 31st October, 2012**

To,
The Director,
Central Inland Fisheries Research Institute,
Barrackpore, Kolkata-700120

Sub: Sanction letter for the research project entitled**, "Stock characterization, captive breeding, seed production and culture of hilsa (*Tenualosa ilisha*)"** under the National Fund for Basic, Strategic and Frontier Application Research in Agriculture (NFBSFARA).

Sir,

In the last EC meeting (12th Empowered Committee meeting) which was held on 19th April, 2012 under the Chairmanship of Dr. Mangala Rai, it was decided, "*The proposal will be reviewed by the Director General and will take the decision on approval after necessary modifications".*

Accordingly DG ICAR has himself guided a through revision of the proposal and the PI, Dr. V.R. Suresh has submitted revised project document. The total cost of this project will be **Rs. 1380.1387 Lakh (Rupees Thirteen Crore Eighty Lakhs Thirteen Thousand and eighty Seven only)** for a period of five years starting 1st November 2012 and ending 30th November, 2017. The Principal Investigator (PI) and the Co-operating Centre Principal Investigators (CCPIs) are the following.

1.	**Name of the Lead Centre and address**	:	Central Inland Fisheries Research Institute, Barrackpore, Kolkata-700120
2.	**Names of Cooperating Centre and addresses**	:	Central Institute of Fisheries Education, Versova, Mumbai-400061 Kakdwip Research Centre, Central Institute of Brackishwater Aquaculture, Kakdwip, West Bengal-743347 Regional Research Center of Central Institute of Freshwater Aquaculture, A-5 (Phase-III), Santalpara, Kalyani-741235, West Bengal Visakhapatnam Regional Centre of Central Marine Fisheries Research Institute, Pandurangapuram, Visakhapatnam – 530003, Andhra Pradesh National Bureau of Fish Genetic Resources, Canal Ring Road, P.O. Dilkusha, Lucknow- 226

Back to main page

			002, Uttar Pradesh Visva-Bharati University, Santinketan - 731235, West Bengal
3.	**Name & Designation of the PI**	:	Dr. V. R. Suresh, Principal Scientist
4.	**Name & Designation of the CCPI**	:	Dr. B. K. Mahapatra, Principal Scientist Dr. Debasis De, Senior Scientist Dr. Debnarayan Chattopadhyay, Senior Scientist Dr. Shubhadeep Ghosh, Senior Scientist Dr. Mrs. Vindhya Mohindra, Principal Scientist Dr. Samir Bhattacharya, Professor

The details of the project are given in the project document in Annexure I. The head-wise and year-wise budget (both consolidated and for each partner) are given in the Annexures II to VIII.

The Sanction will be subject to the following conditions:

1. The Principal Investigator (PI) and the Lead Centre will have the overall responsibility of carrying out the work shown in the project as given in Annexure I. Each Cooperating Centre Principal Investigator (CCPI) and the Cooperating Centre will have the responsibility for work assigned to the Centre under the project by the competent authority of NFBSFARA and the centre will fully cooperate with the Lead Centre and the NFBSFARA authorities.

2. All the Centres and the scientists will follow the rules and regulations of the ICAR set for the operation of the projects sanctioned under NFBSFARA.

3. Financial and Procurement

i. Funds will be released by the Secretariat of the NBFSFARA directly to the institutions of the PI (Lead Centre) and to the institutions of the CCPIs (Cooperating Centre).

ii. The Lead Centre and each of the Cooperating Centre will submit to the National Coordinator (NC) head-wise Utilization Certificate (UC) in the prescribed format duly verified by the concerned Finance Officer(s) twice every financial year: the first will be the UC for the immediate preceding financial year ending 31st March and will be submitted by the 15th of April and the second a six-monthly UC for the period from 1st April to 30th September of the year by the 15th of October. Each Cooperating Centre will submit a copy each of the aforesaid UCs to the PI.

iii. For facilitating smooth and speedy implementation of the activities envisaged under the sanctioned project, the PI and, the CCPI from each Cooperating Centre will exercise powers for executing the project to the extent of sanctioned funds of his/her respective component of the project as given in Annexure IX.

iv. The Heads of the Lead Centre and the Cooperating Centre(s) will ensure that the project runs in an efficient manner, provide laboratory space, salary, logistic facilities and services required for the same and monitor its progress on a regular basis.

v. **The expenditure will be made only on the approved items.** The amount sanctioned under each head/subhead is the maximum budgetary limit for that item but the actual expenditure will not exceed the amount actually released by the NC under the head for the

period concerned. In case of public organizations the expenditure under any head shall be made by the lead or cooperating institution in accordance with their own institutional prescribed rules/ norms. However, in cases of conducting workshops, meetings, and cost of Advisory Committee meetings norms and rules enclosed as Annexure X should be followed. **Any re-appropriation from one head to another is not permissible.** All institutions including those belonging to the ICAR will maintain a separate ledger for the project. In case of private and non-governmental organizations the expenditure will be made in accordance with ICAR/NFBSFARA rules. In case any guidance is required in this matter, the Lead or Co-operating Institutions should take the guidance of the Finance and Accounts Officer of the nearest ICAR institutes with information to the National Coordinator.

vi. There will be **no revalidation of unspent funds released for recurring expenditure** in one financial year, in the next financial year**.** For funds released for non-recurring expenditure such revalidation will be allowed in exceptional cases. **Funds revalidated once will not be revalidated for the second time under any circumstances**.

vii. Accrual accounting system has to be followed for the funds of the project without any exception. The reporting of annual accounts will also be in accordance with the accrual accounting system.

viii. At the end of each financial year, a Utilization Certificate will be submitted by the designated Finance Officer/F&AO/Comptroller of the Lead and each Cooperating Centre by 15 April indicating the head wise expenditure incurred in the previous year and resultant unspent balances/savings. Only on the receipt of UC, any funds will be released for the next financial year after adjusting for the savings from the previous financial year. Each of the Lead and the Cooperating Centre will submit the Annual Accounts for the previous financial year signed by the designated Finance Officer of the Project by 30th June and the an Audited Utilization Certificate (AUC) and the Audited Annual Accounts for the previous financial year by the 30th September of each year in the prescribed proformas. The Central Government/State Government Institutes will get the certificate from the CAG/State AG. The Universities (General and Agricultural) and the non-ICAR institutes will have the option to get the certificate from their statutory auditors or from a Chartered Accountant empanelled by ICAR (Please see the website http://www.icar.org.in/nfbsfara for the list of empanelled chartered accountants and their remunerations). The private and NGO institutions will get the certificate from a Chartered Account empanelled as given in the above website. The cost of hiring the Chartered Accountants will be met out of the institutional charges. In case it is not sufficient operational cost budget may be used with the permission of National Coordinator.

ix. Only after the receipt of the AUC, the Annual Accounts and the half yearly UC any funds for the second half of a financial year will be released.

x. The salaries of the RAs and SRFs will be according to ICAR norms prevalent during the period of appointment (copy of the current norms in vogue is enclosed as Annexure XI). Adequate transparent and competitive procedure should be adopted for the selection of the contractual staff.

xi. The ICAR will have no liability, whatsoever, for the SRFs and RAs or any other staff employed under the Project on contractual basis during and after expiry of the project term.

xii. Institutional charges will be available to the Institution concerned for meeting expenditure on overheads, institutional services, monitoring, reporting, and audit which are required by the Lead or Cooperating Centres to support the project. Expenditure under this item should be properly accounted for.

xiii. Funds for every year will be released after the submission of UC and on the basis of demands for funds and recommendations of the PI and the National Coordinator regarding

the satisfactory achievement of research targets set for the period. The UC should be submitted head wise duly verified by competent finance officer of the institution concerned indicating head wise closing/unspent balances.

3. Monitoring:

(i) This sanction letter, and the research project (as given in Annexure I) approved by the EC will be treated as a Work Programme Agreement between the ICAR and the Lead and the Cooperating Centres

(ii) The PI will form an Advisory Committee consisting of two external members (one as Chairman and the other as a member) selected by the Expert Committee who are very eminent scientists in the field of the project. The NC or his representative, the Head of the Lead Centre or his nominee, the CCPI(s), Head of Finance and the Head of Administration of the Lead Centre will be the members. The PI of the project will be the Member Secretary. The recommendations of the Advisory Committee may be reviewed by the EC. The EC's decision will be final on all recommendations /suggestions of the Advisory Committee. The names of the External Members of the Advisory Committee and the powers delegated to the Committee are given in Annexure XII.

As the Member Secretary, the PI will conduct the first meeting of the Advisory Committee within a month of receiving funds from the Secretariat to formulate the plan of work for the next six months. Thereafter, the Advisory Committee should meet every six months with sufficient prior information to the National Coordinator. The National Coordinator or his representative will participate in the meeting as far as possible.

(iii) The PI will submit to the NC an Annual Report for the previous year (ending 31st March) by 15 April of every year in a prescribed Proforma(s).

(iv) The PI and the CCPIs may be called to present their progress before the EC or in a Workshop organized by the NFBSFARA whenever required.

(v) A final report of the project will be submitted to the NC within 30 days of the closure of the project with all technical and financial details. This deadline will be strictly followed.

(vi) The National Coordinator or his representative will visit the project institutions as and when required.

4. Intellectual Property Rights:

(i) The rights on any intellectual property shall be vested in the ICAR, who shall be the absolute and full owner.

(ii) The sharing of income from Intellectual Property Rights (IPR) from the project would be in accordance with the proportion/percentage given below:

(a) Share of ICAR: 60%
(b) Share of Project Participating Institutions: 40%. Out of this 40%, the share of major/inventing partner(s) will be 50% and the rest 50% shall be shared equally among other partner(s) if any.

(iii) The intellectual properties may be licensed against a fee (premium) which may be in a lump sum or with royalty for a fixed/defined period of time.

(iv) The intellectual properties to be licensed on exclusive basis or non-exclusive basis will be decided by the ICAR depending upon the welfare/gains considerations or public consideration or public welfare embedded in the intellectual properties.

(v) Whereas a minimum price for the intellectual properties is to be evaluated, it may not be rigidly adhered to; and the offers made by different parties shall be given due consideration in consultation with the Empowered Committee on the basis of recommendations of ICAR. The spirit behind this should be to commercialize the intellectual properties in the best interest of the investment.

(vi) If one or more of the partners (i.e., the Lead or Cooperating Centre) of the Project is (are) interested to commercialize the intellectual properties, it may be given preference over other parties at mutually agreed terms and conditions between the interested partner and the ICAR.

(vii) The ICAR will hold the right to use the intellectual property for non-commercial purposes in public interest.

(viii) The services of the inventor(s) rendered subsequent to the transfer of intellectual property may entail earning of charges/fees etc., distribution of which will be as per the clause stated in para 4(ii) above.

(ix) It will not be incumbent upon the ICAR to protect every Intellectual Property (IP) generated from the Project. On refusal by the ICAR to own the IP, the inventor(s) shall be free to protect it at their own cost provided ICAR has no objection to it in public interest.

5. **The PI and the CCPI will not be removed/ transferred from the project without the prior consent of the Empowered Committee of the NFBSFARA.**

6. **The decision of the Empowered Committee of the NFBSFARA will be final in all matters of the project**.

Receipt of this letter may please be acknowledged. The PI is requested to make copies of the sanction letter along with all the Annexures and distribute the same to the CCPI(s) and the heads of the Lead and Cooperating Centres.

Yours faithfully,

(A Bandyopadhyay)
National Coordinator

Copy for information and necessary action to:

(i) PI/CCPIs of the project.
(ii) Heads of cooperating institutions
(iii) PPS to DG, ICAR for kind information of the DG
(iv) AF&AO, NFBSFARA Secretariat

Annexure - I

Copy of the final project-enclosed

Annexure - II

Year-wise and head-wise breakup in budget

No.	Lead Institute (CIFRI)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works (should in no case exceed 5% of total budget)**							
	a. Renovation of labs/experimental facilities	0.0000	5.0000	0.0000	0.0000	0.0000	0.0000	5.0000
	b. Ponds/ Culture facilities/ fish farm on rent or lease, rennnovation for grow our rearing / pond culture experiments/ fabrication ot purchase of FRP tanks for rearing.	0.0000	2.0000	3.0000	2.0000	1.0000	0.0000	8.0000
	Total (a+b)	0.0000	7.0000	3.0000	2.0000	1.0000	0.0000	13.0000
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	62.9500	0.0000	0.0000	0.0000	0.0000	0.0000	62.9500
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project (one Desktop and one Laptop with accessories)	2.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000
	e. Mongraphs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.0000	0.7000	0.8000	0.8000	0.6000	0.0000	2.9000
	Total (a+b+c+d+e+f)	64.9500	1.7000	0.8000	0.8000	0.6000	0.0000	68.8500
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	i. Abroad	0.0000	0.0000	0.0000	5.0000	0.0000	0.0000	5.0000
	ii. India	0.0000	0.5000	0.0000	0.5000	0.0000	0.0000	1.0000
	Sub-Total (i+ii)	0.0000	0.5000	0.0000	5.5000	0.0000	0.0000	6.0000
	b. Organizing Training/workshop-cum-Training / field awareness cum training to fishers	0.0000	0.5000	0.0000	1.0000	1.0000	0.0000	2.5000
	Sub-Total (a+b)	0.0000	1.0000	0.0000	6.5000	1.0000	0.0000	8.5000
	Total (non-recurring)	**64.9500**	**1.7000**	**3.8000**	**9.3000**	**2.6000**	**0.0000**	**90.3500**
II.	**RECURRENING COSTS**						0.0000	0.0000
1	**TA/DA**	0.7500	8.8000	9.7000	10.6000	8.0000	7.2500	45.1000
2	**Review Workshop/Meetings**	1.0000	1.5000	1.5000	1.5000	1.0000	1.0000	7.5000

3	**Contractual Staff (1 RA/3 SRF)**	2.8080	12.3552	13.3848	14.7233	16.1956	8.4240	67.8909
4	**Operational Contingencies**							
	i. Laboratory purpose:							
	a. Chemicals, enzymes, kits, Cells, glassware, plastic wares, other miscellaneous items, etc.	2.0000	5.0000	4.0000	2.0000	2.0000	2.0000	17.0000
	b. Skilled labour 2 Nos.	0.0000	1.6000	1.2000	1.3000	1.4000	0.5000	6.0000
	c. Outsourcing of lab work: biochemical analysis, plankton identification, etc	0.0000	5.0000	5.0000	4.0000	4.0000	0.0000	18.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.1000	0.3000	0.3000	0.3000	0.0000	1.0000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.1000	0.0300	0.1000	0.0300	0.0300	0.0000	0.2900
	ii. Field purpose:							
	a. Small field equipment (byckets, rope, nets, scoop nets, cups, plastic items)	0.0000	0.1000	0.1000	0.1000	0.1000	0.0500	0.4500
	b. Unskilled labour	0.0000	4.2000	4.2000	4.2000	4.0000	2.2000	18.8000
	c. Running cost of feed and medicine etc.	0.0000	0.1000	0.1000	0.1000	0.1000	0.0000	0.4000
	d. Small repairs of farm machinery.	0.0000	0.0500	0.0500	0.0500	0.0500	0.0000	0.2000
	e. Running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	0.4000	0.4000	0.2000	0.2000	0.3000	1.5000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	2.0000	2.0000	2.0000	1.0000	0.7500	7.7500
	iii. Vehicle and boat hiring for surveys, arranging & attending meeting, hiring of boats for sampling, experimental fishing, cage management, stocking fishes in cages and cage monitoring, etc.)	1.0000	6.8000	7.4000	8.0000	5.0000	4.0000	32.2000
	iv. Miscellaneous urgent purchases	0.5000	1.0000	1.0000	1.0000	0.5000	0.5000	4.5000
	v. Fish for bio-chemical analytical work, population studies and live fish for stocking in cages/ ponds and brood fish	0.5000	4.0000	4.0000	3.0000	1.5000	1.0000	14.0000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0240	0.0240	0.0240	0.0240	0.0240	0.0240	0.1440
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.4000	0.3500	0.3500	0.3500	0.3500	0.0000	1.8000
	Total (i+ii+iii+iv+v+vi+vii)	**4.5240**	**30.7540**	**30.2240**	**26.6540**	**20.5540**	**11.3240**	**124.0340**
	Total Recurring (1+2+3+4)	**9.0820**	**53.4092**	**54.8088**	**53.4773**	**45.7496**	**27.9980**	**244.5249**
5	Institutional Charges (10% of recurring costs for the CL and 5% for consortium partners)	0.9082	5.3409	5.4809	5.3477	4.5750	2.7998	24.4525
	TOTAL COST	**74.9402**	**68.4501**	**64.0897**	**68.1250**	**52.9246**	**30.7978**	**359.3274**

No	Partner 1 (CIFE)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works (should in no case exceed 5% of total budget)**							
	a. Renovation of labs/experimental facilities	0.0000	2.0000	0.0000	0.0000	0.0000	0.0000	2.0000
	b. New structures for experimental facilities and for special housing for new equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (a+b)	0.0000	2.0000	0.0000	0.0000	0.0000	0.0000	2.0000
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	8.3000	35.0000	0.0000	0.0000	0.0000	0.0000	35.0000
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project		2.0000	0.0000	0.0000	0.0000	0.0000	2.0000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.3000	0.5000	0.4000	0.4000	0.4000	0.0000	2.0000
	Total (a+b+c+d+e+f)	9.6000	37.5000	0.4000	0.4000	0.4000	0.0000	48.3000
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	i. Abroad	0.0000	0.0000	0.0000	2.5000	0.0000	0.0000	2.5000
	ii. India	0.0000	0.5000	0	0.5000	0.0000	0.0000	1.0000
	Sub-Total (i+ii)	0.0000	0.5000	0.0000	3.0000	0.0000	0.0000	3.5000
	b. Organizing Training/workshop-cum-Training	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (a+b)	0.0000	0.5000	0.0000	3.0000	0.0000		3.5000
	Total (non-recurring)	**9.6000**	**40.0000**	**0.4000**	**3.4000**	**0.4000**	**0.0000**	**53.8000**
II.	**RECURRENING COSTS**							
1	**TA/DA**	1.0000	1.5000	1.5000	1.5000	1.0000		6.5000
2	**Review Workshop/Meetings**	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
3	**Contractual Staff (2 SRF)**	1.2480	5.4912	6.1776	6.7954	7.4748	3.7440	30.9310
4	**Operational Contingencies**							
	i. Laboratory purpose:							

	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	2.0000	3.0000	3.0000	3.0000	3.0000	1.4000	15.4000
	b. Semi skilled labour.	0.0000	1.5000	1.5000	1.5000	1.5000	1.5000	7.5000
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.2000	0.2000	0.2000	0.2000	0.0000	0.8000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.0300	0.0300	0.0300	0.0300	0.0300	0.0000	0.1500
	ii. Field purpose:							0.0000
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Unskilled labour	0.0000	1.3000	1.3000	1.3000	1.3000	1.3000	6.5000
	c. Running cost of feed and medicine etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small repairs of farm machinery.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	iii. Vehicle hiring for surveys, arranging & attending meeting etc	0.5000	3.5000	3.0000	1.0000	1.0000	1.0000	10.0000
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	0.0000	0.1000	0.1000	0.1000	0.1000	0.1000	0.5000
	v. Fish for sample collection for osmoregulation and hormonal studies and also for laboratory experiments	0.2500	0.6000	0.6000	0.5000	0.5000	0.2500	2.7000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0600
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.3000	0.3000	0.0000	0.3000	0.0000	0.0000	0.9000
	Total (i+ii+iii+iv+v+vi+vii)	**3.0900**	**10.5400**	**9.7400**	**7.9400**	**7.6400**	**5.5600**	**44.5100**
	Total Recurring (1+2+3+4)	**5.3380**	**17.5312**	**17.4176**	**16.2354**	**16.1148**	**9.3040**	**81.9410**
5	Institutional Charges (10% of recurrent (i.e. II A, B, C & D) costs for the CL and 5% for consortium partners)	0.2669	0.8766	0.8709	0.8118	0.8057	0.4652	4.0971
	TOTAL COST	**15.2049**	**58.4078**	**18.6885**	**20.4472**	**17.3205**	**9.7692**	**139.8381**

No	Partner 2 (CIBA)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works (should in no case exceed 5% of total budget)**							
	a. Renovation of labs/experimental facilities (Renovation of experimental ponds, reservoir and existing lab)	0.0000	12.0000	0.0000	0.0000	0.0000	0.0000	12.0000
	b. New structures for experimental facilities and for special housing for new equipment(Live feed culture, establishment of flow through system)	0.0000	20.0000	22.0000	0.0000	0.0000	0.0000	42.0000
	Total (a+b)	0.0000	32.0000	22.0000	0.0000	0.0000	0.0000	54.0000
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	16.0000	26.0000	0.0000	0.0000	0.0000	0.0000	42.0000
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	0.0000	0.3000	0.0000	0.0000	0.0000	0.0000	0.3000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.4000	0.0000	0.0000	0.4000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.0000	0.3000	0.3000	0.2000	0.2000	0.0000	1.0000
	Total (a+b+c+d+e+f)	16.0000	26.6000	0.3000	0.6000	0.2000	0.0000	43.7000
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits							0.0000
	i. Abroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. India	0.0000	0.0000	0.1000	0.0000	0.1000	0.0000	0.2000
	Sub-Total (i+ii)	0.0000	0.0000	0.1000	0.0000	0.1000	0.0000	0.2000
	b. Organizing Training/workshop-cum-Training	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (a+b)	0.0000	0.0000	0.1000	0.0000	0.1000	0.0000	0.2000
	Total (non-recurring)	**16.0000**	**58.6000**	**22.4000**	**0.6000**	**0.3000**	**0.0000**	**97.9000**
II.	**RECURRENING COSTS**							
1	**TA/DA**	0.2500	0.7000	0.7500	0.7000	0.6000	0.0000	3.0000
2	**Review Workshop/Meetings**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	**Contractual Staff (2 SRFs)**	0.5275	4.2300	4.7500	4.7500	4.7500	1.5825	20.5900
4	**Operational Contingencies**							

	i. Laboratory purpose:							
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	0.5000	3.5000	3.0000	1.5000	0.0000	0.0000	8.5000
	b. Semi skilled labour(1 nos.)	0.0000	1.4500	1.6000	1.7500	1.9300	0.6600	7.3900
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	0.0000	3.0000	3.0000	2.0000	0.0000	0.0000	8.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.0000	0.3000	0.3000	0.4000	0.0000	1.0000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.0500	0.0500	0.0500	0.0500	0.0500	0.0000	0.2500
	ii. Field purpose:							0.0000
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides), net, hapa,aquarium	0.0000	0.3000	0.3000	0.1000	0.0000	0.0000	0.7000
	b. Unskilled labour (1 nos.) Govt. rate Rs. 256/day +EPF 13.61%+ESI 4.75%+Bonus 8.33 %+Service cahrge 10%(approx.)	0.0000	1.2600	1.3800	1.5200	1.6700	0.0000	5.8300
	c. Running cost of feed and medicine etc.	0.0000	0.3000	0.3000	0.2000	0.2000	0.0000	1.0000
	d. Small repairs of farm machinery.	0.0000	0.0000	0.1000	0.1000	0.1000	0.0000	0.3000
	e. Running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	1.0000	1.0000	1.0000	0.5000	0.0000	3.5000
	f. Hiring external experts for specific specialized work (@2500/day)						0.0000	0.0000
	iii. Vehicle hiring & POL for surveys, arranging & attending meeting etc	0.2500	2.5000	2.5000	1.0000	0.5000	0.2500	7.0000
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	0.2000	0.2000	0.2000	0.2000	0.2000	0.0000	1.0000
	v. Fish for stocking and experiments in live condition	0.2500	2.0000	1.0000	1.0000	0.5000	0.7500	5.5000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0120	0.0120	0.0120	0.0120	0.0120	0.0000	0.0600
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.3000	0.3000	0.2500	0.2500	0.2500	0.0000	1.3500
	Total (i+ii+iii+iv+v+vi+vii)	**1.5620**	**15.8720**	**14.9920**	**10.9820**	**6.3120**	**1.6600**	**51.3800**
	Total Recurring (1+2+3+4)	**2.3395**	**20.8020**	**20.4920**	**16.4320**	**11.6620**	**3.2425**	**74.9700**
5	Institutional Charges (10% of recurrent (i.e. II A, B, C & D) costs for the CL and 5% for consortium partners)	0.1170	1.0401	1.0246	0.8216	0.5831	0.1621	3.7485
	TOTAL COST	**18.4565**	**80.4421**	**43.9166**	**17.8536**	**12.5451**	**3.4046**	**176.6185**

No	Partner 3 (CIFA)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works (should in no case exceed 5% of total budget)**							
	a. Renovation of labs/experimental facilities (Renovation of ponds, experimental site and laboratory)	0.0000	5.0000	2.0000	0.0000	0.0000	0.0000	7.0000
	b. New structures for experimental facilities and for special housing for new equipment (Establishment of concrete raceway, recirculatory system, field laboratory, pump house)	0.0000	49.7500	0.0000	0.0000	0.0000	0.0000	49.7500
	Total (a+b)	0.0000	54.7500	2.0000	0.0000	0.0000	0.0000	56.7500
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	3.8800	19.1300	0.0000	0.0000	0.0000	0.0000	23.0100
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	0.5000	1.5000	1.0000	0.0000	0.0000	0.0000	3.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.3000	0.8000	0.7000	0.6000	0.6000		3.0000
	Total (a+b+c+d+e+f)	4.6800	21.4300	1.7000	0.6000	0.6000	0.0000	29.0100
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits							0.0000
	i. Abroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. India	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (i+ii)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Organizing Training/workshop-cum-Training	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (a+b)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (non-recurring)	**4.6800**	**76.1800**	**3.7000**	**0.6000**	**0.6000**	**0.0000**	**85.7600**
II.	**RECURRENING COSTS**							
1	**TA/DA**	0.2500	2.0000	2.0000	2.0000	2.0000	0.2500	8.5000
2	**Review Workshop/Meetings**	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
3	**Contractual Staff (2 SRF)**	1.2475	5.49	6.18	6.8	7.48	3.7425	30.9400

4	**Operational Contingencies**							
	i. Laboratory purpose:							
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	0.2500	0.5000	0.5000	0.5000	0.0000	0.2500	2.0000
	b. Semi skilled labour	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.0000	0.3000	0.4000	0.3000	0.0000	1.0000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.0000	0.0500	0.0500	0.0200	0.0100	0.0000	0.1300
	ii. Field purpose:							0.0000
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides),net,hapa etc.	0.3000	0.5000	0.7000	0.3000	0.2000	0.0000	2.0000
	b. Unskilled labour (2 nos)	0.0000	2.7700	3.0500	3.3600	3.7000	2.5200	15.4000
	c. Running cost of feed and medicine etc.	0.0500	0.2000	0.3000	0.3000	0.0000	0.0000	0.8500
	d. Small repairs of farm machinery.	0.0000	0.0000	0.2000	0.2000	0.2000	0.0000	0.6000
	e. Running cost of water pump, generator (diesel, mobil,petrol etc.)	0.0000	1.5000	1.5000	1.5000	1.0000	0.5000	6.0000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	0.7500	0.7500	0.2500	0.2500	0.0000	2.0000
	iii. Vehicle hiring and POL for surveys, transporting fish, FRP hatchery & accessories, river water transport & boat hiring for sample collection etc	0.2500	6.0000	6.0000	4.5000	1.0000	0.7500	18.5000
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	0.2000	0.2000	0.2000	0.2000	0.2000	0.0000	1.0000
	v. Fish (live broods and seed)	0.1000	2.0000	2.0000	1.5000	0.0000	0.0000	5.6000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0120	0.0120	0.0120	0.0120	0.0120	0.0000	0.0600
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.5000	0.5000	0.2500	0.5000	0.2500	0.0000	2.0000
	Total (i+ii+iii+iv+v+vi+vii)	**1.6620**	**14.9820**	**15.8120**	**13.5420**	**7.1220**	**4.0200**	**57.1400**
	Total Recurring (1+2+3+4)	**3.1595**	**22.4720**	**23.9920**	**22.3420**	**16.6020**	**8.0125**	**96.5800**
5	Institutional Charges (10% of recurrent costs for the CL and 5% for consortium partners)	0.1580	1.1236	1.1996	1.1171	0.8301	0.4006	4.8290
	TOTAL COST	**7.9975**	**99.7756**	**28.8916**	**24.0591**	**18.0321**	**8.4131**	**187.1690**

No	Partner 4 (CMFRI)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works 7**							
	a. Renovation of labs/experimental facilities		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. New structures for experimental facilities and for special housing for new equipment		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (a+b)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased (Cage frame with nets, floats, chains and anchors: 5 growout cages and 2 seed cages in 2nd year, 6 growout cages in 3rd year and two migratory cages in 4th year)	0.0000	28.0000	0.0000	0.0000	0.0000	0.0000	28.0000
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Miscellaneous : shackles, revolving swivels and mooring chains	0.0000	0.7000	0.8000	0.9000	1.0000	0.0000	3.4000
	Total (a+b+c+d+e+f)	0.0000	28.7000	0.8000	0.9000	1.0000	0.0000	31.4000
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	i. Abroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. India	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (i+ii)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Organizing Training/workshop-cum-Training							0.0000
	Sub-Total (a+b)	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
	Total (non-recurring)	**0.0000**	**28.7000**	**0.8000**	**0.9000**	**1.0000**	**0.0000**	**31.4000**
II.	**RECURRING COSTS**							
1	**TA/DA**	0.5000	4.2500	4.5000	4.7500	5.0000	3.5000	22.5000

2	**Review Workshop/Meetings**	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
3	**Contractual Staff (1 SRF)**	0.6250	2.7500	3.1000	3.4000	3.7400	1.8750	15.4900
4	**Operational Contingencies**							
	i. Laboratory purpose:							
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Divers for regular monitoring and maintenance of mooring and cage @ Rs. 6000/cage/month with 10% increment in each year).	0.0000	4.3200	4.7500	5.2200	5.7500	0.9000	20.9400
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. Field purpose:							
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Watch and ward with 10% increment in each year (Rs. 10000/month/cage)	0.0000	7.2000	7.9200	8.7100	9.5800	1.2000	34.6100
	c. Running cost of feed and medicine etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small repairs of farm machinery.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	iii. Vehicle and boat hiring for surveys, cage installation/ cage monitoring/ attending meeting etc with 10% increment in every year	0.5000	5.5000	4.8000	5.2800	5.8100	1.6000	23.4900
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	0.2000	0.3000	1.0000	1.1000	1.2100	0.0000	3.8100
	v. Fish	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	vi. Phone/ fax cost (Rs. 100 for each CCPI)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.3000	0.3000	0.0000	0.0000	0.0000	0.0000	0.6000
	Total (i+ii+iii+iv+v+vi+vii)	**1.0000**	**17.6200**	**18.4700**	**20.3100**	**22.3500**	**3.7000**	**83.4500**
	Total Recurring (1+2+3+4)	**2.1250**	**24.6200**	**26.0700**	**28.4600**	**31.0900**	**9.0750**	**121.4400**
5	Institutional Charges	0.1063	1.2310	1.3035	1.4230	1.5545	0.4538	6.0720
	TOTAL COST	**2.2313**	**54.5510**	**28.1735**	**30.7830**	**33.6445**	**9.5288**	**158.9120**

No	Partner 5 (NBFGR)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-Nov'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works**							
	a. Renovation of labs/experimental facilities (Renovation of experimental ponds, reservoir and existing lab)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. New structures for experimental facilities and for special housing for new equipment(Live feed culture, establishment of flow through system)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (a+b)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (a+b+c+d+e+f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits							
	i. Abroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. India	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (i+ii)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Organizing Training/workshop-cum-Training	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000
	Sub-Total (a+b)	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000
	Total (non-recurring)	**0.0000**	**0.0000**	**0.0000**	**1.0000**	**0.0000**	**0.0000**	**1.0000**
II.	**RECURRENING COSTS**							
1	**TA/DA**	1.0000	4.0000	3.0000	3.0000	1.0000	0.0000	12.0000
2	**Review Workshop/Meetings**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	**Contractual Staff (2 RA+2 SRFs)**	2.8400	11.3600	11.3600	11.3600	5.0000	0.0000	41.9200

4	**Operational Contingencies**							
	i. Laboratory purpose:							
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	2.0000	5.0000	5.0000	3.0000	3.0000	0.0000	18.0000
	b. Semi skilled labour(1 nos.)	1.6200	1.6200	1.6200	1.6200	1.6200	0.0000	8.1000
	c. Transcriptome, SSR genotyping, RAD seq	0.0000	35.0000	30.0000	22.0000	10.0000	0.0000	97.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. Field purpose:						0.0000	0.0000
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides), net, hapa,aquarium	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Unskilled labour (1 nos.) Govt. rate Rs. 256/day +EPF 13.61%+ESI 4.75%+Bonus 8.33 %+Service cahrge 10%(approx.)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Running cost of feed and medicine etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small repairs of farm machinery.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	iii. Vehicle hiring & POL for surveys, arranging & attending meeting etc	0.5000	1.0000	1.0000	1.0000	1.0000	0.0000	4.5000
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	0.2000	0.2000	0.2000	0.2000	0.0000	0.0000	0.8000
	v. Fish samples purchase	0.5000	2.0000	1.0000	1.0000	0.5000	0.0000	5.0000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.4000	0.0000	0.4000	0.0000	0.0000	0.0000	0.8000
	Total (i+ii+iii+iv+v+vi+vii)	**5.2200**	**44.8200**	**39.2200**	**28.8200**	**16.1200**	**0.0000**	**134.2000**
	Total Recurring (1+2+3+4)	**9.0600**	**60.1800**	**53.5800**	**43.1800**	**22.1200**	**0.0000**	**188.1200**
5	Institutional Charges	0.4530	3.0090	2.6790	2.1590	1.1060	0.0000	9.4060
	TOTAL COST	**9.5130**	**63.1890**	**56.2590**	**46.3390**	**23.2260**	**0.0000**	**198.5260**

No	Partner 6 (V-B U)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works**							
	a. Renovation of labs/experimental facilities	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.0000
	b. New structures for experimental facilities and for special housing for new equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (a+b)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	10.0000	52.0000	0.0000	0.0000	0.0000	0.0000	62.0000
	b. Animals: Cattle buffalo, horse, goat, sheep, etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.2000	0.2000	0.2000	0.2000	0.2000	0.0000	1.0000
	Total (a+b+c+d+e+f)	11.2000	52.2000	0.2000	0.2000	0.2000	0.0000	64.0000
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	i. Abroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	ii. India	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (i+ii)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Organizing Training/workshop-cum-Training	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Sub-Total (a+b)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (non-recurring)	**11.2000**	**53.2000**	**0.2000**	**0.2000**	**0.2000**	**0.0000**	**65.0000**
II.	**RECURRENING COSTS**							
1	**TA/DA**	0.5000	1.0000	1.0000	1.0000	1.0000	0.5000	5.0000
2	**Review Workshop/Meetings**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	**Contractual Staff (2 SRF with 10% HRA)**	1.1040	4.4160	4.9680	4.9680	4.9680	3.3120	23.7360

4	**Operational Contingencies**							
	i. Laboratory purpose:							
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	5.0000	10.0000	10.0000	10.0000	10.0000	4.7000	49.7000
	b. Semi skilled labour.	0.0000	1.4400	1.4400	1.4400	1.4400	1.4400	7.2000
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.1000	0.1000	0.1000	0.1000	0.1000	0.0000	0.5000
	ii. Field purpose:							
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	b. Unskilled labour	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Running cost of feed and medicine etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	d. Small repairs of farm machinery.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	e. Running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	iii. Vehicle hiring for surveys, arranging & attending meeting etc	0.2500	0.5000	0.5000	0.5000	0.5000	0.2500	2.5000
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	0.1000	0.1000	0.1000	0.1000	0.1000	0.0000	0.5000
	v. Fish for experiments	0.1000	0.1000	0.1000	0.1000	0.1000	0.0000	0.5000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	vii. Cost of publication of advertisement for positions and tenders, research papers	0.3000	0.3000	0.0000	0.0000	0.0000	0.0000	0.6000
	Total (i+ii+iii+iv+v+vi+vii)	**5.8500**	**12.5400**	**12.2400**	**12.2400**	**12.2400**	**6.3900**	**61.5000**
	Total Recurring (1+2+3+4)	**7.4540**	**17.9560**	**18.2080**	**18.2080**	**18.2080**	**10.2020**	**90.2360**
5	Institutional Charges (10% of recurring costs for the CL and 5% for consortium partners)	0.3727	0.8978	0.9104	0.9104	0.9104	0.5101	4.5118
	TOTAL COST	**19.0267**	**72.0538**	**19.3184**	**19.3184**	**19.3184**	**10.7121**	**159.7478**

Annexure – III

Consolidated budget (Year wise)

No	Consolidated budget (Lead + Partner wise)	2012-2013 (Nov'12-March'13)	2013-2014 (April'13-March'14)	2014-2015 (April'14-March'15)	2015-2016 (April'15-March'16)	2016-2017 (April'16-March'17)	2017-2018 (April'17-Nov'17)	Total
I	**INVESTMENT COST (Non-recurring)**							
1	**Civil Works**							
	a. Renovation of labs/experimental facilities	0.0000	25.0000	2.0000	0.0000	0.0000	0.0000	27.0000
	b. New structures for experimental facilities and for special housing for new equipment	0.0000	71.7500	25.0000	2.0000	1.0000	0.0000	99.7500
	Total (a+b)	0.0000	96.7500	27.0000	2.0000	1.0000	0.0000	126.7500
2	**Goods & Equipment**							
	a. Equipment, Plant & Machinery, Technology to be purchased	101.1300	160.1300	0.0000	0.0000	0.0000	0.0000	252.9600
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	1.5000	2.5000	1.0000	0.0000	0.0000	0.0000	5.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	3.0000	2.3000	0.0000	0.0000	0.0000	0.0000	5.3000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.0000	0.4000	0.0000	0.0000	0.4000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	0.8000	3.2000	3.2000	3.1000	3.0000	0.0000	13.3000
	Total (a+b+c+d+e+f)	106.4300	168.1300	4.2000	3.5000	3.0000	0.0000	285.2600
3	**Capacity Building**							
	a. Attending Workshops/Seminars/ Exposure Visits	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	i. Abroad	0.0000	0.0000	0.0000	7.5000	0.0000	0.0000	7.5000
	ii. India	0.0000	1.0000	0.1000	1.0000	0.1000	0.0000	2.2000
	Sub-Total (i+ii)	0.0000	1.0000	0.1000	8.5000	0.1000	0.0000	9.7000
	b. Organizing Training/workshop-cum-Training	0.0000	0.5000	0.0000	2.0000	1.0000	0.0000	3.5000
	Sub-Total (a+b)	0.0000	1.5000	0.1000	10.5000	1.1000	0.0000	13.2000
	Total (non-recurring)	106.4300	266.3800	31.3000	16.0000	5.1000	0.0000	425.2100
II.	**RECURRENING COSTS**							
1	**TA/DA**	4.2500	22.2500	22.4500	23.5500	18.6000	11.5000	102.6000

2	**Review Workshop/Meetings**	1.0000	1.5000	1.5000	1.5000	1.0000	1.0000	7.5000
3	**Contractual Staff**	10.4000	46.0924	49.9204	52.7967	49.6084	22.6800	231.4979
4	**Operational Contingencies**	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	i. Laboratory purpose:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	11.7500	27.0000	25.5000	20.0000	18.0000	8.3500	110.6000
	b. Semi skilled labour.	1.6200	11.9300	12.1100	12.8300	13.6400	5.0000	57.1300
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	0.0000	43.0000	38.0000	28.0000	14.0000	0.0000	123.0000
	d. Small maintenance & repairs of lab equipment	0.0000	0.3000	1.1000	1.2000	1.2000	0.0000	3.8000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.2800	0.2600	0.3300	0.2300	0.2200	0.0000	1.3200
	ii. Field purpose:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides)	0.3000	0.9000	1.1000	0.5000	0.3000	0.0500	3.1500
	b. Unskilled labour	0.0000	16.7300	17.8500	19.0900	20.2500	7.2200	81.1400
	c. Running cost of feed and medicine etc.	0.0500	0.6000	0.7000	0.6000	0.3000	0.0000	2.2500
	d. Small repairs of farm machinery.	0.0000	0.0500	0.3500	0.3500	0.3500	0.0000	1.1000
	e. running cost of water pump, generator (Diesel, petrol and mobil)	0.0000	2.9000	2.9000	2.7000	1.7000	0.8000	11.0000
	f. Hiring external experts for specific specialized work (@2500/day)	0.0000	2.7500	2.7500	2.2500	1.2500	0.7500	9.7500
	iii. Vehicle hiring for surveys, boat hiring, arranging & attending meeting etc	3.2500	25.8000	25.2000	21.2800	14.8100	7.8500	98.1900
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	1.4000	2.1000	2.8000	2.9000	2.3100	0.6000	12.1100
	v. Fish for bio-chemical analytical work, population studies and live fish for stocking in cages, brood fish, etc	1.7000	10.7000	8.7000	7.1000	3.1000	2.0000	33.3000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.0580	0.0580	0.0580	0.0580	0.0580	0.0340	0.3240
	vii. Cost of publication of advertisement for positions and tenders, research papers	2.5000	2.0500	1.2500	1.4000	0.8500	0.0000	8.0500
	Total (i+ii+iii+iv+v+vi+vii)	**22.9080**	**147.1280**	**140.6980**	**120.4880**	**92.3380**	**32.6540**	**556.2140**
	Total Recurring (1+2+3+4)	**38.5580**	**216.9704**	**214.5684**	**198.3347**	**161.5464**	**67.8340**	**897.8119**
5	Institutional Charges (10% of recurring costs for the CL and 5% for consortium partners)	2.3820	13.5190	13.4689	12.5906	10.3648	4.7916	57.1168
	TOTAL COST	**147.3700**	**496.8694**	**259.3373**	**226.9253**	**177.0112**	**72.6256**	**1380.1387**

