



Aliah University

(Under the department of Minority Affairs and Madrasah Education, Govt. of West Bengal)
IIA/27, New Town, Kolkata - 700160, Phones: (033) 2341 6444, West Bengal, India

3.1.3 Percentage of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the last five years.

Attached below are scanned copies of the relevant documents such as award letters, project completion certificates etc. which were awarded to the teachers of Aliah University who received national/international fellowship/financial support from various agencies for advanced studies/research.


09/05/24

Registrar (Officiating)
Aliah University
New Town, Kolkata-700160

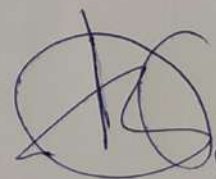
Government of West Bengal
Department of Science & Technology and Biotechnology
Vigyan Chetana Bhavan, Salt Lake, Kolkata – 700064

Project Completion Certificate

Memo No. : 1396/ST/P/S&T/9G-34/2013

Date: 23/11/2022

This is to certify that the R&D Project titled “Bioactivity of Food Additive Rhodamine B and its Derivatives: Antimicrobial and DNA Binding Study” sponsored by the Department of Science & Technology and Biotechnology, Government of West Bengal has successfully completed on 19/04/2021 by PI: Dr. Md. Maidul Islam, Assistant Professor, Department of Chemistry, Aliah University.



23/11/2022

Amiya Kumar Kalidaha
Senior Scientific Officer and
Convener, R&D Expert Committee on Chemical Sciences

2022/12/28 13:37

Revised Budget as per FD recommendation

Title of the project - Design and Syntheses of Host for Trapping Carcinogenic Ions and Molecular Guest

Principal Investigator: Dr. Md. Akhtarul Alam, Assistant Professor, Department of Chemistry, Aliah University, DN-41, Saltlake, Sector V, Kolkata-700 091

Sl. No.	Item	Cost in Rs.			
		1 st Year	2 nd Year	3 rd Year	Total
A. Non-Recurring					
1.	Permanent Equipment: i) Magnetic starrer ii) Heating mental iii) Vacuum Pump iv) Rotary evaporator v) Refrigerator vi) Oven (as per the quotation of Biomed Instrumentation; CP-73&74)	12,366 16,315 48,090 51,525 19,950 21,183	-	-	1,69,429
Total Non-Recurring (A)		1,69,429	-	-	1,69,429
B. Recurring					
1.	Jr. Research Fellow – 1 No. @Rs.16,400/- p.m. in the 1 st & 2 nd year and @Rs.18,700/- p.m. in the 3 rd year (*)	1,96,800	1,96,800	2,24,400	6,18,000
2.	Consumables	1,50,000	1,20,000	1,20,000	3,90,000
3.	Travel	20,000	20,000	20,000	60,000
4.	Contingent expenditures	4,300	4,600	4,600	13,500
Total Recurring (B)		3,71,100	3,41,400	3,69,000	10,81,500
Grand Total (A + B)		5,40,529	3,41,400	3,69,000	12,50,929
Rupees Twelve lakh fifty thousand nine hundred ninety nine only for 3 (three) years project duration					

(*) Revision has been made due to enhancement of monthly remuneration of JRF & SRF w.e.f. 01.05.2013 vide Notification No. 736/ST/P/S&T/Misc-2/2006 (Pt-1) dt.10.05.2013



Ref: CRS/2021-22/02/538

Date: 30-03-2022

To,
Dr. Md Hedayetullah Mir
ALIAH UNIVERSITY

Subject: CRS Project Proposal at UGC-DAE CSR.

Dear Dr. Md Hedayetullah Mir,

Thank you for submitting CRS project proposal at UGC-DAE CSR. Your proposal was evaluated by the User Committee and it has been approved as:

Contingency	₹15,000/-
Consumables	₹30,000/-

Your Principal Collaborator from UGC-DAE CSR in this project is: **Dr. Goutam Pramanik.**

This project has been approved as per the guidelines/addendum available at our website.

The details of guidelines, addendum and remittance information are available at our website(<https://csr.res.in/>) and User portal(https://csruserportal.com/Crs_information).

Dr. Sandeep S. Ghugre
Centre-Director, Kolkata Centre

FILE NO. CRG/2022/001842

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 19 December, 2022

ORDER

Subject: Financial Sanction of the research project titled **Hopping MOFs: Development of Photoactive Metal-Organic Frameworks (MOFs) for the Fabrication of Next Generation Smart Materials** under the guidance of Dr. Md Hedayetullah Mir, Department of Chemistry, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 2874696/- (Rs. Twenty Eight Lakh Seventy Four Thousand Six Hundred and Ninety Six Only)** with break-up of **Rs. 500000/- under Capital (Non-recurring) head** and **Rs.2374696/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2874696/-** has been approved are given below:

The following budget may be considered for **Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City**

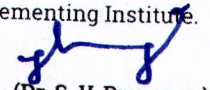
S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Dell Desktop -> MAX-350 Xenon Light Source 300W -> photron high speed camera -> Programmable hot air oven	500000
A'	Total (Non-Recurring)	500000
B	Recurring Items	
1	Recurring - I : (Research Personnel) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1443360 650000 20000
2	Recurring - IV : (Overhead Charges)	261336
B'	Total (Recurring)	2374696
C	Total cost of the project (A' + B')	2874696

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
- The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.
- The research personnel sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project
- The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. CRG/2022/001842 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.


(Dr. S. V. Prasanna)

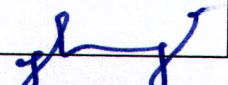
Scientist

prasanna@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	Dr. Md Hedayetullah Mir Department of Chemsitry Aliah University , Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: chmmir@gmail.com Mobile: 919733867756 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	Registrar, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (Receipt of Grant may be intimated by name to the undersigned)


(Dr. S. V. Prasanna)

Scientist

prasanna@serb.gov.in

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
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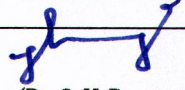
Dated: 19 December, 2022

ORDER

Subject: Research project entitled **Hopping MOFs: Development of Photoactive Metal-Organic Frameworks (MOFs) for the Fabrication of Next Generation Smart Materials** under the guidance of Dr. Md Hedayetullah Mir, Department of Chemistry, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071.

1. In continuation of SERB's sanction order No. CRG/2022/001842 dated 19 December, 2022, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.805100/-** under 'Grants-in-aid General' to Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 being the grant for the financial year 2022-2023 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 19 December, 2022.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Inorganic Physical Chemistry**) (General).
5. The Sanction has been issued with the approval of the competent authority on **12 December, 2022** and vide Diary No. **SERB/F/8086/2022-2023** dated **14 December, 2022..**
6. The release amount of **Rs. 805100/-** (Rupees Eight Lakh Five Thousand One Hundred only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

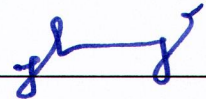
PFMS Unique Code	aliah
Account Name	ALIAH UNIVERSITY DST
Account Number	32210100006641
Bank Name & Branch	Bank of Baroda GENNEXT, DN-14, Sector V, Saltlake, Kolkata-700091
IFSC/RTGS Code	BARBOGENSAL
Email id of A/C Holder	foaliah18@gmail.com
Email id of PI	chmmir@gmail.com



(Dr. S. V. Prasanna)
Scientist
prasanna@serb.gov.in

To,
Under Secretary
SERB, New Delhi
Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Md Hedayetullah Mir Department of Chemistry Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: chmmir@gmail.com Mobile: 919733867756 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	Registrar, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (Receipt of Grant may be intimated by name to the undersigned)



(Dr. S. V. Prasanna)
Scientist
prasanna@serb.gov.in

FILE NO. CRG/2022/001842-C

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016


Dated: 19 December, 2022

ORDER

Subject: Research project entitled **Hopping MOFs: Development of Photoactive Metal-Organic Frameworks (MOFs) for the Fabrication of Next Generation Smart Materials** under the guidance of Dr. Md Hedayetullah Mir, Department of Chemistry, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071.

- In continuation of SERB's sanction order No. CRG/2022/001842 dated 19 December, 2022, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 500000/-** under 'Grants-in-aid Capital' to Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 being the grant for the financial year 2022-2023 for implementation of the above said project.
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 19 December, 2022.
- As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
- The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Inorganic Physical Chemistry**) (Capital).
- The Sanction has been issued with the approval of the competent authority on **12 December, 2022** and vide Diary No. SERB/F/8085/2022-2023 dated **14 December, 2022**.
- The release amount of **Rs. 500000/-** (Rupees Five Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

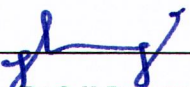
PFMS Unique Code	aliah
Account Name	ALIAH UNIVERSITY DST
Account Number	32210100006641
Bank Name & Branch	Bank of Baroda GENNEXT, DN-14, Sector V, Saltlake, Kolkata-700091
IFSC/RTGS Code	BARBOGENSAL
Email id of A/C Holder	foaliah18@gmail.com
Email id of PI	chmmir@gmail.com


(Dr. S. V. Prasanna)
Scientist
prasanna@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

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5.	Registrar, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (Receipt of Grant may be intimated by name to the undersigned)


(Dr. S. V. Prasanna)
Scientist
prasanna@serb.gov.in

Fwd: CRS project approved with student fellowship

From: Raihan AU (raihan@aliah.ac.in)

To: alam_iitg@yahoo.com

Date: Thursday, October 5, 2023 at 04:26 PM GMT+5:30

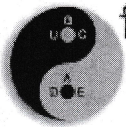
----- Forwarded message -----

From: **CRS Project** <support@csruserportal.com>

Date: Thu, 23 Mar 2023, 00:20

Subject: CRS project approved with student fellowship

To: <raihan@aliah.ac.in>



विश्वविद्यालय अनुदान आयोग - परमाणु ऊर्जा विभाग वैज्ञानिक अनुसंधान संकुल
UGC-DAE Consortium for Scientific Research

(An Autonomous Institution of University Grants Commission, New Delhi)

CRS Program

CRS Projects FY 2022-23.

Dear Dr. Mustafa Jahir Raihan,

With reference to the CRS project proposal **CRS/2022-23/1132** submitted at UGC-DAE CSR, this project was evaluated by the User Committee and the status of your project proposal is:

Approved with student fellowship.

In case you are willing to take up this project, please login to our user portal and accept our guidelines by **March 25, 2023**. Guidelines: https://www.csruserportal.com/data/Guidelines_for_CRS_Project.pdf

Please note that the decision of the User Committee is final and no communication regarding this can be entertained.

Best regards,

User Office

UGC-DAE Consortium for Scientific Research, Indore

CSR User Portal: <https://www.csruserportal.com/>

Please do not reply, This is system generated email.

DST Project



GOVERNMENT OF WEST BENGAL
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Date: 30/01/2019

Memo No : 29(Sanc.)-ST/P/S&T/6G-7/2018

Sanction Order for Grant-in-Aid

Demand No. : 70 Department Code : BS Financial Year : 2018 - 2019

1. Sanctioning Authority: Science & Technology and Biotechnology
 2. Name of the Grantee Institution: Aliah University.
 3. Address of the Grantee Institution: IIA/27, Newtown, Pin-700156, Kolkata, West Bengal.
 4. Category of Grantee Institution: Education Institution
 5. Amount Sanctioned: 832000 (in words Rs. Eight Lakh Thirty Two Thousand Only.)
 6. Name of the DDO: Registrar, Science & Technology & Biotechnology Dept.
 7. Department Code: BS-Science & Technology and Biotechnology
 8. Name of the Treasury/PAO: Pay & Accounts Officer-III, PAO-III
 9. Nature of Grant (a) Recurring or Non-recurring: Recurring
(b) Capital or Revenue: Revenue
 10. Condition of Grant Utilisation Certificate required: Yes
 11. Category of Grant : Education Institution
 12. Purpose of Grant : 1st year financial assistance for Analysis of Failure Mechanism and Development of Effective Bank Protection Methodology for River Bank in West Bengal.
 13. An amount of Rs 832000 is hereby allotted for this period in favour of the Registrar, Science & Technology & Biotechnology Dept. From the head of account 3425-60-200-00-010-31-02-V from the budget provision of the financial year, 2018 - 2019 under Demand No.70 Department Code BS and payable to Grantee Institution or by A/c payee cheque/By-Transfer Credit / ECS.
 14. Head of Account Code :3425-60-200-00-010-31-02-V
 15. Name of the Scheme :Financial Assistance to other Scientific Bodies for undertaking Scientific Projects/Surveys/Research/Training and Science Awareness & Science Popularisation programme
 16. The amount will be drawn in T.R. from No.31.
 17. The sanctioned amount will be payable to Aliah University. by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque / ECS as applicable.
18. Remarks: The fund has been sanctioned as the 1st year installment of the project. Total project cost is Rs. 14,66,000/-. Now Rs. 8,32,000/- as 1st year amount will be transferred to The Registrar, Aliah University, through e-Pradan system to BANK OF BARODA, A/C No:32210200000120-(CA), IFSC CODE-BARB0GENSAL, Mobile Number of the PI 8617758187. All the expenditure must be incurred following the WBFR and UC be submitted as per FD memo No. 1872-FB dt. 26/03/2018
19. Total released amount is within the Budget Provision of the above mentioned head of account during 2018 - 2019
 20. This order issues in exercise of the power delegated under Finance Department Memo. No. 1872-F.B dated-26.03.2018, 1259-F.B. dated-29.11.2018 & 1260-F.B dated-29.11.2018 with the concurrence of Finance Deptt. vide Gr. F.A. Branch. U.O. No. 132 FA/Education, Date 28/01/2019

Sdl
ASSISTANT SECRETARY

Science & Technology and Biotechnology

[Signature]
04-10-2023

Government of West Bengal
Department of Science & Technology and Biotechnology
"Vigyan Chetana Bhavan", Salt Lake,
DD 26/B, Sector-I,
Kolkata - 700064.