Annexure – IV

Consolidated Partner wise budget

No	Institute wise budget	CIFRI	CIFE	CIBA	CIFA	CMFRI	NBFGR	V-BU	Total
I	**INVESTMENT COST (Non-recurring)**								
1	**Civil Works (should in no case exceed 5% of total budget)**								
	a. Renovation of labs/experimental facilities	5.0000	2.0000	12.0000	7.0000	0.0000	0.0000	1.0000	27.0000
	b. New structures for experimental facilities and for special housing for new equipment	8.0000	0.0000	42.0000	49.7500	0.0000	0.0000	0.0000	99.7500
	Total (a+b)	13.0000	2.0000	54.0000	56.7500	0.0000	0.0000	1.0000	126.7500
2	**Goods & Equipment**								
	a. Equipment, Plant & Machinery, Technology to be purchased	62.9500	35.0000	42.0000	23.0100	28.0000	0.0000	62.0000	252.9600
	b. Animals: Cattle buffalo, horse, goat, sheep etc.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	c. Furniture & Fixtures (will be rarely considered for new Lab)	1.0000	1.0000	0.0000	3.0000	0.0000	0.0000	0.0000	5.0000
	d. Computer hardware & software (costing more than Rs.5000) related specifically to the project	2.0000	2.0000	0.3000	0.0000	0.0000	0.0000	1.0000	5.3000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.0000	0.0000	0.4000	0.0000	0.0000	0.0000	0.0000	0.4000
	f. Miscellaneous (small unforeseen items) not more than Rs. 3 lakh in (5 years)	2.9000	2.0000	1.0000	3.0000	3.4000	0.0000	1.0000	13.3000
	Total (a+b+c+d+e+f)	68.8500	48.3000	43.7000	29.0100	31.4000	0.0000	64.0000	285.2600
3	**Capacity Building**								
	a. Attending Workshops/Seminars/ Exposure Visits	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	
	i. Abroad	5.0000	2.5000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5000
	ii. India	1.0000	1.0000	0.2000	0.0000	0.0000	0.0000	0.0000	2.2000
	Sub-Total (i+ii)	6.0000	3.5000	0.2000	0.0000	0.0000	0.0000	0.0000	9.7000
	b. Organizing Training/workshop-cum-Training	2.5000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	3.5000
	Sub-Total (a+b)	8.5000	3.5000	0.2000	0.0000	0.0000	1.0000	0.0000	13.2000
	Total (non-recurring)	**90.3500**	**53.8000**	**97.9000**	**85.7600**	**31.4000**	**1.0000**	**65.0000**	**425.2100**
II.	**RECURRENING COSTS**	0.0000							
1	**TA/DA**	45.1000	6.5000	3.0000	8.5000	22.5000	12.0000	5.0000	102.6000
2	**Review Workshop/Meetings**	7.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7.5000

3	**Contractual Staff**	67.8909	30.9310	20.5900	30.9400	15.4900	41.9200	23.7360	231.4979
4	**Operational Contingencies**								
	i. Laboratory purpose:								
	a. Chemicals, enzymes, kits, Cells, glassware, plasticwares, etc.	17.0000	15.4000	8.5000	2.0000	0.0000	18.0000	49.7000	110.6000
	b. Semi skilled labour.	6.0000	7.5000	7.3900	0.0000	20.9400	8.1000	7.2000	57.1300
	c. Outsourcing of lab work: biochemical analysis, gene sequencing, etc	18.0000	0.0000	8.0000	0.0000	0.0000	97.0000	0.0000	123.0000
	d. Small maintenance & repairs of lab equipment	1.0000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	3.8000
	e. Computer stationery, CD, software (Costing less than Rs. 5000/-)	0.2900	0.1500	0.2500	0.1300	0.0000	0.0000	0.5000	1.3200
	ii. Field purpose:		0.0000	0.0000	0.0000		0.0000		
	a. Small field equipment (spade, khurpi etc.) pots, seeds, inputs (fertilizer, pesticides)	0.4500	0.0000	0.7000	2.0000	0.0000	0.0000	0.0000	3.1500
	b. Unskilled labour	18.8000	6.5000	5.8300	15.4000	34.6100	0.0000	0.0000	81.1400
	c. Running cost of feed and medicine etc.	0.4000	0.0000	1.0000	0.8500	0.0000	0.0000	0.0000	2.2500
	d. Small repairs of farm machinery.	0.2000	0.0000	0.3000	0.6000	0.0000	0.0000	0.0000	1.1000
	e. Running cost of water pump, generator (Diesel, petrol and mobil)	1.5000	0.0000	3.5000	6.0000	0.0000	0.0000	0.0000	11.0000
	f. Hiring external experts for specific specialized work (@2500/day)	7.7500	0.0000	0.0000	2.0000	0.0000	0.0000	0.0000	9.7500
	iii. Vehicle hiring for surveys, boat hiring, arranging & attending meeting etc	32.2000	10.0000	7.0000	18.5000	23.4900	4.5000	2.5000	98.1900
	iv. Miscellaneous urgent purchases (not more than 20,000/- per year)	4.5000	0.5000	1.0000	1.0000	3.8100	0.8000	0.5000	12.1100
	v. Fish for bio-chemical analytical work, population studies and live fish for stocking in cages, brood fish, etc	14.0000	2.7000	5.5000	5.6000	0.0000	5.0000	0.5000	33.3000
	vi. Phone/ fax cost (Rs. 200 per month for the PI and Rs. 100 for each CCPI)	0.1440	0.0600	0.0600	0.0600	0.0000	0.0000	0.0000	0.3240
	vii. Cost of publication of advertisement for positions and tenders, research papers	1.8000	0.9000	1.3500	2.0000	0.6000	0.8000	0.6000	8.0500
	Total (i+ii+iii+iv+v+vi+vii)	**124.0340**	**44.5100**	**51.3800**	**57.1400**	**83.4500**	**134.2000**	**61.5000**	**556.2140**
	Total Recurring (1+2+3+4)	**244.5249**	**81.9410**	**74.9700**	**96.5800**	**121.4400**	**188.1200**	**90.2360**	**897.8119**
5	Institutional Charges (10% of recurring costs for the CL and 5% for consortium partners)	24.4525	4.0971	3.7485	4.8290	6.0720	9.4060	4.5118	57.1168
	TOTAL COST	**359.3274**	**139.8381**	**176.6185**	**187.1690**	**158.9120**	**198.5260**	**159.7478**	**1380.1387**

Annexure – V

Number of RA/SRF required for the lead and each participating institution

Sl No.	Centers	RA/SRF	Nos.	Budget (Rs in lakhs)
1	CIFRI (Lead institute)	RA	1	67.8909
		SRF	3	
2	CIFE (Partner 1)	SRF	2	30.9310
3	CIBA (Partner 2)	SRF	2	20.5900
4	CIFA (Partner 3)	SRF	2	30.9400
5	CMFRI (Partner 4)	SRF	1	15.4900
6	NBFGR (Partner 5)	RA	2	41.9200
		SRF	2	
7	V-B U (Partner 6)	SRF	2	23.7360

Annexure -VI

List of Equipments (both Imported and Indian)

If in the following list any brand name has been it is solely because it was given like that in the project proposal despite the note given in the project proposal proforma for not to give brand names. It will be the responsibility of the PI/CCPI to ensure that it is replaced by the proper generic name. If any procurement is made on the basis of the brand name without going through a due tendering process the expenditure will be considered invalid.

A. Lead Centre : Central Inland Fisheries Research Institute

No.	Name of the Equipment	Cost in INR (Lakhs)
1	U. V. Visible Spectrometer	6.0
2	Electronic Portable, Weighing balance with battery backup (2nos.)	2.0
3	Portable electronic water Depth Gauge	2.0
4	GPS equipment	0.25
5	Plastic Pools, and fiber containers of various capacity	3.0
6	Plastic tanks/ FRP/ sponge lined fibre containers of various size	3.0
7	Portable turbidity meter (nephalometer)	1.0
8	Multi probe water analyser (10-12 parameters)	10.0
9	Microtome	3.0
10	Portable water flow probe	2.5
11	Plankton/ fish egg and spawn collection nets with flow meter	3.0
12	Drag nets, Gill nets, hapa, hand net etc.	1.5
13	Statistical software for multivariate analysis	0.75
14	Thin sectioning and polishing machine	4.0
15	Sedgwick rafter counter (with platinum wire grids)	0.1
16	Thermostatic heating oven with timer (Up to 350oC)	2.0
17	Water bath with thermostat	0.5
18	Digital SLR camera with standard accessories	0.75
19	Life Jackets	0.4
20	Salinometer	0.2
21	Binocular research microscope with high resolution image processing accessories and software	12.0
22	Portable aerators for fish transportation	0.5
23	Portable fiber/ FRP hatchery unit	4.0
24	Portable diesel water pump set	0.5
	Total	**62.95**

B. Co-operating Partner

Partner 1: Central Institute of Fisheries Education

Sl. No.	Name of the Equipment	Cost in INR (Lakhs)
1	Automatic microtome	5.0
2	Tissue embedder	7.0
3	Fluorescence microscope with camera	15.0
4	Micro tissue homogenizer	3.0
5	Gel-Electrophoresis system with power pack	2.3
6	Dry blotting system	4.2
7	Gel Documentation system	4.0
8	Incubator	0.8
9	Liquid Nitrogen cane	2.0
	Total	**43.3**

Partner 2: Kakdwip Research Centre of Central Institute of Brackishwater Aquaculture

Sl. No.	Name of the equipment	Cost in INR (Lakhs)
1	Water pump (5 HP) with accessories	1.0
2	Aerator with accessories	2.0
3	Thermostatically regulated heater	0.8
4	Air Conditioner (2 ton)	1.0
5	Air filter	2.0
6	UV irradiator	3.0
7	Extruder cum spheronizer	20.0
8	FRP Tank of various size	4.0
9	Bio filter	6.0
10	Oxygen diffuser	1.0
11	Digital balance	0.2
12	Portable Generator	1.0
	Total	**42.0**

Partner 3: Central Institute of Freshwater Aquaculture

Sl. No.	Name of the equipment	Cost in INR (Lakhs)
1	Digital balance	0.2
2	Generator (5 KV)	0.55
3	Water pump (diesel) with accessories (two 5 HP & one 1.5 HP)	1.4
4	Water pump (electric, monoblock 1HP) with accessories	0.6
5	Starters (2), stabilizer, electrical accessories	0.2
6	Plumbing / water lining system, portable wooden structure	0.4
7	Aerator with accessories	3.5
8	Air blower (small and heavy duty) with accessories	4.1
9	FRP silos with pipe connections	2
10	FRP Tank of various size	3.88
11	Oxygen cylinder	0.3
12	Battery	0.12
13	FRP carp hatchery	1.2
14	Circular FRP tank, PVC pipe connections	0.4
15	FRP overhead tank with PVC pipe connections and fitting charge	0.3
16	Vertical FRP sheet to be fixed on pond to modify as pond raceway system (40 m x 2 m x 5 mm)	3.6
17	FRP/polyfoam tank	0.26
	Total	23.01

Partner 4:Central Marine Fisheries Research Institute

Sl. No	Name of the Equipment	Cost in INR (Lakh)
1	HDPE grow-out Cage of 4-6 m dia and 2- 4 m depth	20.0
2	HDPE seed Cage of 4 m dia and 4 m depth	8.0
	Total	**28.0**

Partner 5:NBFGR

NIL

Partner 6: Visva-Bharati University

Sl. No	Name of the Equipment	Cost in INR (Lac)
1	FACS (Fluorescence activated cell sorter)	38.0
2	Illuminometer	10.0
3	Centrifuge	4.0
4	Cell viability analyzer	10.0
	Total	**62.0**

Annexure - VII

Centre-wise List of Works

Sl. No.	Centers	Budget (Rs in lakhs)
1	CIFRI (Lead institute)	13.00
2	CIFE (Partner 1)	2.00
3	CIBA (Partner 2)	54.00
4	CIFA (Partner 3)	56.75
5	CMFRI (Partner 4)	0.00
6	NBFGR (Partner 5)	0.00
7	V-B U (Partner 6)	1.00

Annexure - VIII

Centre wise List of Approved Programme to attend Seminar/Symposia

***Duration of visit will be the journey time plus the actual duration of Conference/Symposium**

Name of Centre	Name of the Scientist	Area or topic of seminar / symposia	Host Country to attend seminar/ symposia	Year & Duration (duration of symposium + journey period)
CIFRI	Dr. B. K. Behera	Biochemistry and physiology	USA	2015
	Dr. Mrs. Sajina, A. M Ms. K. M. Sandhya	Fisheries management	7th World Fisheries Congress	2015
CIFE, Mumbai	Dr. S. Dasgupta	10th international symposium on Reproductive physiology in fish,	Spain	2014

The PI should come with proposals to EC for visits abroad to attend seminar/symposia as and when the time and venue are finalized. The condition will be that participation should be for *oral presentation of paper* only will be based on the work in the project and not for presentation of posters or just participation. Cost will be as per actual in accordance with the ICR norms and duration will be journey time plus duration of the event

Annexure - IX

Delegation of Powers to Principal Investigators (PI) and Cooperating Centre Principal Investigators (CCPI) of the projects operating under the National Fund for Basic, Strategic and Frontier Application Research in Agriculture (NFBSFARA)

In this Document wherever "Prescribed Procedure" is written it means, "Subject to the rules and procedures of the institution concerned in case of public institutions if those rules and procedures with respect to the concerned issue are not expressly overridden by NFBSFARA directives. For non-public institutions the GOI/ICAR/NFBSFARA rules and procedures have to be followed. The non-public organizations may seek the help and advise of the Finance and Procurement officers of the nearest ICAR institute. In the Procurement Committees Constituted for processing gods/services under the NFBSFARA project such non-public institutions, the finance officer from the nearest ICAR institute may be kept as a member. If necessary the secretariat of NFBSFARA may also provide guidance in this matter.

Sl. No.	Nature of Power	Extent of Power to PIs/ CCPIs	Remarks
1.	Sanctioning tour programme and counter signature of TA bills	Full power including for self. However, the CPIs/CCPIs will submit tour reports to his/ her higher official	With sufficient prior information to the Controlling Officer , submit tour report to his/her higher official
2.	Sanctioning tour advances for self, and other staff	Subject to the rules of the institution concerned in case of public organizations if not over-ridden by NFBSFARA directives. For non-public institutions the GOI/ICAR/ NFBSFARA rules will be followed	The adjustment of account bills to be submitted within 30 days in each case
3.	Power to restrict the frequency and duration of Journeys (SR 63)	Full powers including for self	-
4.	Sanctioning reimbursement of cancellation charges on unused railway tickets/ air tickets	Full powers for all staff working under him/her excluding self	The cancellation should with information to the controlling officer and should be justified and in public interest
5.	Expenditure on holding workshops, meetings/ conferences / deputation on short duration need based trainings in India	Full, subject to provision of fund under the head in the approved/ sanctioned project	Number of participants in the meeting workshops should not exceed 20. The norms for expenditure in workshops/meetings/conferences will be in accordance with the following ICAR norms. Lunch per head: 150 maximum Tea (per session). Rs. 5/- Stationary (per participant) Rs. 40/- POL (per participant) Rs. 40/- Miscellanies Expenditure Rs.1,500/-
6.	Sanction of registration charges at Symposia/ seminars at national level	Full only if the topic is related to the sanction project and it is organized by a private	

		institution.	
7.	Recurring contingent charges for management and operating laboratories and farms including purchase of working stores, chemicals, glasswares, tools, plants and equipment, insecticides, including consumables for research work	Rs.1 lakh in each case subject to provision of fund under the head in the sanctioned project	According to prescribed procedure.
8.	Capital expenditure on equipments and works	Full to the limit of sanctioned quantity/ budget for each approved item	According to prescribed procedure.
9.	Conveyance hire	Full powers	According to prescribed procedure.
10.	Purchase of annuals publications and reprints of scientific papers	Upto Rs. 10,000 per annum	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure
11.	Printing and binding	Upto Rs. 20,000 per annum	-do-
12.	a) Local purchase of stationary stores b) Local purchase of rubber stamps and office seals	Up to Rs. 25,000 per annum subject to observance to prescribed procedures Full	-do- -do-
13.	To incur recurring expenditure on maintenance and repair of scientific instruments, laboratory equipments, agricultural implements and machinery being used for the project	Upto Rs. 1 lakh per annum	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure. Beyond Rs.1 lakh, Advisory Committee can approve upto Rs. 1.5 lakh.
14.	Repair of office machines	Full	-do-
15.	Maintenance of computer and peripherals	Up to Rs. 25,000 per annum including cost of stores, and other materials required for maintenance	-do-
16.	Payment of charges on postage (excluding private courier), telegrams, telex, fax, telephone bills internet use, cell phone etc.	The reimbursement of calls to PIs/C CPIs will be made as per rules	Subject to the availability of funds and the adherence to rules and procedures
17.	Freight Charges	Full power subject to this being part of the supply order relating to project work	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure
18.	Sanctioning casual leave	Full, excluding for himself/ her self	-
19.	Contractual staff & help (casual labour/ data collectors etc.) approved in the project.	Job should be out sourced through job contractors	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure
20.	Engagement of RA/ SRF on Contract Basis, approved in the project	Full	Subject to provision of the position in the approved project and availability of funds and following a transparent competitive process. The cost of advertisement should be minimal and effective use of institution should be made for this purpose

For sanctioning leave other than casual leave, the PI/CPI can recommend only in respect of supporting personnel (non-gazetted) working under his/ her administrative control. However, sanction of leave will be made by the Head of Division/Department to whom powers of sanction are vested. The leave for scientific staff will be granted as per the institutional norms.

These powers will apply to PIs and CPIs of Projects under NFBSFARA. The powers will be exercised subject to remarks given against each item and also subject to fulfillment of the following requirements.

(i) Expenditure is incurred only for bonafide NFBSFARA purpose as per the approved project
(ii) The necessary funds sanctioned to meet the expenditure for a particular item is available in the sanction project budget
(iii) No additional manpower will be provided to project implementing centres for running project.
(iv) Expenditure proposals involving amounts in excess of the powers of the PI/CCPI etc. may be submitted to the competent authority concerned for sanction in the respective institutions.
(v) All contractual staff are co-terminus with the project or as per the terms and conditions of the job contract and there is absolutely no liability to ICAR or hiring institution whatsoever.

The above delegation of powers is subject to the condition that the exercise of powers will not contradict any GoI/ICAR/NFBSFARA norms & rules

Annexure - X

Norms of Expenditure for Conducting Workshops, meetings and Advisory Committee Meetings

Honorarium

1.	Chairman Advisory Committee	:	Rs. 1,500/-
2.	External member Advisory Committee	:	Rs. 1,000/-

Expenditure for Workshops/Meetings

1.	Working Lunch	:	Maximum Rs. 150/- per head
2.	Tea (per session)	:	Rs. 5/-
3.	Stationary	:	Rs. 40/- per head
4.	POL Charges	:	Rs. 40/- per head
5.	Miscellaneous Charges	:	Rs. 1,500/-

GUIDELINES FOR SENIOR RESEARCH FELLOWS AND RESEARCH ASSOCIATES WORKING IN THE ICAR SCHEMES

1. **BACKGROUND**

In order to address the emerging challenges of agricultural research and education, the ICAR supports specific time-bound schemes/projects. The schemes/projects generally have provisions for time-bound/non-regular/ contractual engagement of manpower, contingencies and limited need-based travelling allowance (TA), besides other specifically needed provisions for a particular scheme/project. In supersession of all previous guidelines, the following guidelines are formulated to regulate all aspects relating to engagement, emoluments and terms and conditions of Senior Research Fellows and Research Associates working in ICAR schemes.

2. NOMENCLATURE

The human resource engaged will be called "**ICAR–SRF/RA Working in the ICAR Schemes**" and will stand apart from engagement in all other schemes.

3. **ELIGIBILITY**

RESEARCH ASSOCIATES (RAs)

3.1. **With Doctoral degree**: Ph.D. degree in the relevant subject.

3.2. **With Master's Degree** : Master's degree in the relevant subject with 1st Division or 60% marks or equivalent overall grade point average with at least two years of research experience as evidenced from Fellowship/ Associateship / Training/ other engagements. Published research papers will be desirable.

SENIOR RESEARCH FELLOW (SRF)

Master's degree in the relevant subject.

4. **NATURE OF MANPOWER ENGAGEMENT**

The manpower may comprise of two categories viz. the Senior Research Fellows (SRFs) and Research Associates (RAs). The manpower engaged/working in the Schemes shall be on time-bound and contractual engagement of non-regular nature for specified duration not exceeding the duration of the scheme. The co-terminus nature of the engagement will be the over-riding principle. Notwithstanding the duration of the scheme(s), engagement of SRFs/RAs can be discontinued owing to administrative reasons at any time by issue of one month's notice or one month's emoluments in lieu thereof. The SRFs/RAs may also leave the assignment, on their own volition, by giving one month's notice. At the end of the contracted period, the SRFs/ RAs will have no right to claim any employment or engagement in the ICAR.

5. **SELECTION PROCEDURE**

The selection of the SRFs/RAs would be made by giving wide publicity and indicating the duration and time-bound co-terminus nature of the engagement through an appropriate medium/media as deemed fit by the Principal Investigator(PI)/Head of the Institute where the Scheme is to operate. Since the engagement of the manpower in the Scheme is purely time-bound and non-regular and also not against any sanctioned vacancy/cadre strength/post/ position, the service provisions for regular posts including reservations will not be

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applicable to these engagements. The selection will be made on co-terminus b of the respective scheme not exceeding the duration/period or a part of period of the scheme. The SRFs/RAs who have earlier worked in the I schemes may be given preference for engagement subject to their suitability.

The candidates called for the interview will not be entitled for any TA/DA/fare

The competent authority may decide the mode of interview, which may incl walk-in or telephonic interview.

6. **SELECTION COMMITTEE**

Chairman - P.I (or Co-PI, duly authorized by the P.I., in his absence)/Natio Professor for his scheme/National Fellow for his stand-alo scheme.

Members - Three

(I) One member – nominee of the Vice-Chancellor (VC) of Agricultural University (AU)/ nominee of the Director of Institute/Head of the Regional Station

(ii) One member – Principal Scientist/ Professor/equivalent positi from a Division, other than the one in which the scheme mainly operating as nominated by the VC of the AU/Director the Institute.

(iii) One external member – A Principal Scientist/Professo equivalent position of the related discipline from any other sist institute/preferably ICAR institute as nominated by the VC the AU/Director of the Institute.

Member Secretary - Registrar/Deputy Registrar of the SAU or Chief AO/Sr.AO AO/AAO of the concerned Institute/ Division as nominated by the VC of the AU/Director of the Institute.

7. **AGE**

The Upper age limit for SRFs/RAs will be as under:

For SRF - 35 years for men
- 40 years for women

For RAs - 40 years for men
- 45 years for women

The selected candidates will be medically examined and an engagement offer wil be issued which will be followed by the joining report copies of which may be sen to the concerned Drawing & Disbursing Officer (DDO), Finance & Accounts Office and the Nodal/Controlling Officer of the Scheme such as Assistant Director General (ADG) concerned. The fee for medical examination will be reimbursed by the Institute /SAU concerned.

8. **DISCIPLINE**

Since the SRFs/ RAs working in the Schemes may handle sophisticated equipments, research materials etc., they are required to show satisfactory performance of duties and maintain discipline as per the code of conduct and prevailing rules of the ICAR/AU/Institute concerned. Non-maintenance of the

discipline or failure to perform the duties assigned will make the SRFs/RAs liable for termination.

9. **EMOLUMENTS**

The rates of monthly emoluments will be as prescribed by the Council from time to time. SRFs/ RAs who have not been provided hostel accommodation or concessional accommodation by the Institute/ AU will be entitled to a house rent allowance, to be determined by the Council/ AU which in no case would exceed the rates payable to central government employees in the area. In addition, SRFs/RAs will be charged hostel charges as per the norms/rules of the Institute. The reimbursement of hostel fee is not admissible.

10. **TA/DA ON TOUR**

If the exigencies of the work demands and if there is sufficient budget provision under the scheme, the SRFs/RAs may be deputed on tour by the PI concerned. During the tour, the SRFs/RAs may travel in any class not exceeding AC-2 tier in railways or equivalent.

11. **REIMUBURSEMENT OF CONVEYANCE CHARGES**

If SRFs/RAs are sent on duty where reimbursement of conveyance charge is admissible, they will be entitled for reimbursement of conveyance charges as per the rules of the Institute/AU.

12. **LEAVE**

(i) Since the SRFs/RAs do not have status of regular employees they are not entitled for any regular leave.

(ii) SRFs/RAs are allowed to avail Casual Leave(CL) and Restricted Holidays as per rules of the Govt. of India/ICAR /AU concerned and as issued from time to time. In addition to the above, the casual leave of special nature (not to be construed as special casual leave for regular employees), not exceeding 10 days in a year, may also be allowed to meet unforeseen circumstances.

(iii) Maternity/paternity leave as admissible to the employees of the Council/AU/Institute is permissible to all categories of SRFs/RAs if the conditions prescribed for allowing Maternity/Paternity Leave are fulfilled.

(iv) In addition to the CL and RH, the SRFs/RAs may also be allowed compensatory leave in lieu of the duty assigned by the P.I. for and performed on holidays. The compensatory leave can be accumulated only upto 15 days at a time and the fellow can be allowed to avail the same within 3 months subject to the conditions that the leave sanctioned at one time should not exceed 10 days.

13. **MEDICAL BENEFITS**

(i) SRFs/RAs may be allowed to have treatment in the Institute's/AU's dispensary.

(ii) Where there is no medical dispensary in a particular ICAR Institute/AU but there is a dispensary of another ICAR Institute/AU at the same place, the SRFs/RAs engaged in work of the project at the place/location, may be allowed to have medical treatment in that dispensary with the approval of both the Heads of the Institutes/AU.

(iii) In case of any emergency during office hours, the SRFs/RAs may be taken to the nearest Government hospital at the Institute's cost. Expenses in this regard may be borne by the Institute concerned as per Institute's over contingency funds.

14. INCOME TAX

The concerned authority of the Institute/AU would be responsible for deduction of tax at source as applicable.

15. OTHER CONDITIONS

(i) The SRFs/RAs will be under the administrative control of the concerned PI/Head of the Institute.

(ii) The engagement/fellowship will stand terminated on completion of the tenure of the scheme or on the date stated in the sanction order of the scheme whichever is earlier whether so communicated formally on individual basis or not.

(iii) If any SRF/RA leaves his/her assignment without permission for one month, he/she will stand terminated from the date of his/her absence.

(iv) Since SRFs/RAs are engaged for the Scheme work full time, the SRFs/RAs will not be allowed to do any other work or to accept or hold another appointment with or without remuneration elsewhere.

(v) ICAR will have the intellectual property rights/proprietary right on research outputs of the SRF/RA made during the period of working in the ICAR as per the provisions of "ICAR Guidelines for Intellectual Property Management and Technology Transfer/Commercialization" *mutatis mutandis*. However, in case the SRF/RA has done some research work, his/her name can accordingly be acknowledged/included appropriately in the research paper(s) as solely decided by the P.I. No right in this regard can be claimed.

(vi) The SRFs/ RAs shall have no legal right to claim his/her regularization/ appointment by absorption or otherwise against any regular posts or any further contractual engagement on termination of the scheme/project. The engagement in the scheme is purely time-bound, non-regular and on co-terminus basis with the scheme. The services of the incumbent shall stand terminated automatically on expiry of the period given in the sanction.

(vii) The SRFs/RAs may be deputed by the PI to attend symposia/seminars/ conferences/workshop etc., in India.

(viii) SRFs/RAs are full time workers and are required to adhere to the administrative, financial and disciplinary regulations of University/Institute where the incumbent is working. Regular attendance of the SRFs/RAs may be ensured by the concerned Institute/PI by keeping an attendance register.

(ix) The SRFs/RAs shall settle their claims within one year and in no case after the final settlement of the accounts of the scheme.

17. AMENDMENT/REVISION OF THE GUIDELINES

The Council may modify, add, delete and/or amend/change the above guidelines/rules with the approval of the Governing Body.

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The following External Members are approved for the **Advisory Committee:**

S.No.	Reg. No.	Title of the project	External Members of Advisory Committee
1.	WQ-3021	Stock characterization, captive breeding, seed production and culture of hilsa (*Tenualosa ilisha*)	**Chairman:** Prof Amalesh Choudhury, Former Head, Dpt. Marine Science, Calcutta University, S. D. Marine Biological Research Institute, Sagar Island, Sundarbans, 24 Parganas (S), PIN-743 373, West Bengal Ph: +91-33-25650305 (Res.) +91-9433974593 (Mobile) E-mail: amalesh_choudhury@yahoo.com **Member:** Dr. Dilip Kumar, Former Director, CIFE., Rural Livelihood / Small-scale Aquaculture and Fisheries Development Adviser C-9 / 9698, Vasant Kunj, New Delhi-110 070 Ph: Tel / Fax: + 91- 11-26899185; +91- 9560455702 (Mobile) E-mail: dk.dilipkumar@gmail.com

Delegation of Powers to Advisory Committees (AC) of the Projects under NFBSFARA

1. The Proposals for approval to incur expenditure on urgent maintenance and repair of scientific instruments, laboratory equipments, agricultural implements and machinery up to Rs. 1.5 lakh per annum in a project subject to the condition that the total budget allocation of that Project is not exceeded. For the cases where this limit of Rs. 1.5 lakh is likely to exceed, the proposals are required to be submitted to the NC along with the recommendations of AC for consideration and approval by the Competent Authority.

2. Consideration and approval of the proposals of re-appropriation where the variation is up to 15% of the total approved cost of the project under minor heads subject to the financial rules and procedures. This 15% limit will be applicable for the entire project period and not each time. Beyond this limit the proposals are required to be sent to the NC along with recommendations for consideration and approval of the Competent Authority.

The above delegations of powers are subject to the condition that the exercise of such delegated powers would be subject to the Government of India/ICAR's instructions/orders issued from time to time.

Attempt to Conserve Endangered Catfishes of Arunachal Hill Streams by Manipulating Germ Cell Maturation

C2-119

FINAL REPORT

(2011-2015)

NER Twining Program

DEPARTMENT OF BIOTECHNOLOGY

MINISTRY OF SCIENCE & TECHNOLOGY

New Delhi

Submitted Jointly

By

Department of Zoology
Rajiv Gandhi University
Ronohills, Itanagar
Arunachal Pradesh
India
PIN: 791112

Department of Zoology
Visva-Bharati University
Santiniketan
West Bengal
India
PIN: 731235

Final Progress Report for R&D Projects [Year 2011-2015]*

Section-A: Project Details

A1. Project Title:	**"Attempt to conserve endangered catfishes of Arunachal hill streams by manipulating germ cell maturation"**
A2. DBT Sanction Order No. & Date	**BT/29/NE/TBP/2010 dated 08.03.2011.:**
A3. Name of Principal Investigator:	**Dr. Debangshu Narayan Das**
Name of Co-PI/Co-Investigator:	Dr. Sudipta Maitra (PI, Collaborator) Prof. Samir Bhattacharya (Co-PI)
A4. Institute: PI (NER):	Department of Zoology, Faculty of Life Sciences, RajivGandhi University, Ronohills (Doimukh), Itanagar-791112, Arunachal Pradesh
(PI, Collaborator) & (Co-PI):	Centre of Advanced Study in Zoology, Department of Zoology, Visva-Bharti University, Santiniketan -731235
A5. Address with Contact Nos. (Landline & Mobile) & Email: (PI, NER)	Department of Zoology,Rajiv Gandhi University,, Ronohills (Doimukh), Itanagar, Arunachal Pradesh, India PIN: 791112 Telephone (Land line): +91-360-2278509(O) /2277197(R) Fax: +91-360-2277317(O), Mobile: + 91–9436220201;E-mail:dndas321@rediffmail.com; dndasau321@yahoo.co.in
(PI, Collaborator) & (Co-PI) :	Centre of Advanced Study in Zoology, Department of Zoology, Visva-Bharti University, Santiniketan 731235 Telephone: 03463-261176/261268, Fax: 03463 261176; **E-mail:** sudipta.maitra@visva-bharati.ac.in, bhattacharyasa@gmail.com
A 6. Total Cost:	**Rs 68.11 lakhs (Rupees sixty eight lakhs and eleven thousands only)**
A 7. Duration:	**Three (03) years**

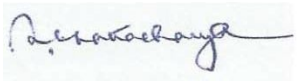
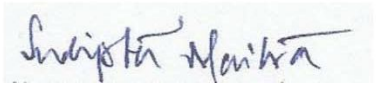
A8. Approved Objectives of the Project:

1. **Quantitative assessment of population status and habitat parameters of torrential catfish *Olyra longicaudata* and *Amblyceps apangi* in-situ.**
2. **Initiation, development and improvement of captive breeding procedures**
3. **Induction of meiotic maturation of immature oocytes of *Olyra longicaudata* and *Amblyceps apangi***
4. **Molecular mechanism of regulation of oocyte maturation in *Olyra longicaudata* and *Amblyceps apangi***

A9. Specific Recommendations made by the Task Force (if any):

Progress report: Satisfactory

- For the 3rd year aim should be standardization of in-vitro fertilization protocol for breeding captive rearing.
- Focus more on objective 1, 2 and 3.
- Release seeds to local pond for rearing.

(Samir Bhattacharya) **(Sudipta Maitra)** **(D.N.Das)**
Co-PI (Collaborator) **PI (Collaborator)** **PI (NER)**
[Signature(s) of the Investigator(s)]

Section-B: Scientific and Technical Progress

B1. Progress made against the Approved Objectives, Targets & Timelines during the Reporting Period (1000-1500 words for interim reports; 2500-3500 words for final report; data must be included in the form of up to 3 figures and/or tables for interim reports; up to 7 figures and/or tables for final reports):

In order to share expertise and to build good cohesion among researchers, during the project tenure research scholars from RGU, Itanagar visited collaborators' laboratory at Visva-Bharati twice and Dr. Sudipta Maitra, Department of Zoology, Visva-Bharati (PI, Collaborating Institute) along with research scholars visited the RGU, Itanagar three times. However, even after repeated attempts and field trips by the researchers from both the Universities only 14 adult specimens of *Amblyceps apangi* and 41 live specimens of *Olyra longicaudata* (17 adults and 24 juveniles) could be sent to collaborators at Visva-bharati University, Santiniketan. None of the above catfishes were in sexually mature condition during their capture from natural habitat and transportation to VBU. Non-availability of sexually mature males and gravid females of the catfishes in sufficient number coupled with delayed receipt of second installment (received after two year seven months) and non-receipt of the third installment till to date, adversely affected the work schedule, research progress and outcome of the present project in general, and studies and reproductive parameters and captive breeding in particular.

In spite of such impediments, to fulfill the targets of component activities against each objective, all the standard and recommended methodologies were adopted for studying population attributes, habitat parameters and breeding biology of the fishes time to time.

OBJECTIVE 1: Quantitative assessment of population status and habitat parameters of torrential catfish *Olyra longicaudata* and *Amblyceps apangi* in-situ (at RGU, Itanagar, Arunachal Pradesh)

1.1 Habitat ecology

Habitat predilection of *Olyra longicaudata* and *Amblyceps apangi* was studied systematically in a mountain stream of Dengka village of papumpare district Arunachal Pradesh, India. The enumeration of habitat parameters *in-situ* revealed that both the catfish have the

specialized and distinguishable habitat fondness in lotic system (Fig. 1a and Table 1a). These fishes are is basically bottom dweller and prefers the places with rocky stream beds, devoid of clay and detrital deposits (Fig. 1b), surrounding areas enriched with larval and aquatic insects, crustaceans, annelids, molluscs etc (Table 1b, Fig. 1d). These catfish species prefer shallower and clear running water but cool, soft, slightly alkaline with high level of dissolved oxygen (Table 1c, Fig. 1e) and under a good cover of riparian vegetation (Fig. 1c). However, relative distinguishing features of habitat preference indicated that *Olyra* prefers mildly cooler and mostly shaded area under the cover of riparian vegetation and slightly flowing water compared to that of *Amblyceps* that likes torrential streams flow with cooler water. Therefore, captive rearing of such wild candidate species demands suitable simulation of habitat *in-situ* to provide stress free rearing infrastructure.

1.2 Population status

The studies on population status of *Olyra longicaudata* showed a scattered distribution mostly in the entire foothills streams of the state. On the other hand, population of *Amblyceps apangi* showed high distributional variability and very infrequent availability in most of the areas covering primarily middle (600-1200m asl) to foot hills zone, in general with a very low abundances. The population properties of the species showed a dismal picture with adult count going remarkably down (Fig. 1f & 1g). However, the random streams and river sampling at different sites in the state of Arunachal Pradesh as a whole showed very scanty population of *Amblyceps apangi* in general.

1.3. Size frequency & Sex ratio

The sampling of fishes directly from the habitat and morphometic and meristic accounts provided the clues for assessing *in-situ* grouping of *different* size groups i.e length & weight of sampled fishes of both the species. Their pattern of abundances (%) in natural habitat indicated that the adults were less in abundance compared to juveniles. In both the species males are longer (either total length or standard length) than the females in general. Moreover, ripe males or females of both species were very scanty in abundances compared to other size groups indicating a negative population attributes. During breeding seasons, the sexual dimorphism is very prominent in both the species showing broader belly in females and prominent genital papilla in males. Further, fecundity estimated from the ripe *Amblyceps* and *Olyra* females ranged

respectively in 45-168 eggs/fish and 110-278 eggs/fish which are very less compared to other species of catfishes in general. The male female ratio also showed fluctuating values for different populations in different sites, however in most cases both the species exhibited very low counts of male samples during collection.

OBJECTIVE 2: **Initiation, development and improvement of captive breeding procedures (at Rajiv Gandhi University, Itanagar)**

Since no data was available with the present researchers on the above parameters, it was first necessary to identify the seasonal cycle of reproduction concomitant with kinetics of gonadal growth, recrudescence and maturation

2.1. Preliminary study on morphology, anatomy and annual gonadal growth pattern

Data shown in Fig. 2a-2e demonstrate the morphometric variations, anatomical peculiarities, sexual dimorphism and anatomy of gonads in male and female *Amblyceps apangi* and *Olyra longicaudata*.

Next we studied the variation in gonadosomatic index, GSI in % [(gonad weight/body weight) x 100] of male and female of both the catfish species throughout the year (**Fig. 2f**) alongwith the condition of gametogenesis through histological observation of ovary and testis (**Fig. 2g to 2i**). The results show that both *A. apangi* and *O. longicaudata* reached highest gonadal growth during June-August (possibly the spawning season). Further, the histological observation revealed that during this time ovaries were filled with full grown yolky oocytes (**Fig. 2g & 2h**) and sign of active spermatogenesis and spermeogenesis was also evident from T.S. of seminiferous tubules (**Fig. 2i**).

On the basis above observation induced breeding of both the catfish species were attempted during July.

2.2 Trials for induced breeding

The endangered catfish (*Olyra longicaudata* McClelland 1842; *Amblyceps apangi*, Nath & Dey 1989) in captivity rarely ovulate either spontaneously or even by environmental manipulation as observed in last two years by the collaborating group from Rajiv Gandh University, Itanagar. Further, the restricted occurrences and abundances of their population in

nature (Nath and Dey 2000b; Tamang et al 2007) indicate the fluctuating reproductive fitness even in their wild habitat (Vrijenhoek 1998; Ghosh and Punniah 2001).

Neither of these two threatened catfish species spawns spontaneously in captivity and a thorough investigation of their habitat ecology revealed a sharp fall in their population size in the wild.

Mature specimens of *O. longicaudata* and *Amblyceps apangi* were collected from their natural habitat during June-July, acclimatized to the laboratory condition for at least seven days, breeding pairs were selected through physical examination and released into nylon happas fitted in glass aquaria.

Specifically, two commercial formulations each consisting of a synthetic, shorter version of salmon gonadotropin releasing hormone (sGnRHa) and domperidone, a dopamine antagonist were tested. Moreover, in some cases human chorionic gonadotropin (hCG) was also tried to obtain spawning success.

Mature specimens (both male and female at the ratio of 1 female per two males) of *O. longicaudata* and *A. apangi* were injected i.m. **(Fig. 2j)** with the help of sterile insulin syringe fitted with 34xG needle at the dose level of 0.5 µl/g (Ovaprim) or 0.2µl/g (GONOPRO) or 0.25 IU/g (hCG) body weight at 18:00 hrs and released into cloth/nylon hapa fitted in glass tank equipped with pumps for constant aeration and recirculation of water (mean temperature 26 ± 2°C).

The data of the present study reveals that even after 14-16 h of hormonal stimulation, both the catfish species failed to spawn on their own. As a result it was decided to express the eggs manually (i.e. to "strip") from the female fish. As shown in **Fig. 2k**, ovulated eggs oozed out on slight pressure by thumb on the abdomen of female *Amblyceps apangi* and were collected in the plastic bowl. Testes specimens from injected males were dissected out, cut into small pieces, minced and mixed thoroughly with the ovulated eggs for 60-90 seconds and released in polypropelene tumblers containing rain water (mean temperature 26 ± 2°C) for further development.

However, the sexually mature specimens of *Olyra longicaudata*, especially the females, responded poorly to hormonal manipulation. Although the males produced copious milt containing mature sperms, the ovaries in ovaprim/gonopro/hCG-treated females revealed presence of eggs which failed to ovulate even after administering highest admissible doses. This

may primarily be either due to sub-optimum ovarian growth or stress in handling of these highly susceptible wild fishes or due to poor water quality and other parameters.

The present trial for induced breeding showed that while *Amblyceps apangi* treated with synthetic hormone gave satisfactory results and spawned successfully and fertilization rate was as high as 91% was recorded. Further nearly 81% of the fertilized egg hatched after 48 h and out of the total hatched, 47% reached the pelagic swim-up stage (Fig. 2L). On the background of expert recommendation during mid-term evaluation of the project, these fishes were released into ponds, but failed to survive in stagnant waters. Therefore the seeds have been released either into nearby streams or being maintained in cemented tanks equipped with continuous flow of water to observe their survival rate and growth performance periodically.

OBJECTIVE 3: Induction of meiotic maturation of immature oocytes of *Olyra longicaudata* and *Amblyceps apangi* (at Visva-Bharati, Santiniketan and at Rajiv Gandhi University, Itanagar))

Oocytes of oviparous vertebrates grow within ovarian follicles before ready to be fertilized. Full grown oocytes remain arrested at the boundary of G2-M1 of the first meiotic prophase. Prior to ovulation, surge in pituitary gonadotropin (LH) triggers follicle cells to secrete MIS, which is 17α, 20β-dihdroxy-4-pregnen-3-one (17α, 20β-DHP) in most fish. MIS action at the oocyte surface promotes resumption of final oocyte maturation and ovulation, pre-requisite for successful fertilization.