Budget Estimate

File No.: ST/P/S&T/6G-7/2018

Name of the P.I. with Institute: Dr. Supia Khatun, P.I. of the project, Aliah University.

General Guideline must be followed by the P.I.:

1. The selection of JRF/SRF shall be made as per guidelines of this Deptt. (Science & Technology).
2. The remuneration to the JRF/SRF & project Asstt. Should be disbursed as per FD Memo No. 6261-F(Y) dt. 27.06.2011.
3. Follow FD Memo No. 5400-F(Y) dt. 25.06.2012 and Memo No. 3060-F(Y) dt. 11.06.2014 where applicable.
4. The UC along with the audited statement of expenditure should be obtained within prescribed time limit / before release of further installment of grant.
5. Follow the Budget break-up given below:

SUMMARY (in Rupees)

Sl. No.	Item	Cost in Rs.			
		1st Year	2nd Year	3rd Year	Total
A. Non-Recurring					
1	Permanent Equipment	500000	0	0	500000
Total Non-Recurring (A)		500000	0	0	500000
B. Recurring					
1	Research Fellow - 1 No. @Rs.21,000/- pm (SRF) for 3 years	2,52,000	2,52,000	2,52,000	756000
2	Consumables	40000	50000	10000	100000
3	Travel	20000	20000	10000	50000
4	Contingencies + Other Costs	20000	20000	20000	60000
Total Recurring (B)		332000	342000	292000	966000
Grand Total (C = A + B)		832000	342000	292000	1466000
Total Project cost: Rupees Fourteen lakh sixty six thousand only for 3 (three) years duration					

Sum
04-10-2023

Sum
Assistant Secretary to the Govt. of W.B.

Guidelines —

To initiate & complete R&D project under DSTBT, Govt. of W.B.

1. Utilisation Certificate:

- a) After completion of each year project, 5 nos Utilisation Certificate (U/C) in original to be submitted as per prescribed format of this Deptt. (available from our Website)
- b) Detailed Statement of Expenditure (SoE) signed by the Drawing & Disbursing Officer of the Concerned Institute along with Audited Statement of Expenditure to be submitted in time.

2. Project Personnel Recruitment:

- a) Advertisement to be published by the Institute after receiving fund from DSTBT
- b) Formation of Interview Committee
- c) Recruitment of JRF/SRF as per Qualification & Experience framed by the DSTBT
- d) Name of the selected JRF/SRF along with their qualification & experience may be kept by the Institute
- d) Salary/Remuneration may be credited to the Bank A/C of the project personnel or as per guidelines of the Institution.

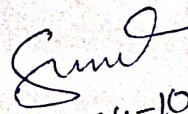
Copy of the above mentioned points/issues to be submitted to this Department (DSTBT)

3. Travel :

- a) No Project fund can be used for attending Seminar, Conference, Workshop etc.
- b) No Air fare is allowed within the Country from project fund and No International travel is allowed from Project fund

4. No Awareness camp/Seminar/ workshop is allowed from the project fund.

5. Purchase of Equipments / Consumables: Purchase procedure must be followed by the Institution's Guidelines.


04-10-2023



12-12-2022

Dr Ambarish Ghosh,
Professor (HAG) & Head,
Department of Civil Engineering
IEST, Shibpur

Sir,

Your Ref: IEST/CED/EHPPL/01/22 dt 02-11-2022

Reg: Project proposal for Bank Protection methodologies by filled up HDPE Anti Slip Bags

With reference to above, the Board of Directors in its meeting held on 10-12-2022 has accorded its approval for acceptance of the offer for funding of Rs 12 Lakhs (Rs Twelve Lakhs) only being Project Cost for the consortium project led by Department of Civil Engineering, IEST, Shibpur and framed as “**Development of Bank Protection Methodologies for Various Vulnerable Reaches of Rivers in West Bengal through Model Studies and Preparation of Design Charts and Guidelines**” and expressed its thankfulness to become a part of the Project team.

In this regard, please send us the **Account Details** for transfer of the amount of the Project Cost.

Thanks & Regards,

For East Hooghly Poly Plast Pvt. Ltd.

East Hooghly Polyplast Pvt. Ltd.

Director



A Consortium Project Proposal
on

**Development of Bank Protection Methodologies for
Various Vulnerable Reaches of Rivers in West
Bengal through Model Studies and Preparation of
Design Charts and Guidelines**

Submitted to:

Irrigation & Waterways Directorate, Government of West Bengal

By

Prof. (HAG) Ambarish Ghosh (PI)
Dr. Dipankana Bhattacharjee (Co-PI)
Dr. Saptarshi Kundu (Co-PI)
Dr. Supia Khatun (Co-PI)



**Department of Civil Engineering
Indian Institute of Engineering Science and Technology, Shibpur
(IIEST Shibpur) Howrah - 711 103**

August 31, 2022

Sumit
04-10-2023

PARTICIPATING ORGANIZATION

Indian Institute of Engineering Science and Technology, Shibpur

Aliah University

Irrigation & Waterways Directorate, Government of West Bengal

Haringhata River Research Institute

Sunil
04-10-2023



UNIVERSITY
OF WARSAW

CeNT CENTRE
OF NEW
TECHNOLOGIES

Warsaw, September 27th, 2018

To whom it may concern

dr Iwona Cymerman
Deputy Director
Centre of New Technologies
University of Warsaw
e: i.cymerman@cent.uw.edu.pl

INVITATION LETTER

On behalf of myself and Prof. Dariusz Plewczyński, from the Laboratory of Functional and Structural Genomics, I invite **Mr Dr. Ayatullah Faruk Mollah**, the holder of passport number: L9709944, residing in Vill-Nischindapur, PO-Belari, PS-Shyampur, Dist-Howrah, State-West Bengal, India, postal code: PIN-711315, to work at the Centre of New Technologies University of Warsaw, Poland.

Employment of Mr Dr. Ayatullah Faruk Mollah at the Centre of New Technologies University of Warsaw is planned for the term from **12.11.2018 to 10.05.2019**. During his stay in Poland Mr Dr. Ayatullah Faruk Mollah will realize in CeNT UW a research project entitled "iCell: information processing in living organisms. The role of three-dimensional structure and multi-scale properties in controlling the biological processes in a cell", funded by The National Science Centre (OPUS 8 PSP: 501-D313-66-0005000).

Mr Dr. Ayatullah Faruk Mollah's monthly net salary is approximately 2 160 PLN. The amount will be paid every month to Mr Dr. Ayatullah Faruk Mollah's account by CeNT UW. It will allow to cover the costs of obtaining a visa, travel to Poland and vice versa, getting medical insurance and accommodation in Poland.

In the period preceding the employment of Mr Dr. Ayatullah Faruk Mollah the Centre of New Technologies will provide any kind of necessary support.

Therefore, I kindly ask you to give favorable consideration to Mr Dr. Ayatullah Faruk Mollah visa application.

Sincerely yours,
UNIWERSYTET WARSZAWSKI
Centrum Nowych Technologii

dr Iwona Cymerman
Z-ca Dyrektora CeNT UW
dr Iwona Cymerman


dr hab. Dariusz Plewczyński, prof UW

Dated: 14-Nov-2019

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to Dr. Obaidullah Md Sk, Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071- under the mentorship of Prof. Umapada Pal, at Indian Statistical Institute 203 Barrackpore Trunk Road - 700108- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of Rs. 18,30,000/- (Rs. Eighteen Lakh Thirty Thousand Only) for a duration of 36 months.

The date of start of the project will be 22 October, 2019. The items of expenditure for which the total allocation of Rs. 18,30,000/- has been approved are given below:

The following budget is proposed for

Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) to Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City, Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debit to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Electrical Electronics & Computer Engineering)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/6401/2019-2020 dated 07 November, 2019

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 (Parent Institute):

PFMS Unique Code	aliah
Account Name	Aliah University (R&D/DST)
Account Number	32210200000120
Bank Name & Branch	Bank of Baroda DN-14, Sector V, Salt Lake City, Kolkata 700091, West Bengal
IFSC/RTGS Code	BARB0GENSAL
Email address of PI	sk.obaidullah@gmail.com
Email id of A/C Holder	foaliah18@gmail.com
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Host Institute):

PFMS Unique Code	ISI
Account Name	Indian Statistical Institute
Account Number	50401260326
Bank Name & Branch	Allahabad Bank Dunlop Bridge Branch, 149 B. T Road, Kolkata 700035, West Bengal
IFSC/RTGS Code	ALLA0210631
Email address of PI	sk.obaidullah@gmail.com
Email id of A/C Holder	amukherjee@isical.ac.in
Email address of concerned officer	ms_tare@serbonline.in

9. Both the institutes will furnish Utilization certificate(UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. TAR/2019/000273 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

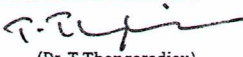
15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. T Thangaradjou)
Scientist E
ms_tare@serbonline.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to :-

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	(i) Dr. Obaidullah Md Sk Computer Science & Engineering Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: sk.obaidullah@gmail.com Mobile: 919830368169 (ii) Prof. Umapada Pal Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	(i) Vice Chancellor, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (ii) Director Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Receipt of Grant may be intimated by name to the undersigned)


(Dr. T Thangaradjou)
Scientist E
ms_tare@serbonline.in

Invitation to contribute an article for Encyclopedia of Renewable and Sustainable Materials

MRW-RESM@elsevier.com <MRW-RESM@elsevier.com>

Wed 3/14/2018 11:03 AM

To: adas.us@gmail.com <adas.us@gmail.com>

**The Editorial Board**

M A Maleque
Emin Bayraktar
Imtiaz Choudhury
David Grau
Julfikar Haider
Saleem Hashmi
Maleka Hashmi
Gautam Majumdar
Henk Metselaar
Zahid Qamar
Madhumita Roy

Dear Dr. Abhishek Das,

On behalf of Imtiaz Choudhury and Saleem Hashmi, we formally invite you to contribute to the Encyclopedia of Renewable and Sustainable Materials.

This contribution, Carbon Footprint Reduction Instrument, has been selected for inclusion in the online Reference Module published by Elsevier, entitled Materials Science and Materials Engineering, and to appear in Encyclopedia of Renewable and Sustainable Materials.

We would be delighted if you would accept this formal invitation to contribute to this new publication.

If you can do it, we would like you to submit three months from the date of this email at the latest. Our time frames are flexible however so please do let me know if you need more time.

To say 'Thank you' for your contribution, Elsevier will provide the lead author with 12 months free online access to the Reference Module in Materials Science and Materials Engineering on www.sciencedirect.com. This will give you access to the full contents of the module. Plus an honorarium of \$100 US dollars and an electronic PDF offprint of your contribution.

To accept, please click [Accept](#)

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Once accepted, please follow these steps:

1. Set up your account password in EPS
2. Log in
3. Make sure the correct publication is selected in the orange box in the top left (Encyclopedia of Renewable and Sustainable Materials)
4. Click on your article title (which should appear in your workqueue)
5. Formally accept the invitation by clicking the blue acceptance button
6. Select length of submission and generate your contract (if not selecting the 90 day option, please send a message to the project mailbox to detail why)

This should take approximately 1-2 minutes to complete, so if you could action this as soon as possible this would be incredibly helpful for the development of the project. Your author instructions will be available for download via the Help tab in the top right hand corner of your homepage.

We very much hope you will agree to participate in this exciting venture. We would appreciate it if you could please ensure you have clicked one of the links above as soon as possible so we are able to move forward with this project.

Thanks for your consideration, and I look forward to hearing from you.

Kind regards,

Michael Nicholls
Project Manager
Encyclopedia of Renewable and Sustainable Materials

Please reply to:
MRW-RESM@elsevier.com
Michael Nicholls

Yours sincerely,
Athena EPS



HP Inc.
Cyber Green
DLF Cyber City
Gurgaon
India

www.hp.com

July 06 2018

Dear Dr. Das,

Greetings from HP Inc. India.

Apropos discussion and subsequent communication, HP Inc. India is pleased to contribute for setting up Machine Learning (ML) and Artificial Intelligence (AI) Lab at Aliah University, Kolkata. HP will provide 1 unit of HP Z workstation and 2 units of 24" Z Display valued at approx. 2 Lac.

Principal Investigator (PI) will be
Dr. Abhishek Das,
Associate Professor & Head
Dept. of Computer Science and Engineering
Aliah University
Kolkatta

The Lab will be branded as "Powered by HP" and opportunity for HP executives to interact with Students, Research Scholars and Faculty Members.

Warm Regards,

A handwritten signature in black ink, appearing to read 'Sanjiv Mehta'.

Sanjiv Mehta
Country Manager
Education, Healthcare and Startup's

sanjiv.mehta@hp.com
+91882611511

A handwritten signature in black ink, appearing to read 'Ajm'.