In order to examine the meiotic competence, fully-formed post-vitellogenic oocytes harvested from the gravid females of *O. longicaudata* and *A. apangi* were incubated either in absence (Control) or presence of exogenous hormonal stimulation, e.g. human chorionic gonadotropin (hCG) and 17α, 20β dihydroxyprogesterone (17α, 20β-DHP), the natural maturation inducing steroid (MIS) in teleosts, *in vitro*.

3.1. *Olyra longicaudata*: Development of suitable culture condition and induction of oocyte maturation *in vitro*

Ovaries from gravid females were dissected out in Leibovitz L-15 medium, follicles separated by gentle flashing and incubated in presence or absence of exogenous hormones/drugs for indicated time intervals at 23 ±2 ^{0}C with gentle shaking (40 rpm). Data of the present study demonstrate that when stimulated with either hCG or MIH the ability to undergo germinal

vesicle break-down (GVBD) varied considerably as a function of gonadosomatic index (GSI) of the donor female fish. As shown in Fig. 3a, during spawning season (July), hCG/MIS stimulation promotes GVBD in nearly 30±2.29% of the ovarian follicles harvested from females reared in captivity (GSI: 12.345±1.13%) at 16 h of incubation. On the contrary, gravid females collected from their natural habitat during the same time (i.e. in July) revealed a higher level of gonadal growth (GSI: 19.11±2.43%) as well as meiotic competence since 81.5±4.76% of the oocytes underwent GVBD within 12 h of MIH stimulation (Fig.3b). This suggests though it was possible to obtain significant gonadal growth in fishes reared in the laboratory conditions, the maturational competence of the oocytes harvested from females in their natural habitat was higher. One possible explanation to this may be that compared to their natural habitat, fishes were more stressed in the laboratory condition.

3.2 *Amblyceps apangi*: **Development of suitable culture condition and induction of oocyte maturation *in vitro***

Rearing of *Amblyceps apangi* in laboratory condition yielded poor response and none of the fishes underwent gonadal growth and failed to attain sexual maturity. Therefore, mature specimens (both male and females) were collected from their natural habitat (please see map; Fig.) during the middle of July, when females could be easily identified due to swollen abdomen and gravid ovaries. Fishes were fed *ad libitum* with commercial food pellet (Tetrabits) and acclimated to laboratory condition for seven days prior to their use in experiments.

Ovaries from gravid female *Amblyceps apangi* (mean GSI: 21.1±2.17) were dissected out (Fig. 3c) and placed immediately in medium M199. Intact ovarian follicles were incubated in the same medium either in presence of exogenous hormones (hCG/MIS) or not. Post-incubated oocytes were placed in clearing solution (ethanol:formaldehyde:acetic acid 3:6:1) and %GVBD was scored at indicated time intervals using an inverted microscope fitted with phase-contrast optics (Dewinter, Italy).

Results of the present study show that compared to un-stimulated control, incubation with exogenous hormones promoted final oocyte maturation in a duration-dependent manner and stimulation with either MIS (1 µg/ml) or hCG (10 I.U./ml) promoted GVBD response in 89.65±3.9% and 81.48±4.12% of oocytes respectively at 24 h of incubation (Fig. 3d, left panel). Moreover, representative photomicrographs (light microscopic data) reveal that immature

oocytes with centrally placed intact germinal vesicle (prophase I arrest) underwent nuclear membrane dissolution due to hCG/MIS stimulation (Fig. 3D, right panel).

Based on above, it may reasonably be concluded that we could rear *O. longicaudata* to sexual maturity, albeit in low amount, in the laboratory condition and could set up conditions conducive for successful stimulation of oocytes to undergo meiotic G2-M1 transition *in vitro*. Though, long term maintenance of adult specimens of *A. apangi* in the laboratory was largely unsuccessful, full grown follicles harvested from gravid females collected from their wild habitat responded well and underwent meiosis resumption in > 90% of oocytes *in vitro*.

Conditions adopted, process standardized and the data obtained may provide valuable insights in formulating the protocol of *in-vito* fertilization (IVF) and *ex situ* conservation strategies in large scale for these highly endangered fish species in future.

OBJECTIVE 4: Molecular mechanism of regulation of oocyte maturation in *Olyra longicaudata* and *Amblyceps apangi* (At Visva-Bharati, Santiniketan)

Meiotic maturation is the process responsible for development of immature oocytes into fertilizable gametes which is a prerequisite for successful fertilization. Maturation inducing hormone (MIH) relieves oocytes from this arrest and progesterone has been shown to be MIH in frogs and higher vertebrates, while in fish 17α, 20β-dihydroxy 4-pregnen-3-one or 17α, 20β-DP is the MIH. MIH promotes the formation of MPF in germ cells, whose activity can be attributed to dimeric protein kinase, cyclin B-cdc2.

4.1. Effect of protein synthesis inhibitors on hCG and MIH induced oocyte maturation

Pre-incubation with transcriptional blocker, actinomycin D (actD) prevents hCG, but not MIH-induced oocyte maturation to the level comparable to unstimulated control in *O. longicaudata* (~14.26%) and *A. apangi* oocytes (10.73%). Conversely, translational inhibition by priming with Chx abrogated MIH and hCG-induced final oocyte maturation completely in both the catfish species suggesting differential regulation by transcription and translational activation. While *de novo* synthesis of proteins may require both transcription and translational activation in case of hCG regulation of G2-M1 transition, translational activation may be the pre-requisite and essential for MIH action (Table 4a).

4.2. Regulation of MPF activation

In order to explore further the molecular mechanism behind regulation of meiotic G2-M1 transition in fully grown follicle-enclosed oocytes from *O. longicaudata* and *A. apangi*, we investigated the pattern of MPF activation either through immunoblot analysis using anti-cyclin B and anti-phospho-p34 cdc2 (Thr 161) antisera or by assaying histone H1 kinase activation in the oocyte extract. As shown in Fig. 4C, while total protein did not vary significantly (lower panel), compared to un-stimulated control, hCG or MIH induction of *A. apangi* immature ovarian follicles could promote p34cdc2 phosphorylation (activation) (upper panel) providing evidence behind MPF activation. Further, sharp increase ^{32}P-histone H1 kinase activation in MIH-treated oocytes (Fig. 4D) *in vitro* at 24 h of incubation suggest MPF activation. Moreover, in *O. longicaudata* oocytes upregulation of cyclin B and p-p34cdc2 (Thr161) corroborates well with GVBD data *in vitro*. There was a robust increase in *de novo* synthesis of cyclin B and p34cdc2 activation (phosphorylation) due to MIH stimulation confirming MPF activation (Fig. 3C).

4.3. cAMP/PKA regulation of meiotic G2-M1 transition in catfish follicle-enclosed oocytes

Available information indicates that high cAMP or cAMP-dependent protein kinase (PKA) play pivotal role in maintaining prophase arrest in teleosts and meiotic G2-M1 transition involves down-regulation of PKA activity (Khan and Maitra, 2013; Maitra et al., 2014).

Data of the present study demonstrate that forced elevation of intra-oocyte cAMP by priming with various cAMP regulators, e.g. cell-permeable non-hydrolysable dibutyryl cAMP (dbcAMP), or phophodiesterase inhibitor, IBMX or abenylyl cyclase activator, forskolin (all from Sigma-Aldrich, India) could completely attenuate 17α, 20β-DHP induced resumption of meiotic maturation of full grown oocytes *in vitro*.

Conversely priming of intact gravid follicle enclosed oocytes with either adenylyl cyclase inhibitor SQ 22,536 (sigma, India) cAMP-dependent protein kinase inhibitors (PKA) inhibitor, H89 (Sigma, India) could promote meiotic maturation even without maturational steroid or any other hormonal stimulation.

In order to explore potential involvement of cAMP-dependent signaling cascade further, gravid oocytes from both the catfish species were micro-injected with either PKA inhibitor peptide, PKI-(6-22)-amide (20 nl/oocyte, stock 6 lM, Upstate-Millipore) or anti-PKA antibody (anti-PKAcat (C-20, sc-903, Santa Cruz, USA), diluted 1:50 in PBS; 20 nl/oocyte, using Femtojet Express and Injectman NI2 fitted to Femtotip (internal diameter: 0.5 μm) (Eppendorf,

Germany) under a stereo microscope (Zoomster VI, Dewinter Optical Inc.). Interestingly, PKA inhibition by either PKI or anti-PKA could trigger a robust increase in % GVBD compared to vehicle (medium only)-injected control oocytes.

Since active PKA is always phosphorylated on its catalytic loop, we examined the effect of hCG/MIH on intra-oocyte PKA activity indirectly by immunoblot analysis through PKA phosphorylation using phospho-specific antibodies (p-PKAc; Santa Cruz Biotech), that specifically recognizes the active form of PKA. Oocyte extract from *A. apangi* did not show good cross-reaction with anti-p-PKA (data not shown). the Though total protein did not vary significantly, stimulation of *O. longicaudata* oocytes with either hCG/MIH could promote phospho-PKAc dephosphorylation/inactivation (upper panel, Fig. 4b).

Based on above observations, it appears highly probable that elevated cAMP and active PKA potentially acts as a negative regulator of final oocyte maturation and plays a pivotal role in maintaining prophase I arrest in growing oocytes of *O. longicaudata* and *A. apangi*. Further downregulation of cAMP or PKA is essential and sufficient to promote meiotic G2-M1 transition even without hormonal stimulation.

4.4. Effect of MIH on MAPK (p-ERK1/2) activation

Activation of mitogen-activated protein kinases, MAPK3/1 (also known as extracellular signal-related kinases, ERK1/2) comprising a family of ubiquitously expressed serine/threonine kinases, have been reported earlier during steroid-induced meiotic maturation. Though the role of MAPK as a cytostatic factor to suppress DNA replication between meiosis I and II is well documented, species specific differences exist in teleosts.

Data of the present study demonstrate that in full grown *O. longicaudata* oocytes, stimulation with either MIH or hCG promotes ERK1/2 phosphorylationon (p-ERK1/2) at 16 h of incubation *in vitro* (lower panel, Fig. 4b). However, priming with MEK inhibitor U0126 failed to block steroid-induced oocyte maturation in either *O. longicaudata* or *A. apangi* oocytes *in vitro* (data not shown).

Although we failed to detect anti-Mos immuno-reactive protein (the MEK kinase in oocytes) in MIH-treated *O. longicaudata* oocytes, further work is necessary to understand the exact role ERK1/2 activation in catfish oocytes undergoing meiotic maturation due to steroid stimulation.

B2.Summary and Conclusion of the Progress made so far (200 words)

In summary, it can be reported that the objectives of the project have been achieved certainly at the commendable level for the two targeted endangered and lesser known catfishes under study, despite several constraints faced by both of the grantee organizations. The activities have been suffered most extremely because of either delayed fund release (2nd installment) or non-receipt of committed fund allocations (3rd installment) during the project tenure.

The study explored the population status and various population attributes along with habitat ecology of both of these highly endangered cat fishes of the sate for the first time. Besides, the programme has been made the researcher enabled to trace out their reproductive characteristics both *in-situ* and *ex-situ* .Taken together, the present data for the first time could demonstrate the molecular mechanisms potentially involved in the regulation of resumption of meiosis in gravid oocytes of the endangered catfish (*Olyra longicaudata* McClelland 1842; *Amblyceps apangi* Nath & Dey 1989). Considering the sharp decline in the population size of both the species in their natural environment, the knowledge generated and the protocols standardized out of the present study could be of immense help for developing assisted reproductive technologies, especially *in vitro* fertilization, rearing and release of laboratory-bred juveniles in their natural habitat. Besides, if successful in large scale, such protocols may be adopted for germplasm conservation of these obscured but ecologically important fish species from North-Eastern states of India.

B3. Details of New leads obtained, if any:

The leads mentioned below as emerged out from this twinning programme would be the leading "knowledge base" for attempting artificial propagation towards development of habitat specific conservation strategies of such endemic and critically endangered fish species.

3.1 The understanding of species specific population attributes, habitat ecology and reproductive biology of both *Olyra longicaudata* and *Amblyceps apangi* in their natural habitat are undoubtedly new knowledge base generated from this twining programme for the first time.

3.2 On the standpoint of declining reproductive fitness of *Olyra longicaudata* and *Amblyceps apangi* in their natural habitat, standardizing the captive breeding protocol through delineation of molecular events of oocyte maturation for the first time seem to be pioneering in these fishes as well as the important outcome of the programme.

B4. **Details of publications & patents, if any**

1. Habitat Preference of an Endangered Hill Stream Catfish *Olyra longicaudata* (McClelland) From Arunachal Pradesh, India. Akash Kachari, Budhin Gogoi, Rashmi Dutta, Kamhun Aran, Pritha Ghosh, Sudipta Maitra, Samir Bhattacharya, Debangshu N. Das. **International Journal of Fisheries and Aquatic Studies 2014; 1(3): 86-93 (copy enclosed)**

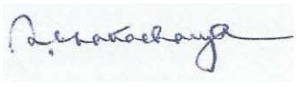
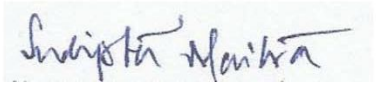
2. Identification and characterization of plasma vitellogenin in relation to gonadal growth of *Olyra longicaudata* (McClelland, 1842), a threatened hill stream catfish from Arunachal Pradesh, India. P Ghosh, D Das, A Kachari, S Juin, S Hajra, , DN Das, P Nath, S Maitra (communicated).

3. Morpho-anatomy of maturing testes of hill stream catfish *Amblyceps apangi* Nath & Dey 1989 and (McClelland, 1842). Akash Kachari, Pritha Ghosh, Sudipta Maitra, Debangshu N. Das (Communicated).

4.cAMP/PKA regulation of meiosis resumption and p34cdc2 kinase activation *in vitro*: lessons from *Amblyceps apangi* Nath & Dey 1989 (Teleostei: Amblycipitidae). (Manuscript under preparation).

5. Food and feeding habits of the ornamental hill stream catfish *Amblyceps apangi* Nath & Dey 1989. (Manuscript under preparation)

- **Indicate the impact factor : NIL**
- **Patent filed & Technology transfer : NIL**

09.03.2015

(Samir Bhattacharya) Co-PI (collaborating) | **(Sudipta Maitra) PI (collaborating)** | **(D.N.Das), PI(NER)**

[Signature(s) of the Investigator(s)]

OBJECTIVE 1 Quantitative assessment of population status and habitat parameters in-situ

Table 1a: Co-ordinates of the random sampling sites along with their visible parameters

S. No	Random sampling sites	coordinates		Visible Parameter			
		Latitude	Longitude	Substrate Dominance	Riparian cover	Human interference	Catch frequency
1	Dikrong river (Banderdewa)	27°06'44.31"N	93°49'33.89"E	1	+	+++	+
2	Karsingsa Nalla	27°06'55.28"N	93°48'26.05" E	4	++	+++	+
3	Nirjuli A sector nalla	27°07'06.7"N	93°47'56.40" E	4	++	+++	+
4	Poma Nadi	27°04'01.43"N	93°31'25.75" E	5	++	++	+
5	Poma Nalla	27°03'42.34"N	93°31'15.69"E	5	+++	+	+
6	Chimpu Nalla	27°04'47.10" N	93°36'33.13"E	5	++	++	+
7	Nirupjuli Nalla	27°07'55.14" N	93°44'49.75" E	4	+	+++	+
8	Dikrong river (Doimukh)	27°08'20.95" N	93°44'52.32" E	4	+	+++	+
9	EMCHI Nallah	27°08'32.35"N	93°46'03.22" E	4	++	++	+
10	Hati Nallah	27°08'45.04"N	93°46'28.35"E	4	+++	++	+
11	Tulan Nallah	27°08'42.44" N	93°46'54.05" E	4	+++	++	+
12	Gumto Nallah	27°08'58.04" N	93°47'23.13" E	4	++	++	+
13	Nyortha Nallah (Yupia)	27°08'50.23"N	93°42'41.50" E	5	+++	++	+
14	Rono Basti	27°09'14.18" N	93°45'34.05" E	4	++	+++	+
15	Tumru Basti	27°09'43.94" N	93°46'40.7"E	4	++	+++	+
16	Midphu	27°10'35.53" N	93°47'10.19"E	4	+	+++	+
17	Kimin	27°18'12.14" N	93°58'32.34"E	5	++	++	+
18	Deb Nadi (Segalee)	27°14'52.26" N	93°29'57.03"E	5	++	+	+
19	Dengka	27°11'38.6"N	93°52'38.7" E	3	+++	+	+++

5 = Boulder, 4 = Cobble, 3 = Pebble, 2 = Gravel, 1 = Sand, 0 = Silt and Clay, + = Low, ++ = Medium, +++ = High

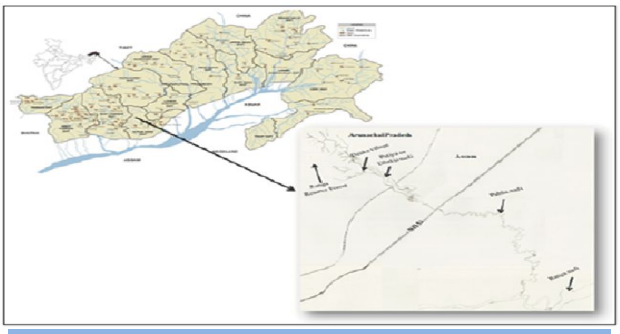


Fig. 1a. Map of the sampling site along with route of Patiya or Denka river

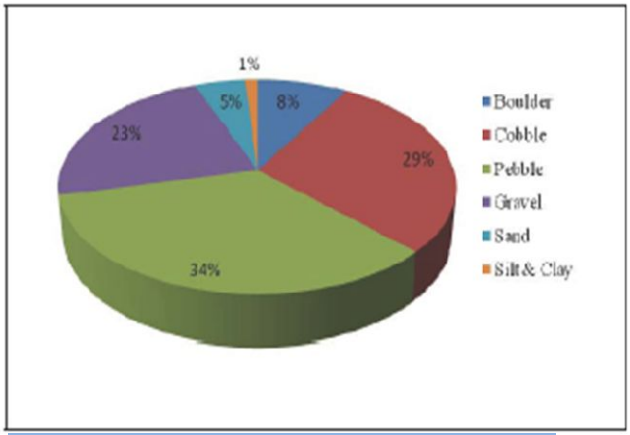


Fig. 1b. Substrate composition (%) of the study site

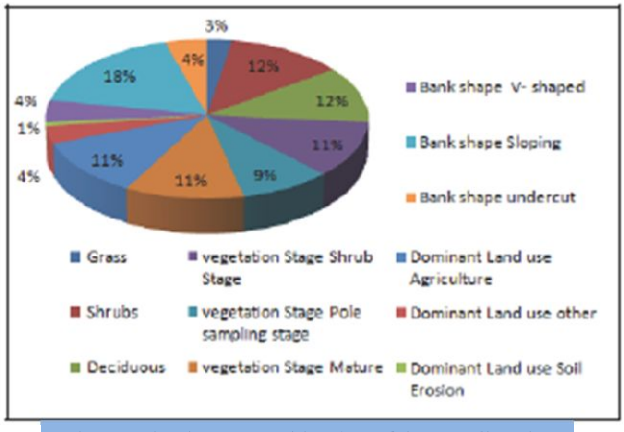


Fig. 1c. Riparian composition (%) of the sampling site

Table 1b: Planktonic community sampled from Dengka stream

S. No	Family	Genus
	Phytoplankton	
1	Bacillariophyceae	*Navicula*
		Pinnularia
		Gomphonema
		Melosira
		Tabellaria
		Surirella
		fragillaria
2.	chlorophyceae	*Closterium*
		Euastrum
		Cosmarium
		Spirogyra
		Zygnema
		Ulothrix
		Microspora
		Oedogonium
		Netrium
	Zooplankton	
3	Copepod	*Diaptomus*
		Epischura
4	Tubillaria	*Microstomum*
		Bothrioplana
5	Cladocera	*Daphnia*
6	Rotifera	*Asplancha*

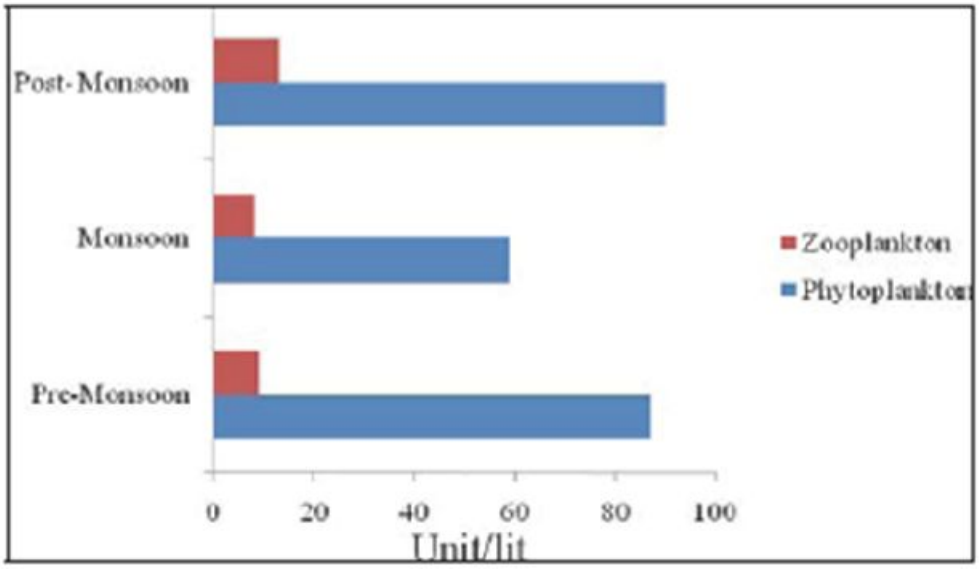


Fig. 1d. Seasonal variation of planktonic community from Dengka stream

Table 1c: Seasonal variation in physical and chemical parameters from Dengka stream

Parameter	Pre- Monsoon	Monsoon	Post- Monsoon
Physical and chemical			
pH	7.6 ± 0.04 (7.63 – 7.73)	7.5 ± 0.35 (7.05 – 7.8)	6.8 ± 0.42 (6.41 – 6.9)
Air temp. (°C)	22.8 ± 3.54 (19.7 – 26.3)	28.6 ± 2.34 (26.7 – 31.4)	25.9 ± 3.23 (22.5 – 29.8)
Water temp. (°C)	19.8 ± 3.63 (16.6 – 24.5)	24.8 ± 1.18 (23.8 – 26.5)	22 ± 2.52 (18.4 – 23.8)
Water current (m/s)	0.94 ± 0.03 (0.88 – 0.94)	1.07 ± 0.14 (0.96 – 1.29)	1.04 ± 0.14 (0.89 – 1.20)
TDS (ppt)	45.13 ± 6.86 (41.26 – 55.39)	66.24 ± 31.01 (41.66 – 106.2)	63.7 ± 26.88 (48.62 – 104)
Conductivity (μ mhos cm $^{-2}$)	202.5 ± 53.72 (146 – 274)	240 ± 32.37 (201 – 274)	206.25 ± 123.21 (114 – 382)
DO (mg/l)	8.4 ± 0.51 (8.04 – 9.2)	6.4 ± 1.35 (5.6 – 8.5)	8.3 ± 0.73 (7.6 – 9.2)
DCO_2 (mg/l)	2.2 ± 0 (2.2)	2.7 ± 1.1 (2.2 – 2.4)	3.3 ± 1.27 (2.2 – 2.4)
Alkalinity (mg/l)	76.94 ± 1.21 (75.69 – 78.6)	31.5 ± 9.19 (60.21 – 75.18)	41.95 ± 35.90 (59.6 – 76.65)
Hardness (mg/l)	6 ± 1.14 (5 – 8)	6.7 ± 1.5 (5 – 8)	6.25 ± 1.25 (5 – 8)
Salinity (ppt)	0.12 ± 0.01 (0.05 – 0.3)	0.11 ± 0.01 (0.1 – 0.13)	0.14 ± 0.07 (0.05 – 0.23)

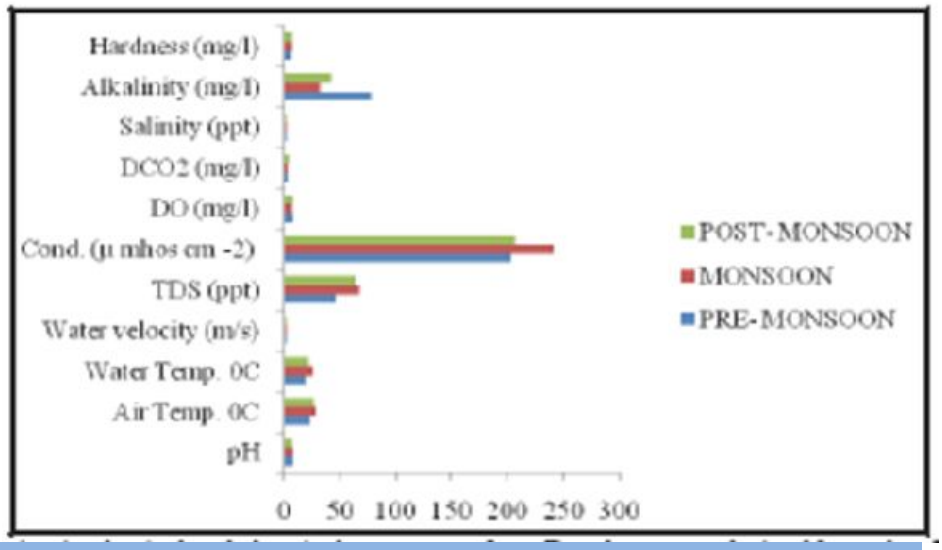


Fig. 1e. Seasonal variation in physical and chemical parameters from Dengka stream

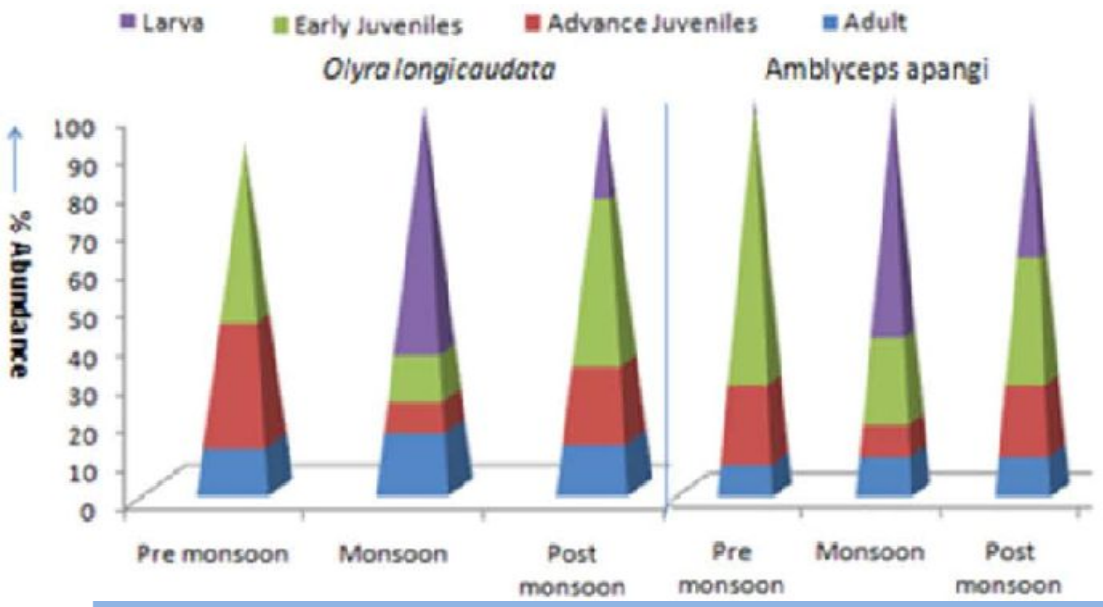


Fig. 1f. Seasonal variation in population distribution of *Olyra longicaudata* and *Amblyceps apangi*

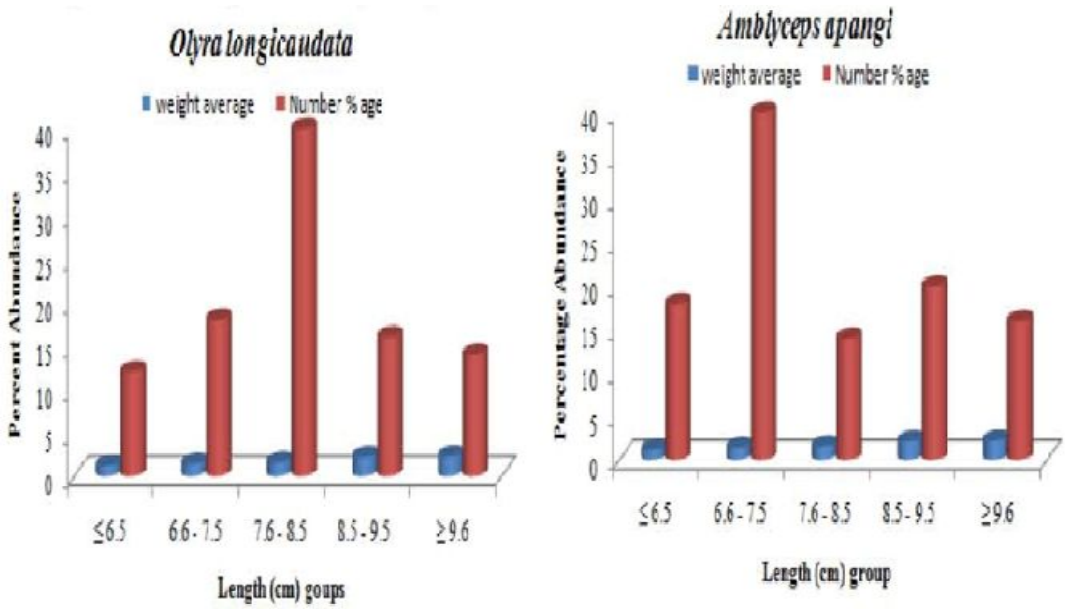


Fig. 1g. Size frequency distribution of catfishes under study

OBJECTIVE 2 Initiation, development and improvement of captive breeding procedures

Fig. 2a. Comparative morphometric measurements of male and female *Amblyceps apangi*

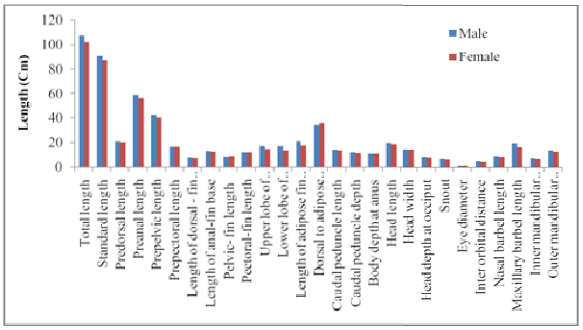


Fig. 2b. Comparative morphometric measurements of male and female *Olyra longicaudata*

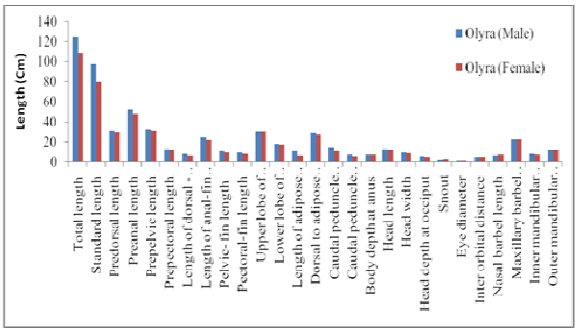
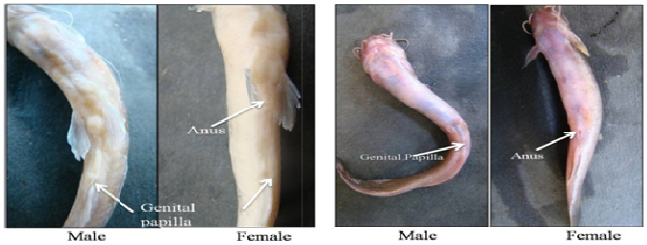
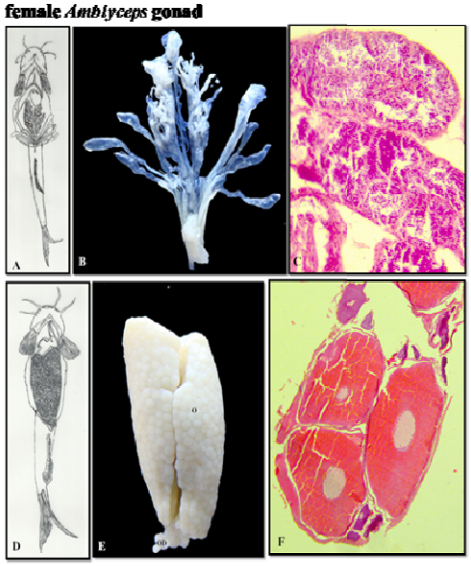


Fig. 2c. Sexual dimorphism in adult specimens of *Olyra longicaudata* and *Amblyceps apangi*



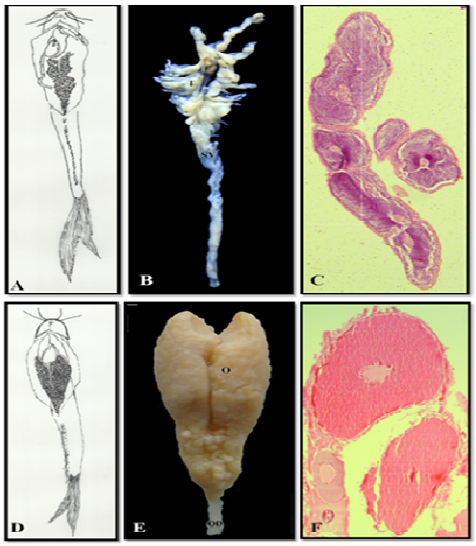
Olyra longicaudata (McClelland 1842) *Amblyceps apangi* (Nath & Dey 1989)

Fig. 2d. Anatomical and histological structure of male and female *Amblyceps* gonad



Anatomical structure of male *A. apangi* (A). Testicular anatomy (B) showing testes (T), and seminal vesicle (SV). Transverse section of testes, stained with H & E (C) revealing spermatogenic activity in seminiferous tubules. Anatomical structure of female *A. apangi* (D)., ovary (O) and oviduct (OD) (E). Transverse section of ovary, stained with H & E (F).

Fig. 2e. Anatomical and histological structure of male and female *Olyra* gonad



Anatomical structure of male (A) and female (D) *O. longicaudata*. Testicular anatomy (B) revealing testes (T), seminal vesicle (SV); seminiferous tubules in transverse section of testes (C). Ovarian anatomy (F) demonstrating ovary (O) and, oviduct (OD). Coss-section of mature ovary during the spawning phase (F).

Fig. 2f. Annual changes in gonadal growth (gonadosomatic index, GSI) in male and female *Amblyceps apangi* and *Olyra longicaudata*

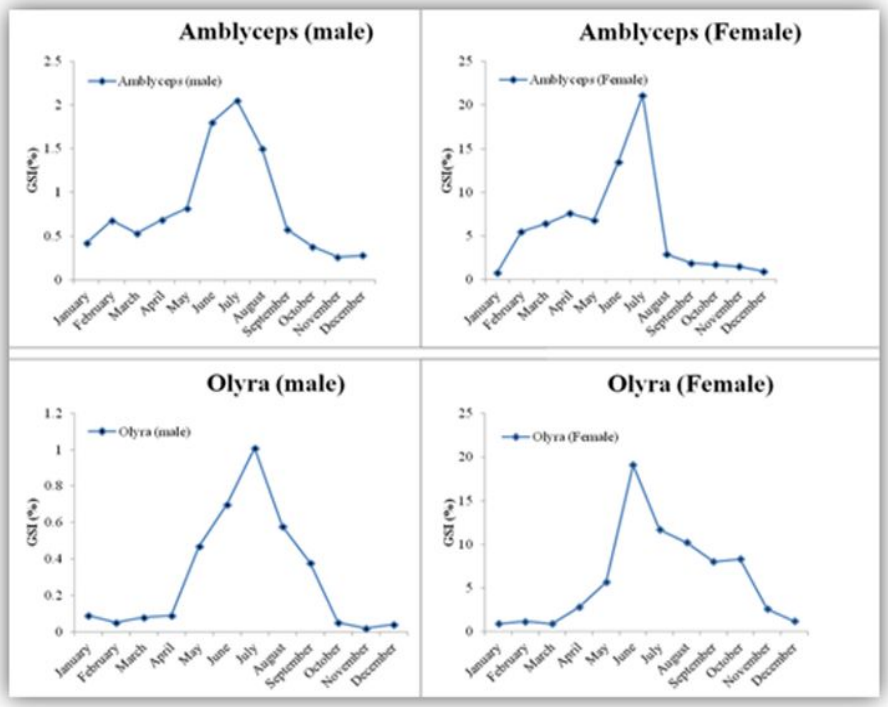
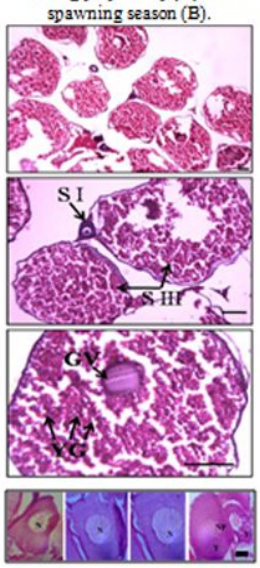
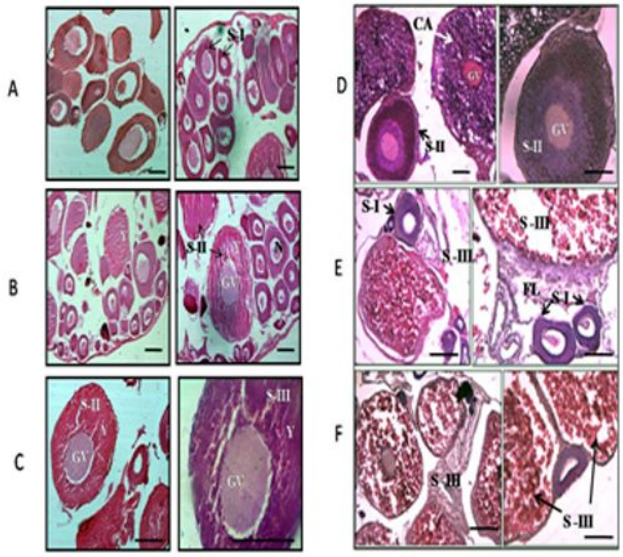


Fig. 2g. Transverse section (T.S.) of ovary from *Amblyceps apangi* collected from their natural habitat during preparatory (A) and spawning season (B).



S I: stage I, non-yolky oocytes, S II: vitellogenic oocytes, S III: full grown yolky oocytes
GV: germinal vesicle, YG: yolk granules, N: nucleus, NP: nuclear pore

Fig. 2h. Transverse section (T.S.) of ovary from *O. longicaudata* at various stages of growth and development., left panel : ovary from female reared at laboratory condition at VBU, Santiniketan, right panel: ovary from gravid female collected from their natural habitat .



A- Post-spawning , B- Early Preparatory, C- same as B, higher magnification, D- Early pre-spawning, E- late pre-spawning, F- spawning .
S I – non yolky primary oocytes, S II – vitellogenic oocytes, S III – fully-grown yolky oocytes, GV – germinal vesicle, CA – cortical alveoli. Scale bar 100 µm.

Fig. 2i. Position and Transverse section (T.S.) of testis from *O. longicaudata* reared at laboratory for 6 months at VBU during spawning season (July)
Scale bar 100 µm.

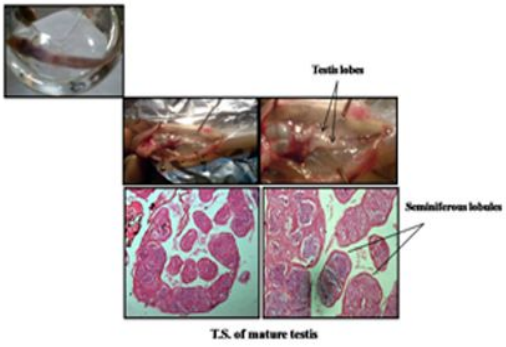
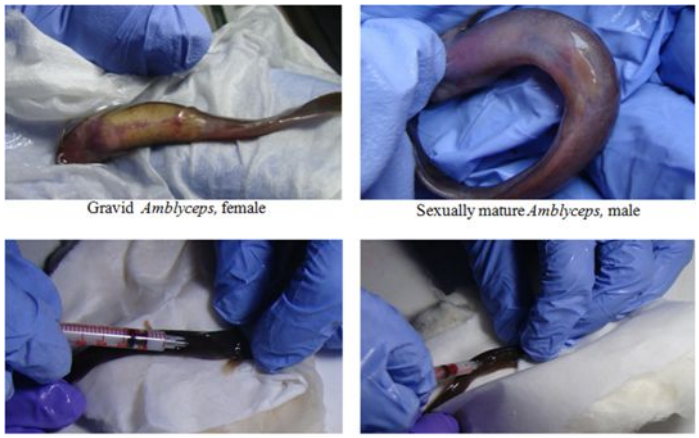


Fig. 2j. Selection of gravid female and sexually male brooders and induced breeding of *Amblyceps apangi* through intramuscular injection of exogenous hormonal stimulation



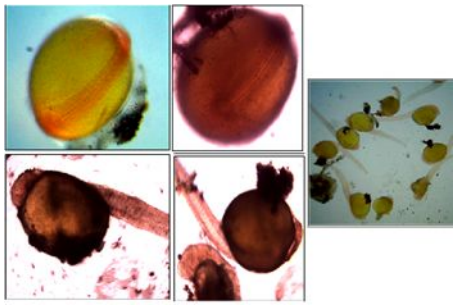
Gravid *Amblyceps*, female

Sexually mature *Amblyceps*, male

Intramuscular exogenous hormonal stimulation of sexually mature female and male *Amblyceps apangi*

Fig. 2k. Induced breeding of *Amblyceps apangi*. Mature male and female following hormone injection (A), abdominal area after 14h of injection and just before stripping of the gravid female (B), expression of ovulated eggs by stripping (C), eggs collected from a single female (D), preparation of testes (E), eggs during fertilization (F), jelly coat formation around fertilized eggs (G), cleavage divisions (H & I), neurulation of developing embryo (J), free-swimming yolk sac stage (K).

Fig. 2l. Various stages of embryonic development of the catfish showing somites (A), neural tube (b), optic placode and auditory vesicles (c), sub-differentiation of neural tube; formation of brain chambers (d) and pelagic yolk-sac stage larvae at swim-up stage



OBJECTIVE 3: Induction of oocyte maturation

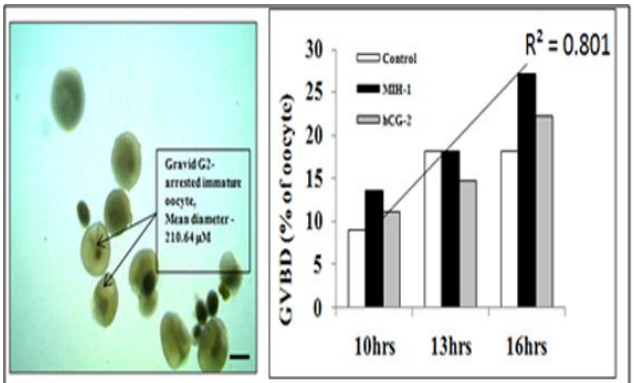


Fig. 3a . *In vitro* induction of final oocyte maturation of oocytes harvested from female *Olyra longicaudata* reared in captivity at Santiniketan during July (spawning season). Representative photomicrograph of immature (G2 arrested) oocytes with intact germinal vesicle (left panel), % GVBD due to stimulation with either hCG or 17α, 20β-DHP over un-treated contol medium only) at various h of incubation (right panel). Data are mean ± S.E.M. of three independent experiments from different donor fish Scale bar: 200 µm).

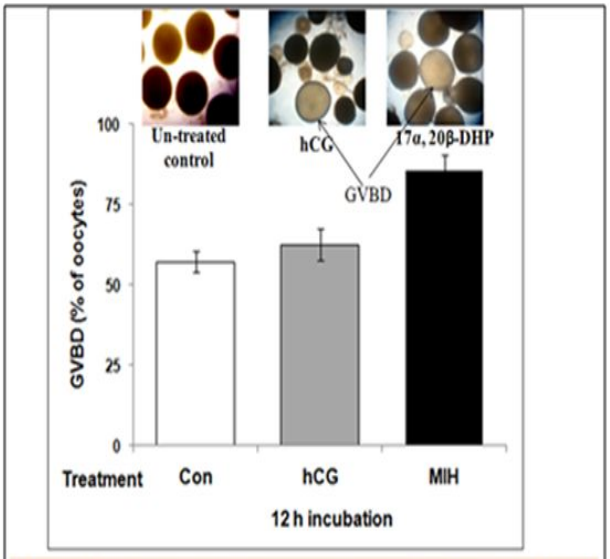


Fig. 3b. Heightened meiotic competence *in vitro* (ascertained by % GVBD) of oocytes collected from gravid female *Olyra longicaudata* captured from their natural habitat during July (spawning season) (lower panel). Representative photomicrograph of immature (untreated contol) and maturing oocytes stimulated with either hCG or 17α, 20β-DHP (upper panel). Data are mean ± S.E.M. of five independent experiments from different donor fish

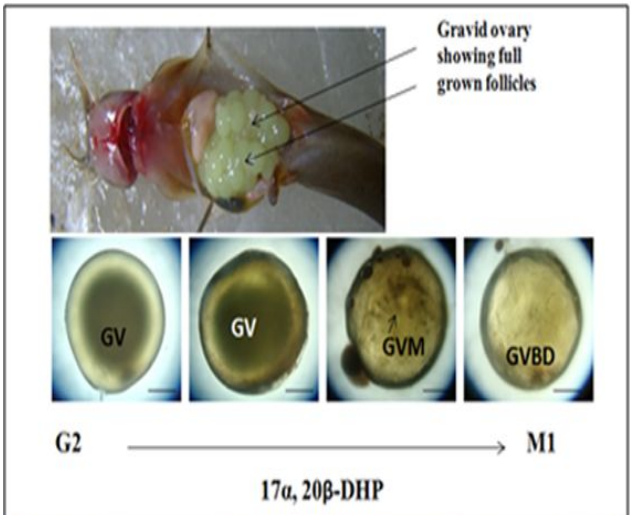


Fig. 3c. Representative photomicrograph showing the autopsy of gravid female *Amblyceps apangi* captured from its natural habitat during spawning season (July) (upper panel). Identification of oocytes at either G2-arrested immature (germinal vesicle intact, GV) or maturing (germinal vesicle migration, GVM) or matured (germinal vesicle breakdown, GVBD) stages due to 17α, 20β-DHP stimulation *in vitro*. Scale bar: 100 µm. Data are mean ± S.E.M. of three independent experiments from different donor fish.

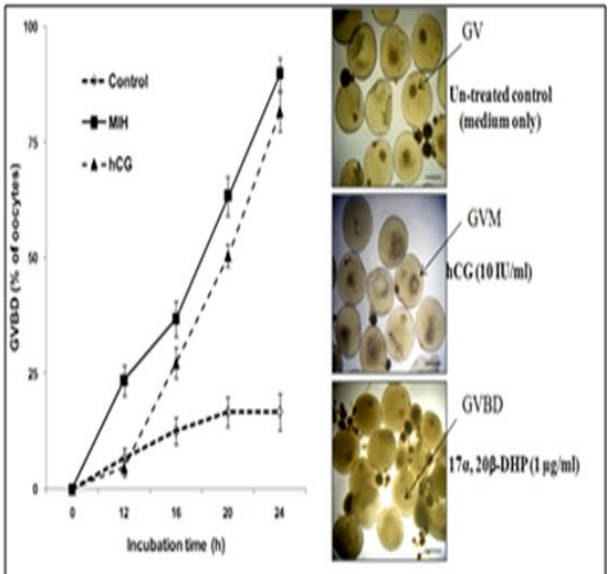


Fig. 3d. Time kinetics of meiosis resumption in full-grown *Amblyceps apangi* due to stimulation with either hCG or 17α, 20β-DHP *in vitro* (left panel). Representative photomicrograph of oocytes either treated without control (un-treated control) or with hCG or 17α, 20β-DHP at 24 h of incubation (right panel). Data are mean ± S.E.M. of five independent experiments from different donor fish. Scale bar: 200 µm.

OBJECTIVE 4: Molecular mechanism involved in the regulation of oocyte maturation

Table 4a. Effect of priming with transcriptional inhibitor, actinomycin D (actD) or translational blocker, cychloheximide (Chx) on hCG and MIH (17α, 20β-DHP)-induced oocyte maturation.

Treatment	GVBD (% of oocytes) at 16 h	
	Olyra longicaudata	*Amblyceps apangi*
Untreated control	10.3 ±1.19	15.4 ±1.48
actD	12.4 ±2.11	14.9 ±1.76
Chx	9.1 ±1.14	13.8 ±1.84
actD+hCG	21.1±3.4[a]	31.2±2.9[a]
Chx+hCG	15.2±1.5[a]	18.1±1.3[a]
hCG	65.8±2.5	78.4±5.3
actD+17α, 20β-DHP	66.7±3.2	69.1±4.1
Chx+17α, 20β-DHP	23.4±1.6[b]	17.9±2.1[b]
17α, 20β-DHP	81.6±5.2	92.4±4.7

Values are mean ±SEM of three independent experiments; data were analyzed by one way ANOVA and Duncan's multiple range test. [a] $P < 0.05$ compared to hCG treated; [b] $P < 0.01$ compared to 17α, 20β-DHP-treated group

Table 4b. Effect of forced elevation of intra-oocyte cAMP by either dbcAMP, IBMX or FK on MIH (17α, 20β-DHP)-induced oocyte maturation.

Treatment	GVBD (% of oocytes) at 16 h	
	Olyra longicaudata	*Amblyceps apangi*
Untreated control	8.9 ±0.69	12.11 ±3.76
dbcAMP+17α, 20β-DHP	2.9 ±2.11[a]	4.75 ±0.41[a]
IBMX+17α, 20β-DHP	9.1 ±1.14[a]	7.6 ±2.32[a]
FK+17α, 20β-DHP	12.8±1.89[a]	8.21±1.4[a]
17α, 20β-DHP	84.7±8.34	85.74±3.92[a]

Values are mean ±SEM of three independent experiments; data were analyzed by one way ANOVA and Duncan's multiple range test. [a] $P < 0.05$ compared to 17α, 20β-DHP-treated group.

Table 4c. Priming with either adenylyl cyclase inhibitor (SQ 22,536) or PKA inhibition by either H89 or PKI-(6-22)-amide or anti-PKA antibody promotes final oocyte maturation even in absence of MIH (17α, 20β-DHP)-induced oocyte maturation.

Treatment	GVBD (% of oocytes) at 16 h	
	Olyra longicaudata	*Amblyceps apangi*
Untreated control	10.2 ±2.59	11.46 ±4.29
SQ 22,536	62.9 ±2.41[a]	64.75 ±1.7[a]
H89	69.1 ±2.34[a]	67.6 ±2.64[a]
PKI-(6-22)-amide	72.8±4.52[a]	78.21±6.37[a]
anti-PKA antibody	74.7±4.15[a]	75.74±5.42[a]

Values are mean ±SEM of three independent experiments; data were analyzed by one way ANOVA and Duncan's multiple range test. [a] $P < 0.05$ compared to untreated-treated group.

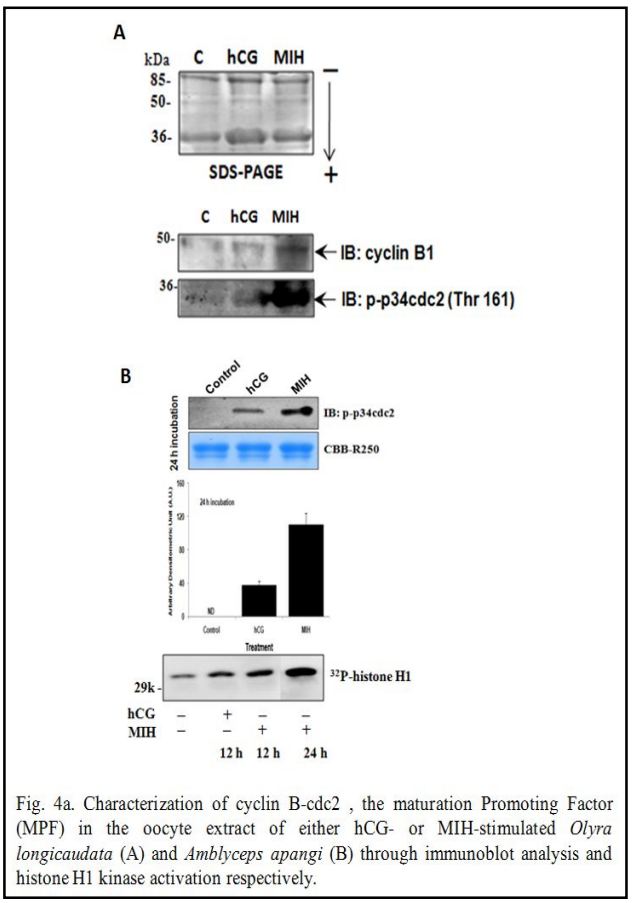


Fig. 4a. Characterization of cyclin B-cdc2 , the maturation Promoting Factor (MPF) in the oocyte extract of either hCG- or MIH-stimulated *Olyra longicaudata* (A) and *Amblyceps apangi* (B) through immunoblot analysis and histone H1 kinase activation respectively.

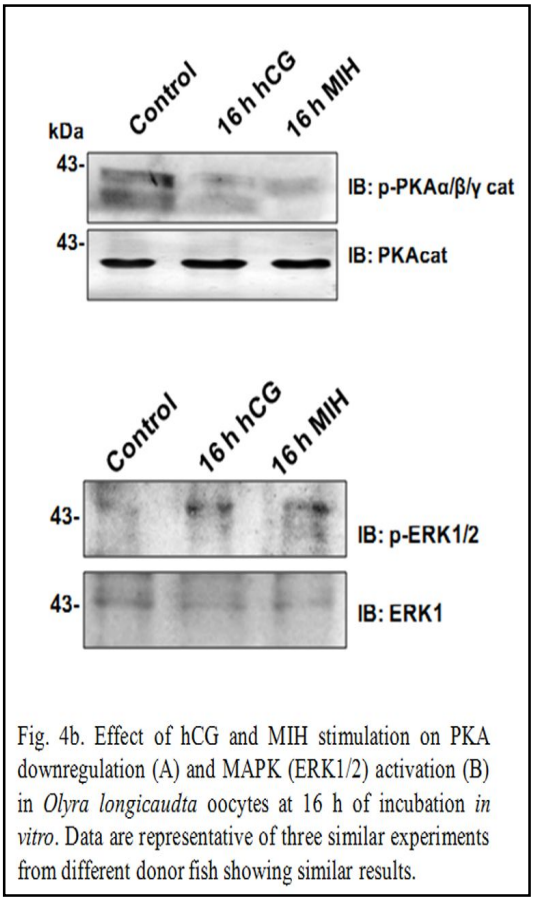


Fig. 4b. Effect of hCG and MIH stimulation on PKA downregulation (A) and MAPK (ERK1/2) activation (B) in *Olyra longicaudta* oocytes at 16 h of incubation *in vitro*. Data are representative of three similar experiments from different donor fish showing similar results.

Section-C: Details of Grant Utilization#

C1. Equipment Acquired or Placed Order with Actual Cost:

i) At Rajiv Gandhi University, Itanagar

Sl No.	Particulars of the Equipment	Amount in INR	**Remark**
1.	Dynamica double beam UV-VIS Spectrophotometer(mod;DB-20) with UVdetective S/W	Rs.3,60,000/-	**Acquired & Entered in Asset register**
2.	Dynamica Benchtop refrigerated Centrifuge(mod: Velocity 14R) with fixed angle rotor& fixed angle PCR rotor	Rs.2,72,600/-	**Acquired & Entered in Asset register**
3.	Precissa electronic Semi- microbalance	Rs.2,18,500/-	**Acquired & Entered in Asset register**
4.	Apelex Vertigel-2 Electrophorectic System(Mod:miniwide vertigel)	Rs.1,70,000/-	**Acquired & Entered in Asset register**
5.	Branded computer UPS & Printer	Rs.30,000/-	**Acquired & Entered in Asset register**
	Total INR Price	Rs.10,51,100/-	
	CST@14.5% as per Govt., rule	Rs. 1,52,409/-	
	Total cost (inclusive of clearance & door delivery charges)	Rs.12,03,509/- (**Rs.12.04 lakh**)	

(PROJECT INVESTIGATOR) **(FINANCE OFFICER)**

(HEAD OF THE INSTITUTE)

ii) At Visva-Bharati University, Santiniketan: (Copy of details of assets acquired enclosed separately)

Sl No.	Particulars of the Equipment	Amount	Remarks
1.	Inverted fluorescence microscope fitted with photographic attachment	**Rs. 7,28,000.00**	Entered in Asseets Register of Visva-Bharati
2.	Micromanipulation system	Euro 12809.00 (Rs. 833,402.00) +Rs. 18109.00 (clearing charges) **Total= Rs. 8,51,511.00**	Submitted to University for final adjustment and for entry into register of fixed assets
3	Co2 incubator with accessories	**Rs. 2,70,000.00**	-do-
4.	-80^0C deep freeze	USD ($) 6200 (Rs. 3,12,684.00) +Rs.30151.00 (clearing charges) **Total= Rs. 3,42,835.00**	-do-

(PROJECT INVESTIGATOR) **(FINANCE OFFICER)**

(HEAD OF THE INSTITUTE)

C2.Manpower Staffing and Expenditure Details:

i) At Rajiv Gandhi University, Itanagar:

Name of the person	Name of the post	Date of Joining	Date of Leaving	Total Monthly Salary	Total salary paid during the Financial Year of 2014	Total salary paid during the project period
Mr.Akash Kachari	JRF	01.09.11	NA	Rs.14,000/- +HRA@ 10%= Rs15,400/-	Rs. 1,84,800/-	NA
Mr.Tok Loma	Field Assistant	30.08.11	NA	Rs.5,000/- (consolidated)	Rs.60,000/-	NA

(PROJECT INVESTIGATORS) **(FINANCE OFFICERS)**

(HEAD OF THE INSTITUTES)

ii) At Visva-Bharati university, Santiniketan

Name of the person	Name of the post	Date of Joining	Date of Leaving	Total Monthly Salary	Total salary paid during the 3rd Financial Year 2014	Total salary paid during the project period
Ms Pritha Ghosh	JRF	1.10.2011	NA	Rs.14,000/- +HRA@ 10%= Rs15,400/-	Rs. 1,84,800/-	NA
					Rs.1,84,800/-	

(PROJECT INVESTIGATOR) **(FINANCE OFFICER)**

(HEAD OF THE INSTITUTE)

C3. Details of Recurring Expenditure:

i) At Rajiv Gandhi University, Itanagar

Statement of Expenditure referred to in para 9 of the Utilisation Certificate

Showing grants received from the Department of Biotechnology and the expenditure incurred during the period from **1st April 2013** to **31st March 2014**.

(Rs. in lakhs)

Item	Unspent balance carried forward from previous year	Grants received from DBT during the year 2013-14	Other receipts/ interests earned, if any on the DBT grants	Total of col. (2+3+4)	Expenditure (Excluding commitments) incurred during the year.	Balance (5-6)	Remarks
Non-recurring							
Equipments	(-) Rs 2,19391/-	NIL	NIL	-) Rs 2,19391/-	NIL	(-)Rs.2,19,391/-	-
Recurring							
Human resource	(-) Rs.73,200/-	Rs.2,71,000/-	NIL	Rs.1,97,800/-	Rs.2,11,200/-	(+)Rs.13,400/-	-
Consumables	(+) Rs.34,000/-	Rs.3,00,000/-	NIL	Rs3,34,000/-	Rs.3,09,985/-	(-)Rs. 24,105/-	-
Travel	(-) Rs.4,345/-	Rs.75,000/-	NIL	Rs.70,655/-	Rs.87,504/-	(-)Rs. 16,849/-	-
Contingency	(-) Rs.805/-	Rs.50,000/-	NIL	Rs.49,195/-	Rs.62,546/-	(-)Rs. 13,351/-	-
Overhead (if applicable)	(-) Rs.50,000/-	Rs.50,000/-	NIL	Rs.50,000/-	Rs.50,000/-	NIL	-
Total	(-) Rs 3,13,741/-	Rs.7,46,000/-	NIL	Rs.4,82,259/-	Rs.7,21,236/-	(-)Rs.2,25,486/-	-

(PROJECT INVESTIGATOR) **(FINANCE OFFICER)**

(HEAD OF THE INSTITUTE)

ii) At Visva –Bharati University , Santiniketan

Statement of Expenditure referred to in para 9 of the Utilisation Certificate

Showing grants received from the Department of Biotechnology and the expenditure incurred during the period from **1st April 2013** to **31st March 2014**.

Item	Unspent balance carried forward from previous year	Grants received from DBT during the year 2013-14	Other receipts/ interests earned, if any on the DBT grants	Total of col. (2+3+4)	Expenditure (Excluding commitments) incurred during the year.	Balance (5-6)	Remarks
Non-recurring							
Equipments							
Recurring							
Human resource							
Consumables							
Travel							
Contingency							
Overhead (if applicable)							
Total							

(PROJECT INVESTIGATOR) **(FINANCE OFFICER)**

(HEAD OF THE INSTITUTE)

C4. Financial Requirements for the Next Year with Justifications:

i) At Rajiv Gandhi University, Itanagar

Heads	2nd year's balance	3rd years release (committed approved amount of DBT)	Final Requirement	Remark
Non recurring	(-)Rs.2,19,391/-	Nil(NIL)	Rs.2,19,391/-	-
Recurring				
Manpower	(+)Rs.13,400/-	(+)Rs.13,400/- (Rs 2,98,000/-)	Rs.(-) 13,400/-	-
Consumables	(-)Rs. 24,105/-	NIL(Rs.300000/-)	Rs.24,105/-	-
Travel	(-)Rs. 16,849/-	NIL(Rs.75,000/-)	Rs.16,849/-	-
contingency	(-)Rs. 13,351/-	NIL(Rs.50,000/-)	Rs.13,351/-	-
Overhead	NIL	NIL(Rs.50,000/-)	Rs.50,000/-	-
Total	(-)Rs.2,25,486/-	NIL(Rs 7,73,000/)	**Rs.2,75,486/-**	Just to adjust expenses of 3rd year

(PROJECT INVESTIGATORS) **(FINANCE OFFICERS)**

(HEAD OF THE INSTITUTES)

ii) At Visva-Bharati University, Santiniketan

Heads	2nd year's balance	3rd years release (committed approved amount of DBT)	Final Requirement	Remark
Non recurring		Nil()		
Recurring				
Manpower		NIL()		
Consumables		NIL()		
Travel		NIL()		
contingency		NIL()		
Overhead		NIL()		

(PROJECT INVESTIGATOR) **(FINANCE OFFICER)**

(HEAD OF THE INSTITUTE)

#Grant utilization details (UC&SE, Assets Certificate & manpower details) also required to be submitted separately as per the prescribed format

Re: C2-119: Final Technical Report (2011-15) Attempt to conserve endangered catfishes of Arunachal hill streams by manipulating germ cell maturation

Debangshu Das <dndas321@rediffmail.com> Sun, Mar 15, 2015 at 4:44 PM
To: Sharmistha Chakraborty <promanaab.nerbpmc@dbt.nic.in>, Sudipta Maitra <smaitra3@gmail.com>, Sudipta Maitra <sudipta.maitra@visva-bharati.ac.in>, bhattacharyasa <bhattacharyasa@gmail.com>

Dear Dr. Chakraborty

Please, find the Final Technical Report (FTR) of the RGU-VBU-DBT twining program(C2-119) entitled "**Attempt to conserve…….germ cell maturation**"attached herewith as per prescribed format for your kind and necessary action. The Section C of the report could not be completed along with this technical part (i.e. Section A & B) due to non-receipt of the 3rd year allocation of fund still to the concerned grantee Universities (i.e. RGU, Itanagar & VBU, Santiniketan) sanctioned for the project. More over, both the Universities, already have sent the UC against 2nd year's receipt of the fund(released very lately from DBT) earlier in 2014. You are therefore, requested kindly to look into the matter so that the said Universities may receive the 3rd year's pending or required amount as early as possible from your end, please. Hope to hear from you soon.

Kindly acknowledge the receipt of the FTR (2011-15)

With regards

Yours sincerely

Prof. D.N.Das, Ph.D

Principal Investigator (NER)

RGU-VBU-DBT Twining Program

Dean, Faculty of Sciences, Engineering &IT

Rajiv Gandhi University, Itanagar

Fisheries& Aquatic Ecology Laboratory
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Phone:+91-0360-2277197
Fax:+91-0360-2277317

From: Sharmistha Chakraborty <promanaab.nerbpmc@dbt.nic.in>
Sent: Mon, 09 Mar 2015 10:28:47
To: dndasau321@yahoo.co.in, dndas321@rediffmail.com, sudip.maitra@visva-bharati.ac.in
Subject: C2-119: Attempt to conserve endangered catfishes of Arunachal hill streams by manipulating germ cell maturation

Dear Investigators,

With reference to the project entitled **"Attempt to conserve endangered catfishes of Arunachal hill streams by manipulating germ cell maturation"**

A review meeting by the experts for the progress of the project work is scheduled in the month of March 2015. In this regard, kindly send us the following documents

1. **Consolidated annual progress report (from the starting of the project to till date)**
2. **List of publications & copies**
3. **Indicate the impact factor**

4. **Patent filed & Technology transfer.**

Kindly send by **16th of March 2015** to email address promanaab.nerbpmc@dbt.nic.in.

This may please be treated urgently.

Thanking in anticipation,

Regards,

Dr. Sharmistha Chakraborty

Dr. Sharmistha Chakraborty

Programme Manager - AAB & Healthcare

NER-BPMC, DBT

A-258, 1st Floor,

S.B. House, Defence Colony,

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Identification and partial characterization of *Olyra longicaudata* (McClelland, 1842) vitellogenins: Seasonal variation in plasma, relative to estradiol-17β and ovarian growth

Pritha Ghosh [a], Debabrata Das [a], Subir K. Juin [a], Sudip Hajra [a], Akash Kachari [b], Debangshu N. Das [b], Panchanan Nath [a], Sudipta Maitra [a,*]

[a] *Department of Zoology, Visva-Bharati University, Santiniketan, India*
[b] *Department of Zoology, Rajiv Gandhi University, Itanagar, India*

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Estradiol-17β
ELISA
Ovary
Catfish
Olyra longicaudata

ABSTRACT

This study aims at immunochemical characterization of plasma vitellogenin (VTG), development of an heterlogous VTG ELISA and to relate seasonal variation in plasma VTG and estradiol-17β (E2) levels with ovarian growth (gonadosomatic index, GSI) in *Olyra longicaudata* (McClelland, 1842), a rare hill-stream catfish endemic to North East India. On native PAGE, plasma from E2-injected male, vitellogenic as well as gravid females, but not untreated male, resolved into two major protein bands. These two proteins stained positive for carbohydrate, lipid and phosphorous, albeit with differential intensity and cross-reacted well with catfish VTG antiserum (a-VTG) suggesting them as putative VTGs in circulation. Ammonium sulphate (50%) fractionation followed by SDS-PAGE analysis of E2-treated male plasma resolved into four protein bands (150–15 kDa), of which two, with molecular mass of 150 and 130 kDa cross-reacted with a-VTG indicating them as VTG monomers. Immunoprecipitation of E2-induced plasma and immunoblot analysis of crude yolk proteins with a-VTG revealed two proteins in each case indicating two forms of VTG, present in circulation, possibly act as yolk precursors. Competitive antigen-capture ELISA developed earlier for catfish, *Clarias batrachus* VTG (CF-VTG1), revealed parallel binding slopes between dilution curves of plasma from vitellogenic female, E2-treated male and CF-VTG1 standard. Congruent with gradual increase in plasma E2, ovarian weight and appearance of vitellogenic and yolky oocytes, VTG level in circulation increased sharply in May–June, reaching the peak value in July, dropped sharply during August–September and was undetected or negligible in amount during December allowing identification of the ripening, the pre-spawning, the spawning and the quiescent phases respectively.

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1. Introduction

Olyra longicaudata, McClelland, 1842 (Teleosti: Bagridae: Olyrinae), also known as Asian fighting catfish or banner tail catfish, is endemic to torrential hill streams of Brahmaputra basin in the North East India, Northern Myanmar and Thailand (Talwar and Jhingran, 1991). Distinguished by small size (110 mm standard length), anguilliform body and greatly enlarged upper lobe of the forked caudal fin, this bagrid catfish (Actinipterygii: Siluriformes) prefers fast water current and a place for hiding in the substratum of rocks and sand. While their restricted occurrences in nature indicate fluctuating reproductive fitness even in the wild, this fish usually spawns during the monsoon months (August–September) when the rainfall is heaviest. However, mature specimens of *O. longicaudata*, particularly the females, rarely attain sexual maturity in captivity. Though popular as an aquarium species, currently no information is available on vitellogenesis or any other reproductive parameters of this hill stream catfish.

In fishes, as in other oviparous vertebrates, the yolk precursor protein, vitellogenin (VTG), is synthesized in the liver under the influence of gonadotropin-induced ovarian estrogen, primarily estrdiol-17β (E2) and is transported via blood to the ovary. Following its uptake through receptor-mediated endocytosis, VTG undergoes limited proteolytic cleavage to form lipovitellin (Lv), phosvitin (Pv), β′-component and C-terminal peptide which ultimately get deposited in the form of yolk granules or platelets in the growing oocytes (Babin et al., 2007; Hiramatsu et al., 2002a;

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In silico prediction of interaction between saponins and TGR5 related to diabetes mellitus.

- **Source:** Indian Journal of Endocrinology & Metabolism . 2016 Ebsco Abstracts, Vol. 21, p9-9. 1p.

- **Author(s):** Ejelonu, Oluwamodupe Cecilia; Elekofehinti, Olusola Olalekan; Adanlawo, Isaac Gbadura; Kundu, Rakesh

- **Abstract:** Title objective: TGR5 activation by cholic acid, a class of bile acids induce intestinal glucagon-like peptide-1 (GLP-1) release potentiating insulin release. This leads to improved liver and pancreatic function and enhance glucose homeostasis. Aim: To investigate TGR5 agonist property of saponins, which are structural analogue of cholic acid using in silico approach. Materials and Methods: A molecular docking of five saponins (structural analogue of cholic acid, a bile acid) with TGR5 was performed using Autodock vina and compared with cholic acid. Validation of docking experiment was also done by comparing docking scores with experimental data. Results: All the saponins investigated except Curculigol (-6.7 kcal/mol) have higher binding affinity for TGR5 when compared with cholic acid (-7.2 kcal/mol). Charantin ranked highest with -8.9 kcal/mol, gypensapogenin (-8.6 kcal/mol), Diosgenin (-7.8 kcal/mol), arjunolic acid (-7.5 kcal/ mol). Arg 80, Ser 95, Ser 270, Pro 92 and Thr 70 are amino acid residues at the active site are important for saponin binding affinity. A significant correlation (r^2= 0.7) between different data derived from docking calculations and experimental data was revealed. Conclusion: Saponins are a class of phytochemicals that may be potent lead compounds for the treatment of diabetes mellitus but further experimental and clinical confirmation are necessary.

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Project title: Elucidating the mechanism and assessing amelioration potential of *Ocimum* and *Lucas* in stress-induced impaired homeostasis on growth and reproduction in Zebrafish

Project Code	**:**	6018
Duration of project	**:**	March 2017 - Feb 2020
Total budget (₹ in lakhs)	**:**	182.51050
PI Name	**:**	Dr. Sudipta Maitra
CCPI Name	**:**	Dr. Satya Sundar Bhattacharya
Lead Centre	**:**	Visva Bharati Univ., Santiniketan
Cooperating centres	**:**	Tezpur University, Sonitpur

Objectives:

- To study influence of oxidative stress, environmental factors like oxygen, temperature, density, pH, polluting organic ambience and excess lipid diet on repressed growth of larva and fry, and reproduction in adult zebrafish.
- To study the molecular mechanism underlying the oxidative stress induced impaired metabolic homoeostasis and involvement of Fetuin A.
- To study the amelioration potential of compounds derived from *Ocimum sanctum, O. basilicum* and *Lucas aspera* on stress-induced impaired homeostasis.

Expected output:

- Alteration of metabolic homoeostasis under oxidative stress induced by physicochemical and dietary stressors.
- Oxidative stress induced mitochondrial dysfunction causing impaired metabolic homeostasis, altered growth and reproduction in larval and adult zebrafish
- Fet A as marker of oxidative stress.
- Use of Fet A expressions and their regulation to assess the metabolic impairment leading to altered somatic and gonadal growth and function in zebrafish.
- Amelioration of metabolic and reproductive stress in fish by the compounds from *O. sanctum*, *O. basilicum* and *L. aspera*.

ICAR-NASF

SCIENTIFIC REPORTS

OPEN

Visualisation of DCP, a nerve agent mimic, in Catfish brain by a simple chemosensor

Received: 25 October 2017
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Himadri Sekhar Sarkar[1], Ayndrila Ghosh[1], Sujoy Das[1], Pulak Kumar Maiti[2], Sudipta Maitra[3], Sukhendu Mandal[2] & Prithidipa Sahoo[1]

A chemosensor, 3-aminophenol-based rhodamine conjugate (ARC) has been developed for visualisation of diethylchlorophosphate (DCP), mimic of a chemical warfare agent, in Catfish brain. The simple detection of DCP by "turn-on" fluorescence property of the chemosensor makes it unique for easy and rapid *in vivo* and *in vitro* detection of DCP with the detection limit of 5.6 nM.

1995, The terrorist attack on Tokyo subway introduces the whole world with a new threat to mankind- Chemical Warfare Agents (CWAs)[1–3]. The simple organophosphates, present in pesticides eventually become more popular chemical weapon due to its very simple method of manufacturing, availability, and low cost along with its dispensability. Despite of its common use as a pesticide, various analogues of such organophosphates are found to be very potent nerve agent, which irreversibly damage functions of nerve cells. Among all the highly toxic, volatile nerve agents, Sarin (GB), Soman (GD) and Tabun (GA) are of most common. If the nerve agents are being inhaled or absorbed through skin, their reactive phosphate group irreversibly react with the hydroxyl group of cellular acetylcholinesterase, which is responsible for breaking down the acetylcholine neurotransmitter, leads to its inactivation. The fatal consequences are neurological imbalance at cholinergic synapses, failure of several organs, paralysis of central nervous system and rapid death[4,5]. On 4th April 2017, Khan Shaykhun, a city of Syria faced the destructive activities of suspected chemical warfare with nerve agent Sarin[6]. For public safety concern and national security, a reliable, facile and reactive detection method of such nerve agents is of great global interest towards the development of practical 'in field' devices.

Till today, several detection methods, such as- colorimetry[7–10], fluorometry[11–17], interferometry[18], electrochemistry[19–22], surface acoustic wave (SAW) devices[23,24], photoacoustic spectroscopy[25], moleculer imprinting coupled with lanthanide luminescence and fibre optics[26–28], enzymatic assay[29,30], and gas chromatography-mass spectrometry[31] have been explored to detect substantial number of CWAs. But the problem arises when these existing methods show one or more drawbacks such as low response and sensitivity, limited selectivity, non-specificity and non-portability, difficulties in real time detection, false positive readings and operational complexity. The chemosensors mediated detection is an extremely convenient and simple method based on optical outputs such as color change or change in fluorescence intensity after the exposure to the target analytes[32–35]. Chemosensors make such detection method attractive and widely acceptable by fulfilling the key features of a practical sensing system i.e. high selectivity, sensitivity, specificity, portability, ability of real time sensing along with cost effectiveness[36,37]. Implementation of a reliable chemosensor is a highly challenging but it brings a considerable importance for their wide application in medical, environmental and biological field. Generally, diethylchlorophosphate (**DCP**) is used as mimic of the nerve agent Sarin. **DCP** is much less toxic than Sarin but its mode of action is similar.

With this stand point in this particular research field, we have described a chemosensor **ARC**, 3-aminophenol based rhodamine conjugate. This chemosensor is simple and efficient in showing fluorescence signal in presence of **DCP** in aqueous medium both in *in vivo* and *in vitro* systems. There are reports that described recognition of deadly and relevant molecules like **DCP** and other organophosphates. A comparative assessment of our chemosensor has been provided with that of the published one (Table S1). In our present work with the help of a very simply designed chemosensor we established the detection of **DCP** in a direct, fast and selective way in living system. Over usage of organophosphate pesticides or use of similar compounds through chemical warfare can essentially disseminate such compound in ecosystem. Hence detection of such compound from contaminated

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NATIONAL AGRICULTURAL SCIENCE FUND
(Indian Council of Agricultural Research)
Room No. 707, KAB -I, Pusa, New Delhi – 110012

F. No. NASF/ABA-7011/2018-19 **Dated: 31 .07.2018**

To,

The Vice Chancellor,
North-Eastern Hill University,
Shillong- 793022, Meghalaya

Subject: Sanction letter for the Research project entitled, "**To elucidate the unique biochemical adaptational strategies that allow two air-breathing catfishes (*Clarias batrachus and Heteropneustes fossilis*) to survive in ammonia enriched toxic waste"** under the National Agricultural Science Fund (NASF)

Sir,

The Empowered Committee (EC) of the NASF, considered the proposal on "**To elucidate the unique biochemical adaptational strategies that allow two air-breathing catfishes (*Clarias batrachus and Heteropneustes fossilis*) to survive in ammonia enriched toxic waste"** in its thirty third meeting held on 6th June, 2018 and approved the proposal for implementation under the NASF. The total cost of this project is **₹ 213.78470** Lakh (Rupees two crore thirteen lakh seventy eight thousand four hundred and seventy only) for a period of three years (August 2018 to July 2021). The financial sanction of the competent authority for the project is now being accorded for the period from 1st August 2018 to 31st March 2020. The sanction for the period from 1st April 2020 till the end of the project i.e. 31st July 2021 will be conveyed later. **The release of fund will be through PFMS/FMS-MIS and the funded centre need to comply accordingly.**

1. **Name of the Lead Centre and address**
   North-Eastern Hill University, Shillong- 793022, Meghalaya

   Name & Designation of the Principal Investigator
   Prof. Nirmalendu Saha, FNASc, Department of Zoology, North-Eastern Hill University, Shillong

2. **Names of Cooperating Centre and addresses**

i. Visva-Bharati, Santiniketan-731 235, West Bengal
ii. ICAR- Central Institute of Freshwater Aquaculture, Bhubaneswar-751002, Orissa
iii. ICAR- National Bureau of Fish Genetic Resources, Lucknow 226002, U.P.

Name & Designation of the Cooperating Centre Principal Investigators

i. Prof. Samir Bhattacharya, FNA, FASc, FNASc , Department of Zoology, Visva-Bharati, Santiniketan,West Bengal
ii. Dr. Hirak Kumar Barman, Principal Scientist, ICAR-CIFA, Bhubaneswar
iii. Dr. Vindhya Mohindra, Principal Scientist, ICAR-NBFGR, Lucknow

The details of the project are given in the project document in **Annexure I**. The head-wise and year-wise budget (both consolidated and for each partner) are given in the **Annexures II to VII**.

The Sanction will be subject to the following conditions:

1. The Principal Investigator (PI) and the Lead Centre will have the overall responsibility of carrying out the work shown in the project as given in **Annexure I**. Each Cooperating Centre Principal Investigator (CCPI) and the Cooperating Centre will have the responsibility for work assigned to the Centre under the project by the competent authority of NASF and the centre will fully cooperate with the Lead Centre and the NASF authorities.

2. All the Centres and the scientists will follow the rules and regulations of the ICAR set for the operation of the projects sanctioned under NASF.

3. Financial and Procurement

i. Funds will be released by the Secretariat of the NASF directly to the institutions of the PI (Lead Centre) and to the institutions of the CCPIs (Cooperating Centre).

ii. The Lead Centre and each of the Cooperating Centre will submit to the ADG (NASF) head-wise Utilization Certificate (UC) in the prescribed format duly verified by the concerned Finance Officer(s) twice every financial year: the first will be the UC for the immediate preceding financial year ending 31st March and will be submitted by the 15th of April and the second a six-monthly UC for the period from 1st April to 30th September of the year by the 15th of October. Each Cooperating Centre will submit a copy each of the aforesaid UCs to the PI.

iii. For facilitating smooth and speedy implementation of the activities envisaged under the sanctioned project, the PI and the CCPI from each Cooperating Centre will exercise powers for executing the project to the extent of sanctioned funds of his/her respective component of the project as given in **Annexure VIII**.

iv. The Heads of the Lead Centre and the Cooperating Centre(s) will ensure that the project runs in an efficient manner, provide laboratory space, salary, logistic facilities and services required for the same and monitor its progress on a regular basis.

v. **The expenditure will be made only on the approved items.** The amount sanctioned under each head/subhead is the maximum budgetary limit for that item but the actual expenditure will not exceed the amount actually released by the ADG under the head for the period concerned. In case of public organizations the expenditure under any head shall be made by the Lead or Cooperating centre in accordance with their own institutional prescribed rules/ norms. However, in cases of conducting workshops, meetings, and cost of Advisory Committee meetings norms and rules enclosed as **Annexure IX** should be followed. **Any re-appropriation from one head to another is not permissible.** All institutions including those belonging to the ICAR will maintain a separate ledger for the project. In case of private and non-governmental organizations the expenditure will be made in accordance with ICAR/NASF rules. In case any guidance is required in this matter, the Lead or Co-operating centre should take the guidance of the Finance and Accounts Officer of the nearest ICAR institutes with information to the ADG, NASF.

vi. There will be **no revalidation of unspent funds released for recurring expenditure** from one financial year to the next financial year. For funds released for non-recurring expenditure such revalidation will be allowed in exceptional cases. Funds revalidated once will not be revalidated for the second time.

vii. Accrual accounting system has to be followed for the funds of the project without any exception. The reporting of annual accounts will also be in accordance with the accrual accounting system.

viii. At the end of each financial year, a Utilization Certificate will be submitted by the designated Finance Officer/F&AO/Comptroller of the Lead and each Cooperating Centre by 15th April indicating the head wise expenditure incurred in the previous year and resultant unspent balances/savings. Only on the receipt of UC, any funds will be released for the next financial year after adjusting for the savings from the previous financial year. Each of the Lead and the Cooperating Centre will submit an Audited Utilization Certificate (AUC) for the previous financial year by the 30th September of each year in the prescribed proformas. The Central Government/State Government Institutes will get the certificate from the CAG/State AG. The Universities (General and Agricultural) and the non-ICAR institutes will have the option to get the certificate from their statutory auditors or from a Chartered Accountant empanelled by ICAR (Please see the website http://www.icar.org.in/nasf/index.html for the list of empaneled chartered accountants and their remunerations). The private and NGO institutions will get the certificate from a Chartered Account empanelled as given in the above website. The cost of hiring the Chartered Accountants will be met out of the institutional charges. In case it is not sufficient operational cost budget may be used with the permission of ADG, NASF.

ix. Only after the receipt of the AUC and the half yearly UC any funds for the second half of a financial year will be released.

x. The salaries of the RAs and SRFs will be according to ICAR norms prevalent during the period of appointment (copy of the current norms in vogue is enclosed as **Annexure X**). Adequate transparent and competitive procedure should be adopted for the selection of the contractual staff.

xi. The ICAR will have no liability, whatsoever, for the SRFs and RAs or any other staff employed under the Project on contractual basis during and after expiry of the project term.

xii. Institutional charges will be available to the Institution concerned for meeting expenditure on overheads, institutional services, monitoring, reporting, and audit which are required by the Lead or Cooperating Centres to support the project. Expenditure under this item should be properly accounted for.

xiii. Funds for every year will be released after the submission of UC and on the basis of demands for funds, scientific/technical reports, submission of data and recommendations of the PI and the ADG regarding the satisfactory achievement of research targets set for the period. The UC should be submitted head wise duly verified by competent finance officer of the institution concerned indicating head wise closing/unspent balances.

xiv. Submission of research publication, data management and cost of publication need to be as per ICAR guidelines.

4. **Monitoring:**

(i) This sanction letter, and the research project (as given in **Annexure I**) approved by the EC will be treated as a Work Programme Agreement between the ICAR and the Lead and the Cooperating Centres.

(ii) ADG, NASF will form an Advisory Committee consisting of two external members (one as Chairman and the other as a member) who are very eminent scientists in the field of the project. The ADG or his representative, the Head of the Lead Centre or his nominee, the CCPI(s), Head of Finance and the Head of Administration of the Lead Centre will be the members. The PI of the project will be the Member Secretary. The recommendations of the Advisory Committee may be reviewed by the NASF. The NASF decision will be final on all recommendations/suggestions of the Advisory Committee. The Advisory Committees would be constituted by the ADG/Director, ACs may recommend additional fund of ₹ 1.5 lakhs to NASF within the approved budget for consideration during midterm evaluation/monitoring.