**IIT Ropar – Technology and
Innovation Foundation for
Agriculture and Water Technology
Development Hub (AWaDH)**

CIN: U80100PB2020NPL051623

A Technology Innovation Hub established by the
Department of Science & Technology (DST),
Government of India, in the framework of National
Mission on Interdisciplinary Cyber-Physical
Systems (NM – ICPS)

316/317, M. Visvesvaraya Block
Indian Institute of Technology Ropar
E-mail awadh@iitpr.ac.in

File Number: AWaDH-SpINe/IITRPR/2022/P10011

To,

1. Dr. Ranjeet Kumar Rout,
Department of Computer Science and Engineering,
National Institute of Technology, Srinagar,
Hazratbal, Kashmir-190006 (J&K).
2. Dr. Saiyed Umer,
Department of Computer Science and Engineering,
Aliah University, Newtown, Kolkata- 700156

Greetings from IIT Ropar - Technology and Innovation Foundation (AWaDH)

Your project, "**Design and Development of Agriculture-Artificial Intelligence Based Techniques for Saffron Production in India**" has been reviewed by our expert(s). We are happy to inform you that the above mentioned project is approved for grant-in-aid/ in kind as per the following budget heads.

Total Budget Approved:

Budget Head		Amt (in Rs) for 3 years
Manpower	Recurring	13,50,240
Excursion and Field/Testing		3,00,000
Consumables		2,00,000
Equipments	Non-Recurring	1,90,000
Total		20,40,240

The allocations of funds for first year are as follows:

Budget Head		Amt (in Rs) for 1st year
Manpower	Recurring	4,31,520
Excursion and Field/Testing		1,00,000
Consumables		1,00,000
Equipments	Non-Recurring	1,90,000
Total		8,21,520

The next installment will be released after the evaluation of previous year performance by the expert(s) committee. The guidelines/norms for the project being funded should strictly be followed as per the directions of the funding agency and Institute/AWaDH from time-to-time. It is further informed that in all projects approved for the AWaDH- SpINe (Spoke Institutions Network), there is no provision of overhead charges as the projects are being executed /awarded to the partner Institutions in the framework of Spoke Institute Network.

Note: It is required that the PI should send an endorsement letter from the Industry partner addressed to the Project Director, IIT Ropar- Technology and Innovation Foundation (AWaDH) of the proposed research project with a support of 20% cost of the project in any form. This condition is mandatory for the release of grants.

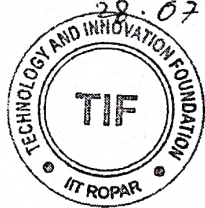
Please send your acceptance on the letterhead of the institute duly endorsed by the competent authority at your Institute. You are also requested to provide the bank details so that the first year grant may be released.

We look forward to working with you for a sustainable future.

Best Wishes.

Dr. Pushendra P. Singh

Dr. Pushendra P. Singh



[Handwritten signature]

ERCIM “Alain Bensoussan” Fellowship Programme



Certificate of Completion

This certifies that

Dr Sumanta Ray

has successfully completed the ERCIM “Alain Bensoussan” Fellowship Programme
at CWI
From 1st July 2019 to 31st August 2020

Sophia Antipolis, October 1st, 2020

Björn Levin, ERCIM President



**Stipendienvertrag
für Studierende, Doktorandinnen und Doktoranden sowie
Postdotorandinnen und Postdotoranden**

zwischen der

Universität Bielefeld, vertreten durch den Rektor,
Technische Fakultät, AG Genome Data Science
Haushalt: Kst.: 39200020
Universitätsstraße 25, 33615 Bielefeld,
- nachfolgend Universität genannt -

und

Samanta Ray
Geb. 09.08.1986
Hospital Road, Boinchigram, Hooghly, Pin-712135, West Bengal, India
Steueridentifikationsnummer:
- nachfolgend Stipendiatin oder Stipendiat genannt -

und

Herrn Prof. Dr. Alexander Schönhuth
als verantwortliche Wissenschaftlerin oder verantwortlichem Wissenschaftler
(Betreuerin / Betreuer)

1. Bewilligung eines Stipendiums

Die Universität Bielefeld/Technische Fakultät gewährt der Stipendiatin / dem Stipendiaten mit dem Ziel einer (weitergehenden) wissenschaftlichen Qualifikation

a*) gemäß den Richtlinien der DFG

b) aus Haushaltsmitteln ein Promotionsstipendium vom 15.10.2020 bis zum 14.04.2021, d.h. für einen Zeitraum von 6 Monaten. Die Höhe des Stipendiums beträgt monatlich 1.700,00 Euro. Die Zahlung erfolgt monatlich auf die im Stammbblatt (Anlage A) genannte Bankverbindung.

c) Das Stipendium wird für das folgende Vorhaben gewährt (Thema):

" Erstellung und Implementierung von Programmierrahmen, die die Analyse der genetischen Vielfalt von Krankheiten unterstützen."

d) Das Stipendium begründet kein Arbeitsverhältnis; es ist kein Entgelt im Sinne von § 14 Sozialgesetzbuch IV. Die Annahme des Stipendiums verpflichtet die Stipendiatin / den Stipendiaten zu keiner bestimmten Gegenleistung und zu keiner Arbeitsnehmertätigkeit. Das Stipendium ist als Zuschuss zum Lebensunterhalt und nicht als Gegenleistung für eine wissenschaftliche Tätigkeit zu verstehen. Das Stipendium ist deshalb gemäß § 3 Nr. 44 des Einkommensteuergesetzes steuerfrei und sozialversicherungsfrei.

2. Bedingungen für die Gewährung des Stipendiums

- a) Mit der Gewährung des Stipendiums ist die Verpflichtung verbunden, die volle Arbeitskraft auf das geplante Arbeitsvorhaben zu konzentrieren. Da das Stipendium kein Arbeitsverhältnis begründet, besteht kein Urlaubsanspruch und finden Urlaubsregelungen gesetzlicher oder tariflicher Art keine Anwendung.
- b) Über Verlauf und Ergebnisse der Studien legt die Stipendiatin / der Stipendiat über die Betreuerin / den Betreuer mindestens einmal jährlich an die o.g. Einrichtung in schriftlicher Form einen Bericht vor.
- c) Die Stipendiatin / der Stipendiat hat die Ergebnisse der durch das Stipendium geförderten Studien nach Möglichkeit der Öffentlichkeit zugänglich zu machen.
- d) Die Stipendiatin / der Stipendiat wird regelmäßig an einschlägigen Veranstaltungen teilnehmen.
- e) Übt eine Stipendiatin oder ein Stipendiat neben der Bearbeitung des wissenschaftlichen Vorhabens eine Berufstätigkeit aus, so ist eine Förderung nach diesen Richtlinien ausgeschlossen, sofern es sich nicht um eine Tätigkeit von geringem Umfang handelt. Als Berufstätigkeit von geringem Umfang gilt eine Tätigkeit bis zu acht Stunden wöchentlich. Die Stipendiatin / der Stipendiat hat die o.g. Einrichtung über jede Berufstätigkeit zu informieren.
- f) (1) Unterbricht die Stipendiatin oder der Stipendiat ihr oder sein wissenschaftliches Vorhaben, so unterrichtet sie oder er die Universität unverzüglich. Die Zahlung des Stipendiums ist vom Zeitpunkt der Unterbrechung an auszusetzen. Zeigt die Stipendiatin oder der Stipendiat das Ende der Unterbrechung an, wird die Zahlung wieder aufgenommen und die Bewilligung um den Zeitraum der Unterbrechung verlängert.
(2) Bei einer Unterbrechung wegen Krankheit oder aus einem anderen wichtigen, von der Stipendiatin oder dem Stipendiaten nicht zu vertretenden Grund kann das Stipendium bis zu sechs Wochen fortgezahlt werden. Eine darüber hinausgehende, längerfristige Unterbrechung, insbesondere Erkrankung ist unverzüglich anzuzeigen.
(3) An Stipendiatinnen, die während eines Bewilligungszeitraumes niederkommen, wird das Stipendium fortgezahlt. Außerdem wird diesen Stipendiatinnen auf Antrag eine Verlängerung von vier Monaten gewährt.
- g) Die Stipendiatin / der Stipendiat informiert die o.g. Einrichtung unverzüglich, wenn das Vorhaben unterbrochen, geändert, vorzeitig abgeschlossen oder abgebrochen wird.
- h) Die Stipendiatin / der Stipendiat ist verpflichtet, alle Informationen, die sie oder er direkt oder indirekt im Rahmen des Arbeitsvorhabens von der Universität erhält, wie z. B. Daten, Unterlagen, Zeichnungen, Materialien, Proben und andere Gegenstände, vertraulich zu behandeln, nur im Zusammenhang mit dem o. g. Vorhaben zu verwenden und Dritten nicht zugänglich zu machen.
- i) Die Stipendiatin / der Stipendiat verpflichtet sich, den Nachweis einer Krankenversicherung für die Dauer des Stipendiums zu erbringen. Die Kosten werden von der Stipendiatin / dem Stipendiaten übernommen.
- j) Für schuldhaft verursachte Schäden haftet die Stipendiatin / der Stipendiat selbst. Ihr oder ihm obliegt es, für entsprechenden Versicherungsschutz zu sorgen. Der Abschluss einer privaten Haftpflicht- und Unfallversicherung wird empfohlen.
- k*) Die Stipendiatin / der Stipendiat wird sich bei Vorliegen der Voraussetzungen in den Promotionsstudiengang NWI einschreiben.

3. Die Bewilligung des Stipendiums kann zurückgenommen werden:

- a) wenn es nicht zum vorgesehenen Zeitpunkt angetreten wird,
- b) wenn die Bewilligung durch unrichtige oder unvollständige Angaben erwirkt wurde,
- c) wenn etwaige Auflagen nicht oder nicht innerhalb der gesetzten Fristen erfüllt wurden,
- d) wenn das Stipendium nicht zweckentsprechend verwandt worden ist,
- e) wenn der Universität die erforderlichen Mittel nicht zur Verfügung gestellt werden,
- f) wenn die Stipendiatin / der Stipendiat gegen die o.g. Bedingungen verstößt oder

g) wenn wesentliche Voraussetzungen für eine erfolgreiche Durchführung des Vorhabens nicht mehr gegeben sind oder sonst ein wichtiger Grund vorliegt.

4. Vorgaben des Stipendiengabers haben Vorrang vor den Bestimmungen dieses Vertrages.

5. Alle Änderungen und Ergänzungen dieses Vertrages bedürfen der Schriftform.

6. Der Meldebogen (Anlage A) ist Bestandteil des Vertrages.

7. Dieser Vertrag unterliegt dem deutschen Recht.

Bielefeld, den.....12-10-2020.....

Universität Bielefeld
Der Rektor/ggf. Vertreter der Einrichtung

Stipendiatin / Stipendiat

i.A.

Sumantra Singh
.....

Betreuerin / Betreuer

.....

*) ggfls. streichen



Gastwissenschaftler*innenvertrag

zwischen
der Universität Bielefeld, vertreten durch den Kanzler, Universitätsstraße 25, 33615 Bielefeld

- nachfolgend **Universität** genannt -

und

Frau/Herrn

Name, Vorname: _____

Straße, PLZ, Ort: _____

Nationalität: _____

Geburtsdatum: _____

Erster Wohnsitz: _____

Steuernummer (Erstwohnsitz in Deutschland): _____

IBAN / Kontonummer: _____

BIC: _____

SWIFT: _____

Name der Bank: _____

- nachfolgend **Gastwissenschaftler*in** genannt -

Übersicht für Buchungszwecke	
Zuschuss Forschungsaufenthalt insgesamt (keine USt): _____ €	
Kostenstelle/ PSP-Element: _____	
Honorar für Dienstleistungen insgesamt: _____ €	
Kostenstelle/ PSP-Element: _____	
Die vorgesehene Auszahlung soll	
<input type="checkbox"/> auf das angegebene Bankkonto überwiesen werden	
Datum: _____ Betrag: _____ €	Datum: _____ Betrag: _____ €
Datum: _____ Betrag: _____ €	Datum: _____ Betrag: _____ €
Datum: _____ Betrag: _____ €	Datum: _____ Betrag: _____ €
<input type="checkbox"/> bar ausgezahlt werden (am _____)	
Ggf. vorgesehene Abschlagszahlungen:	
Datum: _____ Betrag: _____ €	Datum: _____ Betrag: _____ €
Datum: _____ Betrag: _____ €	Datum: _____ Betrag: _____ €

Präambel

Die Universität Bielefeld bietet Wissenschaftler*innen anderer Einrichtungen, die keine Mitglieder der Universität Bielefeld sind, die Möglichkeit, im Rahmen eines Gastaufenthaltes an der Universität zu forschen und mit den Wissenschaftler*innen vor Ort zusammenzuarbeiten. Gastwissenschaftler*innen sind solche Personen, die sich auch aus wissenschaftlichem Eigeninteresse an der Universität aufhalten und wissenschaftlichen Tätigkeiten nachgehen, und nicht ausschließlich zum Zwecke der Erbringung einer Dienstleistung die Universität besuchen.

§ 1 Einzelheiten des Gastaufenthalts

Der/die Gastwissenschaftler*in hält sich in der Zeit vom _____ bis zum _____
an der Universität auf, um...

1. reiner Forschungsaufenthalt

...auf folgendem Gebiet wissenschaftliche Erkenntnisse mit den Wissenschaftler*innen der
Universität auszutauschen und eigener Forschungstätigkeit nachzugehen:

Der/die Gastwissenschaftler*in erhält zu seinem/ihrer Forschungsaufenthalt einen finanziellen
Zuschuss in Höhe von insgesamt _____ €

Dies erfolgt ggf. unter vorheriger Verrechnung mit Forderungen der Universität (z.B. aus einem
Mietverhältnis).

Der Zuschuss setzt sich zusammen aus

Fahrtkostenpauschale: _____ €

Aufenthaltspauschale: _____ €

Die Höhe des Zuschusses begründende Dokumente¹, soweit vorhanden, liegen bei bzw. die
Maximalwerte² sind nicht überschritten.

Diese Zahlung stellt einen Zuschuss zum Lebensunterhalt dar und keine Gegenleistung für eine
wissenschaftliche Tätigkeit. Die Höhe ist an den finanziellen Bedarf gebunden.

Der Zuschuss wird gewährt

- bei einem Aufenthalt von einer Dauer bis zu einem Monat ggf. bereits zu bzw. vor Beginn des
Aufenthalts, aber stets erst nach allseitiger Unterzeichnung dieses Vertrages
- bei einem längeren Aufenthalt in Form monatlicher Zahlungen.

Bei Bedarf kann zu Beginn des Aufenthalts ein Abschlag gezahlt werden. Eine Barauszahlung ist
möglich. Im Falle eines vorzeitigen Abbruchs des Aufenthalts kann die Universität die bereits
geleisteten Abschlagszahlungen anteilig zurückfordern, soweit der Zeitraum, für den sie bestimmt
waren, nicht mehr vollständig an der Universität verbracht wird.

und/oder:

Eine Erstattung von Fahrt- oder Aufenthaltskosten erfolgt ggf. auf Antrag nach dem
Landesreisekostengesetz NRW (diese Möglichkeit besteht nur, wenn die jeweilige Kostenart nicht
bereits als Pauschale gezahlt wird).

¹ Bei Haushaltsmitteln: Fakultätseigene Regelungen zu Gästepauschalen; bei Drittmitteln: Zuwendungsvertrag/
Bewilligung des Drittmittelgebers sowie Finanzierungsplan.

² Maximalwerte vgl. Merkblatt zur Abwicklung von „Abwicklung von Gastaufenthalten von
Wissenschaftler*innen aus dem In- und Ausland“

ggf. und:

2. Dienstleistung im Rahmen des Forschungsaufenthaltes

...eine Dienstleistung³ (z.B. in Form eines Vortrages oder eines Seminars) zum folgenden Thema / den folgenden Themen zu erbringen:

Die vorliegende Dienstleistung stellt keinen regelmäßigen Beitrag zum Lehrbetrieb der Universität Bielefeld dar.⁴

Der/die Gastwissenschaftler*in erhält für seine/ihre Leistung im Sinne des § 1 Nr. 2 eine Vergütung in Höhe von insgesamt _____ €.

Die Höhe des Honorars begründende Dokumente⁵ liegen, soweit vorhanden, bei.

Mit diesem Honorar sind alle Aufwendungen des/der Gastwissenschaftler*in abgegolten. Zusätzlich zum Gesamtbetrag wird die Universität bei Gastwissenschaftler*innen mit Wohnsitz im Ausland die gesetzliche Umsatzsteuer an das zuständige Finanzamt in Deutschland abführen und die Zahlung dem Finanzamt melden.

Für Gastwissenschaftler*innen mit Wohnsitz im Inland ist ein Honorarbetrag anzugeben, der die gesetzliche Umsatzsteuer bereits enthält.

Handelt es sich um einen reinen Forschungsaufenthalt nach **Nr. 1**, gelten **§§ 2, 4, 5, 6 und 7**. Es fällt keine Umsatzsteuer auf die vereinbarten Pauschalen/Zuschüsse zum Lebensunterhalt an.

Handelt es sich um einen Aufenthalt inklusive Dienstleistung nach **Nr. 2**, gelten **§§ 3, 4, 5, 6 und 7**. Auf das gezahlte Honorar fällt Umsatzsteuer an, sofern der/die Gastwissenschaftler*in seinen/ihren Wohnsitz im Ausland hat.

Erfolgt die Dienstleistung nach **Nr. 2** unter Einbindung in den Lehrplan, ist ggf. ein Lehrauftrag zu vereinbaren. Bitte halten Sie hierzu Rücksprache mit Dez. **P/O**.

³ Von einer Dienstleistung ist auszugehen, wenn die Erbringung der Leistung nicht im eigenen wissenschaftlichen Interesse der leistungserbringenden Person erfolgt, Beispiele hierfür sind das Halten eines öffentlich Vortrags oder eines Seminars.

⁴ Im Falle eines Beitrags zum Lehrbetrieb ist ein Lehrauftrag abzuschließen. Bitte kontaktieren Sie Dez. P/O.

⁵ Bei Haushaltsmitteln: Fakultätseigene Regelungen; bei Drittmitteln: Zuwendungsvertrag/ Bewilligung des Drittmittelgebers sowie Finanzierungsplan. Bei Drittmittelgebern, die keine eigenen Regelungen zur Vergütung von Gastwissenschaftler*innen-Aufhalten haben, gelten die fakultätseigenen Regelungen

§ 2 Regelungen für reine Forschungsaufenthalte i.S.v. § 1 Nr. 1

Der/die Gastwissenschaftler*in geht eigenverantwortlich seiner Forschungstätigkeit nach. Es besteht gegenüber der Universität keinerlei Leistungspflicht. Er/sie unterliegt im Hinblick auf die Ausgestaltung des Austausches und seiner Forschungstätigkeit keinerlei Weisungsrecht der Universität.

Er/sie erhält die Möglichkeit, die Einrichtungen der gastgebenden Fakultät in angemessenem Umfang zu nutzen, soweit es für seine/ihre Forschungstätigkeit erforderlich ist. Dabei hat er /sie alle an der Universität geltenden Ordnungen und Regelungen zu beachten.

§ 3 Regelungen für Gastvortragende i.S.v. § 1 Nr. 2

Der/die Gastwissenschaftler*in hält den Gastvortrag in eigener Verantwortung. Er/sie unterliegt keinerlei Weisungsrecht der Universität.

Er/sie erhält die Möglichkeit, die Einrichtungen der gastgebenden Fakultät in angemessenem Umfang zu nutzen, soweit es für seine/ihre Vortragstätigkeit erforderlich ist. Dabei hat sie/er alle an der Universität geltenden Ordnungen und Regelungen zu beachten.

§ 4 Steuern, Versicherungen, Visa

Alle über die in § 1 Nr. 2 genannten hinausgehenden steuerlichen oder sozialversicherungsrechtlichen Verpflichtungen nach deutschem und ausländischem Recht hat der/die Gastwissenschaftler*in eigenverantwortlich zu regeln.

Das betrifft auch den Abschluss von Versicherungen (etwa Haftpflicht-, Unfall-, Krankenversicherung). Eine Absicherung über die Universität erfolgt nicht.

Der/die Gastwissenschaftler*in ist außerdem selbst für die Beachtung und Einhaltung der geltenden gesetzlichen Bestimmungen hinsichtlich des Aufenthalts in Deutschland (z.B. Visa, Meldebestimmungen) verantwortlich.

§ 5 Geheimhaltung

Der/die Gastwissenschaftler*in verpflichtet sich, über alle Angelegenheiten, von denen er/sie während seines Aufenthalts Kenntnis erlangt und die als vertraulich bezeichnet oder erkennbar sind, Stillschweigen zu bewahren. Dies gilt auch nach Beendigung dieses Vertrages.

§ 6 Vertragslaufzeit, Beendigung, Änderungen

Die Vereinbarung endet automatisch mit Enddatum des unter § 1 genannten Gastaufenthalts an der Universität.

Während der Vertragslaufzeit ist eine Kündigung des Vertrages nur aus wichtigem Grund und mit zweiwöchiger Frist zum Monatsende möglich.

Über Änderungen von tatsächlichen Umständen hinsichtlich der Durchführung des Vertrages (beispielsweise Abbruch / verfrühte Abreise) sind die Dezernate P/O und F umgehend durch die zuständige Projektleitung bzw. den/die verantwortliche/n Professor/in zu informieren.

§ 7 Schlussbestimmungen

Sollte eine Bestimmung dieses Vertrages unwirksam oder undurchführbar sein, so berührt dies die Wirksamkeit des Vertrages im Übrigen nicht.

Auf das Vertragsverhältnis sowie auf alle aus diesem erwachsenden Rechtsstreitigkeiten ist ausschließlich deutsches Recht anzuwenden, soweit internationale Bestimmungen nicht entgegenstehen.

Soweit dies nach § 38 ZPO zulässig ist, wird als Gerichtsstand Bielefeld vereinbart.

Es wird bestätigt, dass im Rahmen des o.g. Projektes / bei der o.g. Stelle ausreichende Mittel vorhanden sind und sofern es sich um ein Drittmittelprojekt handelt, die Verwendung für den vorliegenden Zweck den Regularien des Drittmittelgebers entspricht. Die fakultätseigenen Regelungen zur Höhe von Reise- und Aufenthaltspauschalen bzw. Honoraren (bei Haushaltsmitteln) bzw. Zuwendungsvertrag/ Bewilligung des Drittmittelgebers sowie Finanzierungsplan (bei Drittmitteln) liegen bei.

For guest researchers from abroad who do not speak German:
I have been provided with an English translation of this contract and have fully understood the contents of the agreement that I am entering into.

_____	_____
Ort, Datum – Gastwissenschaftler*in	Ort, Datum - der Kanzler, im Auftrag Fakultäts- /Instituts-/Dezernatsleitung
_____	_____
verantwortliche/r Professor*in / Projektleitung	Ort, Datum - Dezernat P/O (sachlich / rechnerisch richtig)

Dated: 24-Feb-2022

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. Sumanta Ray, Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071**- under the mentorship of Prof. Sanghamitra Bandyopadhyay, at **Indian Statistical Institute 203 Barrackpore Trunk Road - 700108**- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of **Rs. 18,30,000/-** (Rs. Rupees Eighteen Lakh Thirty Thousand only) for a duration of 36 months.

The date of start of the project will be 09 December, 2021. The items of expenditure for which the total allocation of **Rs. 18,30,000/-** has been approved are given below:

The following budget is proposed for

Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) to **Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City, Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) to **Indian Statistical Institute 203 Barrackpore Trunk Road - 700108** being the first installment of the grant for the year 2021-2022 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Electrical Electronics & Computer Engineering)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. **SERB/F/6965/2021-2022** dated 10 January, 2022

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 (Parent) :

PFMS Unique Code	aliah
Account Name	ALIAH UNIVERSITY DST
Account Number	32210100006641
Bank Name & Branch	BANK OF BARODA DN-14, SECTOR V, SALT LAKE CITY, KOLKATA-700091
IFSC/RTGS Code	BARBOGENSAL
Email address of PI	sumantababai86@gmail.com
Email id of A/C Holder	foaliah18@gmail.com
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Host) :

PFMS Unique Code	ISI
Account Name	Indian Statistical Institute
Account Number	50401260326
Bank Name & Branch	INDIAN BANK Dunlop Bridge Branch, 149 B T Road, Kolkata-700035
IFSC/RTGS Code	IDIB000D682
Email address of PI	sumantababai86@gmail.com
Email id of A/C Holder	amukherjee@isical.ac.in
Email id of Mentor	Prof. Sanghamitra Bandyopadhyay

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. TAR/2021/000072 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

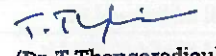
15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	(i) Dr. Sumanta Ray Computer Science and Engineering Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: sumantababai86@gmail.com Mobile: 919231879956 (ii) Prof. Sanghamitra Bandyopadhyay Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	(i) Vice-Chancellor, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (ii) Director Indian Statistical Institute 203 Barrackpore Trunk Road - 700108 (Receipt of Grant may be intimated by name to the undersigned)


(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in

Project

FILE NO. TAR/2022/000367
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 16-Jan-2023

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. Souvik Sengupta, Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071**- under the mentorship of **Asit Kumar Das, at Indian Institute of Engineering Science and Technology Botanic Garden, Howrah - 711103**- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of **Rs. 18,30,000/-** (Rs. Rupees Eighteen Lakh Thirty Thousand only Only) for a duration of 36 months.