ACs will be evaluating, monitoring and review the project once in a year. Besides, it may visit laboratory/field/sites in consultation with NASF office.

Chairman(s) of ACs may participate during the annual review meetings of the projects, based on requirements.

The names of the External Members of the Advisory Committee and the powers delegated to the Committee are given in **Annexure XI**.

As the Member Secretary, the PI will conduct one meeting of the Advisory Committee in one year to formulate the plan of work, review and monitor, the progress of work and, suggestions for the improvement in the project.

(iii) The PI will submit to the ADG an Annual Report for the previous year (ending 31st March) by 15 April of every year in a prescribed Proforma(s).

(iv) The PI and the CCPIs may be called to present their progress before the EC or in a Workshop organized by the NASF whenever required.

(v) A final report of the project will be submitted to the ADG within 30 days of the closure of the project with all technical and financial details. This deadline will be strictly followed.

(vi) The ADG or his representative will visit the project institutions as and when required.

5. Intellectual Property Rights:

(i) The rights on any intellectual property shall be vested in the ICAR, who shall be the absolute and full owner.

(ii) The sharing of income from Intellectual Property Rights (IPR) from the project would be in accordance with the proportion/percentage given below:

(a) Share of ICAR: 60%
(b) Share of Project Participating Institutions: 40%. Out of this 40%, the share of major/inventing partner(s) will be 50% and the rest 50% shall be shared equally among other partner(s) if any.

(iii) The intellectual properties may be licensed against a fee (premium) which may be in a lump sum or with royalty for a fixed/defined period of time.

(iv) The intellectual properties to be licensed on exclusive basis or non-exclusive basis will be decided by the ICAR depending upon the welfare/gains considerations or public consideration or public welfare embedded in the intellectual properties.

(v) Whereas a minimum price for the intellectual properties is to be evaluated, it may not be rigidly adhered to; and the offers made by different parties shall be given due consideration in consultation with the Empowered Committee on the basis of recommendations of ICAR. The spirit behind this should be to commercialize the intellectual properties in the best interest of the investment.

(vi) If one or more of the partners (i.e., the Lead or Cooperating Centre) of the Project is (are) interested to commercialize the intellectual properties, it may be given preference over other parties at mutually agreed terms and conditions between the interested partner and the ICAR.

(vii) The ICAR will hold the right to use the intellectual property for non-commercial purposes in public interest.

(viii) The services of the inventor(s) rendered subsequent to the transfer of intellectual property may entail earning of charges/fees etc., distribution of which will be as per the clause stated in para 4(ii) above.

(ix) It will not be incumbent upon the ICAR to protect every Intellectual Property (IP) generated from the Project. On refusal by the ICAR to own the IP, the inventor(s) shall be free to protect it at their own cost provided ICAR has no objection to it in public interest.

6. The PI and the CCPI will not be removed/ transferred from the project without the prior consent of the Empowered Committee of the NASF.

7 The decision of the Empowered Committee of the NASF will be final in all matters of the project.

Receipt of this letter may please be acknowledged. The PI is requested to make copies of the sanction letter along with all the Annexures and distribute the same to the CCPI(s) and the heads of the Lead and Cooperating Centres.

Yours faithfully,

31.7.18

(P.K. Agrawal)
ADG (NASF)

Copy for information and necessary action to:

(i) PI/CCPIs of the project.
(ii) Heads of Cooperating Centres
(iii) F&AO, NASF Secretariat
(iv) Office copy

Annexure - I

Gist of the project proposal approved

Title of the project: To elucidate the unique biochemical adaptational strategies that allow two air-breathing catfishes (*Clarias batrachus and Heteropneustes fossilis*) to survive in ammonia enriched toxic waste

Objectives and activities of the project:

Objective 1: To examine the intrinsic mechanism that catfish develop not only to maintain their life but also to grow reasonably fast under high ambient ammonia

Activity

- Analysis of induction of different amino acid metabolism-related genes under ammonia stress.
- Analysis of induction of non-essential amino acids synthesis utilizing environmental N-source.
- Analysis of induction of protein anabolic pathway utilizing environmental N-source.
- Assessment of growth rates and expression of growth genes under ammonia stress.
- Augmenting newly generated sequence data to already available data and analysis in C. batrachus (magur)

Objective 2: To check the possible expression of a set of adaptive genes and their exclusive finely-tuned mechanistic pathways, which allow them to perfectly adapt high ammonia in their ambiance.

Activity

- Analysis of miRNA as a function of adaptive regulatory mechanisms from liver and brain tissues.
- Investigations on target genes by miRNA and their mechanistic pathways.
- Validation of key miRNA involved in those targeted genes using qRT- PCR
- Profiling of transcripts of adaptive genes and proteins under ammonia stress.
- In vivo functional validation of key regulatory genes with cross-species examinations.

Objective 3: To decipher and characterize the signalling molecules related to adaptation and growth in high nitrogenous waste contents by these catfish.

Activity

- We will try to use SIRT1 and SIRT5 to maintain metabolic requirement for excess protein synthesis because our primary focus is to utilize the excess nitrogenous waste for the synthesis of amino acids and proteins as excess nitrogen is known to stimulate protein synthesis.
- The problem usually is to separate nitrogen from ammonia via the regulatory pathway of SIRT5. The catfishes are expected to perform this shift.
- Expression of metabolic proteins associated in the regulation of excess nitrogen in cell lines.
- SIRT1 and AMPK would be used to generate excess energy currency through mitochondrial biogenesis and bioenergetics.

Give the major expected outputs of the project.

- Revelation of underlying mechanism through which commercially important Indian catfish adapt high ammonia ambiance.
- In finding the clue for positive nitrogen anabolic status that catfish possess, an opportunity for increasing muscle protein yield could be availed.
- Interplay of growth factors and their receptors expected to be different in catfish considering its habitat selection.
- In revealing various regulatory mechanisms, an improvement in catfish yield would be a reasonable expectation.

(The project proposal approved is available with NASF and the funded centre)

Annexure - II

Year-wise and head-wise breakup in budget

(₹ in lakh)

S.No.	Lead Centre: North-Eastern Hill University, Shillong	2018-19 (August, 2018 to March, 2019)	2019-20 (April, 2019 to March, 2020)	2020-21 (April, 2020 to March, 2021)	2021-22 (April, 2021 to July, 2021)	Total
I.	NON RECURRING COST					
1	Civil Works					
	a. Renovation of labs/experimental facilities including laboratory furniture like analysis bench, fume hood etc.)	0.00000	0.00000	0.00000	0.00000	0.00000
	b. New structures for experimental facilities and for special housing for new equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
2.	Goods & Equipment					
	a. Equipment, Plant & Machinery, Technology to be purchased	25.00000	0.00000	0.00000	0.00000	25.00000
	b. Animals:	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Furniture & Fixtures	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Computer hardware & software (costing more than Rs. 5000) related specifically to the project	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	f. Miscellaneous	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b+c+d+e+f)	**25.00000**	**0.00000**	**0.00000**	**0.00000**	**25.00000**
3.	Capacity Building					
	a. Attending Workshops/Seminars/ Exposure Visits					
	i. Abroad	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. India	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	b. Organizing Training/workshop-cum-Training	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	Sub Total (1+2+3)	**25.00000**	**0.00000**	**0.00000**	**0.00000**	**25.00000**

II. RECURRENING COSTS						
	1. TA/DA	0.30000	0.50000	0.50000	0.20000	1.50000
	2. Review Workshop/Meetings	1.00000	1.00000	1.00000	0.00000	3.00000
	3. Contractual Staff	2.40000	3.60000	3.88800	1.34400	11.23200
	4. Operational Contingencies					
	i. Laboratory purpose					
	a. Chemicals, glassware, raw material, pots etc.	13.00000	13.00000	13.00000	0.00000	39.00000
	b. Unskilled/semi skilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Outsourcing of lab work	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Small maintenance & repairs of lab equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Computer stationery	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. Field purpose					
	a) Small field equipment (spade, khurpi etc.) pots, seed, etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	b) Semiskilled/unskilled labour	1.28000	1.92000	1.92000	0.64000	5.76000
	c) Feed and Medicine	0.00000	0.00000	0.00000	0.00000	0.00000
	d) Small repairs of farm machinery	0.00000	0.00000	0.00000	0.00000	0.00000
	iii. Vehicle hiring for surveys, arranging & attending meetings etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	iv. Miscellaneous urgent purchases	0.00000	0.00000	0.00000	0.00000	0.00000
	v. Small animals: Fish.	0.50000	0.50000	0.50000	0.00000	1.50000
	vi. Phone/ fax cost	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii+iii+iv+v+vi)	**14.78000**	**15.42000**	**15.42000**	**0.64000**	**46.26000**
	Sub-Total (1+2+3+4)	**18.48000**	**20.52000**	**20.80800**	**2.18400**	**61.99200**
	III. Institutional Charges	1.84800	2.05200	2.08080	0.21840	6.19920
	TOTAL COST (I+II+III)	**45.32800**	**22.57200**	**22.88880**	**2.40240**	**93.19120**

S.No.	Cooperating Centre: 1 Visva-Bharati, Santiniketan, West Bengal	2018-19 (August, 2018 to March, 2019)	2019-20 (April, 2019 to March, 2020)	2020-21 (April, 2020 to March, 2021)	2021-22 (April, 2021 to July, 2021)	Total
I.	NON RECURRING COST					
1	Civil Works					
	a. Renovation of labs/experimental facilities including laboratory furniture like analysis bench, fume hood etc.)	0.00000	0.00000	0.00000	0.00000	0.00000
	b. New structures for experimental facilities and for special housing for new equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
2.	Goods & Equipment					
	a. Equipment, Plant & Machinery, Technology to be purchased	13.00000	0.00000	0.00000	0.00000	13.00000
	b. Animals: fish	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Furniture & Fixtures	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Computer hardware & software (costing more than Rs. 5000) related specifically to the project	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	f. Miscellaneous	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b+c+d+e+f)	**13.00000**	**0.00000**	**0.00000**	**0.00000**	**13.00000**
3.	Capacity Building					
	a. Attending Workshops/Seminars/ Exposure Visits					
	i. Abroad	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. India	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	b. Organizing Training/workshop-cum-Training	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	Sub Total (1+2+3)	**13.00000**	**0.00000**	**0.00000**	**0.00000**	**13.00000**

	II. RECURRENING COSTS					
	1. TA/DA	0.30000	0.50000	0.50000	0.20000	1.50000
	2. Review Workshop/Meetings	0.00000	0.00000	0.00000	0.00000	0.00000
	3. Contractual Staff	2.20000	3.30000	3.56400	1.23200	10.29600
	4. Operational Contingencies					
	i. Laboratory purpose					
	a. Chemicals, glassware, raw material, pots etc.	5.00000	5.00000	5.00000	0.00000	15.00000
	b. Unskilled/semi skilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Outsourcing of lab work	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Small maintenance & repairs of lab equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Computer stationery	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. Field purpose					
	a. Small field equipment (spade, khurpi etc.) pots, seed, etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	b. Semiskilled/unskilled labour	1.28000	1.92000	1.92000	0.64000	5.76000
	c. Running cost of farm machinery diesel oil etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Small repairs of farm machinery	0.00000	0.00000	0.00000	0.00000	0.00000
	iii. Vehicle hiring for surveys, arranging & attending meetings etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	iv. Miscellaneous urgent purchases	0.00000	0.00000	0.00000	0.00000	0.00000
	v. Small animals: rabbit, fish etc.	0.40000	0.40000	0.40000	0.00000	1.20000
	vi. Phone/ fax cost	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii+iii+iv+v+vi)	**6.68000**	**7.32000**	**7.32000**	**0.64000**	**21.96000**
	Sub-Total (1+2+3+4)	**9.18000**	**11.12000**	**11.38400**	**2.07200**	**33.75600**
	III. Institutional Charges	0.45900	0.55600	0.56920	0.10360	1.68780
	TOTAL COST (I+II+III)	**22.63900**	**11.67600**	**11.95320**	**2.17560**	**48.44380**

S.No.	Cooperating Centre:2 ICAR -CIFA, Bhubaneswar	2018-19 (August, 2018 to March, 2019)	2019-20 (April, 2019 to March, 2020)	2020-21 (April, 2020 to March, 2021)	2021-22 (April, 2021 to July, 2021)	Total
IV.	NON RECURRING COST					
1	Civil Works					
	c. Renovation of labs/experimental facilities including laboratory furniture like analysis bench, fume hood etc.)	0.00000	0.00000	0.00000	0.00000	0.00000
	d. New structures for experimental facilities and for special housing for new equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
2.	Goods & Equipment					
	g. Equipment, Plant & Machinery, Technology to be purchased	0.00000	0.00000	0.00000	0.00000	0.00000
	h. Animals: fish	0.00000	0.00000	0.00000	0.00000	0.00000
	i. Furniture & Fixtures	0.00000	0.00000	0.00000	0.00000	0.00000
	j. Computer hardware & software (costing more than Rs. 5000) related specifically to the project	0.00000	0.00000	0.00000	0.00000	0.00000
	k. Monographs, Manuals, databases (non-bibliographical) etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	l. Miscellaneous	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b+c+d+e+f)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
3.	Capacity Building					
	c. Attending Workshops/Seminars/ Exposure Visits					
	iii. Abroad	0.00000	0.00000	0.00000	0.00000	0.00000
	iv. India	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	d. Organizing Training/workshop-cum-Training	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	Sub Total (1+2+3)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	V. RECURRENING COSTS					

	5. TA/DA	0.30000	0.50000	0.50000	0.20000	1.50000
	6. Review Workshop/Meetings	0.00000	0.00000	0.00000	0.00000	0.00000
	7. Contractual Staff	2.40000	3.60000	3.88800	1.34400	11.23200
	8. Operational Contingencies					
	vii. Laboratory purpose					
	f. Chemicals, glassware, raw material, pots etc.	13.00000	8.00000	4.00000	0.00000	25.00000
	g. Unskilled/semi skilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	h. Outsourcing of lab work	0.00000	0.00000	0.00000	0.00000	0.00000
	i. Small maintenance & repairs of lab equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	j. Computer stationery	0.00000	0.00000	0.00000	0.00000	0.00000
	viii. Field purpose					
	e. Small field equipment (spade, khurpi etc.) pots, seed, etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	f. Semiskilled/unskilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	g. Running cost of farm machinery diesel oil etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	h. Small repairs of farm machinery	0.00000	0.00000	0.00000	0.00000	0.00000
	ix. Vehicle hiring for surveys, arranging & attending meetings etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	x. Miscellaneous urgent purchases	0.00000	0.00000	0.00000	0.00000	0.00000
	xi. Small animals: rabbit, fish etc.	0.25000	0.25000	0.25000	0.00000	0.75000
	xii. Phone/ fax cost	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii+iii+iv+v+vi)	**13.25000**	**8.25000**	**4.25000**	**0.00000**	**25.75000**
	Sub-Total (1+2+3+4)	**15.95000**	**12.35000**	**8.63800**	**1.54400**	**38.48200**
	VI. Institutional Charges	0.79750	0.61750	0.43190	0.07720	1.92410
	TOTAL COST (I+II+III)	**16.74750**	**12.96750**	**9.06990**	**1.62120**	**40.40610**

S.No.	Cooperating Centre 3: ICAR -NBFGR, Lucknow	2018-19 (August, 2018 to March, 2019)	2019-20 (April, 2019 to March, 2020)	2020-21 (April, 2020 to March, 2021)	2021-22 (April, 2021 to July, 2021)	Total
VII.	NON RECURRING COST					
1	Civil Works					
	e. Renovation of labs/experimental facilities including laboratory furniture like analysis bench, fume hood etc.)	0.00000	0.00000	0.00000	0.00000	0.00000
	f. New structures for experimental facilities and for special housing for new equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
2.	Goods & Equipment					
	m. Equipment, Plant & Machinery, Technology to be purchased	0.00000	0.00000	0.00000	0.00000	0.00000
	n. Animals: fish	0.00000	0.00000	0.00000	0.00000	0.00000
	o. Furniture & Fixtures	0.00000	0.00000	0.00000	0.00000	0.00000
	p. Computer hardware & software (costing more than Rs. 5000) related specifically to the project	0.00000	0.00000	0.00000	0.00000	0.00000
	q. Monographs, Manuals, databases (non-bibliographical) etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	r. Miscellaneous	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b+c+d+e+f)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
3.	Capacity Building					
	e. Attending Workshops/Seminars/ Exposure Visits					
	v. Abroad	0.00000	0.00000	0.00000	0.00000	0.00000
	vi. India	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	f. Organizing Training/workshop-cum-Training	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	Sub Total (1+2+3)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**

	VIII. RECURRENING COSTS					
	9. TA/DA	0.30000	0.50000	0.50000	0.20000	1.50000
	10. Review Workshop/Meetings	0.00000	0.00000	0.00000	0.00000	0.00000
	11. Contractual Staff	2.40000	3.60000	3.88800	1.34400	11.23200
	12. Operational Contingencies					
	xiii. Laboratory purpose					
	k. Chemicals, glassware, raw material, pots etc.	7.00000	7.00000	3.00000	0.00000	17.00000
	l. Unskilled/semi skilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	m. Outsourcing of lab work	0.00000	0.00000	0.00000	0.00000	0.00000
	n. Small maintenance & repairs of lab equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	o. Computer stationery	0.00000	0.00000	0.00000	0.00000	0.00000
	xiv. Field purpose					
	i. Small field equipment (spade, khurpi etc.) pots, seed, etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	j. Semiskilled/unskilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	k. Running cost of farm machinery diesel oil etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	l. Small repairs of farm machinery	0.00000	0.00000	0.00000	0.00000	0.00000
	xv. Vehicle hiring for surveys, arranging & attending meetings etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	xvi. Miscellaneous urgent purchases	0.00000	0.00000	0.00000	0.00000	0.00000
	xvii. Small animals: rabbit, fish etc.	0.20000	0.20000	0.10000	0.00000	0.50000
	xviii. Phone/ fax cost	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii+iii+iv+v+vi)	**7.20000**	**7.20000**	**3.10000**	**0.00000**	**17.50000**
	Sub-Total (1+2+3+4)	**9.90000**	**11.30000**	**7.48800**	**1.54400**	**30.23200**
	IX. Institutional Charges	0.49500	0.56500	0.37440	0.07720	1.51160
	TOTAL COST (I+II+III)	**10.39500**	**11.86500**	**7.86240**	**1.62120**	**31.74360**

Annexure – III
(₹ in lakh)

S.No.	Consolidated Project Budget Year Wise	2018-19 (August, 2018 to March, 2019)	2019-20 (April, 2019 to March, 2020)	2020-21 (April, 2020 to March, 2021)	2021-22 (April, 2021 to July, 2021)	Total
I.	**NON RECURRING COST**					
1	**Civil Works**					
	a. Renovation of labs/experimental facilities including laboratory furniture like analysis bench, fume hood etc.)	0.00000	0.00000	0.00000	0.00000	0.00000
	b. New structures for experimental facilities and for special housing for new equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
2.	**Goods & Equipment**					
	a. Equipment, Plant & Machinery, Technology to be purchased	38.00000	0.00000	0.00000	0.00000	38.00000
	b. Animals: Buffalo, horse, goat, sheep etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Furniture & Fixtures	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Computer hardware & software (costing more than Rs. 5000) related specifically to the project	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	f. Miscellaneous	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b+c+d+e+f)	**38.00000**	**0.00000**	**0.00000**	**0.00000**	**38.00000**
3.	**Capacity Building**					
	a. Attending Workshops/Seminars/ Exposure Visits					
	i. Abroad	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. India	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	b. Organizing Training/workshop-cum-Training	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	Sub Total (1+2+3)	**38.00000**	**0.00000**	**0.00000**	**0.00000**	**38.00000**

II.	**RECURRENING COSTS**					
	1. TA/DA	1.20000	2.00000	2.00000	0.80000	6.00000
	2. Review Workshop/Meetings	1.00000	1.00000	1.00000	0.00000	3.00000
	3. Contractual Staff	9.40000	14.10000	15.22800	5.26400	43.99200
	4. Operational Contingencies					
	i. Laboratory purpose					
	a. Chemicals, glassware, raw material, pots etc.	38.00000	33.00000	25.00000	0.00000	96.00000
	b. Unskilled/semi skilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Outsourcing of lab work	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Small maintenance & repairs of lab equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Computer stationery	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. Field purpose					
	a. Small field equipment (spade, khurpi etc.) pots, seed, etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	b. Semiskilled/unskilled labour	2.56000	3.84000	3.84000	1.28000	11.52000
	c. Feed and medicine	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Small repairs of farm machinery	0.00000	0.00000	0.00000	0.00000	0.00000
	iii. Vehicle hiring for surveys, arranging & attending meetings etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	iv. Miscellaneous urgent purchases	0.00000	0.00000	0.00000	0.00000	0.00000
	v. Small animals: rabbit, fish etc.	1.35000	1.35000	1.25000	0.00000	3.95000
	vi. Phone/ fax cost	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii+iii+iv+v+vi)	**41.91000**	**38.19000**	**30.09000**	**1.28000**	**111.47000**
	Sub-Total (1+2+3+4)	**53.51000**	**55.29000**	**48.31800**	**7.34400**	**164.46200**
	III. INSTITUTIONAL CHARGES	3.59950	3.79050	3.45630	0.47640	11.32270
	TOTAL COST (I+II+III)	**95.10950**	**59.08050**	**51.77430**	**7.82040**	**213.78470**

Annexure - IV

Lead/Cooperating Centre wise/head-wise beak-up of the total fund (Recurring and non-recurring heads)

(₹ in lakh)

S.No.	Consolidated Project Budget Centre Wise	North-Eastern Hill University, Shillong	Visva-Bharati, Santiniketan, West Bengal	ICAR CIFA, Bhubaneswar	ICAR NBFGR, Lucknow	Total
I.	**NON RECURRING COST**					
1	**Civil Works**					
	a. Renovation of labs/experimental facilities including laboratory furniture like analysis bench, fume hood etc.)	0.00000	0.00000	0.00000	0.00000	0.00000
	b. New structures for experimental facilities and for special housing for new equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
2.	**Goods & Equipment**					
	a. Equipment, Plant & Machinery, Technology to be purchased	25.00000	13.00000	0.00000	0.00000	38.00000
	b. Animals: Buffalo, horse, goat, sheep etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	c. Furniture & Fixtures	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Computer hardware & software (costing more than Rs. 5000) related specifically to the project	0.00000	0.00000	0.00000	0.00000	0.00000
	e. Monographs, Manuals, databases (non-bibliographical) etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	f. Miscellaneous	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b+c+d+e+f)	**25.00000**	**13.00000**	**0.00000**	**0.00000**	**38.00000**
3.	**Capacity Building**					
	a. Attending Workshops/Seminars/ Exposure Visits					
	i. Abroad	0.00000	0.00000	0.00000	0.00000	0.00000
	ii.India	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**

	b. Organizing Training/workshop-cum-Training	0.00000	0.00000	0.00000	0.00000	0.00000
	Total (a+b)	**0.00000**	**0.00000**	**0.00000**	**0.00000**	**0.00000**
	Sub Total (1+2+3)	**25.00000**	**13.00000**	**0.00000**	**0.00000**	**38.00000**
II.	**RECURRENING COSTS**					
	1. TA/DA	1.50000	1.50000	1.50000	1.50000	6.00000
	2. Review Workshop/Meetings	3.00000	0.00000	0.00000	0.00000	3.00000
	3. Contractual Staff	11.23200	10.29600	11.23200	11.23200	43.99200
	4. Operational Contingencies					
	i. Laboratory purpose					
	i. Chemicals, glassware, raw material, pots etc.	39.00000	15.00000	25.00000	17.00000	96.00000
	ii. Unskilled/semi skilled labour	0.00000	0.00000	0.00000	0.00000	0.00000
	iii. Outsourcing of lab work	0.00000	0.00000	0.00000	0.00000	0.00000
	iv. Small maintenance & repairs of lab equipment	0.00000	0.00000	0.00000	0.00000	0.00000
	v. Computer stationery	0.00000	0.00000	0.00000	0.00000	0.00000
	ii. Field purpose					
	a. Small field equipment (spade, khurpi etc.) pots, seed, etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	b. Semiskilled/unskilled labour	5.76000	5.76000	0.00000	0.00000	11.52000
	c. Running cost of farm machinery diesel oil etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	d. Small repairs of farm machinery	0.00000	0.00000	0.00000	0.00000	0.00000
	iii. Vehicle hiring for surveys, arranging & attending meetings etc.	0.00000	0.00000	0.00000	0.00000	0.00000
	iv. Miscellaneous urgent purchases	0.00000	0.00000	0.00000	0.00000	0.00000
	v. Small animals: rabbit, fish etc.	1.50000	1.20000	0.75000	0.50000	3.95000
	vi. Phone/ fax cost	0.00000	0.00000	0.00000	0.00000	0.00000
	Sub-Total (i+ii+iii+iv+v+vi)	**46.26000**	**21.96000**	**25.75000**	**17.50000**	**111.47000**
	Sub-Total (1+2+3+4)	**61.99200**	**33.75600**	**38.48200**	**30.23200**	**164.46200**
	III. INSTITUTIONAL CHARGES	6.19920	1.68780	1.92410	1.51160	11.32270
	TOTAL COST (I+II+III)	**93.19120**	**48.44380**	**40.40610**	**31.74360**	**213.78470**

Annexure – V

Number of RA/SRF required for the lead and each participating institution

Sl No.	Centres	RAs/SRFs	Nos.	Budget (₹ in lakhs)
1.	North-Eastern Hill University, Shillong	SRF	1	11.23200
2.	Visva-Bharati, Santiniketan, West Bengal	SRF	1	10.29600
3.	ICAR CIFA, Bhubaneswar	SRF	1	11.23200
4.	ICAR NBFGR, Lucknow	SRF	1	11.23200
			Total	**43.9920**

Annexure -VI

List of Equipments (both Imported and Indian)

If in the following list any brand name has been it is solely because it was given like that in the project proposal despite the note given in the project proposal proforma for not to give brand names. It will be the responsibility of the PI/CCPI to ensure that it is replaced by the proper generic name. If any procurement is made on the basis of the brand name without going through a due tendering process the expenditure will be considered invalid.

Lead Centre : North-Eastern Hill University, Shillong

Sl. No.	Name of the Equipment	Cost (₹ in lakhs)
1.	HPLC	25.0
	Total	**25.0**

B. Cooperating Centre 1: Visva-Bharati, Santiniketan, West Bengal

Sl. No.	Name of the Equipment	Cost (₹ in lakhs)
1.	Centrifuge	6.0
2.	ELISA plate reader	7.0
	Total	**13.0**

C. Cooperating Centre 2: ICAR CIFA, Bhubaneswar- **Nil**

D. Cooperating Centre 3: ICAR- NBFGR, Lucknow- **Nil**

Centre- wise List of Works

S.No.	Centre	Amount (₹ in lakhs)
1.	North-Eastern Hill University, Shillong	Nil
2.	Visva-Bharati, Santiniketan, West Bengal	Nil
3.	ICAR CIFA, Bhubaneswar	Nil
4.	ICAR- NBFGR, Lucknow	Nil

Annexure - VIII

Delegation of Powers to Principal Investigators (PI) and Cooperating Centre Principal Investigators (CCPI) of the projects operating under the National Agricultural Scientific Fund (NASF)

In this Document wherever "Prescribed Procedure" is written it means, "Subject to the rules and procedures of the institution concerned in case of public institutions if those rules and procedures with respect to the concerned issue are not expressly overridden by NASF directives. For non-public institutions the GOI/ICAR/NASF rules and procedures have to be followed. The non-public organizations may seek the help and advise of the Finance and Procurement officers of the nearest ICAR institute. In the Procurement Committees Constituted for processing goods/services under the NASF project such non-public institutions, the finance officer from the nearest ICAR institute may be kept as a member. If necessary the secretariat of NASF may also provide guidance in this matter.

Sl. No.	Nature of Power	Extent of Power to PIs/ CCPIs	Remarks
1.	Sanctioning tour programme and counter signature of TA bills	Full power including for self. However, the CPIs/CCPIs will submit tour reports to his/ her higher official	With sufficient prior information to the Controlling Officer , submit tour report to his/her higher official
2.	Sanctioning tour advances for self, and other staff	Subject to the rules of the institution concerned in case of public organizations if not over-ridden by NASF directives. For non-public institutions the GOI/ICAR/ NASF rules will be followed	The adjustment of account bills to be submitted within 30 days in each case
3.	Power to restrict the frequency and duration of Journeys (SR 63)	Full powers including for self	-
4.	Sanctioning reimbursement of cancellation charges on unused railway tickets/ air tickets	Full powers for all staff working under him/her excluding self	The cancellation should with information to the controlling officer and should be justified and in public interest
5.	Expenditure on holding workshops, meetings/ conferences / deputation on short duration need based trainings in India	Full, subject to provision of fund under the head in the approved/ sanctioned project	Number of participants in the meeting workshops should not exceed 20. The norms for expenditure in workshops/meetings/conferences will be in accordance with the following ICAR norms. Lunch per head: 150 maximum Tea (per session). ₹ 5/- Stationary (per participant) ₹ 40/- POL (per participant) ₹ 40/- Miscellanies Expenditure ₹ 1,500/-
6.	Sanction of registration charges at Symposia/ seminars at national level	Full only if the topic is related to the sanction project and it is organized by a private institution.	
7.	Recurring contingent charges for management and operating laboratories and farms including purchase of working stores,	₹.1 lakh in each case subject to provision of fund under the head in the sanctioned project	According to prescribed procedure.

	chemicals, glasswares, tools, plants and equipment, insecticides, including consumables for research work		
8.	Capital expenditure on equipments and works	Full to the limit of sanctioned quantity/ budget for each approved item	According to prescribed procedure.
9.	Conveyance hire	Full powers	According to prescribed procedure.
10.	Purchase of annuals publications and reprints of scientific papers	Upto ₹ 10,000 per annum	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure
11.	Printing and binding	Upto ₹ 20,000 per annum	-do-
12.	a) Local purchase of stationary stores b) Local purchase of rubber stamps and office seals	Up to₹ 25,000 per annum subject to observance to prescribed procedures Full	-do- -do-
13.	To incur recurring expenditure on maintenance and repair of scientific instruments, laboratory equipments, agricultural implements and machinery being used for the project	Upto ₹ 1 lakh per annum	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure. Beyond Rs.1 lakh, Advisory Committee can approve upto ₹ 1.5 lakh.
14.	Repair of office machines	Full	-do-
15.	Maintenance of computer and peripherals	Up to ₹ 25,000 per annum including cost of stores, and other materials required for maintenance	-do-
16.	Payment of charges on postage (excluding private courier), telegrams, telex, fax, telephone bills internet use, cell phone etc.	The reimbursement of calls to PIs/C CPIs will be made as per rules	Subject to the availability of funds and the adherence to rules and procedures
17.	Freight Charges	Full power subject to this being part of the supply order relating to project work	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure
18.	Sanctioning casual leave	Full, excluding for himself/ her self	-
19.	Contractual staff & help (casual labour/ data collectors etc.) approved in the project.	Job should be out sourced through job contractors	Subject to sanctioned budget provision for the purpose and availability of funds and adherence to prescribed procedure
20.	Engagement of RA/ SRF on Contract Basis, approved in the project	Full	Subject to provision of the position in the approved project and availability of funds and following a transparent competitive process. The cost of advertisement should be minimal and effective use of institution should be made for this purpose

For sanctioning leave other than casual leave, the PI/CPI can recommend only in respect of supporting personnel (non-gazetted) working under his/ her administrative control. However, sanction

of leave will be made by the Head of Division/Department to whom powers of sanction are vested. The leave for scientific staff will be granted as per the institutional norms.

These powers will apply to PIs and CPIs of Projects under NASF. The powers will be exercised subject to remarks given against each item and also subject to fulfillment of the following requirements.

(i) Expenditure is incurred only for bonafide NASF purpose as per the approved project
(ii) The necessary funds sanctioned to meet the expenditure for a particular item is available in the sanction project budget
(iii) No additional manpower will be provided to project implementing centres for running project.
(iv) Expenditure proposals involving amounts in excess of the powers of the PI/CCPI etc. may be submitted to the competent authority concerned for sanction in the respective institutions.
(v) All contractual staff are co-terminus with the project or as per the terms and conditions of the job contract and there is absolutely no liability to ICAR or hiring institution whatsoever.

The above delegation of powers is subject to the condition that the exercise of powers will not contradict any GOI/ICAR/NASF norms & rules

Annexure - IX

Norms of Expenditure for Conducting Workshops, meetings and Advisory Committee Meetings

Honorarium

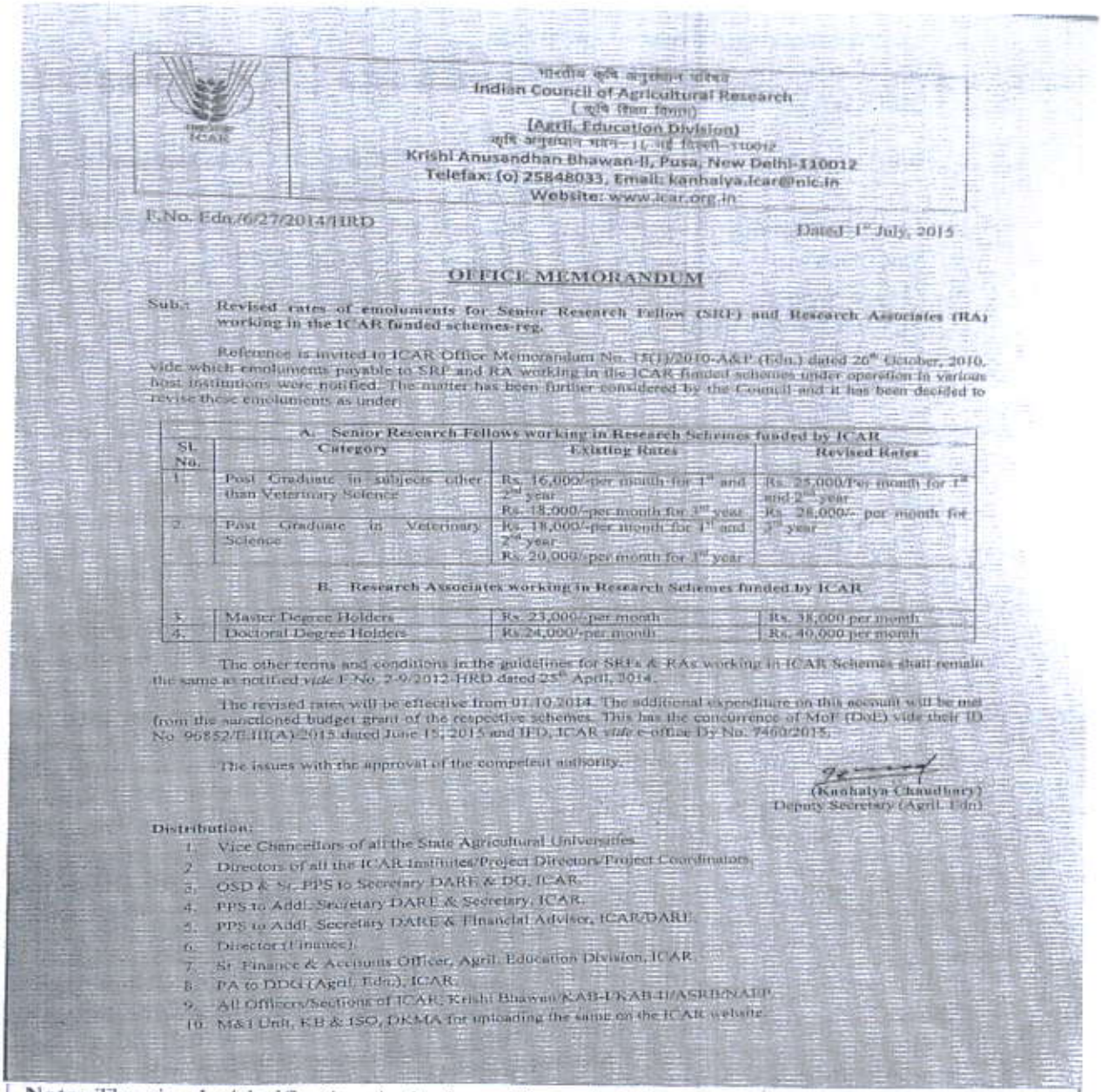
1. Chairman Advisory Committee	:	₹ 1,500/-
2. External member Advisory Committee	:	₹ 1,500/-

Expenditure for Workshops/Meetings

1. Working Lunch	:	Maximum ₹ 150/- per head including refreshment
2. Tea (per session)	:	₹ 5/- restricted to 20 persons
3. Stationary	:	₹ 40/- per head
4. POL Charges	:	₹ 40/- per head
5. Miscellaneous Charges	:	₹ 1,500/-

Annexure - X

RA/SRF Emoluments & Rules



भारतीय कृषि अनुसंधान परिषद
Indian Council of Agricultural Research
(कृषि शिक्षा प्रभाग)
(Agril. Education Division)
कृषि अनुसंधान भवन-II, पूसा, नई दिल्ली-110012
Krishi Anusandhan Bhawan-II, Pusa, New Delhi-110012
Telefax: (o) 25848033, Email: kanhaiya.icar@nic.in
Website: www.icar.org.in

F.No. Edn./6/27/2014/HRD

Dated 1st July, 2015

OFFICE MEMORANDUM

Sub.: **Revised rates of emoluments for Senior Research Fellow (SRF) and Research Associates (RA) working in the ICAR funded schemes-reg.**

Reference is invited to ICAR Office Memorandum No. 15(1)/2010-A&P (Edn.) dated 20th October, 2010, vide which emoluments payable to SRF and RA working in the ICAR funded schemes under operation in various host institutions were notified. The matter has been further considered by the Council and it has been decided to revise these emoluments as under:

Sl. No.	Category	Existing Rates	Revised Rates
	A. Senior Research Fellows working in Research Schemes funded by ICAR		
1.	Post Graduate in subjects other than Veterinary Science	Rs. 16,000/-per month for 1st and 2nd year Rs. 18,000/-per month for 3rd year	Rs. 25,000/Per month for 1st and 2nd year Rs. 28,000/- per month for 3rd year
2.	Post Graduate in Veterinary Science	Rs. 18,000/-per month for 1st and 2nd year Rs. 20,000/-per month for 3rd year	
	B. Research Associates working in Research Schemes funded by ICAR		
3.	Master Degree Holders	Rs. 23,000/-per month	Rs. 38,000 per month
4.	Doctoral Degree Holders	Rs.24,000/-per month	Rs. 40,000 per month

The other terms and conditions in the guidelines for SRFs & RAs working in ICAR Schemes shall remain the same as notified *vide* F.No. 2-9/2012-HRD dated 25th April, 2014.

The revised rates will be effective from 01.10.2014. The additional expenditure on this account will be met from the sanctioned budget grant of the respective schemes. This has the concurrence of MoF (DoE) vide their ID No. 96852/E.III(A)/2015 dated June 15, 2015 and IFD, ICAR *vide* e-office Dy No. 7460/2015.

The issues with the approval of the competent authority.

(Kanhaiya Chaudhary)
Deputy Secretary (Agril. Edn)

Distribution:

1. Vice Chancellors of all the State Agricultural Universities
2. Directors of all the ICAR Institutes/Project Directors/Project Coordinators
3. OSD & Sr. PPS to Secretary DARE & DG, ICAR
4. PPS to Addl. Secretary DARE & Secretary, ICAR
5. PPS to Addl. Secretary DARE & Financial Advisor, ICAR/DARE
6. Director (Finance)
7. Sr. Finance & Accounts Officer, Agril. Education Division, ICAR
8. PA to DDG (Agril. Edn), ICAR
9. All Officers/Sections of ICAR, Krishi Bhawan/KAB-I/KAB-II/ASRB/NAIP
10. M&I Unit, KB & ISO, DKMA for uploading the same on the ICAR website

Note: The circular/clarifications/order issued from the Education Division of ICAR, dated 13th July and 9th October 2015 need to be taken care while recruiting the RA/SRF under the NASF projects.

The following External Members are approved for the **Advisory Committee:**

S.No.	Reg. No.	Title of the project	External Members of Advisory Committee
1.		To elucidate the unique biochemical adaptational strategies that allow two air-breathing catfishes (Clarias batrachus and Heteropneustes fossilis) to survive in ammonia enriched toxic waste	***Chairman:** ***Member**:

***It will decided by the ADG, NASF**

Delegation of Powers to Advisory Committees (AC) of the Projects under NASF

1. The 'Advisory Committees will be constituted by the ADG/ Director, NASF.
2. Individual ACs will be available for each project.
3. ACs may recommend additional fund of ₹ 1.5 lakhs to NASF within the approved budget for consideration during midterm evaluation/ monitoring.
4. ACs will be evaluating, monitoring and review the project once in a year. Besides it may visit laboratory/field/sites in consultation with NASF office.
5. Chairman(s) of ACs may participate during the annual review meetings of the projects, based on requirements.