The date of start of the project will be 28 October, 2022. The items of expenditure for which the total allocation of **Rs. 18,30,000/-** has been approved are given below:

The following budget is proposed for

Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Institute of Engineering Science and Technology Botanic Garden, Howrah - 711103 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) to **Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City**, **Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) to **Indian Institute of Engineering Science and Technology Botanic Garden, Howrah - 711103** being the first installment of the grant for the year 2022-2023 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Electrical Electronics & Computer Engineering)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. **SERB/F/7973/2022-2023** dated **12 December, 2022**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 (Parent) :

PFMS Unique Code	aliah ✓
Account Name	Aliah University

Souvik Sengupta
10.10.23

Account Number	32210100006641
Bank Name & Branch	Bank of Baroda Bank of Baroda, GENNEXT, DN 14, SECTOR-V, Saltlake, Kolkata, WB, Pin-700091
IFSC/RTGS Code	BARB0GENSAL
Email address of PI	mesouvik@gmail.com
Email id of A/C Holder	foaliah18@gmail.com
Email address of concerned officer	ms_ps@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Indian Institute of Engineering Science and Technology Botanic Garden, Howrah - 711103 (Host) :

PFMS Unique Code	IEST01
Account Name	IEST SHIBPUR R & D ACCOUNT -1
Account Number	1532010005180
Bank Name & Branch	PUNJAB NATIONAL BANK BESUS Branch, IEST, Shibpur, P.O- Botanic Garden, Howrah, West Bengal, Pin 711103
IFSC/RTGS Code	PUNB0153220
Email address of PI	mesouvik@gmail.com
Email id of A/C Holder	dr.finance@iests.ac.in
Email id of Mentor	Asit Kumar Das

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

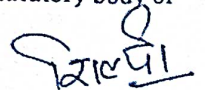
11. The File no. TAR/2022/000367 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. Shilpi Paul)


Scientist F

ms_ps@serbonline.in

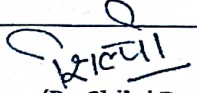
To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, 11th Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

 10.10.22

4.	<p>(i) Dr. Souvik Sengupta CSE Aliah University , Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: mesouvik@gmail.com Mobile: 919831245327</p> <p>(ii) Asit Kumar Das Indian Institute of Engineering Science and Technology Botanic Garden, Howrah - 711103</p> <p>(Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>(i) Vice-Chancellor, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City</p> <p>(ii) Director Indian Institute of Engineering Science and Technology Botanic Garden, Howrah - 711103</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Shilpi Paul)
Scientist F
ms_ps@serbonline.in

Souvik Sengupta
10.10.23

Completed

Annexure

3(b)

①



Revathy Vishwanath
Assistant Director I/c (RP)
Tel # 011-26716690

Indian Council of Social Science Research
(Ministry of Human Resource Development)
JNU Institutional Area, Aruna Asaf Ali Marg
New Delhi - 110067
E-mail: rpr@icssr.org Website: www.icssr.org

F.No. 02/085/2016-17/RP

Dated: 29.04.2016

Dear Dr. Rukhsana

We are happy to inform you that ICSSR has considered your research project proposal entitled "**Nature and Dimensions of Crop Diversification: Empirical Evidence from Smallholders in West Bengal**" sanctioned and approved a grant-in-aid of ₹ 10, 00,000/- with duration of 24 months for the study.

Before we issue a formal sanction order, you are requested to communicate the following,

1. **Probable date of commencement of the project**
2. An **agreement with the ICSSR** on a non-judicial stamp paper of ₹ 100/- (copy attached)
3. And **Grant-in-aid bill** in the enclosed format for ₹ 4, 00,000/- as first installment of 40% of the total grant of ₹ 10, 00,000/-.

Kindly send all the desired documents to the undersigned to enable us to issue the formal sanction order.

With regards,

Yours sincerely,

(Revathy Vishwanath)

Encl: as above.

Dr. Rukhsana
SP105/Siddha Town
Nr Shikher Bagan, Rajarhat
Kolkata-700136 (W.B.)

Copy to:

The Registrar
Allah University
II-A/27, Action Area II, Newtown,
Kolkata, West Bengal 700156

Revathy Vishwanath
Assistant Director I/c-(RP)
26716690

Indian Council of Social Science Research
(Ministry of Human Resource Development)
Aruna Asaf Ali Marg, New Delhi - 110067
EPABX: 26741849-51 Fax: 91-11-26741836
rpr@icssr.org

F.No. 02/295/2016-17/RP

Dated: 31.03.2017

The Registrar
Aliah University,
IIA/27, New Town, Kolkata-700156
West Bengal

Subject: Sanction of Responsive Research Project entitled "Assessment of Socio-Economic Vulnerability of Flood Victims and Preparation of Community-Based Disaster Management Plan Using Social Engineering. A Study of Murshidabad District, West Bengal to Dr. Aznarul Islam".

Dear Sir,

The Indian Council of Social Science Research (ICSSR) considered the above-research project submitted by Dr. Aznarul Islam, Assistant Professor, Department of Geography, Aliah University, IIA/27, New Town, Kolkata-700156 West Bengal.

2. The Study, as proposed by the researcher/(s), is to be located at and financially administered by your institution as per the guidelines of this award.

3. The ICSSR has sanctioned a grant-in-aid of Rs. 8,00,000/- (Rupees eight lakh only) for the above research project and the grant will be released as follows:

First installment:	Rs.	3,20,000/-
Second installment:	Rs.	3,20,000/-
Final installment:	Rs.	1,60,000/-
Total	Rs.	8,00,000/-

* The break-up budget approved by the ICSSR of Rs. 8.00 Lakh is enclosed.

RV
21/10-27

Revathy

Cont'd...2/

4. The First installment of the approved grant-in-aid will be released after receiving the grant-in-aid bill duly filled in, stamped and signed by the Project Director as well as the affiliating organization. (GIB already received).
5. In case, the study involves survey research, the finalized schedules/questionnaires (5 copies) designed to elicit information should be sent to the ICSSR as per the following schedule:
 - a) If the schedule /questionnaire for eliciting information is as per standard questionnaire, these will have to be sent to ICSSR immediately,
 - b) If the schedule /questionnaire for eliciting information are to be designed afresh keeping in view the requirements of the project, these will have to be sent to the ICSSR within a period of six months in any case.
6. The second installment would be released on receipt of the **12 monthly** progress report on the project to be submitted by the Project Director in the prescribed format (enclosed) and simple statement of expenditure duly certified by the affiliating institution.
7. The Final installment ~~will be released~~ only after the receipt of the following documents under rule 1.10(3) of the ICSSR Research Grants and acceptance by the ICSSR:
 - a) The final Report on the research project.(in duplicate) in a publishable form.
 - b) A short summary of the project report in duplicate in 2,000-5,000 words.
 - c) Such data or information relating to the research project as may be asked for by the ICSSR for preservation in its Data Archives.
 - d) The audited statement of accounts for all expenditure incurred together with utilization certificate in GFR 19-A form for the entire amount of the sanctioned grant.
 - e) A statement of assets costing over Rs. 100/- and credit out of the project funds. Such assets are required to be donated to the affiliating organization after completion of the project.
8. The Director of the research project will be **Dr. Aznarul Islam**. Who will be responsible for its completion within **24 Months** from the date of commencement of the project, which is **2nd May 2017** as intimated by the scholar.
9. In case, the Project Director does not submit the periodic/final project report as per schedule with adequate justification, the scholar may be debarred from ~~availing all future financial assistance from ICSSR.~~

22/10/17

Ravallam

Cont'd...3/

10. All grants from ICSSR are subject to the general provision of GFR 2005 and in particular with reference to the provision contained in GFR 209, GFR 210, GFR 211 and GFR 212.

11. The Project Director will ensure that the expenditure incurred by him conforms to the approved budget heads. The grant-in-aid is subject to all the conditions laid down in the ICSSR Research Grants scheme (responsive), available in the ICSSR website www.icssr.org

12. The expenditure on this account is debitable to the Budget Head-B Programmes Research Grants-Plan **General**. (10) Grant-in-aid for research project (s).

13. As per MHRD instruction, the amount of grant sanctioned herein is to be utilized by the end of the project duration. Any amount of the grant remaining unspent shall be refunded to the ICSSR immediately after the expiry of the duration of the project. If the grantee fails to utilize the grant for the purpose for which the same has been sanctioned/or fails to submit the audited statement of expenditure within the stipulated period, the grantee will be required to refund the amount of the grant with interest thereon @ 10% per annum.

Yours faithfully,



(Revathy Vishwanath)
For Member Secretary

Encl: as above

Copy to:

1. ✓ Dr. Aznarul Islam
Assistant Professor,
Department of Geography,
Aliah University,
IIA/27, New Town,
Kolkata-700156
West Bengal
2. Finance Branch, ICSSR, New Delhi
3. Record file

u/v
8.10.21



(Revathy Vishwanath)
For Member Secretary

भारतीय सामाजिक विज्ञान अनुसंधान परिषद्

(मानव संसाधन विकास मंत्रालय)

पोस्ट बॉक्स - 10528, अरुणा आसफ अली मार्ग,

नई दिल्ली - 110 067

INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH

(Ministry of Human Resource Development)

Post Box No. 10528, Aruna Asaf Ali Marg,

New Delhi - 110 067

EPABX : 26741849-51 Fax : 91-11-26741836

E-mail : info@icssr.org Website : www.icssr.org

Revathy Vishwanath
Assistant DirectorSANCTION ORDER

F.No. 02/282/2017-18/RP/Minor

Dated: 10-1-2018

The Principal,
Aliah University
17, Gora Chand Road, Kolkata-700014

Subject: Sanction of Minor Research Project entitled "A Pragmatic Assessment of Health Care Facilities And Health Well-Being in North 24 Parganas: A Case from Indo-Bangladesh Border" to Dr Nasrin Banu.

Dear Sir,

The Indian Council of Social Science Research (ICSSR) considered the above research project submitted Dr Nasrin Banu, Assistant Professor, Dept. of Geography, Aliah University, 17, Gora Chand Road, Kolkata, West Bengal - 700014. Co-Project Directors of the study are: NIL

1. The study, as proposed by the researcher, is to be located at and financially administered by your institution as per the guidelines of this award.
2. The ICSSR has sanctioned a grant-in-aid of Rs.02,70,000/- (Rupees Two Lakhs Seventy Thousand only) for the above research project and the grant will be released as follows:

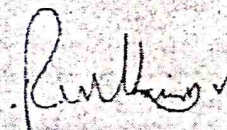
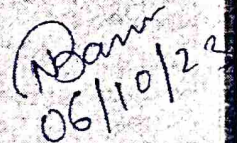
First instalment:	Rs. 54,000/-
Second instalment:	Rs. 1,08,000/-
Third instalment:	Rs. 94,500/-
Publication cost:	Rs. 13500/-
<u>Total</u>	<u>:Rs.02,70,000/-</u>

Overhead charges @ 5% over and above: Rs. 13500/-**

- * ICSSR would publish it subject to recommendation by the expert and relevant Committees for the purpose, from the overall budget, so to be retained by the ICSSR.
- ** will be released on successful completion of project after evaluation.

(The break-up budget approved by the ICSSR of Rs.02,70,000/- is enclosed.)

3. The First installment of the approved grant-in-aid will be released after receiving the grant-in-aid bill duly filled in, stamped and signed by the Project Director as well as the affiliating organization. (GIB already received).

rediffmail

Subject: Award letter

From: icssr researchproject <impp2016rpr@gmail.com> on Thu, 04 Jan 2018 11:56:15

To: hasan.ali88@rediffmail.com

3 attachment(s) - BANK_RTGS.docx (14.64KB), Grant_in_Aid_Bill_-_Blank.docx (13.91KB),
Revised_Agreement_for_Major_and_Minor_Projects_2017_-_Copy.docx (12.98KB)

Revathy Vishwanath
Assistant Director
RP Division (In charge)
Tel #011-26716690
E-mail: rpr@icssr.org

Indian Council of Social Science Research
(Ministry of Human Resource Development)
JNU Institutional Area, Aruna Asaf Ali Marg
New Delhi - 110067
Website: www.icssr.org

ICSSR No. 02/319/2017-18/RP/Minor

Dated 29-12 2017

Subject: Award of Minor Research Project

Dear Dr. Md. Hasan Ali,

Refer to your application for project grant under the ICSSR Minor Research Project on "**Child Labour and their Psycho-Economic Conditions in the Brick Kiln Industries: A Study of Murshidabad District, West Bengal**" has been approved by the competent authority on the recommendations of the Expert Committee and ICSSR has approved a grant-in-aid of Rs. **3,00,000/-** (Rupees Three Lakhs only) plus overhead charges @5% over and above, with a duration of 12 Months for the study including publication.

You are requested to commence the study immediately. And for that enter into an Agreement with the ICSSR on a non-judicial stamp paper of Rs.100/- (copy enclosed) and Grant-in-Aid Bill (copy enclosed) of 20% of the awarded grant, i.e. **Rs. 60,000/-** as first instalment of the total approved grant of **Rs. 3,00,000/-**

Kindly send all the desired documents to the undersigned within seven days to enable us to issue the formal sanction order.

As per the directives from the Government of India, all the payments above Rs.5,000/- are to be made by issue of payment advices only. You are, therefore, requested to furnish the following information duly verified by your bankers for RIGS/NEFT payments (form enclosed).

With regards.

Yours sincerely,
(Revathy Vishwanath)

Dr. Md. Hasan Ali
Technical Assistant Professor, Aliah University, IIA/27
New Town, Kolkata, West Bengal

Copy to:

The Registrar
Aliah University, IIA/27, New Town, Kolkata, West Bengal

Encl: as below



Md. Julfikar Ali <dr.aligeoresearch@gmail.com>

Award letter

1 message

IMPRESS ICSSR <impress201819@gmail.com>
To: dr.aligeoresearch@gmail.com

Mon, Mar 18, 2019 at 11:53 AM

Revathy Vishwanath **Indian Council of Social Science Research**
Deputy Director (Ministry of Human Resource Development)
RP Division Incharge JNU Institutional Area, Aruna Asaf Ali Marg
Tel #011-26742351 New Delhi – 110067
E-mail: IMPRESS201819@gmail.com Website: www.icssr.org

File No: IMPRESS/P1628/143/2018-19/ICSSR

Date: March 11, 2019

Subject: Award letter of IMPRESS Project

Dear Dr Ali,

Refer to your project grant under the **IMPRESS Scheme** on "**URBAN GREEN SPACES, HUMAN HEALTH AND WELL-BEING IN KMC, WEST BENGAL: ASSESSMENT OF ACCESSIBILITY TOWARD POLICY FORMULATION VIS-A-VIS CITY PLANNING**" has been approved by the competent authority on the recommendations of the Steering Committee. The Committee has approved a grant-in-aid of **Rs. 950000/-** (Rupees nine lakh fifty thousand only) plus overhead charges @5 % or maximum Rs. 1,00,000/- whichever is less, for the study including publication.

You are requested to commence the study immediately. And for that enter into an Agreement with the ICSSR on a non-judicial stamp paper of Rs.100/- (copy enclosed), and send us the Grant-in-Aid Bill (copy enclosed) of 40% of the awarded grant, i.e. **Rs. 380000/-** as first instalment of the total approved grant of **Rs. 950000/-**. Detailed Budget in break-up will be sent along-with the Sanction Order.

As per the directives from the Government of India, all the payments above Rs.5,000/- are to be made by issuing of payment advices only. You are therefore requested to furnish the following information duly verified by your affiliating institution and banker(s) for RTGS/NEFT payments (format enclosed).

Kindly send us all the desired documents to the undersigned within seven days to enable us to issue the formal sanction order as per the checklist enclosed.

With regards,

Yours sincerely,

(Revathy Vishwanath)

Encl. as below

Dr. Md. Julfikar Ali


08/10/2023

PTO

Asstt. Professor
Deptt. of Geography
Aliah University,
Kolkata-700160
Email-dr.aligeoresearch@gmail.com






Copy to:

The Director


Aliah University, Kolkata (Id: U-0567),
West Bengal

With best wishes,
Revathy Vishwanath
Deputy Director, Research Projects Division In-charge
Indian Council of Social Science Research
Aruna Asaf Ali Marg, New Delhi-110067
Tel.:26716690/26742351
email :impress201819@gmail.com

5 attachments

-  **BANK RTGS.docx**
15K
-  **Checklist for IMPRESS Award Letter.docx**
14K
-  **Declaration for IMPRESS.docx**
14K
-  **Grant-in-Aid.doc**
21K
-  **PROJECT Agreement for the award IMPRESS.doc**
30K


08/09/23





Revathy Vishwanath
Deputy Director
RP Division Incharge
Tel #011-26716690
E-mail: impress201819@gmail.com

Indian Council of Social Science Research
(Ministry of Human Resource Development)
JNU Institutional Area, Aruna Asaf Ali Marg
New Delhi – 110067
Website: www.icssr.org

SANCTION ORDER

F.No. IMPRESS/P1628/143/2018-19/ICSSR

Dated: 20-03-2019

The Registrar,
Aliah University,
11A/27, New Town,
Kolkata – 700 160

Subject: Sanction of Impactful Policy Research in Social Science (IMPRESS) Research Project entitled "**URBAN GREEN SPACES, HUMAN HEALTH AND WELL-BEING IN KMC, WEST BENGAL: ASSESSMENT OF ACCESSIBILITY TOWARD POLICY FORMULATION VIS-A-VIS CITY PLANNING**" under domain Urban Transformation to **Dr. Md. Julfikar Ali**

Dear Sir,

1. The Indian Council of Social Science Research (ICSSR) considered the above Impactful Policy Research in Social Science (IMPRESS) research project submitted by **Dr. Md. Julfikar Ali, Assistant Professor, Aliah University**. Co-Project Directors of the study are: Nil.
2. The study, as proposed by the researcher, is to be located at and financially administered by your institution as per the guidelines of this award.
3. The ICSSR has sanctioned a grant-in-aid of **Rs. 9,50,000/-** (Rupees nine lakh fifty thousand only) for the above research project and the grant will be released as follows:

First instalment	:Rs.3,80,000/-
Second instalment	:Rs.2,85,000/-
Third instalment	:Rs. 1,90,000/-
Fourth Instalment	:Rs. 47,500/-
Publication cost*	:Rs. 47,500/-
Total	:Rs. 9,50,000/-
Overhead charges over and above 5% or maximum Rs.1,00,000	: Rs. 47,500/- **

* ICSSR would publish it subject to recommendation by the expert and relevant Committees for the purpose, from the overall budget, so to be retained by the ICSSR.

** will be released on successful completion of project after evaluation.

(The break-up budget approved by the ICSSR of Rs.9,50,000/- is enclosed.)

4. The First installment of the approved grant-in-aid will be released after receiving the grant-in-aid bill duly filled in, stamped and signed by the Project Director as well as the affiliating organization. (GIB already received).
5. In case, the study involves survey research, the finalized schedules/questionnaires (2 copies) designed to elicit information should be sent to the ICSSR as per the following schedule:


08/17/23

PTD



636-37
10/17

- a) If the schedule /questionnaire for eliciting information is as per standard questionnaire, these will have to be sent to ICSSR immediately,
 - b) If the schedule /questionnaire for eliciting information are to be designed afresh keeping in view the requirements of the project, these will have to be sent to the ICSSR within a period of six months in any case.
6. The Second instalment will be released after receiving a satisfactory annual progress report along with a simple statement of account of the account for the first instalment (Depending upon the duration of the Project).
 7. The Third instalment will be released after receiving the Final Report (two hard copies and one soft copy in CD/or pen-drive) along with the executive summary (3000 to 4000 words/ten copies) and Research Papers (two) and the statement of account of the second instalment. Such data or information relating to the research project as may be asked for by the ICSSR for preservation in its Data Archives should be given by the scholar.
 8. The scholar shall acknowledge support of ICSSR and MHRD (IMPRESS Scheme) in all publications resulting from the project output (Research Paper, Books, Articles, Reports, etc.) and should submit a copy of the same to the ICSSR during its course and after completion.
 9. The Fourth instalment will be released on the receipt of: (a) Satisfactory book length of the Final Report in the publishable form after incorporating all corrections, suggestions of the expert; (b) Statement of accounts with Utilization Certificate in GFR of 12A form for the entire project amount duly signed by the Finance Officer/Registrar/Principal/Director of the affiliating institution (c) A certificate of statement of assets and books purchased out of the project fund issued by the affiliating institution.
 10. The University/Institution of affiliation will provide to the scholar office accommodation including furniture, library and research facilities and messengerial services. For this, the ICSSR shall pay to the University/Institution of affiliation overhead charges @7.5% of the total expenditure incurred on the project only after successful completion of the project.
 11. The Contingency Grant may be utilized for research and office assistance, books, stationary, computer cost, research assistance and the field work expenses of Project Director, Co-Project Directors and research personnel connected with the research work.
 12. The overhead charges to the affiliating institution over and above @ 5% or maximum Rs.1,00,000 will be released only after successful completion of the project after evaluation. The accounts and the Utilization Certificate will be signed by the Finance Officer/Registrar/Principal/Director in the case of accounts of the institution are audited by CAG/AG. Otherwise, they need to be signed by the Finance Officer and the Chartered Account.
 13. The Director of the research project will be Dr. Md. Julfikar Ali, who will be responsible for its completion within 24 Months from the date of commencement of the project, which is 2nd May 2019, as intimated by the scholar.
 14. In case, the Project Director does not submit the periodic / final project report as per schedule with adequate justification, the scholar may be debarred from availing all future financial assistance from ICSSR.
 15. All grants from ICSSR are subject to the general provision of GFR 2005 and in particular with reference to the provision contained in GFR 209, GFR 210, GFR 211 and GFR 212.
 16. The Project Director will ensure that the expenditure incurred by him conforms to the approved budget heads. The grant-in-aid is subject to all the conditions laid down in the IMPRESS (Impactful Policy Research in Social Science) Research Projects available in the IMPRESS website www.impress-icssr.res.in

 06/10/23

Revathy Vishwanath
Deputy Director
RP Division Incharge

Indian Council of Social Science Research
(Ministry of Education)
JNU Institutional Area, Aruna Asaf Ali Marg
New Delhi - 110067 Tel #011-26716690
Website: www.icsir.org, E-mail: rp@icsir.org

SANCTION ORDER

F.No. 02/149/OBC/2021-22/ICSSR/RP/MJ

Dated: 25-03-2022

The Registrar,
Aliah University
Kolkata- 700 014

Subject: Sanction of Major Project entitled "Role of Women Farmers In Changing Climate to Sustain Food Security and Adaptation Mechanism: Empirical Evidence from Indian Sundarban Delta." to Dr. Rukhsana, Assistant Professor, Dept. of Geography, Allah University, Kolkata.

Dear Sir,

1. The Indian Council of Social Science Research (ICSSR) considered the above Research Programme project submitted by Dr. Rukhsana. Co-Project Directors of the study are: Nil
2. The study, as proposed by the researcher, is to be located at and financially administered by your institution as per the guidelines of this award.
3. The ICSSR has sanctioned a grant-in-aid of Rs.5,00,000 (Rupees Five lakh only) for the above research project and the grant will be released as follows:

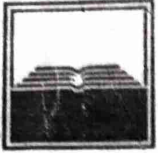
First Instalment @40%:	Rs. 2,00,000/-
Second Instalment @ 20%:	Rs. 1,00,000/-
Third Instalment @ 10%:	Rs. 50,000/-
Fourth Instalment @10%:	Rs. 50,000/-
Final Instalment @15%:	Rs. 75,000/-
Publication Grant* @ 5%:	Rs. 25,000/-
Total	Rs. 5,00,000/-

Overhead charges over and above
5% or maximum Rs.1,00,000 : Rs. **

(* to be retained by the ICSSR. ICSSR would publish it subject to the recommendation by the expert and relevant Committees for the purpose, from the overall budget, so to be retained by the ICSSR).

**will be released on successful completion of project after evaluation.
(The break-up budget approved by the ICSSR of Rs. 5,00,000/- is enclosed.)

Dr. Rukhsana
8/4/22



INSTITUTE OF OBJECTIVE STUDIES

NGO in consultative status (Roster) with the
Economic and Social Council of the United Nations

IOS/R.P/2020/Feb./20

TO WHOM SO IT MAY CONCERN

This is to certify that **Dr. Sumaiya Ahmed**, Assistant Professor, Dept. of Islamic Studies, Aliah University, Kolkata has successfully completed and submitted a report of a research project titled "*Contribution Of Haji Muhammad Mohsin to Bengali Muslim Education in Contemporary Era*".

The said report is being readied for the press, after which it will be published from Institute of Objective Studies, New Delhi

We thank her for all the efforts in completing the said project and wish her bright career ahead.

With Regards

Mohammed Ataur Rahman
Administrative Officer,
Institute of Objective Studies
New Delhi



Ataur
9.10.23



Approval of the research project proposal titled 'Contribution of Haji Muhammad Mohsin to Bengali Muslim Education in Contemporary Era'

1 message

Institute of Objective Studies <ios.newdelhi@gmail.com>
To: sumaiya ahmed <suml.ahmad21@gmail.com>

Mon, 15 Oct, 2018 at 11:46 am

Dear Dr. Sumaiya Ahmed

Greetings of the Day!

Hope this would find you well.

This is with reference to your email below, submitting the research project proposal titled **"Contribution of Haji Muhammad Mohsin to Bengali Muslim Education in Contemporary Era"**.

As I already informed you that this proposal has been sent to the concerned expert committee of IOS for their opinion and suggestion over the same, this is to inform you that this project has been agreed in principle and approved by Institute of Objective Studies, with a timeline of 1 year only and the amount which we can sanction for this project is Rs. 1,00,000/- (One Lac Only), which will be paid in four equal installment of 25% each.

You are therefore requested to kindly come to IOS, New Delhi, for signing the agreement for the said project and then start the research work with maintaining a timeline of 1 year to complete this project positively. Before coming, just write to us regarding you schedule, so that we will be prepared with agreement and all formalities here at IOS.

With kind regards
Yours Sincerely

Samra Firdous
Projects Coordinator
IOS

Sumaiya Ahmed
9/10/23



Revathy Vishwanath
Deputy Director
RP Division Incharge
Tel #011-26716690
E-mail: impress201819@gmail.com

Indian Council of Social Science Research
(Ministry of Human Resource Development)
JNU Institutional Area, Aruna Asaf Ali Marg
New Delhi – 110067
Website: www.icssr.org

SANCTION ORDER

F.No. IMPRESS/P1411/171/2018-19/ICSSR

Dated: 20-03-2019

**The Registrar,
Aliah University,
11 A/27, New Town,
Kolkata, West Bengal – 700160**

Subject: Sanction of Impactful Policy Research in Social Science (IMPRESS) Research Project entitled "**Stake of India's Soft Power: Case Study of Afghanistan**" under domain Media, Culture and Society to Dr. Mohammad Reyaz

Dear Sir,

1. The Indian Council of Social Science Research (ICSSR) considered the above Impactful Policy Research in Social Science (IMPRESS) research project submitted by Dr. Mohammad Reyaz, Assitant Professor, Department of Journalism & Mass communication, Aliah University, 17, Gorachand Road, Park Circus, Kolkata – 700014. Co-Project Directors of the study are: NIL.
2. The study, as proposed by the researcher, is to be located at and financially administered by your institution as per the guidelines of this award.
3. The ICSSR has sanctioned a grant-in-aid of Rs. **4,98,790/-** (Rupees Four lakhs Ninety Eight Thousand Seven Hundred and Ninety only) for the above research project and the grant will be released as follows:

First instalment	:Rs. 1,99,516/-
Second instalment	:Rs. 1,49,637/-
Third instalment	:Rs. 99,758/-
Fourth Instalment	:Rs. 24,939.5/-
Publication cost*	:Rs. 24,939.5/-
Total	:Rs. 4,98,790/-
Overhead charges over and above 5% or maximum Rs.1,00,000	: Rs. 24,939.5/-**

* ICSSR would publish it subject to recommendation by the expert and relevant Committees for the purpose, from the overall budget, so to be retained by the ICSSR .