No. BT/PR28560/AAQ/3/919/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 27.12.2019

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 27.12.2019 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **6935680.00** (Rupees Sixty Nine Lakhs Thirty Five Thousand Six Hundred and Eighty Only) being the first year release for the project entitled **"Assessment of endocrine disruption in fish reproduction",** being implemented by:

1. Dr. Sudipta Maitra, Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
2. Dr. Jitendra Kumar Sundaray, Head of Division, Division Of Fish Genetics & Biotechnology, ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha
3. Dr. Vettath Raghavan Suresh, Principal Scientist and Head of Division, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore - 700120, West Bengal

The detailed break-up is as given below:

SN	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	Central Inland Fisheries Research Institute Sundarbans	1073760.00	400000.00	50000.00	50000.00	0.00	0.00	**1573760.00**
2	Central Institute of Freshwater Aquaculture Bhubaneswar	1031880.00	1000000.00	50000.00	50000.00	0.00	0.00	**2131880.00**
3	Visva Bharati University Birbhum	1580040.00	1500000.00	50000.00	50000.00	0.00	50000.00	**3230040.00**

2. The amount of **Rs. 6935680.00** /-**(Rupees Sixty Nine Lakhs Thirty Five Thousand Six Hundred and Eighty Only**) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

1. Rs.**2131880.00**/- (**Rupees Twenty One Lakhs Thirty One Thousand Eight Hundred and Eighty Only)** to The Director, ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha

Bank Name	:	SBI
Branch Name	:	Kausalyaganga
A/c No.	:	10702369125
IFSC Code	:	SBIN0008874
MICR Code	:	751002051

Goadly

2. Rs.**3230040.00**/- (**Rupees Thirty Two Lakhs Thirty Thousand and Fourty Only)** to The Registrar, Visva-Bharati University, Santiniketan-731235, West Bengal

Bank Name	:	HDFC Bank Ltd.
Branch Name	:	HDFC Bank Ltd., Bolpur
A/c No.	:	50100195564478
IFSC Code	:	HDFC0002785
MICR Code	:	731240002

3. Rs.**1573760.00**/- (**Rupees Fifteen Lakhs Seventy Three Thousand Seven Hundred and Sixty Only)** to The Director, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore - 700120, West Bengal

Bank Name	:	State Bank of India
Branch Name	:	State Bank of India Barrackpore
A/c No.	:	11278713220
IFSC Code	:	SBIN0000029
MICR Code	:	700002214

3. The expenditure involved is debitable to:

Demand No. 87	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. The Director, Central Institute of Freshwater Aquaculture, Bhubaneswar and The Registrar, Visva Bharati University, Santiniketan and The Director, Central Inland Fisheries Research Institute, Barrackpore will submit audited utilization certificates and statements of expenditure in respect of the above-mentioned amount.

5. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.

6. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

7. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

8. (a) In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.
The other terms and conditions governing the financial sanction will remain unaltered.

9. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their SAN No. **102/IFD/SAN/3225/2019-20** dated **26.12.2019**.

10. This sanction order has been noted at serial no. 70 in the Register of Grants.

Copied

(Dr. Gulshan Wadhwa)
Scientist 'F'
डा. गुलशन वधवा / Dr. Gulshan Wadhwa
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi-110002.
2 Dr. Sudipta Maitra (Project Co-ordinator), Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal.
3 The Director, Central Inland Fisheries Research Institute, Barrackpore, Sundarbans, Kolkata - 700120, West Bengal.
4 The Director, Central Institute of Freshwater Aquaculture, Kausalyaganga Bhubaneswar - 751002, Odisha
5 The Registrar, Visva Bharati University, Santiniketan, Birbhum-731235, West Bengal.
6 Dr. Sudipta Maitra (PI), Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal.
7 Dr. Vettath Raghavan Suresh (PI), Principal Scientist and Head of Division, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore, Kolkata-700120, West Bengal.
8 Dr. Jitendra Kumar Sundaray (PI), Head of Division, Fish Genetics & Biotechnology Division, Central Institute Of Freshwater Aquaculture(CIFA), Kausalyaganga, Bhubaneswar-751002, Odisha,
9 Dr. Rajesh Kumar, Senior Scientist, Aquaculture Production and Environment Division, Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha
10 Dr. Subir Kumar Nag, Principal Scientist, ICAR-Central Inland Fisheries Research Institute ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore, Kolkata - 700120, West Bengal
11 Dr. Sutapa Mukherjee, Assistant Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
12 Dr. Kavita Kumari, Scientist (Fish Genetics & Breeding), Riverine Ecology and Fisheries Division, Central Inland Fisheries Research Institute, Barrackpore - 700120, West Bengal
13 Dr. Lakshman Sahoo, Scientist, Fish Genetics and Biotechnology Division, Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar- 751002, Odisha
14 Prof. Shelley Bhattacharya, Retired Professor, Department of Zoology, Visva-Bharati University, Santiniketan, Birbhum-731235, West Bengal
15 Prof. Ansuman Chattopadhyay, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
16 Cash Section, DBT (2 copies).
17 Sanction Folder.
18 File Copy.

Gulshan

(Dr. Gulshan Wadhwa)
Scientist 'F'

डा. गुलशन वधवा / Dr. Gulshan Wadhwa
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

No. BT/PR28560/AAQ/3/919/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003

Date: 27.12.2019

RELEASE ORDER

In continuation of this Department's sanction order of even number dated 27.12.2019 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **4435923.00** (Rupees Fourty Four Lakhs Thirty Five Thousand Nine Hundred and Twenty Three Only) being the first year release for the project entitled **"Assessment of endocrine disruption in fish reproduction",** being implemented by:

1. Dr. Sudipta Maitra, Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
2. Dr. Jitendra Kumar Sundaray, Head of Division, Division Of Fish Genetics & Biotechnology, ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha
3. Dr. Vettath Raghavan Suresh, Principal Scientist and Head of Division, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore - 700120, West Bengal

The detailed break-up is as given below:

SN	Institute Name	Non Recurring		Total Release Amount (Rs)
		Equipment	Other	
1	**Central Inland Fisheries Research Institute**	1978543.00	200000.00	**2178543.00**
2	**Central Institute of Freshwater Aquaculture**	1942380.00	0.00	**1942380.00**
3	**Visva Bharati University**	315000.00	0.00	**315000.00**

2. The amount of Rs. **4435923.00** /-(**Rupees Fourty Four Lakhs Thirty Five Thousand Nine Hundred and Twenty Three Only**) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

1. **Rs.1942380.00/- (Rupees Nineteen Lakhs Fourty Two Thousand Three Hundred and Eighty Only)** to The Director, ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha

   Bank Name : SBI
   Branch Name : Kausalyaganga
   A/c No. : 10702369125
   IFSC Code : SBIN0008874
   MICR Code : 751002051

2. **Rs.315000.00/- (Rupees Three Lakhs Fifteen Thousand Only)** to The Registrar, Visva-Bharati University, Santiniketan-731235, West Bengal

   Bank Name : HDFC Bank Ltd.
   Branch Name : HDFC Bank Ltd., Bolpur
   A/c No. : 50100195564478
   IFSC Code : HDFC0002785
   MICR Code : 731240002

330

3. Rs.**2178543.00**/- (**Rupees Twenty One Lakhs Seventy Eight Thousand Five Hundred and Fourty Three Only)** to The Director, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore - 700120, West Bengal

Bank Name	:	State Bank of India
Branch Name	:	State Bank of India, Barrackpore
A/c No.	:	11278713220
IFSC Code	:	SBIN0000029
MICR Code	:	700002214

3. The expenditure involved is debitable to:

Demand No. 87	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

4. The Director, Central Institute of Freshwater Aquaculture, Bhubaneswar and The Registrar, Visva Bharati University, Santiniketan and The Director, Central Inland Fisheries Research Institute, Barrackpore will submit audited utilization certificates and statements of expenditure in respect of the above-mentioned amount.

5. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.

6. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

7. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

8. (a) In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.

(b) Non-Recurring (Equipment) grant should be utilized within 18 months.

The other terms and conditions governing the financial sanction will remain unaltered.

9. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their SAN No. **102/IFD/SAN/3226/2019-20** dated **26.12.2019**.

10. This sanction order has been noted at serial no. 69 in the Register of Grants.

(Dr. Gulshan Wadhwa)
Scientist 'F'

डा. गुलशन वधवा / Dr. Gulshan Wadhwa
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi-110002.
2 Dr. Sudipta Maitra (Project Co-ordinator), Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal.
3 The Director, Central Inland Fisheries Research Institute, Barrackpore, Sundarbans, Kolkata - 700120, West Bengal.
4 The Director, Central Institute of Freshwater Aquaculture, Kausalyaganga Bhubaneswar - 751002, Odisha
5 The Registrar, Visva Bharati University, Santiniketan, Birbhum-731235, West Bengal.
6 Dr. Sudipta Maitra (PI), Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal.
7 Dr. Vettath Raghavan Suresh (PI), Principal Scientist and Head of Division, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore, Kolkata-700120, West Bengal.
8 Dr. Jitendra Kumar Sundaray (PI), Head of Division, Fish Genetics & Biotechnology Division, Central Institute Of Freshwater Aquaculture(CIFA), Kausalyaganga, Bhubaneswar-751002, Odisha,
9 Dr. Rajesh Kumar, Senior Scientist, Aquaculture Production and Environment Division, Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha
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12 Dr. Kavita Kumari, Scientist (Fish Genetics & Breeding), Riverine Ecology and Fisheries Division, Central Inland Fisheries Research Institute, Barrackpore - 700120, West Bengal
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15 Prof. Ansuman Chattopadhyay, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
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(Dr. Gulshan Wadhwa)
Scientist 'F'
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वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

No. BT/PR28560/AAQ/3/919/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003

Dated: 27.12.2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978 , for the implementation of the project entitled "**Assessment of endocrine disruption in fish reproduction**" for a period of 3 Year 0 Month at a total cost of Rs. **28878883** (Rupees Two Crores Eighty Eight Lakhs Seventy Eight Thousand Eight Hundred and Eighty Three Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : Assessment of endocrine disruption in fish reproduction.

2.2 Details of the Investigators:

Project Coordinator

Dr. Sudipta Maitra,
Associate Professor,
Department of Zoology, Visva-Bharati University,
Santiniketan-731235, West Bengal

Principal Investigators:

Dr. Sudipta Maitra,
Associate Professor,
Department of Zoology, Visva-Bharati University (VBU),
Santiniketan-731235, West Bengal

Dr. Jitendra Kumar Sundaray
Head of Division
Fish Genetics & Biotechnology Division,
Central Institute Of Freshwater Aquaculture(CIFA)
Kausalyaganga, Bhubaneswar-751002, Odisha,

Dr. Vettath Raghavan Suresh
Principal Scientist and Head of Division,
ICAR-Central Inland Fisheries Research Institute (CIFRI),
Monirampur (Post), Barrackpore, Kolkata- 700120, West Bengal

CO-PI:

Dr. Lakshman Sahoo
Scientist,
Fish Genetics and Biotechnology Division,
Central Institute of Freshwater Aquaculture,
Kausalyaganga, Bhubaneswar- 751002, Odisha

Dr. Rajesh Kumar
Senior Scientist,
Aquaculture Production and Environment Division,
Central Institute of Freshwater Aquaculture,
Kausalyaganga, Bhubaneswar - 751002, Odisha

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Dr. Sutapa Mukherjee
Assistant Professor,
Department of Zoology, Visva-Bharati University, Santiniketan - 731235, West Bengal

Prof. Ansuman Chattopadhyay
Department of Zoology,
Visva-Bharati University, Santiniketan - 731235, West Bengal

Prof. Shelley Bhattacharya
Retired Professor,
Department of Zoology, Visva-Bharati University, Santiniketan - 731235, West Bengal

Dr. Subir Kumar Nag
Principal Scientist,
ICAR-Central Inland Fisheries Research Institute (CIFRI), Monirampur (Post),
Barrackpore, Kolkata-700120, West Bengal

Dr. Kavita Kumari
Scientist (Fish Genetics & Breeding)
Riverine Ecology and Fisheries, Central Inland Fisheries Research Institute,
Barrackpore - 700120, West Bengal

2.3 Objectives:

Overall Objectives:

1. Screening and assessment of endocrine disruptors in aquaculture pond systems in different geographical locations.
2. Targeted studies on known endocrine disrupting chemicals (EDCs), e.g. dioxins, alkylphenols (Bisphenol A, 4-Nonylphenol, octyl phenol) plasticizers (phthalates), cosmetics (Triclosan), pesticides (Cypermethrin), heavy metals (lead), pharmaceutical agents [diethylstilbestrol (DES) in respect of reproduction of commercially important fish species.
3. Assessment of molecular mechanisms of disruption in the hypothalamicpituitary-gonadal (HPG) axis of commercially important fish species (VisvaBharati University on Climbing perch; CIFA on Rohu and CIFRI on Catla).
4. Development of biomarkers using model fish for assessment of EDCs and its validation in commercially important fish species.

Institute wise Objectives:

Central Inland Fisheries Research Institute

1. Targeted studies on known endocrine disrupting chemicals (EDCs) in respect of reproduction of commercially important fish species.
2. Assessment of molecular mechanisms of disruption in the hypothalamicpituitary-gonadal (HPG) axis of Catla catla.
3. Development of biomarkers using model fish for assessment of EDCs and its validation in commercially important fish species.

Central Institute of Freshwater Aquaculture

1. Screening and assessment of endocrine disruptors along major rivers and aquaculture systems.
2. Targeted studies on known endocrine disrupting chemicals (EDCs) in respect of reproduction of commercially important fish species.
3. Assessment of molecular mechanisms of disruption in the hypothalamicpituitary-gonadal (HPG) axis of Rohu.
4. Development of biomarkers using model fish for assessment of EDCs and its validation in commercially important fish species.

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Visva Bharati University

1. Targeted studies on known endocrine disrupting chemicals (EDCs), dioxins, alkylphenols (Bisphenol A, 4-Nonylphenol, octyl phenol) plasticizers (phthalates), pesticides (Cypermethrin), heavy metals (lead), pharmaceutical agents [diethylstilbestrol (DES) in respect of reproduction of commercially important fish species.
2. Assessment of molecular mechanisms of disruption in the hypothalamicpituitary-gonadal (HPG) axis of commercially important fish species (climbing perch, Anabas testudineus).
3. Development of biomarkers using model fish (zebrafish, Danio rerio) for assessment of EDCs and its validation in commercially important fish species.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **28878883**/-(Rupees Two Crores Eighty Eight Lakhs Seventy Eight Thousand Eight Hundred and Eighty Three Only) as per details given below:

Institute	**Year I**	**Year II**	**Year III**	**Total Cost**(Rs.)
1. Central Inland Fisheries Research Institute	3752303	2798760	2917800	**9468863**
2. Central Institute of Freshwater Aquaculture	4074260	2531880	2643240	**9249380**
3. Visva Bharati University	3545040	3230040	3385560	**10160640**
Total (Rs.)	**11371603**	**8560680**	**8946600**	**28878883**

Institute wise details are:

Budget Head	**Year I**	**Year II**	**Year III**	**Total**(Rs.)
1. Visva Bharati University				
Equipment	315000.00			**315000.00**
Manpower	1580040.00	1580040.00	1735560.00	**4895640.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	1500000.00	1500000.00	1500000.00	**4500000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**3545040.00**	**3230040.00**	**3385560.00**	**10160640.00**
2. Central Inland Fisheries Research Institute				
Equipment	2178543.00			**2178543.00**
Manpower	1073760.00	1073760.00	1192800.00	**3340320.00**
Travel	50000.00	75000.00	75000.00	**200000.00**
Consumables	400000.00	1600000.00	1600000.00	**3600000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**3752303.00**	**2798760.00**	**2917800.00**	**9468863.00**
3. Central Institute of Freshwater Aquaculture				
Equipment	1942380.00			**1942380.00**
Manpower	1031880.00	1031880.00	1143240.00	**3207000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	1000000.00	1400000.00	1400000.00	**3800000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**4074260.00**	**2531880.00**	**2643240.00**	**9249380.00**

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2.6 Equipment

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 87	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

Demand No. 87	**Department of Biotechnology**
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

4.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in Annexure-IV

4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

6. The Director, Central Inland Fisheries Research Institute, Sundarbans, West Bengal and The Director, Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha and The Registrar, Visva Bharati University, Birbhum, West Bengal would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-08/2018 dated 30 Jan 2019. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.

8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.

9. If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org

10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clarence, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project investigator(s) and Host Institution(s) shall compulsory comply the same before undertaking such activities.

11. This issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/3224/2019-20** dated **26.12.2019.**

12. This sanction order has been noted at serial no. 69 in the Register of Grants.

(Dr. Gulshan Wadhwa)
Scientist 'F'
डा. गुलशन वधवा / Dr. Gulshan Wadhwa
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रोद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
2 Dr. Sudipta Maitra (Project Co-ordinator), Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal.
3 The Director, Central Inland Fisheries Research Institute, Barrackpore, Sundarbans, Kolkata - 700120, West Bengal.
4 The Director, Central Institute of Freshwater Aquaculture, Kausalyaganga Bhubaneswar - 751002, Odisha
5 The Registrar, Visva Bharati University, Santiniketan, Birbhum-731235, West Bengal.
6 Dr. Sudipta Maitra (PI), Associate Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal.
7 Dr. Vettath Raghavan Suresh (PI), Principal Scientist and Head of Division, ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore, Kolkata-700120, West Bengal.
8 Dr. Jitendra Kumar Sundaray (PI), Head of Division, Fish Genetics & Biotechnology Division, Central Institute Of Freshwater Aquaculture(CIFA), Kausalyaganga, Bhubaneswar-751002, Odisha,
9 Dr. Rajesh Kumar, Senior Scientist, Aquaculture Production and Environment Division, Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar - 751002, Odisha
10 Dr. Subir Kumar Nag, Principal Scientist, ICAR-Central Inland Fisheries Research Institute ICAR - Central Inland Fisheries Research Institute, Monirampur (Post), Barrackpore, Kolkata - 700120, West Bengal
11 Dr. Sutapa Mukherjee, Assistant Professor, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
12 Dr. Kavita Kumari, Scientist (Fish Genetics & Breeding), Riverine Ecology and Fisheries Division, Central Inland Fisheries Research Institute, Barrackpore - 700120, West Bengal
13 Dr. Lakshman Sahoo, Scientist, Fish Genetics and Biotechnology Division, Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar- 751002, Odisha

14 Prof. Shelley Bhattacharya, Retired Professor, Department of Zoology, Visva-Bharati University, Santiniketan, Birbhum-731235, West Bengal
15 Prof. Ansuman Chattopadhyay, Department of Zoology, Visva-Bharati University, Santiniketan-731235, West Bengal
16 Cash Section, DBT (2 copies).
17 Sanction Folder.
18 File Copy.

(Dr. Gulshan Wadhwa)
Scientist 'F'

डा. गुलशन वधवा / Dr. Gulshan Wadhwa
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled **"Assessment of endocrine disruption in fish reproduction":**

Visva Bharati University			
S No.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Western Blotting Apparatus	1	315000.00
		Total	**315000.00**
Central Inland Fisheries Research Institute			
S No.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	Fish holding tank	1	200000.00
2.	Gradient PCR	1	400000.00
3.	Tissue homogenizer	1	119175.00
4.	Spectrophotometer	1	654170.00
5.	-20 refrigerator	1	182480.00
6.	UV Transilluminator	1	72718.00
7.	Rotary vacuum evaporator	1	200000.00
8.	Solid Phase Extraction Apparatus	1	250000.00
9.	Accessories for existing HPLC equipment	1	100000.00
		Total	**2178543.00**
Central Institute of Freshwater Aquaculture			
S No.	**Name of Equipment**	**No.**	**Cost(Rs.)**
1.	UV VIS Spectrophotometer	1	551250.00
2.	10 KVA UPS	1	362780.00
3.	Microscope with photography	1	650750.00
4.	Experimental tank	1	377600.00
		Total	**1942380.00**

(Dr. Gulshan Wadhwa)
Scientist 'F'

डा. गुलशन वधवा / Dr. Gulshan Wadhwa
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
भारत सरकार / Govt. of India, N. Delhi

Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled **"Assessment of endocrine disruption in fish reproduction":**

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
1. Central Inland Fisheries Research Institute					
Junior Research Fellow @ Rs. 31,000/- + 24% HRA pm for 1st & 2nd year (to be appointed as per the DST guidelines OM No. SR/S9/Z-08/2018 dated January 30, 2019)	2	922560	922560	0	**1845120**
Senior Research Fellow @ Rs. 35,000/- + 24% HRA pm for 3rd year (to be appointed as per the DST guidelines OM No. SR/S9/Z-08/2018 dated January 30, 2019)	2	0	0	1041600	**1041600**
Unskilled Labour @ 12,600/- pm for 3 years (As per order of Ministry of Labour & Employment)	1	151200	151200	151200	**453600**
Total(Rs.)		**1073760**	**1073760**	**1192800**	**3340320**
2. Central Institute of Freshwater Aquaculture					
Junior Research Fellow @ Rs. 31,000/- + 16% HRA pm for 1st and 2nd year (to be appointed as per the DST guidelines OM No. SR/S9/Z-08/2018 dated January 30, 2019)	2	863040	863040	0	**1726080**
Senior Research Fellow @ Rs. 35,000/- + 16% HRA for 3rd year (to be appointed as per the DST guidelines OM No. SR/S9/Z-08/2018 dated January 30, 2019)	2	0	0	974400	**974400**
Field Assistant @ Rs. 14070/- pm for 3 years (As per order of Ministry of Labour & Employment)	1	168840	168840	168840	**506520**
Total(Rs.)		**1031880**	**1031880**	**1143240**	**3207000**
3. Visva Bharati University					
Junior Research Fellow @ Rs. 31,000/- + 8% HRA pm for 1st and 2nd year (to be appointed as per the DST guidelines OM No. SR/S9/Z-08/2018 dated January 30, 2019)	3	1205280	1205280	0	**2410560**
Senior Research Fellow @ Rs. 35,000/- + 8% HRA for 3rd year (to be appointed as per the DST guidelines OM No. SR/S9/Z-08/2018 dated January 30, 2019)	3	0	0	1360800	**1360800**
Unskilled Labour/Fish Maintainer @ Rs. 10410/- pm for 3 years (As per order of Ministry of Labour & Employment)	3	374760	374760	374760	**1124280**
Total(Rs.)		**1580040**	**1580040**	**1735560**	**4895640**

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST OM No. SR/S9/Z-08/2018 dated 30.01.2019 for JRF/SRF/RA and OM No. SR/S9/Z-05/2019 dated 21.08.2019 for all other categories.

(Dr. Gulshan Wadhwa)
Scientist 'F'

डा. गुलशन वधवा / Dr. Gulshan Wadhwa
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विज्ञान और प्रौद्योगिकी विभाग
भारत सरकार, नई दिल्ली-110016

NJC

PAPER

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Cite this: *New J. Chem.*, 2019, **43**, 18767

Synthesis and characterization of Pt(II)-based potent anticancer agents with minimum normal cell toxicity: their bio-activity and DNA-binding properties†

Sujay Mahata,[a] Subhajit Mukherjee,[a] Swarup Kumar Tarai,[a] Angana Pan,[a] Ishani Mitra,[a] Soumojit Pal,[b] Sudipta Maitra[b] and Sankar Ch. Moi *[a]

Received 14th June 2019,
Accepted 1st November 2019

DOI: 10.1039/c9nj03108a

rsc.li/njc

A Pt(II)-based complex [Pt(DMEEDA)Cl_2], **1** (DMEEDA = *N*,*N*-dimethyl-*N*′-ethylethylenediamine), was synthesized, where DMEEDA acted as the (N,N) bidentate carrier ligand. The diaqua complex [Pt(DMEEDA)$(H_2O)_2$]$(NO_3)_2$, **2**, was obtained by the hydrolysis of dichloro complex **1**. Further, its substituted complex [Pt(DMEEDA)(L-cys)](NO_3), **3**, and [Pt(DMEEDA)(*N*-ac-L-cys)], **4** (where L-cys = L-cysteine and *N*-ac-L-cys = *N*-acetyl-L-cysteine), were synthesized with amino acid L-cysteine and its acetyl derivative. The complexes were characterized *via* different spectroscopic techniques, such as UV-Vis, FT-IR, ^{1}H NMR and ESI-MS. The structure of complex **1** was determined *via* X-ray diffraction studies to be an orthorhombic crystal system with cell parameters a = 7.9970(2) Å, b = 16.9851(7) Å, c = 16.0460(7) Å and α = 90(°); β = 90(°); γ = 90(°) and space group (*pccn*). The DNA-binding properties of the complexes were investigated *via* gel electrophoresis, and DNA-binding constants were obtained from UV-Vis spectroscopic and fluorescence titration methods. Congruent with a significant increase in DNA fragmentation, the growth inhibition potential of the synthesized Pt(II) complexes has been remarkably higher in the hepatocarcinoma cell line (HepG2), as compared to cisplatin. Moreover, these complexes show minimal toxicity to mouse primary hepatocytes and RAW 264.7 cells *in vitro*.

Introduction

The anticancer activity of cisplatin, [$Pt(NH_3)_2Cl_2$], was serendipitously discovered by B. Rosenberg[1] in 1967 and consequently, it was recognized as an anticancer drug in 1978 by the Food and Drug Administration (FDA), USA. In spite of its anticancer activity, it has various severe side effects,[2,3] such as neurotoxicity, gastrointestinal effects, nephrotoxicity and ototoxicity, which have led different research groups to search new and safer anticancer agents. Next-generation drugs, such as carboplatin,[4–6] nedaplatin,[7] oxaliplatin[8] and lobaplatin[9,10] were synthesized and after long trials, were recognized for the treatment of specific types of cancers but they are not devoid of toxicity.[11,12] Their activity and side effects might be controlled with structural modifications of the corresponding carrier and labile ligand moieties. In general, the cytotoxic properties of Pt(II) complexes depend on carrier (N, N donor) ligands and leaving groups (Cl or O, O/S,O donors, *etc.*) as well as on the planarity around the Pt(II) centre. The ultimate aim of molecular targeting is for malignant cancerous cell DNA to bind with the Pt(II) complex, which leads to consequent cell death.[13] Anticancer properties are governed by the structure of the complexes and the nature of bonding, which are directly related to the electronic as well as steric factors of the carrier and leaving groups. These factors ultimately govern the Pt(II)–DNA adduct formation *via* Pt(II)–sulfur chelation by thiol groups containing proteins and peptides.[14] Recently, various research groups have developed alternative strategies for developing new Pt(II)-based drugs with better cellular uptake, enhanced efficacy and reduced drug resistance.[15–21]

To design a novel Pt(II) complex, we have considered *N*,*N*-dimethyl-*N*′-ethylethylenediamine (DMEEDA) as a carrier ligand, which has considerable σ-donor activity, and steric and electronic effects on Pt(II). Consequently, structural modification in carrier as well as leaving groups of Pt(II) complexes with specific optimization, might be suitable for

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[b] *Department of Zoology, Visva-Bharati University, Santiniketan, West Bengal-731235, India*

† Electronic supplementary information (ESI) available. CCDC 1531460. For ESI and crystallographic data in CIF or other electronic format see DOI: 10.1039/c9nj03108a

View Article Online
DOI: 10.1039/C9OB00460B

Journal Name

COMMUNICATION

Selective Sensing of Al^{3+} Ion by Nitrophenyl Induced Coordination: Imaging in Zebrafish Brain Tissue

Sujoy Das[†], Urmi Mukherjee[‡], Soumojit Pal[‡], Sudipta Maitra[‡] and Prithidipa Sahoo[*†]

Received 00th January 20xx,
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DOI: 10.1039/x0xx00000x

www.rsc.org/

Abstract: A *p*-nitrophenyl based rhodamine probe (NPRB) has been designed and synthesized for the selective, real-time detection of Al (III) in aqueous medium with a lower micromolar range detection limit at physiological pH. All the spectroscopic and theoretical analysis validated the proposed 1:1 complexation between NPRB and Al^{3+} along with an 80-fold enhancement in fluorescence intensity. Using the "turn on" response of the probe, binding of NPRB to Al^{3+} in the brain tissue of adult male zebrafish (*D. rerio*) has been visualized through fluorescence microscopy.

Introduction:

Chemosensors, based on optical signaling method, have been attracted a considerable attention in the research field of analytical chemistry by offering excellent sensitivity, selectivity, a platform for real time response and local observation accounting a low expenditure.[1-8] And when it is designed for metal selection especially for chelatable aluminium (Al^{3+}), the specific chemosensor demands a great importance as because aluminium possesses a lack of spectroscopic characteristics, strong hydration ability and poor coordination ability compared to the transition metals.[9] Aluminium, the third most abundant elements after oxygen and silicon, makes up about 8% of the Earth's crust by mass which awarded it the position of the most abundant metal in crust. In 1989 World Health Organization (WHO) declared it as one of the food pollution sources and limited its concentration to 200 µg/ L (7.41 µM) in drinking water[10] as it is found to be a neurotoxin to organisms since more than hundred years.[11] Apart from various neurodegenerative and neurological disorders like Parkinsonism dementia, osteomalacia, amyotrophic lateral sclerosis, Alzheimer's disease,[12] an unregulated amount of Al^{3+} ion in biological system can also cause gastrointestinal problems, extreme nervousness, headaches, interference with the metabolism of calcium, colic, rickets, breast cancer, memory loss, speech problems, aching muscles, anaemia, softening of the bones, decreased liver and kidney function[13,14] and inhibition of several essential elements of similar size and charge like Mg^{2+}, $Ca^{2+}$and Fe^{3+}.[15] With its all adverse effects, aluminium is still being cast off in every sphere of modern daily life, from aviation and automobile industry, building equipment to households. Reports say that the major sources of human oral exposure to aluminium are food, drinking water and oral drugs due to its widespread use in cooking utensils, food additives, food and beverage packaging, municipal water treatment and in aluminium-containing medications particularly antacid/ anti-ulcer and buffered aspirin formulations.[16] This is why WHO had limited the average daily human intake of Al^{3+} to 3–10 mg and to 7 mg kg^{-1} body weight as weekly tolerable dietary intake.[17]

Fish or any marine or aquatic creature could be an important source of neurotoxic aluminium ion accumulation in human body. Moreover aluminium acts as a toxic agent on gill-breathing animals by causing loss of plasma and hemolymph ions and can easily affects their osmoregulation process.[18] Retaining all the above things it is very important to detect and quantify Aluminium, continuously being consumed in our daily life.[19] So, here we have reported a new chemosensor which responses through fluorescence "turn-on" mechanism in presence of Al^{3+}. Al-induced neurotoxicity has been studied in rodents.[20,21] We tried to apply a new nitrophenyl appended rhodamine based fluorescent probe in brain tissue of zebrafish to detect Al^{3+} immediately. Though, in aluminium chloride-exposed zebrafish larvae neurological injury at the level of glial cells has been reported[22], early detection of Al^{3+} through appropriate chemosensor is being reported for the first time in the present study (comparison table S1).

Result and discussions:

Design and synthsis. A nitrophenyl based rhodamine probe (**NPRB)** was designed and synthesized for this purpose in a simple one-step reaction between Rhodamine B and p-nitro aniline in acetonitrile with the help of $POCl_3$ resulting 75% yield. The structure of **NPRB** was confirmed by ^1H NMR, ^{13}C NMR and Mass Spectrometry (Fig. S1-S4).

Absorbance and fluorescence studies. To illustrate the spectrophotometric characteristics of the probe **NPRB** with Al^{3+} ion, UV-vis and fluorescence spectroscopy titrations were carried out in CH_3CN/H_2O (1:8, v/v), pH 7.2 (10 mM phosphate

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Organic & Biomolecular Chemistry Accepted Manuscript

3.7.1 Collaboration

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A BILINGUAL TABLOID BY CJMC
VISVA-BHARATI *CHRONICLE*
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VISVA-BHARATI CHRONICLE

বিশ্বভারতী ক্রনিক্‌ল
জার্নালিজম অ্যান্ড মাস কমিউনিকেশন বিভাগের প্রকাশিত একটি সম্পূর্ণ দ্বিভাষিক সংবাদপত্রিকা
মূল্য : ৫ টাকা

A Bi-lingual Tabloid by the Centre for Journalism and Mass Communication

ANANDABAZAR ISSUE : VOLUME 14, NUMBER 1 8 OCTOBER 2015 CONTRIBUTION : RS. 5.00

PM Modi as VB Chancellor

Image source : pmindia.gov.in

Riya Bhattacharjee, Srawani : Prime Minister Mr. Narendra Modi has been appointed as the new Chancellor of Visva-Bharati.

Honourable President Pranab Mukherjee, the *Paridarshaka* (Visitor) of the University appointed him out of the three nominations sent by the Executive Council of Visva-Bharati for a term of three years (2015–18).

Modi has replaced former Prime Minister Dr. Manmohan Singh, who resigned from the post two months before the end of his term. Visva-Bharati is eagerly waiting to welcome its new Chancellor in Santiniketan.

উপাচার্যের পদত্যাগ

দেবায়ন : পদত্যাগ করলেন উপাচার্য অধ্যাপক সুশান্ত দত্তগুপ্ত। ২০১১ সালের ২৯ সেপ্টেম্বর তিনি দায়িত্ব গ্রহণ করেছিলেন। বিশ্বভারতীর উপাচার্যের দায়িত্ব পালনের আগে তিনি দেশে ও বিদেশে বহু প্রথিতযশা বিশ্ববিদ্যালয় ও বিজ্ঞান গবেষণা কেন্দ্রে অধ্যাপক ও অধ্যক্ষের ভূমিকা পালন করেছেন। গত ৩০ সেপ্টেম্বর বিশ্বভারতীর পরিদর্শক রাষ্ট্রপতি প্রণব মুখোপাধ্যায়ের কাছে তিনি তাঁর পদত্যাগপত্র পাঠিয়েছেন। সহ উপাচার্য প্রখ্যাত কৃষিবিজ্ঞানী অধ্যাপক স্বপন কুমার দত্ত বর্তমানে উপাচার্যের দায়িত্ব সামলাচ্ছেন।

Students Making VB Proud

Debayan, Monami : Annada Shankar Roy, a student of Chemistry Dept, has made Visva-Bharati proud by securing first position in the All India GATE this year. Koustabh Ghosh, a B.A./B.Sc. (H) Sem-II student of Physical Education Department has also made VB proud by getting selected to represent India in the 6th Commonwealth

contd. to 2nd page...

CJMC WORKROOM

Media Lab for the Budding Communicators

Sagarika, Debayan : Centre for Journalism and Mass Communication (CJMC) has built its own media lab– "CJMC Workroom" with the initiative of its post-graduate students (Batch 2014-16). After three months of tireless work put in by the students, an empty classroom has been turned into a full-fledged media lab with a giant projection, 5.1 3D surrounding system, Three-point lighting system, multi-track sound recording, soundproof recording room, chroma screen, editing console and virtual studio. In a small programme the lab was inaugurated by Vice-Chancellor Prof. Sushanta Dattagupta on 24 August, 2015 in presence of many dignitaries from the University. In the beginning, Dr. Mausumi Bhattacharyya, In-Charge, CJMC introduced the lab to the esteemed guests and also emphasized the historic role of the 34 post-graduate students (Batch 2014-16) in creating their own media lab. Guests were shown a short film on the making of the media lab which was made by the students to document the creation of the lab from scratch. A CJMC student Anjanabha Roy, the 'key architect' behind the lab, said that this would not have been possible without the full support of the In-Charge of CJMC. Dignitaries present in the programme– Pro-VC, Prof. Swapan Kr. Datta, Provost CCR&H, Prof. Tapati Mukherjee, Dr. D. Gunasekaran (former Registrar), Prof. V.C. Jha (Principal, Vidya-Bhavana) and Prof. Samit Ray (Proctor) heartily appreciated the efforts of the students.

1. VC, Principal, Vidya-Bhavana, Pro-VC, Provost, CCR&H inaugurating the lab; 2. Proctor Prof. Samit Ray at the recording room; 3. VC at the virtual studio; 4. Guests watching the students' film on giant projection screen; 5. CJMC PG students (Batch 2014-2016) with their faculty members after inauguration.

UKIERI Conferences at Rabindra Bhavana

Anjanabha, Madhumanti, Richa : The first Conference under the UK-India Education and Research Initiative (UKIERI) was organized by Rabindra Bhavana on 3 July on "The Scotland-India Continum of Ideas : Tagore and His Circle" and the second one was held on 25 July. The first conference was inaugurated by Pro Vice-Chancellor Prof. Swapan Kr. Datta. The speakers present in the conference were Prof. Rosinka Chaudhuri, Prof. Arunendu Bandyopadhyay, Tom Crosby (UKIERI Research Scholar) and from Visva-Bharati– Provost CCR&H, Prof. Tapati Mukherjee, Prof. Kailash Pattanayak, Prof. Amrit Sen, Prof. Uday Narayan Singh, Biswanath Banerjee (UKIERI Research Scholar), and Prof. Dikshit Sinha. The conference revolved around how Tagore was influenced by the Scottish literature, music and culture. The influence of Scottish culture was well portrayed in many of his works.

Vinaya Bhavana's UGC-SAP Grant

Sagarika : Vinaya Bhavana (Dept. of Education) received the Special Assistance Programme (SAP) from University Grants Comminssion (UGC) for fresh induction (Departmental Research Support Phase-I) in June 2015. UGC has approved financial assistance of Rs. 85 lakhs for this project. Prof. K.C. Sahoo, Head, Department of Education is the project co-ordinator and Dr. Asheesh Srivastava is the Deputy Co-ordinator of the project. The major thrust areas of this research project are on education for sustainable development, value and peace education, and educational policies and Tagorian thought.

Photo : Mridhumoy

Visva-Bharati gets NAAC Accreditation

Banhisikha, Debayan, Sagarika : The first accreditation of Visva-Bharati by National Assessment and Accreditation Council (NAAC) took place in April 2015. A 16 member Peer Team from NAAC visited the university during April 27–30, for this purpose. Professor Bharat Chatoo was the Chairman of the Peer Team and the other esteemed members were Ex and current Vice-Chancellors and Professors of different universities across the country. During the four days of their stay, the Peer Team members visited all the departments and bhavanas and interacted with staff members from academic departments and administration as well as students, parents, alumni and members of all the committees and councils of Visva-Bharati. Further, they visited Patha-Bhavana and also attended the weekly prayer at the *Mandir*.

After their assessment, Visva-Bharati secured 2.82 out of 4 and was conferred Grade 'B' by NAAC. Prof. Tapati Mukherjee, Chairperson of NAAC Steering Committee (Coordinator) explained that the NAAC visit was a learning experience for the University. She also added, "the outcome although is not satisfactory for us as we expected 'A' Grade". She said that the major drawback was the inexperience in this regard and also mentioned that the recommendations made by the NAAC Peer Team are valuable for Visva-Bharati and the University is undertaking all necessary measures to attain better grade in future.

সম্পাদকীয়

সাংবাদিকতা ও মূল্যবোধ

সংবাদপত্র সমাজের দর্পণ; সমাজ সংবাদপত্রের সামনে দাঁড়িয়ে নিজের দোষ-ত্রুটি বিচার করে, শোধন করে। আর এই দর্পণের অন্যতম প্রধান উপাদান— সাংবাদিক। তারা তাদের কলমের খোঁচায় সমাজকে তার প্রতিবিম্বের স্বরূপ দেখতে বাধ্য করে। এই খুব চেনা প্রতিষ্ঠিত পরম্পরাটাই বদলে যায় যখন দর্পণের কাঁচ তার স্বচ্ছতা হারিয়ে হয়ে ওঠে রঙিন; সাংবাদিকতা হারিয়ে ফেলে তার নিরপেক্ষ নির্ভীকতা। বঙ্গদেশের বহুল প্রচারিত সংবাদপত্রগুলি সম্পর্কে মানুষের মনে যে ধারণা গত দশ বছর ধরে গড়ে উঠেছে তা বিচার করলে একথা বলাই যায় যে বেশিরভাগ সংবাদপত্র পাঠকের প্রতি নৈতিক দায়িত্ব অতিক্রম করে গায়ে মেখেছে বিশেষ কিছু রঙ।

সমাজ বা পাঠকের দৃষ্টিভঙ্গি থেকে নয়; একজন সাংবাদিকতার ছাত্রের দৃষ্টিভঙ্গী থেকে এই সমস্যার উপর আলোকপাত করাই এই সম্পাদকীয়র মূল উদ্দেশ্য। আজ ভারতবর্ষের প্রায় প্রতিটি রাজ্যেই সাংবাদিকতা শিক্ষার সুযোগ রয়েছে। সরকারী ও বেসরকারী এই সমস্ত শিক্ষা প্রতিষ্ঠান থেকে প্রতি বছর কয়েক লক্ষ ছাত্র-ছাত্রী সাংবাদিকতায় স্নাতক বা স্নাতকোত্তর সম্মান অর্জন করছে। তাদের কাছে এই সমস্যাটি প্রভূত। কারণ তাদের ক্ষেত্রে স্বপ্ন আর বাস্তব হয়ে উঠছে ভিন্ন মেরুর বাসিন্দা; বাধছে সংঘাত।

ডাক্তারী বা ইঞ্জিনিয়ারিং বিষয়ের মত সাংবাদিকতা নিয়েও কিছু ছাত্র শুধুমাত্র অর্থের সন্ধানেই পড়তে আসে; কিন্তু প্রচুর সংখ্যক স্বপ্ন মাখা চোখে সমাজের প্রতি দায়বদ্ধতা পালন করতেও আসে। তারা একাগ্রতার সাথে Media Ethics-এর উপর পড়াশুনা করে। তারাও গান্ধীজীর মত বিশ্বাস করে, "The press is called the Fourth Estate. It is definitely a power, but to misuse that power is criminal."

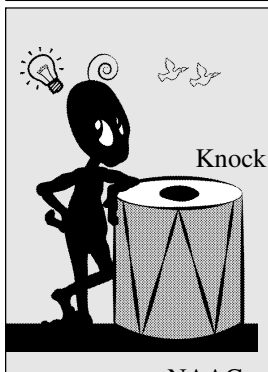
পাশ করার পর পেশার জগতে ঢুকে তাদের স্বপ্ন বিশ্বাস গুলো কিন্তু বেশ বদলে যায়। তখন তাদের জানতে হয় কীভাবে উইলফ্রেড বার্চেট তাঁর নাগরিকত্ব হারিয়েছিলেন হিরোসিমা ও নাগাসাকির পারমাণবিক বোমাজনিত ক্ষয়ক্ষতির প্রকৃত স্বরূপ প্রকাশ করতে গিয়ে। তাদের পড়তে হয় বার্নার্ড গোল্ডবার্গ-এর লেখা "Bias : a CBS Insider Exposes How the Media Distorts the News".

পরিস্থিতির অবনতি ত্বরান্বিত করছে "Paid News". স্বাধীনতাপূর্ব ভারতবর্ষ যেখানে সাংবাদিকতার পবিত্রতা রক্ষা করার জন্য কোনোদিন বিজ্ঞাপন ছাপতে অস্বীকার করেছে, সেখানে আজ অনেক সংবাদপত্র বিজ্ঞাপনের জ্যাকেট বা হাফ জ্যাকেট পরে আত্মপ্রকাশ করে। কমবেশি সব রাজনৈতিক দলই আজ তাদের নিজস্ব সংবাদপত্র প্রকাশ করে; স্বাভাবিকভাবেই রাজনৈতিক প্রভাব যে সংবাদপত্রের অক্ষরের আকার-আকৃতি বদলাতে ভূমিকা গ্রহণ করছে তা বলাবাহুল্য।

অনেক ক্ষেত্রেই পাঠক্রমে পড়া "Media Ethics" খালি সুখস্বপ্ন হিসাবেই রয়ে যায় কর্মে যোগ দেওয়া নতুন ছাত্রদের কাছে। এসব কারণেই হয়তো আজ সাধারণ মানুষও টমাস জেফারসনের মত বিশ্বাস করতে শুরু করেছে যে, "The man who reads nothing at all is better educated than the man who reads nothing but newspapers."