**will be released on successful completion of project after evaluation.

(The break-up budget approved by the ICSSR of Rs.4,98,790/- is enclosed.)

4. The First installment of the approved grant-in-aid will be released after receiving the grant-in-aid bill duly filled in, stamped and signed by the Project Director as well as the affiliating organization. (GIB already received).
5. In case, the study involves survey research, the finalized schedules/questionnaires (2 copies) designed to elicit information should be sent to the ICSSR as per the following schedule:
 - a) If the schedule /questionnaire for eliciting information is as per standard questionnaire, these will have to be sent to ICSSR immediately,

Revathy

- b) If the schedule /questionnaire for eliciting information are to be designed afresh keeping in view the requirements of the project, these will have to be sent to the ICSSR within a period of six months in any case.
6. The Second instalment will be released after receiving a satisfactory six monthly progress report along with a simple statement of account of the account for the first instalment (Depending upon the duration of the Project).
 7. The Third instalment will be released after receiving the Final Report (two hard copies and one soft copy in CD/or pen-drive) along with the executive summary (3000 to 4000 words/ten copies) and Research Papers (two) and the statement of account of the second instalment. Such data or information relating to the research project as may be asked for by the ICSSR for preservation in its Data Archives should be given by the scholar.
 8. The scholar shall acknowledge support of ICSSR and MHRD (IMPRESS Scheme) in all publications resulting from the project output (Research Paper, Books, Articles, Reports, etc.) and should submit a copy of the same to the ICSSR during its course and after completion.
 9. The Fourth instalment will be released on the receipt of: (a) Satisfactory book length of the Final Report in the publishable form after incorporating all corrections, suggestions of the expert; (b) Statement of accounts with Utilization Certificate in GFR of 12A form for the entire project amount duly signed by the Finance Officer/Registrar/Principal/Director of the affiliating institution (c) A certificate of statement of assets and books purchased out of the project fund issued by the affiliating institution.
 10. The University/Institution of affiliation will provide to the scholar office accommodation including furniture, library and research facilities and messengerial services. For this, the ICSSR shall pay to the University/Institution of affiliation overhead charges @7.5% of the total expenditure incurred on the project only after successful completion of the project.
 11. The Contingency Grant may be utilized for research and office assistance, books, stationary, computer cost, research assistance and the field work expenses of Project Director, Co-Project Directors and research personnel connected with the research work.
 12. The overhead charges to the affiliating institution over and above @ 5% or maximum Rs.1,00,000 will be released only after successful completion of the project after evaluation. The accounts and the Utilization Certificate will be signed by the Finance Officer/Registrar/Principal/Director in the case of accounts of the institution are audited by CAG/AG. Otherwise, they need to be signed by the Finance Officer and the Chartered Account.
 13. The Director of the research project will be Dr. Mohammad Reyaz, who will be responsible for its completion within 12 Months from the date of commencement of the project, which is 2nd May 2019, as intimated by the scholar.
 14. In case, the Project Director does not submit the periodic / final project report as per schedule with adequate justification, the scholar may be debarred from availing all future financial assistance from ICSSR.
 15. All grants from ICSSR are subject to the general provision of GFR 2005 and in particular with reference to the provision contained in GFR 209, GFR 210, GFR 211 and GFR 212.

Leuthya

16. The Project Director will ensure that the expenditure incurred by him conforms to the approved budget heads. The grant-in-aid is subject to all the conditions laid down in the IMPRESS (Impactful Policy Research in Social Science) Research Projects available in the IMPRESS website www.impress-icssr.res.in

17. The expenditure on this account is debatable to the Budget Head-IMPRESS (Scheme Code 3615); OH 31.01 Research Projects.

18. The bank details in respect of the affiliating institution with regard to the Project Director is:

Bank Name: Bank of Baroda, DN – 14, Sector – V, Salt Lake City, Kolkata - 7000091 , Beneficiary Name: Aliah University, Action Area – II A (27, New Town, Kolkata, W.B. – 700160) . Account No.: 32210200000121, IFSC Code: BARBOGENSAL

19. As per MHRD instruction, the amount of grant sanctioned herein is to be utilized by the end of the project duration. Any amount of the grant remaining unspent shall be refunded to the ICSSR immediately after the expiry of the duration of the project. If the grantee fails to utilize the grant for the purpose for which the same has been sanctioned/or fails to submit the audited statement of expenditure within the stipulated period, the grantee will be required to refund the amount of the grant with interest thereon @ 10% per annum.

Yours faithfully,



(Revathy Vishwanath)
For MEMBER-SECRETARY

Encl: as above.

Copy to:

1. Dr. Mohammad Reyaz,
Assitant Professor,
Department of Journalism & Mass communication,
Aliah University,
17, Gorachand Road, Park Circus, Kolkata – 700014

2. Finance Branch, ICSSR, New Delhi

3. Record file



(Revathy Vishwanath)
For MEMBER-SECRETARY

Title **Stake of India's Soft Power: Case Study of Afghanistan**

By: Dr. Mohammad Reyaz

S.No	Expenditure Head	Percentage Allocation to Total Budget of the Study	Actual Value as per the Study (In Rs.)
1	Research Staff Full time/Part-time/Hired Services	Not exceeding 45% of the total budget.	2,24,455.5
2	Fieldwork Travel/Logistics/Boarding, etc. Including Books/Journals	Not exceeding 35%	1,74,576.5
3	Equipment and Study Material Computer, printer etc. Source Material/Software and Data Sets, etc.	Not exceeding 10%	49,879
4	Contingency	Not exceeding 5%	24,939.5
5	Publication of Report*	5%	24,939.5
6	Total	100%	4,98,790
	Overhead Charges(over and above the total cost of the project)	5% or maximum Rs.1,00,000/- whichever is less	24,939.5

*The five percent (5%) publication amount will be kept by the ICSSR for publication of the final report based on the recommendations of the Expert Committee constituted by the ICSSR.

➤ **Remuneration and Emoluments of Project Staff**

a) Project staff could be engaged by the Project Director on a full/ part-time basis during the research work and the duration/consolidated monthly emoluments of their employment may be decided by the project director within the limits of the sanctioned financial allocation and as per the ICSSR rules. b) Research Associate @Rs.25, 000/- p.m. (Qualification – Post graduate in any social science discipline with minimum 55% marks and NET/SLET /M.Phil/Ph.D) c) Research Assistant @Rs.20, 000/- p.m. (Qualification-Ph.D./M.Phil./ Post graduate in social science discipline with minimum 55% marks d) Field Investigator @ Rs.15, 000/-p.m. (not exceeding 6 months) (Qualification-M.A with minimum 55% marks). e) Retrospective payment for work already done is not permissible

➤ **Re-appropriation:** The Project Investigator may with the permission of the Institution may re-appropriate expenditure from one sub-head to another (except publication of report) subject to a maximum of 10 % of the head which is being increased. If the study necessitates re-appropriation of beyond 10%, it may be done only after the approval of the ICSSR

➤ **Selection of Research Staff** should be done through an advertisement and a selection committee consisting of (1) Project Director; (2) One outside Expert (other than the institute where the project is located); (3) a nominee of the Vice Chancellor/Head of the Institution and (4) Head of the Department)/Dean of relevant faculty duly approved by the competent authority.

➤ For all field work related expenses of Project Director, Co-Director and project personnel, rules pertaining to affiliating institutes shall be followed.

➤ All equipment and books purchased out of the project fund shall be the property of the affiliating institutions. On completion of the study, the Project Director shall submit an undertaking in this regard. The ICSSR, however, reserves the right to take charge of equipment and books, if it thinks it fit in a case.

➤ Purchase of equipment/ assets for the research Project is permissible only if it is originally proposed and approved by the ICSSR and does not exceed the permissible amount.

Reyaz

Kingdom of Saudi Arabia
Ministry of Education
Qassim University
Deanship of scientific Research



المملكة العربية السعودية
وزارة التعليم
جامعة القصيم
عمادة البحث العلمي
(٠٤٠)

التاريخ / / ١٤٤٤ هـ

الرقم

الموضوع :

المرفقات :

To Whom It May Concern

This is to certify that **Professor Sahabuddin Sarwardi** is participating in one of the Deanship of Scientific Research grant (reference number: 10367-cos-2020-1-3-1) entitled as:

Mathematical and Numerical Simulation of a Class of Strongly Nonlinear Damped Harmonic Oscillator with Multiple Delays

in collaboration with the following research team :

Name	College	Department
Ahmed Salah Almohaimeed	Science	Mathematics
Mohammad Sajid	Engineering	Department of Mechanical Engineering

Sincerely,

Si

Dr. Mansour S. Alsharidah

Dean of Deanship of Scientific Research

Self Attested
Sahabuddin Sarwardi
16/10/2023

Agreement to support a research project

(Research Groups Scholarships 2020 - Third Round)

Within the research support program, which is made from the annual budget of the University of Qassim and as desired by the university (represented by the Deanship of Scientific research) in encouraging scientific research for scientific and applied purposes. With the help of God, an agreement was made on 2/26/1442 AH (corresponding to 13/10/2020) between:

1- Qassim University (hereinafter referred to as "the first party") represented in this contract by the Dean of the Deanship of Scientific Research, Based on the powers granted to him according to the university's internal rules and regulations.

2- The main researcher of the research project, His Excellency Dr. Ahmed Saleh Abdullah Al Muhaimid (Hereinafter referred to as the "second party").

To fulfill this contract according to the following terms and conditions:

Article 1:

The second party will complete the research project with the following evidence:

A. Research project number: **10367-cos-2020-1-3-1**

B. The time required to complete it in months **24 Months**

C- The title of the research project:

Mathematical and Numerical Simulations of a Class of Strongly Nonlinear Damped Harmonic Oscillator with Multiple Delays

D- The approved budget: **76600 (SAR) Seventy six thousand six hundred**

Article 2:

The budget approved for this contract stipulated in Paragraph D of Article 1 of this contract includes all necessary expenditures to conduct research and reward researchers according to the technical plan presented in the research project form number (10367 - cos-2020-1-3-1), whose budget is approved by the Council of the Deanship of Scientific Research and disbursed from the item of scientific expenditures in the budget of Al Qassim university.

The first party disburses the value of support services (Annex 1) from the project budget approved for the principal investigator upon signing the contract, provided that the main researcher is obligated to submit an achievement/development report in every six months, and it is approved by the Deanship of Scientific Research.

Researcher's remuneration shall be paid after submitting the final report of the research project and scientific publication in accordance with the regulations of the Deanship and the provisions of this contract.

Article 3:

The first party shall pay the researcher's remuneration approved by the Deanship of Scientific Research to the second party after the final report is approved/accepted by the Deanship of Scientific Research and published two scientific papers in two refereed journals included in the ISI classification, and delivered two copies (hard and soft) from the final technical report and published research. The researcher's receipt of the reward is considered an acknowledgment by him that all financial obligations assigned to him are fulfilled.

Self Attested
Sahabuddin Sahabuddin
14/10/2023

research project and a waiver of what has not been disbursed until the date of receipt of the reward and an acknowledgment according to what was agreed upon.

And in the situation that the research project fails, the researcher submits a report on the reasons of the default, and the first party studies it and takes what it deems appropriate regarding the research project and the researcher financially and administratively.

Article 4:

The researcher undertakes that the research project is not extracted from any theses (Master or PhD) or a completed or ongoing research. And when doing what contradicts that, the first party has the right to take what it deems appropriate from procedures without informing the second party.

Article 5:

The researcher adheres to scientific research standards and ethics, as well as completes the form of the Scientific Research Ethics Committee approved by the Deanship if the research project so requires. In the situation that the researcher performs any action that violates ethics of scientific research, the first party is authorized to take the measures what deems appropriate at any time without informing the second party.

Article 6:

The second party is obligated to complete the research project by the researchers referred to in the research proposal according to the agreed period in this contract, the title of the research and its objectives, approved by the first party, are the basis for carrying out the research work regarding any defect in this the first party has the right to take the steps which deems appropriate.

Article 7:

According to what was stated in the research project plan and what was stated in the appendix No. (2) of this contract, the technical and financial responsibility lies with: The main researcher, and in the situation that the main researcher abandons the project for a reason beyond his control and appreciation, The first party, the researcher who is appointed by the members of the research team - and upon his signature on the contract - must undertake to do all arrangements for its completion, as he is responsible for terminating the research project or finding an alternative that bears all project responsibilities research, after coordination and approval with the Deanship of Scientific Research.

The Deanship of Scientific Research shall have the right to assign whomever it deems appropriate to complete or suspend this research.