তবে এই সম্পাদকীয় শুধু অন্ধকারের বিষণ্ণতাকে নয়, ভোরের প্রথম সূর্যকেও সমানভাবে উল্লেখ করার প্রয়াস রাখে। Alternative Media-র পদার্পন যে নতুন আশার আলো দেখাচ্ছে তাকে ধরে রাখতেও সমান আগ্রহী আজকের সমাজ। তাই তো একাধিক অনলাইন সংবাদপত্র শুধুমাত্র পাঠক-পাঠিকাদের অর্থেই পথ চলার দুঃসাহস দেখাচ্ছে। সাংবাদিকতার মূল ধারণাকে সম্মান জানিয়ে সংবাদে, পত্রিকা সংস্থার মতামত নয়; প্রাধান্য পাচ্ছে সাধারণ মানুষের মতামত, প্রকাশিত হচ্ছে সাধারণ মানুষের কথা-সমস্যা-প্রাপ্তি। পরিশেষে বলা যায় অন্যান্য পেশার মত আজ সাংবাদিকতা পেশাতেও ভালো-খারাপ, আলো-অন্ধকার পাশাপাশি অবস্থান করছে। অন্ধকার হয়তো নিশ্ছিদ্র; কিন্তু আলোর রেখাও রয়েছে— খুঁজে নেওয়া ব্যক্তিগতের অভিরুচি। পরিশেষে বলা যায় যে "House Policy", "Paid News", "Half Jacket" ইত্যাদির পরেও একটা কথা সাংবাদিকতা শব্দের সাথে যুক্ত সকল মানুষের মনে রাখা উচিত যে "Journalism is in fact history on the run".

COCKtail



রং গেল ছেড়ে, গ্রীষ্ম এল ভাই,
Knock knock leave IGC, ধুস! এবার কোথায় যাই!

কী অদ্ভুত, যত কিম্ভুত, আমরা ছাত্রদল—
No one here, oh dear, একলা তবে চল।

আসছে NAAC Peer team, রক্ত হিম
Film তৈরি ঘর সাজানো চলছে ভীষণ বেগে
ওরে শোন, ঘুম নেই চোখে, সবাই রাত্রি জেগে।

NAAC চলে গেল, Farewell এল, প্রস্তুতি বিদায় জানাবার
Good bye Seniors, ভালো থেকো সব্বাই, দেখা হবে ঠিক একবার।

Fix your goal, খালি শোর গোল, Media lab চাই,
থার্মোকল, রং, আমাদের ঢং, সাপোর্টিং 'খাই খাই'।

অবশেষে শেষ, আহা বেশ বেশ, মিডিয়া ল্যাব ইনঅগারেশন,
ভারচুয়াল এডিটিং, সামনে কর্তৃপক্ষ, উফ! কি টেনশন!

Successful, come down cool, সবশেষে সিঙারা মিষ্টি
উঁচিয়ে কলার, কি আছে বলার, মিডিয়া ল্যাব, CJMC-র সৃষ্টি।

এ বাবা! এ কি হাল! আবার ইন্টারনাল, কী করি তো বলো,
যদি পাই বাজে মার্কস, কারুর ডায়লগ— 'তাতে কি আর এসে গেল!'

নবীন বরণ, শিক্ষক দিবস— সাইনাথ, হিরোসিমা
ধ্বংস জাপান, মহান আমেরিকা, বিশ্বাসঘাতক, অ্যাটোমিক বোমা।

আবার ক্রনিকল্, শেষ ক্রনিকল্, সময় এসেছে যাবার,
ভয় কি আছে, মাথায় উপর CJMC, রয়েছে সোনার কত জুনিয়র।

শেষ 'আনন্দবাজার',
স্টল ইনস্টলেশন, ছেলেগুলো ধরবে জায়গা,
মেয়েগুলো আনবে খাবার, ক্রনিকল্ বিক্রি আবার।

আগমনীর গানে ঢাকের তালে তালে—
আনন্দে ভরপুর আমাদের 'আনন্দবাজার'।

—অঞ্জনাভ রায়

Independence Day Celebrations

Lokesh, Srawani, Soumita : The 69th Independence Day was celebrated at Vinaya Bhavana playground in Visva-Bharati. For the first time in the history of Visva-Bharati, a total of nine contingents of various wings of NCC participated in the Independence Day parade. The chief guest of the occasion was Vice-Chancellor Prof. Sushanta Dattagupta. The judges, Prof. Sudhendu Mondal, Provost, Siksha Bhavana, Dr. D. Gunasekaran, former Registrar, Visva-Bharati, Shri Pankaj Datta, former NCC Officer, Visva-Bharati were present to adjudge the best parade contingents among all. The best contingent of Republic Day 2015 was awarded to the Physical Education Department. Honourable Vice-Chancellor, felicitated the winning contingent of Republic Day parade 2015. Pro Vice-Chancellor Swapan Kr. Datta and Officiating Registrar (present) Dr. (Col.) M.M. Mitra, Director, PSNS felicitated the other participants of the parade. Prof. Ashok Kumar Goon, Head, Department of Physical Education received the winning trophy. Honourable Vice-Chancellor addressed the gathering, marking an end to the programme.

Goa Governor Visits Visva-Bharati

Ms. Mridula Sinha, Governor of Goa, visited Visva-Bharati on 4 May, 2015. She came to Visva-Bharati to deliver a special lecture on '*Bharatiya Jivan-Mulya Ebam Naari Ki Bhumika*' organised by Hindi-Bhavana. ***Photo : CJMC Bureau***

CJMC Students' Achievements

Arpita, Shruti : In spite of being one of the youngest academic departments of the varsity, Centre for Journalism and Mass Communication has successfully added many feathers to its cap within a very short span of time.

This June, five alumnus of the department qualified the UGC NET exam for December - Deepa Rani (PG batch 2006), Debastuti Dasgupta (research scholar), Purabi Das (PG batch 2009), Nishant Gupta (PG batch 2014) and Ayesha Mollah (PG batch 2014).

Apart from this, three young talents of the PG batch (2014-2016) did exceedingly well at the Intra University Level Youth Fest 2015 namely Lokesh Chakma (3rd Prize for poster making), Bishakha Dutta (2nd Prize for debate) and Archisman Chakraborty (3rd Prize for mimicry).

Furthermore, a few students from the PG batch (2013-2015) - Dipti Laha, Seema Chakraborty and Mrittika Dey qualified for the Gandhi Fellowship in March 2015.

Along with this, CJMC began its collaboration with Peoples' Archive of Rural India (PARI), led by the renowned journalist P. Sainath, with Sinchita Maji (PG batch 2014) earning the first PARI fellowship from the eastern region in March this year. The deparment is looking forward to achieve more such landmarks in the near future.

CWS Seminar

Bishakha, Sushmita : A seminar on 'Discourses on Gender and Migration' was organised by the Centre for Women's Studies on 7 August. The speakers were Prof. Nirmala Banerjee, Centre for Studies in Social Studies, Kolkata, Prof. Samita Sen, School of Women Studies, Jadavpur University, Prof. Ipsita Chanda, Comparative Literature, Jadavpur and Dr. Indrani Mazumdar, Centre for Women Development Studies, Delhi. They spoke on gender aspects of population movement from different perspectives. Prof. Meena Gopal, TISS, Mumbai and Prof. Tapati Mukherjee, Provost, CCR&H ended the seminar with a lively discussion.

Cultural Exchange Programme between Sri Lanka and Visva-Bharati

Angshuman, Bahnisikha, Srawani : The students of Hillwood College, Kandy, Sri Lanka, presented a cultural programme on 16 August at Lipika auditorium. Vice-Chancellor Prof. Sushanta Dattagupta was the chief guest on this occasion. They visited Santiniketan as a part of the students exchange programme between Visva-Bharati and Hillwood College (Sri Lanka).

The hour long programme consisted of songs and dances.

...from 1st page

VB Proud

Annada Shankar Roy

Powerlifter Koustabh Ghosh

Powerlifting Championship to be held in Vancouver, Canada from 30 Nov. – 6 Dec., 2015. Prof. Sabujkoli Sen, Provost, SEI&RR informed VB Chronicle about this outstanding performance of Koustabh. In other achievements, few final year B. Sc. (Ag.) Honours. students bagged ICAR - Junior Research Fellowship Awards this year from the departments of Agricultural Economics, Agricultural Extension, Agricultural Statistics and Bio-Technology.

Ayurveda Workshop

Poulami, Baisakhi : A 15-day workshop on 'Ethnomedicine and Documentation' has been organized by the Department of Lifelong Learning and Extension in collaboration with the Anthropological Survey of India. The event was inaugurated on 28 September 2015 by Pro-VC Prof. Swapan Kr. Datta, Provost SEI&RR Prof. Sabujkoli Sen, SDPO of Bolpur, Amlan Kusum Ghosh at the Kankutia Community Hall, Sriniketan. Dr. Sujit Pal, Associate Professor, Rural Extension Centre, mentioned that the motive behind conducting this workshop was to create an awareness regarding the necessity and preservation of traditional medicines. Prof. Sabujkoli Sen informed that this training is being provided to 27 tribal women and 3 tribal men by 6 instructors. The whole event is being documented to bridge the gap between ancient Ayurveda and modern society.

Silpotsava 2015

Supriti, Shruti : Silpotsava was observed at Sriniketan on 18 September. Prof. Mihir Ghosh, ex-Professor of Silpa Sadana was the chief guest. Paper work artist Sanjib Mukhopadhay was felicitated by the Vice-Chancellor Prof. Sushanta Dattagupta on this occasion.

Prof. Ghosh elaborately described the history of Silpotsava and Vice-Chancellor discussed about the relevance of Silpotsava connecting it with nature.

রবীন্দ্রসপ্তাহ

'কৃষিচিন্তায় রবীন্দ্রনাথ একশো বছর আগে একশো বছর এগিয়ে ছিলেন'— রবীন্দ্র সপ্তাহের প্রথম সন্ধ্যায় 'রবীন্দ্রনাথ ও কৃষিচিন্তা' শীর্ষক আলোচনা সভায় এই ধারণাকেই বক্তব্য এবং উপস্থাপনার মধ্যে দিয়ে ফুটিয়ে তোলেন বিশ্বভারতীর সহ-উপাচার্য অধ্যাপক স্বপন কুমার দত্ত। উক্ত আলোচনায় সভাপতিত্ব করেন উপাচার্য অধ্যাপক সুশান্ত দত্তগুপ্ত। রবীন্দ্রসপ্তাহের দ্বিতীয় দিনে লিপিকা সভাগৃহে 'ভাষার মধ্যে ভাষাতীত : আমার রবীন্দ্রনাথ' শীর্ষক আলোচনা সভায় বক্তা হিসেবে উপস্থিত ছিলেন অধ্যাপক উদয়নারায়ণ সিংহ এবং অধ্যাপক অভিজিৎ সেন।

রবীন্দ্র সপ্তাহের তৃতীয় দিনে 'Songs of Rabindranath Tagore in the West'– এই আলোচনায় বক্তা হিসেবে উপস্থিত ছিলেন শ্রী অর্ধেন্দু বন্দ্যোপাধ্যায় এবং সভাপতি ছিলেন বিশিষ্ট বিজ্ঞানী পার্থ ঘোষ। 'রবীন্দ্রনাথ এবং গবেষক আর্থার গেদে-র মধ্যে সম্পর্ক' এই ছিল সভার মূল আলোচ্য বিষয়। রবীন্দ্র সপ্তাহের চতুর্থ দিনে অন্যতম মূল আকর্ষন ছিল 'Rabindra Sangit and Poem Archive'. এই সভায় সভাপতিত্ব করেন হিন্দুস্থানী রাষ্ট্রীয় সংগীতের অধ্যাপক মোহন সিং খাংগুরা। বক্তা চক্ষু বিশেষজ্ঞ ডাক্তার পূর্ণেন্দু বিকাশ সরকার গীতবিতান আরকাইভ নির্মাণ বিষয়ে আলোকপাত করেন।

পঞ্চম দিনে 'রবীন্দ্র পাণ্ডুলিপি' শীর্ষক আলোচনা সভায় বক্তা অমিত্রসূদন ভট্টাচার্য পাণ্ডুলিপি পাঠ ও গবেষণার প্রয়োজনীয়তার কথা বলেন। রবীন্দ্র সপ্তাহের শেষ দিনে 'Rabindranath and Visva-Bharati Publication'-এর উপর বিশ্বভারতীর গ্রন্থন বিভাগের অধিকর্তা ডঃ রামকুমার মুখোপাধ্যায় আলোকপাত করেন। আলোচনা সভার সভাপতি অধ্যাপক সুধেন্দু মণ্ডল জানান যে রবীন্দ্রনাথ, প্রকাশনার ক্ষেত্রে উপন্যাস, কবিতা-র পাশাপাশি শিক্ষা বিষয়ক লেখাকে সবসময় সমান গুরুত্ব দিতেন।

তথ্য সংকলন : **অঞ্জনাভ, অংশুমান, শ্রাবণী, রিয়া ভট্টাচার্য, সুস্মিতা, বহ্নিশিখা, পৃথা, ইন্দ্রাণী, সুনিপা, পৌষিতা, রচয়িতা, রিয়া দে, লোকেশ, বৈশাখী, দেবাশ্রিতা।**

P. Sainath on Ethics of Journalism

Debayan, Anjanabha, Sagarika : Centre for Journalism and Mass Communication and Department of Economics and Politics jointly organised a special lecture of Ramon Magsaysay award winning journalist P. Sainath on 'Hiroshima 70 years after : How a bomb in 1945 changed Media and Journalism forever' on 3 September. The lecture started with the welcome note by Dr. Mausumi Bhattacharyya, In-Charge, CJMC followed by the speaker's introduction by Prof. Sudipta Bhattacharya, Department of Economics and Politics. Prof. Swapan Kr. Dutta, Pro Vice-Chancellor presided over the lecture with his insightful inputs regarding the media coverage of the Hiroshima and Nagasaki bombings.

Photo : Pousita

Sainath started his lecture with focusing on how the bombing at Hiroshima and Nagasaki on 6 and 9 August 1945 respectively, changed the media scenario across the globe. He lucidly described the role of the journalists John Hersley, and William Lawrence who was deployed by the US government for publisizing the 'Manhattan Project' during the war. He also elucidated on the history of paid journalism and how this entire event was projected by the media as a technological miracle instead of the biggest devastation in human history. Thus, marking the birth of paid news which still infests mass media today. Sainath narrated how the US government had assigned twenty one reporters to cover the war, who were just the spectators under the leadership of Lawrence. Their reports focused more on the strength of the bombs rather than the death toll. Sainath also mentioned about an Australian journalist Wilfred Burchett who lost his citizenship for reporting the truth. The lecture was insightful and highly appreciated by the dignitaries and the students alike.

Odia Dept: Centre for Excellence

Madhumanti : The Department of Odia, Visva-Bharati has been recognized as a 'Centre for Excellence' by the Ministry of Tribal Affairs, Government of India for a period of four years from 2014-2017. The Director and Coordinator of the entire project is Prof. Sabita Pradhan, Odia Dept. The main objective of the Centre is to conduct research on Tribal Languages and Tribal Literature. Hence, initiatives will be taken by the Centre to build archives on the same. Comparative Literary Studies in Odia, Bangla, and Assamese will also be conducted by the Centre. Prof. Manoranjan Pradhan, Head of the Odia Department also informed *VB Chronicle* that the Ministry has approved a grant of Rs.2 crores and 93 lakhs for this project.

শারদোৎসব

অঞ্জনাভ, কাজল : এবারের শারোদৎসবের সূচনায় গত ২৩ সেপ্টেম্বর নাট্যঘরে শিক্ষাসত্রের ছাত্ররা রবীন্দ্রনাথের 'রথের রশি' নাটকটি মঞ্চস্থ করে। ২৬ সেপ্টেম্বর ভাষাবিদ্যা ভবনের উপস্থাপনা 'নিমকেতু' নাটকটি দর্শকরা ভীষণ উপভোগ করেন। এরপরদিন ছিল রবীন্দ্রনাথ ঠাকুরের ছোটগল্পের অনুপ্রেরনায় বিনয় ভবনের নাটক 'দালিয়া'। সঙ্গীত ভবনের 'ভূতপত্রীর যাত্রা' নাটকটি বিশেষভাবে উল্লেখযোগ্য। ২৯ সেপ্টেম্বর শিক্ষাসত্রের নাটক 'বনের পাখি' মঞ্চস্থ হয়। পাঠভবনের 'শারদোৎসব' নাটকটি বিশেষভাবে উল্লেখ্য কারণ রবীন্দ্রনাথ রচিত এই নাটক নতুন আঙ্গিকে তারা উপস্থাপিত করে। পরেরদিন পাঠভবন মঞ্চস্থ করে 'চম্পাবতী'। আলাপিনী মহিলা সমিতির নাটক 'মানময়ী গার্লস্ স্কুল' একটি ভিন্ন স্বাদের উপস্থাপনা। শিক্ষাভবনের 'গোরুরগাড়ির হেডলাইট' নাটকটি ছিল হাস্যরসে ভরা। পল্লীশিক্ষা ভবনের নাটক 'যা দেখছেন সবটাই নাটক' ছিল দর্শকদের কাছে একটু অন্য স্বাদের উপস্থাপনা। ৫ অক্টোবর 'পিলপিলি সাহেবের টুপি' নাটকটি মঞ্চস্থ করে পল্লী সংগঠন বিভাগ। শেষ দিন কর্মি পরিষদের নাটক 'বক-বধ পালা' ছিল খুবই মনোগ্রাহী। শারদোৎসব শেষের পর শুরু হয় পশ্চিমবঙ্গ নাট্য আকাদেমি ও বিশ্বভারতীর যৌথ উদ্যোগে পাঁচদিন ব্যাপী নাট্যোৎসব।

MoU : Visva-Bharati & Vivekananda University

Kajal, Priya, Sanchari : Visva-Bharati and the School of Indian Heritage, Ramkrishna Mission Vivekananda University signed a Memorandum of Understanding (MoU) on 24 March, 2015. The purpose of this MoU included study of Sanskrit, promotion in the area of Translation studies, to bring out publications on the thoughts of Tagore and Vivekananda and others.

Dr. Ramkumar Mukhopadhyay, Director, Granthana Vibhaga who has been entrusted with the responsibility of implementing this MoU, has emphasized on the importance of same. He said, "I personally feel that research should be done on the thoughts of Rabindranath and Vivekananda and we need to spread their ideologies to the entire world by translating them in as many languages as possible with a definite plan and within specific time frame."

In this context, it must be mentioned that Dept. of Education, Vinaya Bhavana had also signed a MoU with Ramkrishna Mission Teachers Training Institute, Belur regarding development of syllabus of B.Ed and M.Ed courses.

Santiniketan PS

Supriti, Shruti : A new police station was inaugurated by the Chief-Minister of West Bengal, Mamata Banerjee on 18 September, 2015 at a programme held in Nabanna, Howrah. Apart from Santiniketan, this police station will also cater to three Gram Panchayats which include Ruppur, Kankalitala and Albanda. The SDPO of Bolpur Amlan Kusum Ghosh stated that the police station will be at service of the localities living in this area 24×7.

বিশ্বভারতীতে কোরিয়া ভবন

অনন্যা, অংশুমান : বিশ্বভারতীতে নির্মাণ হতে চলেছে কোরিয়া ভবন। বিশ্বভারতীর উপাচার্য অধ্যাপক সুশান্ত দত্তগুপ্ত এবং প্রোভোস্ট অধ্যাপিকা সবুজকলি সেন গত ১ জুন "টেগোর সোসাইটি অব কোরিয়া"-র সভাপতি কিম ইয়ান সিম-এর সাথে মৌ-স্বাক্ষর করেন দক্ষিণ কোরিয়ার সিওলে। প্রধানত কোরিয়ার ভাষা ও সংস্কৃতি চর্চার তাগিদে এই ভবন নির্মাণের সিদ্ধান্ত নেওয়া হয়েছে। 'যত্র বিশ্বং ভবতে এক নীড়ম'— রবীন্দ্রনাথের এই ভাবনাকে বাঁচিয়ে রাখার অনন্য প্রয়াস হতে পারে এই কোরিয়া ভবন যেখানে কোরিয়ার ভাষা পাঠ ও সংস্কৃতির চর্চা করা হবে।

'Gender Fair' at CJMC

Debasrita, Sujala : CJMC in collaboration with Friedrich Ebert Stifung (FES) presented a mega event on 'Gender Concerns and Youth' on 5 October 2015. Debasish Mazumdar, Head-Finance and Accounts (FES), Mandvi Kulshrestha, Project Manager, FES, Yagna Parmar, Amrita De, members of Vacha (Mumbai) were the dignitaries present for this occasion. The event started with the screening of a film 'Ek Chingari ki Khoj Mein' which dealt with social evils followed by an open discussion conducted by the representatives of Vacha along with an engaging 'Gender Fair' for the first time here. Different

Photo : Pousita

game stalls were setup at the fair, to spread gender awareness followed by a major panel discussion on 'Media, Gender Potrayal and Social Justice' moderated by Dr. Mausumi Bhattacharyya. The panelists for the session were Prof. Tapati Mukherjee, Dr. Saswati Gangopadhyay, Burdwan University and Prof. Ananya Chakaraborti, Vice President of the IAWRT. Pro-VC Prof. Swapan Kr. Datta encouraged the participants by his gracious presence. The final event for the day was screening of 'Camera / Woman' film by Karima Zoubir, Morocco. The event ended with a vibrant interactive session with Prof. Ananya Chakraborti.

Smarane Barone

Baisakhi, Madhumanti : To commemorate the 148th birth anniversary of Gaganendranath Tagore, a programme entitled *Smarane Barone* was held at *Udayan Griha* on 19 September, 2015. The speaker for the evening was Prof. R. Shiva Kumar, Head of Art History Department, Kala Bhavana. The session was presided over by the Vice-Chancellor Prof. Sushanta Dattagupta and Provost CCR&H, Prof. Tapati Mukherjee was the Coordinator.

Vriksharopana

Srawani, Monami : This year the *Vriksharopana Utsav* was held on 8 August at the new Bhasa Vidya Bhavana premises. The ritual started with the arrival of a colorful procession with a sapling in a decorated palanquin accompanied with the recital of songs by Sangit Bhavana students. Prof. Sushanta Dattagupta planted the sapling and then the ritual came to an end. This event was followed by Gurudev 'Smaran' which was held at the Lipika auditorium.

Halakarshana

Ajit, Ankan : Visva-Bharati observed the 88th *Halakarshana* at Sriniketan on August 9, 2015, where VC Prof. Sushanta Dattagupta tilled the land following the usual tradition. He addressed how *Halakarshana* festival bears testimony to Gurudev's understanding of science and nature. Swami Tatmaswarananda Maharaj, Principal, Ramakrishan Mission Siksha Mandir, Belur was the chief guest for this session and he was mesmerised by the uniqueness of this event. In his speech, Swamiji talked about spreading the ideas of Tagore as it is the need of the hour.

Distinguished Lecture Series with MEA

Role of India in BRICS

Riya Dey, Soumita, Srawani : Former Ambassador Dilip Sinha spoke on 'Role of India in BRICS' at the first lecture of the distinguished lecture series organised by CJMC in association with Ministry of External Affairs (Public Diplomacy Division) on 18 April. The session was chaired by Pro-VC Prof. Swapan Kr. Datta.

Photo : CJMC Bureau

Mr. Sinha started his lecture by narrating how the concept of BRICS (Brazil, Russia, India, China and South Africa) emerged. In 2007-08 when global financial crisis occurred, while the advanced economies suffered, BRICS countries remained almost unaffected. The financial crisis compelled the BRICS nations to coordinate and the first summit was organised in 2009 in Russia as a reaction to the financial crisis. While discussing India's role in BRICS, he mentioned how the proposal to set up New Development Bank, Academic Forum and Think Tank Council was given by India at the New Delhi Summit in 2012. Pro-VC meticulously summed up the session by mentioning that the future of BRICS may result in reorganization of the existing structure or setting of a rival structure.

Disarmament & Global Security

Sramana, Debarati : CJMC in Association with the Ministry of External Affairs (Public Diplomacy Initiative) organised the second lecture of the prestigious distinguished lecture series on 21 August at the Bhasa Bhavana Conference Hall. The speaker former Ambassador Bhaswati Mukherjee spoke on 'Disarmament and International Security : India's quest for global peace and security through UN'. The session was presided over by Vice-Chancellor Prof. Sushanta Dattagupta.

Photo : CJMC Bureau

The lecture started with the discussion of the role of United Nations in International Affairs, post failure of the League of Nations followed by issues related to the weapons of mass destruction, devastation of Hiroshima and Nagasaki, Universal Declaration of Human Rights, impact of apartheid in South Africa etc. She emphasized upon the permanent membership of India in the UN Security Council. This was followed by a lively interaction. Prof. Dattagupta concluded the session with a brilliant presidential remark and reiterated the speaker's words– peace does not follow disarmament, disarmament follows peace.

International Yoga Day

Archisman, Supriti, Monami : International Yoga Day was celebrated on 21 June, 2015 by the Yoga and Meditation Centre of Visva-Bharati where various events were organized throughout the day under the leadership of Dr. (Col.) M. M. Mitra, present Officiating Registrar. This was an initiative to enhance awareness among the students about yoga and it's relevance in today's life. Visva-Bharati observed this event as per the direction issued by the MHRD. The university students, staff members, faculty members actively took part in this occasion to make this event successful.

Barshamangal

Arpita, Sujala : Barshamangal was celebrated to welcome the monsoon season on 16 August 2015 at Natyaghar like every year. Tagore's songs and dances were performed on this occasion. The students from nearby villages and other educational institutes of Bolpur also participated in this programme.

Freshers' Welcome for International Students was organised by Foreign Students' Assistance Cell under the guidance of Prof. Aruna Mukherjee, Advisor Foreign Students' Assistance Cell on 8 October. The Chief Guest for the ocassion was Provost CCR&H, Prof. Tapati Mukherjee.
(***Photo : Angshuman***)

Cheena Bhavana Conference

Angshuman, Baisakhi : A two-day International Conference was held at Cheena Bhavana on 26-27 September in collaboration with the Institute of Chinese Studies (ICS), Delhi in partnership with Association of ASIA Scholars (AAS) on "Civilizational Interface between India and China : Opportunities and Challenges in South and South-East Asia." The inaugural session was chaired by Provost CCR&H, Prof. Tapati Mukhopadhyay. The welcome address was delivered by Dr. Avijit Banerjee, Head, Cheena Bhavana. Other guests present were– Prof. Kailash Pattanaik, H. E. Ma Zhanwu, Consul-General of Peoples' Republic of China in Kolkata, Dr. Reena Marwah, Secretary General, AAS, New Delhi, Prof. Sreemati Chakrabarti, Vice-Chairperson, ICS.

২২শে শ্রাবণে বিশ্বভারতী

সুপ্রীতি, শ্রুতি : এবারের ২২শে শ্রাবণের উপাসনা ভাষণে উপাচার্য অধ্যাপক সুশান্ত দত্তগুপ্ত রবীন্দ্রনাথের 'কসমিক চেতনা ও চিন্তাধারার সূত্র'-এর উপর আলোকপাত করেন। এছাড়া তিনি 'জীবন ও মৃত্যুর' চেতনা নিয়েও বিশেষ উল্লেখ করেন।

এদিনের পরবর্তী অনুষ্ঠানে উদয়ন গৃহে শান্তিনিকেতন থেকে রবীন্দ্রনাথের শেষ যাত্রার 'ফোটোগ্রাফ' বা 'চিত্র' নিয়ে 'হে মহাজীবন, হে মহামরণ' শীর্ষক প্রদর্শনীর আয়োজন করা হয়। এ প্রসঙ্গে রবীন্দ্রভবনের অধ্যক্ষ তপতী মুখোপাধ্যায় জানান যে প্রদর্শনীটি উদয়ন গৃহে আয়োজন করার একটি বিশেষ কারণ আছে। উদয়নগৃহই হচ্ছে সেই বাড়ি যেখান থেকে ১৯৪১ সালে ২৫ জুলাই রবীন্দ্রনাথ শান্তিনিকেতন থেকে শেষযাত্রা করেন।

এই বিশেষ অনুষ্ঠানে বিশ্বভারতীর দুটি বই ও তিনটি পত্রিকা ভারত সরকারের সংস্কৃতি মন্ত্রকের আনুকূল্যে রবীন্দ্রনাথের কালানুক্রমিক রবীন্দ্ররচনাবলীর তৃতীয়খণ্ড; 'Rabindranath Tagore and His Circle'; 'বিশ্বভারতী কোয়ার্টারলি'-র এবছরের প্রথম সংখ্যা প্রকাশ করেন উপাচার্য অধ্যাপক সুশান্ত দত্তগুপ্ত। এছাড়াও প্রকাশিত হয় 'বিশ্বভারতী নিউজ'-এর দ্বিতীয় সংখ্যা; এবং রবীন্দ্রভবনের নিজস্ব পত্রিকা 'রবীন্দ্রবীক্ষা'। এরপর গ্রন্থাগারের 'অনলাইন সেল' ব্যবস্থার উদ্বোধন করেন উপাচার্য।

পরবর্তী অনুষ্ঠানে, দক্ষিণায়নে নাট্যকাব্য চিত্রাঙ্গদা ও নৃত্যনাট্য চিত্রাঙ্গদার কালগত ৪৫ বছরের সুদীর্ঘ অন্বেষণ-এর উপর একটি বিশেষ প্রদর্শনীর আয়োজন করা হয়।

এই অনুষ্ঠানে প্রয়াত বিশিষ্ট রবীন্দ্রসঙ্গীত ব্যক্তিত্ব সুভাষ চৌধুরীর সংগ্রহ থেকে প্রায় ১৩০০টি বই তার পরিবারের পক্ষ থেকে দক্ষিণায়নের গ্রন্থাগারে তুলে দেওয়া হয়। ওইদিনই দক্ষিণায়ন থেকে বিশ্বভারতীর গ্রন্থনবিভাগের প্রকাশনায় প্রকাশিত হয় অপ্রচলিত প্রথম স্বরলিপির পাঠ ও গীতরূপ 'বাল্মীকি প্রতিভার' সিডি।

Hon'ble President's Online Address

Sanchari, Madhumanti : Hon'ble President of India, Visitor of Visva-Bharati, Shri Pranab Mukherjee, addressed the faculty members and students of Central Universities and Institutions from the Rashtrapati Bhavan through video conferencing using National Knowledge Network (NKN) on August 10 on 'Energizing the Higher Educational Institutes in India'. The higher officials of Visva-Bharati along with the faculty members and students attended the enlightening video conference session at the Computer Centre at 12:30 hrs. It continued for about an hour. In the session, the President emphasized upon how Democracy can be preserved by India's youth. He also stressed upon the utilization of the latest digital technologies by the younger generation for a lifelong learning process.

স্নাতকস্তরে ভর্তির পদ্ধতিতে বদল

বিশাখা, পৃথা : বিগত কয়েকবছর ধরে চলতে থাকা কমন অ্যাডমিশন টেস্ট বা VBCAT-এর বদলে এই বছর প্রথম উচ্চমাধ্যমিক বা সমতুল পরীক্ষার প্রাপ্ত নম্বরের ভিত্তিতে বিশ্বভারতীতে স্নাতকস্তরে ছাত্র ভর্তি হয়েছে। VBCAT-এ সারা ভারত জুড়ে ঊনিশটা পরীক্ষা নেওয়ার কেন্দ্র রাখা হত এবং পরীক্ষার প্রাপ্ত নম্বরের ভিত্তিতে মেধাতালিকা প্রকাশ করা হত। নতুন নিয়ম অনুযায়ী কেন্দ্রীয় বা রাজ্য সরকারী বোর্ড থেকে পাশ করা ছাত্র-ছাত্রীরা উচ্চমাধ্যমিক বা সমতুল পরীক্ষায় যে চারটি বিষয়ে সর্বোচ্চ নম্বর পেয়েছে এবং যে বিষয়ে অনার্স নেবে তার নম্বর যোগ করে মেধাতালিকা প্রকাশ করা হয়েছিল। এই বছর অ্যাডমিশন কোঅর্ডিনেশন সেল পরীক্ষামূলকভাবে এই প্রক্রিয়া চালু করেছে।

Kala Bhavana Workshop

Lokesh, Monami : A three-day international level Inter-College Students' Workshop was organised by Kala Bhavana on "Black House : A Workshop on Architecture" from 17-20 March. Many institutes participated in the workshop from across India and abroad. The workshop was inaugurated by VC, Prof. Sushanta Dattagupta. He also released a book on Kala Bhavana, entitled, "Kala-Bhavana : An Overview" during the workshop.

CJMC's first collaborative workshop with PARI

Soumita, Anjanabha, Lokesh : A two-day workshop was organised by the Centre for Journalism and Mass Communication in collaboration with the People's Archive of Rural India (PARI) on 3–4 September at the CJMC Media Lab (CJMC Workroom), New Bhasa-Vidya Bhavana. For the very first time PARI is collaborating with a Mass Communication department in India.

Magsaysay award winning journalist P. Sainath spoke about the aim of PARI and emphasized upon the necessity to archive the rural culture and tradition of India which are on the verge of extinction.

Photo : Pousita

Sainath also watched the documentary films made on different subjects by the CJMC PG students. He appreciated their work and further gave his own inputs and suggestions on how to make the documentaries more interesting in order to capture the attention of the viewer. He invited the students to actively participate and contribute their work for PARI and enrich the archive. Sinchita Maji, ex-student of CJMC and a PARI fellow, showed her documentary film for PARI. Sainath also exhibited some teasers of newly made documentaries and the newly added sections on the PARI website.

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Sainath: CJMC interns for PARI

10 messages

P. Sainath <psainath@gmail.com> Wed, May 25, 2016 at 6:33 PM
To: Mausumi Bhattacharyya <mausumibht@gmail.com>, Namita Waikar <namita.waikar@gmail.com>

To
Dr. M. Bhattacharyya
Eastern Zonal Coordinator PARI &
Associate Professor
Centre for Journalism & Mass Communication
Visva Bharati

Dear Mausumi,

As always, I found my time with the students, going over their work with them in the studio, exhilarating. These are wonderful students and you have done a great job of nurturing them. I write now to say that we at PARI are taking on the following students as paid interns for a period of upto two months. We have had innumerable applications for internships from students at IIMC, SCM Sophia, ACJ, TISS and at least 10-12 other places. Of these we have taken one from ACJ, one from TISS, one from Ashoka University Journalism department and nine from CJMC ! There are also other unpaid volunteer interns, but all those from CJMC will receive an honorarium. Two of your students Anjanabha Roy and Pousita Datta will work on assignment basis for PARI, as was discussed.

Having looked at their work and their group dynamics, I felt it best to pair them up in teams of two members each, barring Ananya Chakraborty, whose film for PARI requires only a month's work. I had discussed the team idea with them, too. I think it will work very well. As PARI's Eastern Region Coordinator, you'll have to organise them and their output - which we will be happy to carry on PARI if it keeps to the same quality and standards I have seen these past two years. I shall, of course, be in the loop and coordinate with you.

1. Lokesh Chakma, Debayan Bhadury - Group 1
2. Sagarika Basu, Bishakha Datta - Group 2
3. Angshuman Das Mahapatra , Ajit Mandol - Group 3
4. Supriti Singha, Sramana Sengupta - Group 4
5. Ananya Chakraborty (one month)

Looking forward to this collaboration. They can start work from June 1. I will be sending the internship offer to all those named above, too.

I am CCing PARI's Managing Editor Namita Waikar on this mail.

thanks and regards

P. Sainath
Founder-Editor PARI

Mausumi Bhattacharyya <mausumibht@gmail.com> Thu, May 26, 2016 at 1:04 PM
To: Biplab Lohochoudhury <blcpal@gmail.com>, Biplab LohoChoudhury <prof.biplablohochoudhury@gmail.com>
Cc: Sanhita Chatterjee <sanhita.chatrg@gmail.com>, Sanhita Chatterjee <sanhita.chatterjee@visva-bharati.ac.in>, Chandranath Bandhhopadhyay <cnbbirbhum@gmail.com>, samantasougata1@gmail.com, hiranmoy07@gmail.com

To
Prof Biplab Loho Chowdhury
In Charge
CJMC
Visva-Bharati

Dear Prof Biplab Loho Chowdhury,

It gives me immense pleasure to convey you that nine of our students (2014-2016 MA batch) have been selected as People's Archive of Rural India Interns, 2016 as a part of our collaboration with PARI (which was appreciated and approved by the CJMC BOS on June 12, 2015). The interns will be paid honorarium too. As you know, Mr P Sainath, Founder Director, PARI visited CJMC on May 19-20, 2016 for taking internship interview of our students and he is extremely happy with the performance of our students.

Forwarding Mr Sainath's letter to you.

Warm regards,

Mausumi Bhattacharyya

> Begin forwarded message:
> [Quoted text hidden]

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sanhita.chatrg@gmail.com <sanhita.chatrg@gmail.com> Thu, May 26, 2016 at 5:06 PM
To: Mausumi Bhattacharyya <mausumibht@gmail.com>
Cc: Biplab Lohochoudhury <blcpal@gmail.com>, Biplab LohoChoudhury <prof.biplablohochoudhury@gmail.com>, Sanhita Chatterjee <sanhita.chatterjee@visva-bharati.ac.in>, Chandranath Bandhhopadhyay <cnbbirbhum@gmail.com>, samantasougata1@gmail.com, hiranmoy07@gmail.com

Great news!

[Quoted text hidden]

Biplab Lohochoudhury <blcpal@gmail.com> Thu, May 26, 2016 at 5:21 PM
To: Mausumi Bhattacharyya <mausumibht@gmail.com>

Congrats Mausumi . Kudos to selected students.
Biplabda
[Quoted text hidden]
--
Prof.(Dr.) Biplab Loho Choudhury
Center For Journalism & Mass Communication
Visva - Bharati, Santiniketan
West Bengal, India
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Media Organization Management (Unique, 2008),
Indian Paradigm of Development:
Man Standard & Communication (Sampark, 2011),
Nabomadhyamer Rooprekha (Bengali Outline of New Media),
(West Bengal State Book Board, 2013)
Editor (Jt):
Media & Communication Issues & Practices (CBEP, 2014)

Sougata Samanta <samantasougata1@gmail.com> Thu, May 26, 2016 at 11:32 PM
To: Sanhita Chatterjee <sanhita.chatrg@gmail.com>
Cc: Mausumi Bhattacharyya <mausumibht@gmail.com>, Biplab Lohochoudhury <blcpal@gmail.com>, Biplab LohoChoudhury <prof.biplablohochoudhury@gmail.com>, Sanhita Chatterjee <sanhita.chatterjee@visva-bharati.ac.in>, Chandranath Bandhhopadhyay <cnbbirbhum@gmail.com>, Hiranmoy <hiranmoy07@gmail.com>

wanderful news
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MCSD – 2019

Asian Congress for Media & Communication, India Chapter's 2nd International Conference
On
Media & Communication in Sustainable Development

Organized by: Centre for Journalism and Mass Communication, Visva-Bharati, Santiniketan, India

Dates: February 11-13, 2019

Venue: Visva-Bharati, Santiniketan, Birbhum, West Bengal, India

About Asian Congress for Media and Communication

The Asian Congress for Media and Communication (ACMC) is a Philippine-based international professional organization for media, communication, and language education working through different country chapters. Our role and engagements are fundamentally oriented to a society of change as a venue for mobilizing intellectual capital and building networks and linkages.

ACMC India Chapter is involved in promoting the cause of improving communication and media education through multifarious activities such as organizing conferences, discourses, workshops and advocating policy changes in communication and information sector. This Chapter is also engaged in taking up causes of opening up work opportunities in government and private sector. Currently, it is headquartered at the Centre for Journalism and Mass Communication, Visva-Bharati, Santiniketan, West Bengal.

About Visva-Bharati, Santiniketan

Visva-Bharati was founded by the Nobel Laureate Gurudev Rabindranath Tagore in 1921 with the vision of imparting quality man-making education to the students. The University has under-tree school from pre-primary to higher secondary as its constituent unit which Tagore founded in 1901. His vision of holistic education through natural progression from childhood to adulthood, and making participatory contribution in the neighbourhood is demonstrated in the activities and programmes of the University. In borrowing the motto of the institution from the Yajur-Veda (Chapter XXXII, Verse 8), i.e., 'yatraviśvaṃbhavatyekanīḍam' (where the world comes in one nest), Gurudev Rabindranath Tagore had envisaged Visva-Bharati as the meeting place of scholars and practitioners from across the globe. In May 1951, the Govt. of India declared Visva-Bharati to be "An Institution of National Importance" and accorded it the status of a Central University through Parliamentary procedure. Till date, the institution continues to draw inspiration from its founder's vision and strive towards academic excellence that may contribute towards human welfare.

About the MCSD Conference

The International Conference on Media & Communication in Sustainable Development is a chain of events inviting interactions from scholarly minds and field practitioners across the globe on theories, policies, innovations and practices in and for sustainable development. The chain commenced in 2016 with the coming together of academics, researchers, prominent practitioners, policy-makers and innovators from ten (10) countries across four continents in different domains of communication studies, politics, traditional and new media, business, information science, volunteerism and their related practices.

In this edition (2019) too, the attendees will interact with a variety of leading researchers, grass-root level communication workers, development organizations, policy-makers and prominent academics in the field. The conference will combine three days of discussions, plenary, paper, poster and panel sessions providing a learning opportunity for both young minds and senior delegates. The conference will be, apart from academics, equally beneficial to social entrepreneurs, policy-makers, communication practitioners and social-marketing strategists. The conference shall present a golden opportunity to all the participants to have a closer understanding of the academic field as well as the policy sector and the market needs.

Conference Objectives

This conference series has been proposed to fulfill the following objectives:

- To recognize and present ideas and experiments from the Communication trans-discipline which may inform and aid programmes for attaining 'Sustainable Development Goals' declared by United Nations organization.
- To explore issues in 'Corporate Social Responsibility' practices and 'Social Marketing' vis-à-vis 'Sustainable Development' at grass-root, national and global levels.
- To explore how the concerns of 'Sustainable Development' can be addressed by 'Community Informatics' and 'Digital Media' interventions.
- To explore avenues of utilizing indigenous knowledge and physical resources in sync with the socio-cultural reality and traditional values of communities towards accomplishing the 'Developing Communities From Within' (1998) that may boost the community happiness index.
- To bring to fore findings and generalizations from researches (both theoretical and applied) in the

broad canvas of 'Devcom' appropriate for the 'pluri-dimensional' concept and reality of 'Ecologically Sustainable Trans-generational Progress' (2011).

Conference Grants

Few ACMC India Grants in the form of registration fee waiver are available to support the participation of deserving young researchers from the developing countries. Please write to us if you need to be considered for a grant to facilitate your participation in the conference. The application needs to be submitted with supporting documents. The process will begin only after a paper has been selected.

Conference Awards

Awards are given to select participants, except those in the committee of the conference and ACMC India Chapter (during any period within last six years) on the basis of jury decision. Each of the best paper awards will carry a citation and a prize. The best paper awards will be announced in the valedictory session of the conference.

Who Should Attend

Participation is strongly encouraged from community of development communicators including:

- Academicians (Faculty & Independent Researchers)
- Research Scholars and Other Students
- Development Journalists
- Folk Media for Development Practitioners
- Print Media Professionals
- Public Service Radio and Community Radio Broadcasters
- Television, Video and Film Professionals
- Information and Communication Technology Practitioners and Scholars
- Mobile Communication Practitioners and Scholars
- Social Media Practitioners and Scholars
- Media Literacy and Media Education Scholars
- Media Campaign and Social Intervention Specialists
- Corporate Social Responsibility Practitioners

Call for Papers/Panel and Mode of Participation

Research papers are invited from researchers and practitioners preferably on any one or more of the following premises (though not strictly limited to them):

- **Perspective Building:** Exploring possibilities of conceptualization and theorizing in different perspectives relevant to the field.
- **Field-Work Studies**: Bringing to fore perception and action studies relevant to the field.
- **Case Studies:** In-depth case studies or meta-analysis of earlier works- case studies and perception and action studies relevant to the field.
- **Experimental Studies:** Reporting relevant experiments conducted at the micro level that may be tested at the macro level for conceptual validity.

Aspiring contributors are welcome to submit abstracts of their proposed papers/posters within 300 words to the conference by **November 20, 2018** at **mcsd2019@gmail.com**.

The abstract should clearly state the aim of the research paper, research question/s considered, method/s used, and brief of findings. The abstracts are expected to be sent only after working on the paper to a significant extent to increase chance of acceptance. All submissions will be sent for blind peer-review.

Please mention '**Abstract Submission'** in the subject line of your email to facilitate speedy blind peer-review. Send all attachments in word file (preferably in Word 2007/2010). Upon the intimation of acceptance of abstract, the full paper (preferably within 4000 words) should be submitted within **December 23, 2018.** Upon the intimation of acceptance of the full paper, camera-ready copy should be submitted within **January 10, 2019**.

All abstracts and papers should be submitted electronically only at **mcsd2019@gmail.com**. Submissions to personal email IDs of conference organizers will not be considered for blind peer-review.

Panel proposals should be addressed to the General Chair of the conference by the proposer indicating which 'conference objective' would be served by the panel discussion. Panel proposals should be sent within **December 15, 2018**.

Format for Abstract/ Paper Submission

Abstracts/full papers must be sent in two separate attachments. The first attachment should include the paper title, author name, position, institution, conference premise to which it belongs, type of research paper and short biography of author (100-150 words). The second attachment should contain only the abstract/ full paper with title. No information revealing the identity of the author should be given in the second attachment.

First Attachment:

a. Paper title
b. Author name, position, institution
c. Conference premise to which it belongs
d. Type of research paper
e. Short biography of author (100 - 150 words)

Second Attachment:

a. Abstract/ full paper with the title

Important Dates

- **Abstract Submission Starts:** November 01, 2018
- **Abstract Submission Ends:** November 20, 2018
- **Abstract Acceptance Note:** November 25, 2018
- **Panel Proposal Deadline:** December 15, 2018
- **Full Paper Submission Deadline:** December 23, 2018
- **Full Paper Acceptance Note:** December 31, 2018
- **Camera-Ready Copy Submission:** January 10, 2019
- **Conference Dates:** February 11-13, 2019

Registration Dates

General participants (without presentation) can register themselves from December 1, 2018 to January 20, 2019. Accepted paper presenters should register themselves within 10 days of the intimation of full paper acceptance but not later than the deadline.

- **Registration Starts (for General Participants):** December 1, 2018
- **Registration Ends (for Paper Presenters):** January 10, 2019
- **Registration Ends (for General Participants):** January 20, 2019

Registration Fees

Registration Fee (International Delegates)			
Media/ Corporate Professionals	**Academicians**	**Research Scholars**	**Students**
175 Euros	**150 Euros**	**75 Euros**	**40 Euros**
USD 200	**USD 170**	**USD 85**	**USD 45**
Registration Fee (Indian and Other South Asian Delegates)			
Media/ Corporate Professionals	**Academicians**	**Research Scholars**	**Students**
Rs. 2500	**Rs. 2000**	**Rs. 1200**	**Rs. 500**

The Registration Fee of the conference includes:

- Entry to all sessions / workshops
- Lunch, Dinner and Coffee breaks at the venue
- Certificate of Paper Presentation/ Participation
- Conference Proceedings (Electronic Copy)
- Conference Badge and Kit
- Conference Gallery (Photo/ Video)

***** Please note that there shall not be any relaxation in the registration fees for participation in absentia. Details of Registration fee payment shall be intimated to the paper presenters after final acceptance of the papers. General participants should express their interest through email for getting the registration fee remittance details.**

ACMC India Conference Organization Team

Advisors

- **Prof. Kiran Prasad**, Dept. of Communication and Journalism, Sri Padmavati Mahila University, Tirupati, India & Secretary for Communication Education, ACMC
- **Prof. Mohammad Sahid Ullah**, Dept. of Communication and Journalism, Chittagong University, Bangladesh
- **Prof. Md Sidin Ahmad Ishak**, University of Selangor, Malaysia; Managing Editor, The Journal of Development Communication

General Chair

- **Prof. Biplab LohoChoudhury**, Centre for Journalism and Mass Communication (CJMC), Visva-Bharati, Santiniketan, India & Country Director, ACMC India

Organising Committee Chairs

- **Prof. Baharul Islam,** Chairperson, Center of Excellence in Public Policy, Indian Institute of Management, Kashipur, India
- **Prof. Vikas Kumar,** Professor & Dean, Faculty of Commerce & Management, Chaudhary Bansi Lal University, Haryana, India

Programme Committee Chairs

- **Prof. B. K. Ravi**, Registrar, Bangalore University, Bangalore, India
- **Prof. R. K. Madhavi Reddy**, Head, Department of Communication and Journalism, Savitribai Phule Pune University, Pune, India
- **Dr. Dev Vrat Singh**, Associate Professor & Head, Department of Mass Communication, Central University of Jharkhand, Ranchi, India

Media and Publicity Chairs

- **Prof. Shivaji Sarkar**, Dean & Director, Journalism & Mass Communication, Mangalayatan University, Aligarh, India
- **Prof. Kripa Shankar Chaubey**, Dean, Mahatma Gandhi International Hindi University (Kolkata Centre), Kolkata, India
- **Prof. Mrityunjoy Chatterjee**, Director, School of Communication, NSHM, Kolkata, India

Conference Secretariat

General queries related to the conference (logistics etc.) may be directed to the Conference Secretariat:

- Mr. Kapil Kumar Bhattacharyya
  Guest Faculty, CJMC, Visva-Bharati, Santiniketan, India; Mobile No.: +91 98303 79825
- Mr. Sayan Sarkhel
  Production Engineer, Visva-Bharati Studio, Santiniketan, India; Mobile No.: +91 80172 72821

**** Any mail regarding general queries should be mailed to acmcindia.internationalevent@gmail.com. For additional information and updates regarding the conference, please visit the Facebook Page: https://www.facebook.com/acmc.conf**

3.7.1 – 7 @ Page (6)

THE GEORGE INSTITUTE | INDIA
for Global Health

George Institute for Global Health

219 - 221, Splendor Forum
Plot No. 3, Jasola District Centre
New Delhi - 110025. India

Telephone +91 11 4158 8091 - 93
Facsimile +91 11 4158 8090

info@georgeinstitute.org.in
www.georgeinstitute.org.in

CIN : U74900TG2007NPL055085

August 6, 2015

Prof. Biplab Lohochoudhury
Professor
Department of Journalism and Mass Communication
Visva-Bharati University
Shantiniketan

Sub: **Media doctor pilot with the George Institute for Global Health and University of Newcastle, Australia from August to December 2015**

Dear Sir,

The George Institute for Global Health has initiated a pilot study on the reporting of health issues in the mainstream media by using the internationally acclaimed media tool in collaboration with the University of Newcastle, Australia. Four universities/institutions across the country will be part of the pilot. These are Lady Irwin College, New Delhi; Manipal University, Jaipur; Department of Mass Communication, University of Hyderabad and Department of Journalism and Mass Communication, Visva-Bharati University.

The project will begin from August 2015 and end in December 2015. Each University/institution will rate 35 news stories (25 in English media and 10 in Hindi media) as per a rating protocol and a score sheet to be used by all of them. The scores will be analyzed and the feasibility of the tool to rate health stories in the Indian media would be determined as a result. We hope to publish the paper in a reputed international journal.

Please find attached the media doctor protocol along with the score-sheet and the Rating Guide.

We hope that you will find being part of the project useful and that both students as well as faculty would benefit from the entire exercise.

Looking forward to working with you on this innovative pilot project

Yours sincerely,

GEORGE INSTITUTE FOR GLOBAL HEALTH ★ NEW DELHI

Kannan Krishnawamy
Media and Communications Manager

B.7.1 - (F)

THE UNIVERSITY OF NEWCASTLE AUSTRALIA

विश्व भारती शान्ति निकेतन

The George Institute for Global Health India

Centre for Journalism and Mass Communication

Cordially invites you to attend

the inauguration of

India workshop on 'Media Doctor programme'

Inauguration: Prof. Swapan Kumar Datta, Vice-Chancellor, Visva-Bharati

Experts are-

Dr. David Smith, The University of Newcastle

Dr. Ann Taylor, The University of Newcastle

Kannan Krishnaswamy, The George Institute for Global Health

Prof. Vibhash Chandra Jha, Principal, Vidya-Bhavana will also grace the occasion

Prof. Biplab Loho Chowdhury
In-Charge, CJMC
And investigator, Media Doctor programme

Venue: Central Library Auditorium

12 January, 2017
From 11am

3.7.1 P-8

Kannan Krishnaswamy <kkrishnaswamy@georgeinstitute.org.in> Wed, Nov 23, 2016, 7:34 AM
to me

Dear Prof. Biplab,

Thank you very much for sharing the certificate design. We have just moved into a new office and therefore, I will get them printed in a couple of weeks and send it across.

In terms of taking this work forward, Dr. David Smith of University of Newcastle will be here from Jan 13 to 19, 2017 for a visit to release the media doctor booklet (draft attached with this mail). Please review the booklet and give your suggestions/feedback on the same. We welcome you to add your experience on using media doctor tool which can form part of the booklet.

We also request your help in organizing a press conference in Kolkata and a training at your university for both students and faculty members on how to use the tool. Will share the workshop/press conference design shortly. The program can be organized on Jan 16 and 17, 2017 or Jan 18 and 19, 2017 and can be co-branded with your University, as you have taken the lead in piloting media doctor in Eastern India.

Needless to say, this is your product as well and so you can take the lead in organizing the press conference/workshop. If you want to call journalism faculties from other institutions from the State, you are welcome!

We would also monitor the use of the tool by journalists for six months and there is a pre and post questionnaire that will be administered.

This is a very good opportunity to build on the work that we did earlier.

Expecting your support on this....

Regards

Kannan

PS : The certificates can be given personally at this workshop as well and we can add Dr. David Smith's name to the signatories if you think that would be a value-add to the students.

Kannan Krishnaswamy
Communications Manager, Communications

The George Institute for Global Health | INDIA
311-312, Third Floor, Elegance Tower
Plot No. 8, Jasola District Centre
New Delhi 110025 | India
T +91 11 4158 8091-93 | **F** +91 11 4158 8090
E kkrishnaswamy@georgeinstitute.org.in | **W** www.georgeinstitute.org.in
twitter | facebook | e-newsletter
Ranked among the top 10 research institutions in the world for scientific impact by the SCImago Institutions Rankings (SIR) World Report in 2011, 2012, 2013 & 2014.

We have relocated our New Delhi office. Please take note of the new office address above.

3.6.3 → CJMC - Vidya Bhavan
3.6.4 → (External)

I N T A C H

The Indian
National Trust for
Art and Cultural Heritage
REGIONAL CHAPTER
SANTINIKETAN

DR. MRS. SUSMITA GUHA ROY
Convenor
'JETE JETE'
Purbapalli
Santiniketan-731235
Dist.: Birbhum, West Bengal
Mob. 9434348119
E-mail : susmita.guharoy @gmail.com

To,
The In-Charge,
Centre for Journalism and Mass communication,
Visva-Bharati,
Santiniketan.

Respected Sir,

This is to bring to your kind attention, that in **1991, Professor Malay Mukhopadhyay**, along with some other professors, scholars and students of Visva- Bharati had undertaken a trekking expedition along the banks of **River Kopai**, from its source to its confluence, and had also published a Bengali book about the experience.

To commemorate the Silver Jubilee of the **'Kopai Expedition,1991'** and also to make a study of the temporal changes along the said river regime, this year we are going to organize another trekking expedition under the leadership of Prof. Mukhopadhyay , from **24th to 31st of December, 2017.**

Around 40 participants will be a part of this expedition, most of whom are professors, scholars and students of Visva-Bharati. In addition to covering the full stretch of the river on foot we also have plans for setting up a **'Marker Stone'** on the source of River Kopai in **Khajuri**, a village in Jharkhand.

In this regard we take the pleasure to request you to depute experts from your department for making a docu-feature film on the entire trek of eight days, under your supervision.

We are ready to sponsor and bare the expense of fooding and lodging for two students throughout the trek.

We are sending the map of the river along with the trekking itinerary for your perusal.

Looking forward for your cooperation and support in this venture.

Thanking you in appreciation,
Yours Faithfully,

The Indian National Trust
For Art and Cultural Heritage
Convener / Co-Convener
Santiniketan Chapter

Dr. Mrs. Susmita Guha Roy
Convener,
INTACH-Santiniketan Chapter.

Malay Mukhopadhyay 02/12/17
Prof Malay Mukhopadhyay
Project Coordinator

Centre for Journalism and Mass Communication (CJMC), Visva-Bharati

People Archive of Rural India (PARI) Interns - Semester-IV, 2017

Sl No	Name	E-mail Id	Contact No.	Selected Blocks
1	Arindam Bachar (From June 1 – July 31, 2017). Rs 5000/- pm	arindambchr1@live.in	9903143141	**South 24 Parganas, WB :** Kakdwip, Gosaba, Budge Budge I, Budge Budge II, Maheshtala, Canning I, Canning II, D/Harbour I, D/Harbour II, Bhagore I, Bhagore II, Basanti, Patharpratima, Falta, Mandirbazar, Namkhana **plus stories**
2	Arnab Kumar Sen (From June 1 – 30, 2017). Rs 5000/-	sen.arnabsen@gmail.com	9903653416	**Hoogly, WB:** Chinsura-Mogra, Dhaniakhali, Pandua, Tarakeswar, Haripal, Singur, Srirampur-Uttarpara, Arambagh
3	Christina Ray (From June 1 – 30, 2017). Rs 5000/-	roychristina9@gmail.com	9674147943	**Hoogly, WB:** Balagarh, Polbaa-dadpur, Jangipara, Chanditala 1, Chanditala 2, Pursurah, Goghat 1, Goghat 2, Khanakul 1, Khanakul 2
4	Mridhumoy Pan (From June 1 – July 31, 2017). Rs 5000/- pm	mridhumoy.pan@gmail.com	8961374004	**Hawrah, WB:** Bally-jagacha, Bagnan II, Amta I, Jagatballavpur, Uluberia (M), Panchla, Udaynarayanpur, Sankrail, Bally (M), Hawrah (M.C.), Shyampur I, Shyampur II, Uluberia I, Uluberia II **plus stories**

5	Unnita Bandyopadhyay (From June 1 – July 31, 2017). Rs 5000/- pm	bandyopadhyayunnita@gmail.com	9051381096	**Murshidabad, WB:** Beldanga I, Beldanga II, Hariharanpara, Bharatpur I, Bharatpur II, Burwan, Kandi, Khargram, Sokal, Ranigarh I, Ranigarh II **plus stories**
6	Debasrita Chakraborty (From June 1 – 30, 2017). Rs 6000/-	i.debasrita@gmail.com	8902769639	Assignment in Delhi
7	Madhumanti Sengupta (From June 1 – 30, 2017). Rs 6000/-	madhu.sengupta3@gmail.com	8017774842	Assignment in Delhi
8	Diganta Kr Deka (From June 1 – 30, 2017). Rs 5000/-	deka.diganta90@gmail.com	8945904129	Assignment in Assam

3.7.1 Collaboration CJMC - Vidya Bhavan

From: **Wild Reaction** <wildreactionofficial1@gmail.com>
Date: Tue, 19 Mar 2019 at 12:30
Subject: Request for Collaboration with CJMC, Visva-Bharati Santiniketan
To: <blcpal@gmail.com>

Respected Sir,

Wildreaction is a voluntary NGO which caters to the wellbeing of both Man and Nature through communication within the community of Noachar, Kaliganj Dist, Purba Burdwan, Katwa, West Bengal. It runs a sustainable wildlife-tourism in and around the village as a source of its primary funding.

The concept and ideation are based on your ideals of Developing Community from Within concept and Environmentally Sustainable Trans-Generational Progress (ESTGP) concept.

The model used in Noachar has been a byproduct of an ongoing thesis under your guidance at the Centre for Journalism and Mass Communication, Visva-Bharati Santiniketan. Therefore it is my earnest request to collaborate with your Centre for research work and internship programs.

Henceforth the collaboration all research pertaining to information and communication on the ecosystem and community informatics shall be under your guidance and supervision as the Principal Investigator (PI). we are already in talks with organizations like WII (Wildlife Institute of India), Austrian Television Network & ISI (Indian Statistical Institute) for research fundings.

We would also require students of CJMC to take part in our internship program which has a wide range of areas to choose from like, Management/handling social media/photography/cinematography/content writing/marketing/public relations/promotion/campaigns/Graphics Design/Animation/Research & Development etc. Students who are doing the Internship has to visit Noachar at least once for getting a better understanding of the work we do at Wildreaction.

Kindly let us know when you are planning for a visit to Noachar, the trips are fully managed by us with full security and precision. We are also happy to conduct any research survey on behalf of CJMC as part of the collaborative project.

Thanking you with anticipation

Ganesh Chowdhury
Co-Founder

WILD REACTION
Govt. Registration No. : S/2L/4307
Registered under ANKA SEKHA (F.A.T.C),
CHANDERNAGORE
Phone: 8961348313 (WP)
Email: archan6644@gmail.com

File - 125

3.7.1

Departmental Committee Meeting dated 3rd September, 2020

Resolutions

The DC meeting took decisions as follows -

(a) CJMC will follow the pattern of tes and evaluation (internal assessment and terminal) of the university.

(b) Ex-student Anirban Nayak's request for mentoring his start-up 'DorsFind' received on 02.02.2020 was accepted post-facto. Already, as part of media organization management specialisation, Live project he has been given guidance and it will continue. A communication will be made with Mr. Nayek framing terms of reference of start-up mentoring process. The terms of reference is accepted.

3/9/2020

3/9/2020

3/9/2020

3/9/2020 (Invitee)

File-125

DOCS Find

3.7.1

www.docsfind.com

To
The In-Charge
Centre of Journalism and Mass Communication
Visva-Bharati

Sub- Guidance request for my startup 'DocsFind'.

Sir,

I'm Anirban Nayek, Ex student of CJMC (Batch 2017-19). I did my specialization on Media Organization Management. After passing out from CJMC department I runned an advertisement agency on South West Bengal territory. Now I'am starting my own online startup named as 'DocsFind'. The motto of docsfind is to devlope our health sector by providing good communication service between the doctors and the patient in the Birbhum district.

So, I'm requesting you to please guide me as a mentor to create an effective plan and help to find the way out to execute that plan.

Date : 02.02.2020

Yours faithfully

(ANIRBAN NAYEK)
Partner Docsfind

universitätbonn

Rheinische
Friedrich-Wilhelms-
Universität Bonn

universität **bonn** · Prof. Dr. Jürgen von Hagen · 53012 Bonn

Dr. Amit Kumar Biswas
Department of Economics & Politics

Visva-Bharati, Santiniketan

West Bengal – 731235
India

Prof. Dr. Jürgen von Hagen
Institut für Internationale Wirtschaftspolitik
Prodekan
Universität Bonn
Lennéstrasse 37
53113 Bonn
Tel.: 0228/73-9199
Fax: 0228/73-7953
vonhagen@uni-bonn.de
Bonn, 2. März 2018

Betr.: Research visit at the University of Bonn under the Research Group Linkage Program sponsored by the AvH Foundation

Dear Amit,

it is my pleasure to invite you for a visit at my institute at the University of Bonn to work with you on our joint research project "Trade Data Fabrication and Possible Capital Flight: Experiences from India and other Developing Countries", funded by the Alexander von Humboldt Foundation under their Research Group Linkage Programme.

The Alexander von Humboldt Foundation will cover the costs of your travel from Santinitetan, India, to Bonn, Germany, and back (economy class flight) and your stay here. My institute will provide you with office space, computing facilities and library access during your stay.

The 2018 summer term will run from mid-April to end-July. A period within this interval would be most suitable. Since housing is scarce in Bonn, please let me know the exact dates of your travel as soon as possible.

I look forward to seeing you again.
With kind regards and best wishes,

Sincerely yours

UNIVERSITÄT BONN
Rheinische
Friedrich-Wilhelms-
Universität Bonn

universität **bonn** · Prof. Dr. Jürgen von Hagen · 53012 Bonn

Dr. Amit K. Biswas
Department of Economics & Politics
Visva-Bharati, Santiniketan
West Bengal
731235 India

Prof. Dr. Jürgen von Hagen
Dekan der Rechts- und
Staatswiss. Fakultät
Universität Bonn
Inst. f. Internationale
Wirtschaftspolitik
Lennéstrasse 37
53113 Bonn
Tel.: 0228/73-9199
Fax: 0228/73-7953
vonhagen@uni-bonn.de
Bonn, 30. November 2018

Your 2019 visit May 1 to June 30

Dear Dr. Biswas,

It is my pleasure to invite you to come to Bonn and visit our Department of Economics during the period indicated above. The purpose of your visit will be to work on our joint research project financed by the Alexander von Humboldt Foundation.

During your visit, our department will provide you with office facilities and access to our IT and library systems.

I look forward to seeing you again.

Cordially yours,

INSTITUTE FOR SOCIAL AND ECONOMIC CHANGE

Nagarabhavi PO: BANGALORE-560 072

Phone: 23215468, 23215519, 23215592 GRAMS: ECOSOCI BANGALORE – 560040
FAX: 91-080 23217008 INDIA E-mail: admn@isec.ac.in

AN ALL INDIA INSTITUTE FOR INTER-DISCIPLINARY RESEARCH & TRAINING IN THE SOCIAL SCIENCES

Dr. Meenakshi Rajeev
RBI Chair Professor & Project Coordinator
Centre for Economic Studies and Policy

Ph: 91-80-2339 7685 Ext.217
Fax: 91-80-23217008
E-mail: meenakshi@isec.ac.in

To,
Dr. Saumya Chakrabarti.
Associate Professor Of Economics,
Visva-Bharati (University), Santiniketan, India.

20th April, 2015

Dear Dr Chakrabarti,

It is my pleasure to formally invite you to be an advisor to our project titled "Understanding Farm Non Farm Linkage in Rural India" funded by ICSSR, Delhi. You may note that your name as an advisor to the project was mentioned in our project proposal while applying for funding. The project has now been sanctioned by ICSSR and it is for a period of one and a half year. We shall be happy to offer you a token honorarium of Rs 20,000 when the work is completed.

Your responsibility in this project will be to provide general guidance, guidance in theoretical model building and carrying out field survey. If you are invited to provide inputs and for discussions to ISEC, your expenses (TA , board and lodging etc.) will be borne by ISEC from the project budget.

I hope these terms and conditions will be acceptable to you. A line of confirmation will be appreciated.

Thanking you,

Sincerely,

Meenakshi Rajeev

Meenakshi Rajeev
Project Director.

Gmail CHAKRABARTI, SAUMYA <saumya_chakrabarti@biari.brown.edu>

Award Letter 2016-17

icssr researchproject <mmp2016rpr@gmail.com> 30 March 2017 at 13:37
To: saumya.chakrabarti@visva-bharati.ac.in

Indian Council of Social Science Research

Revathy Vishwanath (Ministry of Human Resource Development)

Assistant Director (RP) Aruna Asaf Ali Marg, New Delhi – 11006

Email-rpr@icssr.org EPABX: 26741849-51 Fax: 91-11-2674

☏ 26716690 **E-mail:** info@icssr.org: **Website:** www.icssr.org

F.No.- 02/210/2016-17/RP Dated 29.3.2017

Subject: Award of Major/Minor Research Project

Dear Dr. Chakrabarti,

This is with reference to your applications for project grant under the Major/Minor Research Project of the ICSSR entitled "**The Informal Sector in India: Progression or Persistence? An Analysis of Firm-Level Performance"**

On the recommendations of the Expert Committee duly approved by the Competent Authorities, we are happy to inform you that ICSSR has approved a grant-in-aid of Rs. **7,00,000/-**

With duration of **12** months for the study.

Before we issue a formal sanction order, you are requested to communicate the probable date of commencement of the project and also enter into an agreement with ICSSR on a non-judicial stamp paper of Rs. 100/-(copy attached) send us an declaration (copy enclosed) and Grant-in-aid bill (copy attached) of 40% of the awarded grant, i.e. Rs. **2,80,000/-** as first instalment of the total grant of Rs. **7,00,000/-**. Kindly send all the desired documents to the undersigned to enable us to issue the formal sanction order.

As per the revised rules, the final report of the study needs to be published on completion of the study. So, you are required to keep provision for the same within the approved budget.

With regards,

Yours sincerely,

(Revathy Vishwanath)

Encl. as below

Saumya Chakrabarti,

Associate Prof of Economics & Politics,

Visva-Bharati, Santiniketan,

Dist Birbhum, West Bengal-731235

Copy to:

The Registrar,

Visva-Bharati, Dist. Birbhum,

Santiniketan, West Bengal-731235

3 attachments

AGREEMENT.doc
29K

Declaration.docx
14K

Grant-in-Aid.doc
21K

3.7.1 **Collaboration**

VINAYA BHAVANA (INSTITUTE OF EDUCATION)
Research
Basketball Clinic by FIBA Official
Basketball Clinic by jr. NBA, USA
WBCIPE Meet
Teaching Practice in school
Sport & Culture Exchange programme at JUST, Jessore
Sport & Culture Exchange at Islamic University, Kusthia, Bangladesh.
Internship Programme
Special Olympic Coaches` Coaching Workshop
Teaching Practice in school
Cultural Exchange programme at Department of Physical Education and Sport Science, Visva-Bharati
Internship Programme

BACK TO FIRST PAGE

Centre on Aging - Ladner Office
4907 Chisholm Street
Suite 210, Ladner, BC, V4K 2K6 Canada
Tel 1 866 902 3767, Fax 604 940 2099
Web www.selfmanagementbc.ca

University
of Victoria

July 26, 2015

The Vice Chancellor
Visva- Bharati University
Santiniketan, West Bengal, India

Re: Letter of Reference for Jagdev Bains

Dear Sir:

Jagdev Bains has informed me that he would like to pursue doctoral studies in the Department of Physical Education at Visva-Bharati University and asked if I would provide a letter of reference. It is with upmost pleasure that I am providing this letter. Jagdev has been employed at our University of Victoria Office in Delta, BC (www.selfmanagementbc.ca) as the South Asian Program Coordinator for five years. His responsibilities are to initiate contact and collaboration with healthcare professionals, non-profit government organizations, religious and cultural institutions and community leaders throughout the province to undertake the recruitment, training and delivery of health related self-management programs led by trained volunteers to community members living with chronic health conditions.

He indicated that he has been considering this educational goal for quite some time and has a tentative focus for the research. At this point it would involve a comparative study of life cycle subject to well-being and self-management skills with South Asians in Canada and India. Jagdev also asked if I would consider being involved as a co-guide in this research. I responded positively as this type of research is in sync with current research projects and programs at our Centre.

I would like to focus this reference letter on attributes Jagdev has demonstrated during his employment with the University of Victoria. And, I believe these are particularly important and relevant in the pursuit of a PhD. degree. Specifically, I would like to provide comment in four areas, namely: Community Organization and Development, Communication Skills, Interpersonal Skills, and Personal Ability.

Community Organization and Development. Jay has unique and extensive skills in the ability to initiate outreach to health professionals and community members. He is particularly skilled in developing networks and building synergy between healthcare professionals and community

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members with the purpose of training community members to implement the Stanford University self-management programs. As well, he has been able to maintain and nurture these relationships which usually produce sustained programming.

Communication Skills. Jagdev has excellent oral and written communication skills. On numerous occasions I have had the pleasure of observing him at conferences, group meetings, university classrooms, and on radio and television programs. He is clear and succinct in his messaging and is able to effectively deliver his messages to diverse audiences.

Interpersonal Skills. Over time, Jagdev has successfully developed a wide range of colleagues and collaborators throughout the communities. With this extensive network he has been able to harness the enthusiasm, skills and resources of a vast network in achieving his goals. I believe that Jagdev's sincerity and integrity have played a large part in this accomplishment. Requests for collaboration and assistance are responded to in a positive manner.

Personal Ability. I am aware that Jagdev already possesses two Masters Degrees, one in Physical Education and the other in English. This degree of professionalism has been evident in his work at the University, as he is a mature and responsible individual and has always been well-prepared for the tasks at hand. His collaboration and contributions have been integral to a number of our successful endeavours.

I believe that Jagdev's educational and research plans constitute a good collaboration between Visva-Bharati University and the University of Victoria. I am a professor in the School of Public Health and Social Policy at University of Victoria and Jagdev asked if I would consider participating as a co-guide in his proposed research. I believe that my university role would be essential with respect to many of the ethical considerations in conducting research with this particular population, and responded positively to Jagdev's request.

Sincerely,

Patrick McGowan, PhD
Professor, School of Public Health and Social Policy
Director, Self-Management BC

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Basketball Clinic by Jr. NBA , USA

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C.I.P.
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Department of Physical Education

VINAYA-BHAVANA
(Institute of Education)

VISVA-BHARATI SANTINIKETAN

Date: 24.03.2018

No. PE-049/ 492/2017-2018

The Vice Chancellor
Visva-Bharati

Sub: Approval of football team, Department of Physical Education for visiting Bangladesh on Cultural Exchange Programme

Madam,

Dr. Md. Zafiroul Islam, Chairman, Department of Physical Education & Sports Science, Jessore University of Science & Tchnology, Bangladesh has invited the Head, Department of Physical Education, Visva-Bharati, Santiniketan, West Bengal, India for sending a team as a Cultural Exchange Programme **from 8th April to 10th April, 2018.**

Considering the invitation of Jessore University, Bangladesh, we have decided to send a "**Football Team**" of the Department of Physical Education **from 8th April to 11th April, 2018** with the following players, research scholars and faculty members. It is to be noted that all the members of Cultural Exchange Programme will follow the government of India rules and regulation strictly.

Please give us necessary approval for the said visiting Cultural Exchange Programme for the development of International Integration and Sports Cultural Relationship.

Faculty members:	Research Scholars	Players	
1. Dr. Ashok Kumar Goon	1. Dr. Pradip Tudu	1. Jayanta Kumar Mondal	14. Alamgir Sekh
2. Prof. Sagarika Bandyopadhyay	2. Mr. Gopal Mondal	2. Prokash Roy	15. Debajit Karmakar
3. Dr. Mahesh Sawata Khetmalis	3. Mr Sudipta Birbongshi	3. Amartya Mal	16. Dipankar Dhank
4. Dr. Sudarsan Biswas		4. Samya Bhandari	17. Sandipan Karmakar
5. Dr. Sentu Mitra		5. Mondip Rizal	18. Nahore Subba
6. Dr. Abhijit Thander		6. Rudramallya Birbanshi	19. Biplab Besra
7. Prof Sumanta Mondal		7. Baidyanath Saha	20. Milan Hansda
		8. Abinash Majhi	21. Biswajit Murmu
		9. Rahul Singh	22. Vivekananda Tudu
		10. Rubai Hansda	
		11. Sadhan Rai	
		12. Gourav Thakur	
		13. Asim Hembrom	

With regards,

Ashokkumar Goon 24/3/18
(Dr. Ashok Kr. Goon)
Vice Principal,
Vinaya Bhavana, Visva-Bharati

Vice-Principal
Vinaya-Bhavana
Visva-Bharati
Santiniketan

All the expenditure will be bear by the Jessore University, Bangladesh.

Samiran Mondal 24.
(Prof. Samiran Mondal)
Head
Dept. of Physical Education
Vinaya Bhavana, Visva-Bharati

विभागाध्यक्ष / Head
शारीरिक शिक्षा विभाग
Deptt. of Physical Education
विनय भवन / Vinaya-Bhavana
विश्वभारती / Visva-Bharati
शान्तिनिकेतन / Santiniketan

Approved
24/3/18
कुलपति (स्थानापन्न)
Vice-Chancellor (Offg.)
विश्वभारती / Visva-Bharati
शान्तिनिकेतन / Santiniketan

8/Dept. of Phy.Edu.Off.Docu/PE-009.dox

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শারীরিক শিক্ষা ও ক্রীড়া বিজ্ঞান বিভাগ
যশোর বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়
যশোর - ৭৪০৮, বাংলাদেশ।
ফোন ঃ +৮৮-০৪২১ ৬২০২০, ৬২০৩০ এক্স.- ২২১
ফ্যাক্স ঃ +৮৮ ০৪২১ ৬১১৯৯, ৬২২৩৮

Dept. of Physical Education & Sports Science
Jessore University of Science and Technology
Jessore -7408, Bangladesh.
Phone : +88-0421-62020, 62030, Ext. : 221
Fax : +88-0421-61199, 62238
E-mail : chairman.pess@just.edu.bd

From: Dr. Md. Zafiroul Islam
Chairman
Dept. of Physical Education & Sports Science
Jessore, Bangladesh

To: Prof. Samiran Mondal
Head
Dept. of Physical Education
Vinaya-Bhavana, VISVA-BHARATI

Sub: Educational-Cultural Exchange Program

Ref: (1) Our office communication dated-20/02/2018
(2) Your office communication No. PE-049/456/2017-2018, Dated-12/03/2018

Sir

In reference to the above noted subjected mentioned under reference, I would like to inform you that we feel very happy to know your acceptance of our invitation to visit our department. The matter has been discussed in detail and we propose the following program of visit for your team.

08/04/2018- Arrival of your team and receiving on behalf of the department.

09/04/2018- Cultural exchange program

10/04/2018- Departure of the team for Islamic University Kushtia.(after breakfast)

Please note the change in program from the previous one. It will be highly appreciated if you kindly inform the number of member of the team (male + female) and expected time of arrival at Benapol Boarder of Bangladesh.

Thanking you and awaiting to receive you whole heartedly in our University campus.

Md Islam
20.03.18

Dr. Md. Zafiroul Islam
Chairman
Dept. of Physical Education & Sports Science
Jessore, Bangladesh

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Jessore University of Science and Technology
Jessore-7408, Bangladesh
Tel: +880-421-61097, 61098, 62020, 62030, 62080, 63270, 63280
Fax: 0421-61199, 0421-62238
Web: www.just.edu.bd
E-mail: vc@just.edu.bd, registrar@just.edu.bd

Department of Physical Education & Sports Science
Jessore University of Science and Technology
Jessore-7408, Bangladesh
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Fax: 0421-61199, 0421-62238
Web: www.just.edu.bd
E-mail: pesschairman@gmail.com

Certificate of Participation

To whom it may Concern

This is to certify that Prof. / Dr. / Mr. Bantu Mitra *of the Department of Physical Education and Sports Science,* VISVA-BHARATI, India, *has participated the Educational & Cultural exchange program during April 8-9, 2018 organized by the Department of Physical Education & Sports Science, Jessore University of Science and Technology, Bangladesh. His / her participation was highly appreciated.*

We wish him / her all success in life

Nasim Reza.

Dr. Md. Nasim Reza
Convener, Educational-Cultural Exchange Program
Associate Professor, Department of PESS &
Dean, Faculty of Health Science

MD Islam

Dr. Md. Zafiroul Islam
Member Secretary, Educational-Cultural Exchange Program
Associate Professor, Department of PESS &
Chairman, Department of PESS

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Internship Programme in collaboration with Various Primary School- surrounding Visva-Bharati
2017

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WELCOME

DELEGATES FROM

ISLAMIC UNIVERSITY , KUSHTIA

BANGLADESH

AT

PARTMENT OF PHYSICAL ED

VA BHAVAN ,VISVA-BHA

SANTINIKETAN

ON

MARCH 30, 2019

WELCOME
DELEGATES FROM
ISLAMIC UNIVERSITY , KUSHTIA
BANGLADESH
AT

THE DEPARTMENT OF PHYSICAL EDUCATIO
VINAYA BHAVAN ,VISVA-BHARATI
SANTINIKETAN
ON
MARCH 30, 2019

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Teaching Practice of BPEd in Collaboration with surrounding upper Primary School- 2018

Internship Programme of MPEd in Collaboration with
Birbhum District Primary School Council- 2019

Dr. MSK Pl
to the needful
Ab
13/9/2019

Office of the

Birbhum District Primary School Council

Vidyasagar Bhaban
Suri, Birbhum

Ph.No.- +91 3462 255596/256427
Fax- +91 3462 259032
Email- birbhumdpsc@gmail.com
dpscbirbhum@gmail.com
Website-www.birbhum.gov.in/DPSC/index.htm

Memo No.- BDPSC/GEN/1288/19

Date- 12/09/19

From,
The Chairman
Birbhum Dsitrict Primary School Council
Suri, Birbhum.

To:
Tlhe Head of the Department of Physical Education,
Vinoya Bhavana,Visva Bharati, Santiniketan,
Birbhum,West Bengal,Pin-731235

Sub –Regarding permission for 20(twenty) no of Schools nearby Visva Bharati, Santiniketan for allowing their students to undergo internship programme from 16.09.19 to 30.09.2019

Ref: Her application dated: 05.09.2019

Sir/Madam,

In reference to the above, the undersigned has to request her to select 20(twenty) no of schools nearby Visva Bharati, Santiniketan through communication with the Sub-Inspector of Schools of Bolpur West and Bolpur Intensive Circles.

Permission for allowing the students to undergo the Internship Programme is accorded herewith.

11/09/19

Chairman
Birbhum Dsitrict Primary School Council,
Suri,Birbhum

11.09.19

Memo.No. BDPSC/GEN/1288/1(2)/19

Date. 12/09/19

Copy forwarded for information and taking necessary action to cooperate to:

1. The Sub-Inspector of Schools, Bolpur West Circle, P.O.Sriniketan, Birbhum
2. The Sub-Inspector of Schools, Bolpur Intensive Circle, P.O.Bolpur(Layekbazar), Birbhum

11.09.19

11/09/19

Chairman
Birbhum District Primary School Council,
Suri,Birbhum

11.09.19

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Date: 19.09.2019

To

The Sub-Inspector of Schools
Sriniketan, Santiniketan
Bolpur, Birbhum

Subject: Regarding permission for 20 (Twenty) schools nearby Visva-Bharati for 'INTERNSHIP' purpose.

Reference: Memo No.: BDPSC/GEN/1288/19, Dated: 12.09.2019 (Attached)

Sir,

With due respect, I undersigned put-forth to your kind consideration the following request. The MPED students of our Department of Physical Education & Sport Science, Vinaya Bhavana, Visva-Bharati, have 'INTERNSHIP program' as per curriculum of NCTE notified syllabus. We request your kind permission to grant approval for 20 (Twenty) schools nearby Visva-Bharati for the said purpose from 20.09.2019 to 30.09.2019 (Ten Days). Also request to appoint one of the School teachers to evaluate the Student Teachers on their respective field work during the 'INTERNSHIP program'. The names of the schools are mentioned below.
It would be an excellent experience for our Student Teachers to interact & train the school children in Physical Education and Sports.

I would be highly obliged for the same.

Thanking in anticipation.

In-charge Internship Program
DR. MAHESH SAWATA KHETMALIS
Associate Professor
RESEARCH SUPERVISOR
DEPARTMENT OF PHYSICAL EDUCATION
Visva-Bharati, Santiniketan

Sr. No.	School	Sr. No.	Additional School (if any)
1	Adhar Chandra Jr. Basic School		All the H.T. & T.I.C are requested to co-operate with the Visva-Bharati for 'INTERNSHIP'. 20/9/19
2	Gangadhar Jr. Basic School		
3	Tarasankar Vidyapith (Pry.)		
4	Bolpur Girls Jr. Basic School		
5	Sishu Vidyapith GSF Pry. School		
6	Kalimohanpally GSF Pry. School		
7	Arjun Lal Jr. Basic School		
8	Nimna Bahdhgara Pry. School		
9	Kali Krishna Paul Jr. Basic School		
10	Sudhamoyee Jr. Basic School		
11	Dharmarajtala Pry. School		
12	Kunj Behari Jr. Basic School		
13	Rabindra Sikshaniketan (Pry.)		
14	Bhubandanga N.B.S. Pry. School		
15	Lalbandh Pry. School		
16	Goalpara T. Jr. Basic School		

Sub-Inspector of Schools
Bolpur West Circle
Sriniketan, Birbhum

DR. MAHESH SAWATA KHETMALIS
Associate Professor
RESEARCH SUPERVISOR
DEPARTMENT OF PHYSICAL EDUCATION
Visva-Bharati, Santiniketan

Office of the Sub-Inspector of Schools, P.O. Sriniketan, Dist.-Birbhum
Received
Bolpur West Circle
19/9/19

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BLUE
ORANGE
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VIOLET
1 January
2 February
3 March
4 April
5 May
6 June
7 July
8 August
9 September
10 October
11 November
12 December
Monday

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