Article 8:

The approved hardware, software, materials, and books that have been secured from the project budget are a/in custody/responsibility of the second party and are recorded with the warehouse department at the university according to the regulations, and it is owned by the first party, the custody is not transferred from the second party to anyone without the consent of the first party. In the situation that it is damaged or lost, the second party is obligated to return its original value.

In the situation that the research is not completed for any reason that is not accepted by the first party, then the second party is obligated to pay the value of all that was disbursed to the Deanship account.

Article 9:

The second party undertakes to submit an achievement/development report every six months to its research center in an accurate and detailed manner, with some highlighting the research was carried out and the obstacles, if any, according to the model approved by the Deanship.

Self Attestation
Sahabuddin Swaidan
16/11/2022

Article 10:

The chief researcher must submit a final report upon closing the project, according to the form approved by the Deanship, and if not submission of the final report of the research project by the second party within the specified period for any reason not estimated by the first party; the first party has the right to take the necessary financial and administrative measures that may include deprivation of rewards and compensation for what has been done spending it on the project and everything that guarantees the rights of the first party without recourse or approval of the second party.

Article 11:

With regard to scientific publishing, the second party is obligated to be he or a member of the research team with regard to scientific publishing, the second party is obligated to be he or a member of the research team affiliated with Qassim University And to abide by mentioning belonging to the university in its approved form. And if there is more than one affiliation of researchers from the university, the chief Researcher of the university is mentioned as their first affiliation. In the case of disobeying, the deanship has the right to take what it deems appropriate

Article 12:

All members of the research team must be mentioned in the published papers, and the name of any researcher outside the team may not be added in published research except with the permission of the Deanship.

In the situation, this is violated, the deanship has the right to take what it seems appropriate

Article 13:

The second party is obligated to publish at least two scientific papers in scientific journals listed in the ISI lists according to the most recent issuance, and the affiliation of the researcher (researchers) to the university must be stated according to the following approved formula:

Department of XXXX, College of XXX, Qassim University

It will not accept any other formula. The university (represented by the Deanship of Scientific Research) should also be thanked for its role in funding research according to the following patterns:

Research published in Arabic: "The authors (s) gratefully acknowledge Qassim University, represented by the Deanship of Scientific Research for its financial support for this research under the number (10367 - cos-2020-1-3-1) during the year 1442 AH

/ 2020

Research published in English: The author(s) gratefully acknowledge Qassim University, represented by the Deanship of Scientific Research, on the financial support for this research under the number (10367-cos-2020-1-3-1) during the academic year 1442 AH / 2020 AD".

The second party is also obligated to provide the Deanship of Scientific Research with a hard copy and an electronic copy of the published research.

Article 14:

The second party is obligated to communicate with the first party to present any obligations or requirements to complete the deficiencies in the final report of research without any additional financial obligations from the first party.

Self Attested
Sahwanadin Samirah
4/10/2023

Article 15:

The first party studies the technical reports in terms of their compliance with all items of the unified list for scientific research, as well as checking the achievement reports and their compliance with the corresponding items in the approved research project or any amendments approved by the two parties according to the powers.

Article 16:

In addition to what was stipulated in the unified regulations for scientific research regarding the suspension and cancellation of the research project by the first party, the first party has the right to suspend or cancel the research project, and to take appropriate administrative and financial measures against the second party, in the following cases:

- Changing any of the researchers or adding others without the prior consent of the first party.
- Transferring the approved budget without the prior approval of the first party.
- changing the objectives of the research project or its implementation plan without the prior approval of the first party.
- Delay in sending the completion reports for a period of more than thirty (30) days from the specified date.
- The emergence of basic deficiencies related to the implementation of the research during field visits (if any) or when evaluating Financial and technical completion reports.
- A breach by the second party to comply with one or more of the conditions governing the workflow.

Article 17:

The chief researcher undertakes to abide by the approved budget items that fall under the name (Support Services Item) through RTMS tracking and management system, which are as follows: (hardware and materials item, computer services item, services item)

The other, the statistical analysis clause, and the scientific publication clause (the principal investigator also undertakes to provide the original invoices and documents concerning the payment of the advance by providing a receipt voucher proving the transfer of the money to the beneficiary's account (Receipts paid in cash are not accepted), Or when requesting compensation for the expenses and expenditures of the approved budget for research, I bear punishment for everything that results from violating it.

Article 18:

The "rules governing scientific research at Qassim University" and "the articles of the unified regulations for scientific research in universities" are considered not mentioned in this contract or any special regulatory articles issued by the first party are materials complementary to this contract and to the party the second is its implementation, and the first party has an explanation.

Self Attested
Sahwanadin Samir
18/10/2023

Article 19:

The researcher is obligated to present presentations, workshops, or other research activities organized by the center or the deanship which is related to research (research) supported by the Deanship upon request.

Article 20:

The body authorized to interpret the terms of this contract is the Council of the Deanship of Scientific Research.

Important note:

All reports and transactions related to research procedures are submitted to the Deanship of Scientific Research through the relevant research center.

Individual reviews of researchers are not accepted without an official letter from the director of the center or in exceptional cases estimated by the first party.

This contract was made in two copies, each party retaining one of them.

The first side

Second Party

Dean of Scientific Research

The principal investigator of the research project

Name: Dr. Mansour Bin Saleh Al-Shuraida

Name: Ahmed Saleh Abdullah Al-Muhaimid

Signature :

Signature :

Mobile number :

IBAN Number:

Appendix (1)

(Research project budget)

Research number

10367-cos-2020-1-3-I

Duration

12 Months

College / destination

College of Science

Signature date

Contract

*Self Attached
Shuraida
16/10/2023*

2/26/1442 AH (corresponding to 10/13/2020)

Research Title

Mathematical and Numerical Simulations of a Class of Strongly Nonlinear Damped Harmonic Oscillator with Multiple Delays

a. Rewards for the research team

Researcher's name

Approved amount

Ahmed Saleh Abdullah Al-Muhaimid

21 600 Saudi Riyal

Mohammad. . Sajid

18000

Sahabuddin Sarwardi

18000 Saudi Riyal

Total Item - A.

57 600 Saudi Riyal

B. Research assistants

Approved amount

Holders of masters

Hold a bachelor's degree

Undergraduate students and n

Technicians or professionals

Total item - b

C- Support services

Approved amount

Total BP

Appendix (2)

1 - The Chief researcher and the associate researchers undertake to work to achieve the desired and agreed-upon goals according to what was stated with the research project plan and commitment to all the terms of the contract concluded with the first party and the general rules of the unified regulations for research The scientific organization that organizes the workflow of research projects supported by the first party, and the Chief researcher undertakes to comply by spending according to the approved budget provisions for applicable government regulations and what is stated in the unified regulations.

Self Attested
Sahabuddin Sarwardi
16/10/2023

2 - The Chief researcher undertakes that this research project or part of it has not been submitted directly or indirectly to any party the university or any other party is affiliated with the aim of obtaining financial support for the project for which a budget has been approved by the party. In the situation that he found otherwise, The first party is entitled to take whatever it deems appropriate

3- The co-researcher (1 undersigned) undertakes that in the event that the principal investigator abandons supervision of the research project, then:

The task of completing and completing the research project rests with him, provided that he takes prior approval from the Dean of Scientific Research.

التوقيع	التخصص	القسم	الكلية	الاسم	
	رياضيات تطبيقية	الرياضيات	العلوم	أحمد صالح عبد الله المحميد	الباحث الرئيس
Mohd Sajid	Applied Mathematics	Mechanical Engineering	Engineering College	Mohammad . . Sajid	الباحث المشارك (1)
Sahabuddin Sarwardi	Dynamical Systems & Operations Research	Mathematics & Statistics	Aliah University, Kolkata-700160, India	Sahabuddin . . Sarwardi	الباحث المشارك (2)

Self Attended
Sahabuddin Sarwardi
18/10/2023

Phone : (03463) 262-751

to

262-756

E mail : vbplanning46@gmail.com

Visva-Bharati

FOUNDED BY

RABINDRANATH TAGORE



SANTINIKETAN

PIN- 731 235

WEST BENGAL

INDIA

A.K. Dasgupta Centre for Planning and Development

Ref. No. A.K.D./C.R./P.1/31

Date...11.03.2020

To whomsoever it may concern

This is to certify that Dr. Arup Kumar Baksi, Associate Professor, Dept. of Management and Business Administration, Aliah University, Kolkata, West Bengal, has successfully enacted as the Chief Investigator for the collaborative Research Project "**Measuring Digital Inclusion in Rural West Bengal: Implications for Sustainable Human Capital Development**" funded by the A. K. Dasgupta Centre for Planning and Development (a centre sponsored by the NITI Aayog, Govt. of India), Visva-Bharati. Dr. Arup Kumar Baksi has submitted the report and the utilization certificate of the said collaborative research project and has complied with all the norms and regulations laid down by the University while pursuing the said project. The submitted report is being published as an Edited Volume with ISBN by a reputed national publisher.

Pranab Kr. Chattopadhyay

Prof. Pranab Kr. Chattopadhyay

Chair Professor

A. K. Dasgupta Centre for Planning and Development

Visva-Bharati, Santiniketan

Professor Chair
A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati



ABM

Visva-Bharati

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262-756

E mail : vbplanning46@gmail.com

SANTINIKETAN
PIN- 731 235
WEST BENGAL
INDIA

A.K. Dasgupta Centre for Planning and Development

Ref. No.....To.....

Date..24.07.22.....

Arup Kumar Baksi
Professor,
Dept.of Management and Business Administration
Aliah University, Kolkata
WestBengal

Subhashree Sanyal
Assistant Professor
Dept. of Social Work
Visva-Bharati, Santiniketan
West Bengal

Sub: Approval of Minor Research Project
for Working Paper

Dear Sir,

With reference to your submission of Minor Research Proposal, namely-*Assessing the Scope of Digital Entrepreneurship using Intangible Cultural Heritage in Post-Pandemic Recovery of Tourism: A Study on Women Entrepreneurs of the Sonajhuri Haat in Bolpur-Santiniketan, West Bengal*, against the Call for Research Proposal: 2022-2023 (Ref. AKD/RP/225, dated: 2nd February, 2022), we are glad to inform you that the same has been approved for funding following the screening and review process.

The duration of the said project is eight (8) months. You are advised to follow the guidelines to carry out the project. The report of the said project must be submitted by 31st October, 2022.

With Best Regards

Daya Shankar Kushwaha
24/7/22
Daya Shankar Kushwaha
Secretary to Chair Professor
A. K. Dasgupta Centre for Planning and Development,
Visva-Bharati, Santiniketan
West Bengal



Adm

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SANTINIKETAN
PIN- 731 235
WEST BENGAL
INDIA

A.K. Dasgupta Centre for Planning and Development

Ref. No. AKD/RP/18/098

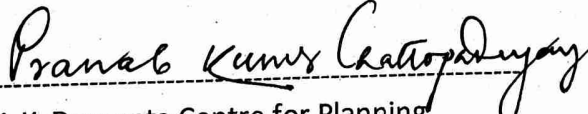
Date..... 18/12/18.....

To,
Dr. Arup Kumar Baksi,
Associate Professor,
Department of Management & Business Administration,
Aliah University,
A-II/27, New Town,
Kolkata-700160, West Bengal.

Dear Sir,

The A.K. Dasgupta Centre for Planning and Development, Visva Bharati (a unit of NITI Aayog, Govt. of India) undertakes independent research projects focusing on relevant social issues with definite scope of policy prescriptions. With reference to your submitted detail research project proposal, the A.K. Dasgupta Centre for Planning and Development, Visva Bharati is glad to invite you with to enact as the Chief Investigator of a research project focusing on *Measuring Digital Inclusion in Rural West Bengal: Implications for Sustainable Human Capital Development* for the academic session 2019-2020. The A.K. Dasgupta Centre for Planning and Development, Visva Bharati will fund the research project and the maximum limit of the *funding* shall be INR 2.5 lacs (Rupees Two lacs Fifty Thousand only). The duration for the said research project shall be for a maximum period of 12 months starting from the day of the approval of the project.

Thanking you


For A.K. Dasgupta Centre for Planning
& Development, Visva Bharati, Professor Chair
Santiniketan
A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati





Phone : (03463) 262-751
to
262-756
E mail : vbplanning46@gmail.com

Visva-Bharati

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RABINDRANATH TAGORE



SANTINIKETAN
PIN- 731 235
WEST BENGAL
INDIA

A.K. Dasgupta Centre for Planning and Development

Ref. No. AKD/RP/18/022

Date. 23⁰²/₁₈.....

To,
Dr. Arup Kumar Baksi,
Associate Professor,
Department of Management & Business Administration,
Aliah University,
A-II/27, New Town,
Kolkata-700160, West Bengal.

Dear Sir,

The A.K. Dasgupta Centre for Planning and Development, Visva Bharati (a unit of NITI Aayog, Govt. of India) undertakes independent research projects focusing on relevant social issues with definite scope of policy prescriptions. With reference to your submitted detail research project proposal, in continuation with this endeavour the A.K. Dasgupta Centre for Planning and Development, Visva Bharati is glad to invite you to act as the Chief Investigator of a research project focusing on Rural Sustainable Tourism for the academic session 2018-2019. The A.K. Dasgupta Centre for Planning and Development, Visva Bharati will fund the research project and the maximum limit of *funding* shall be INR 2.5 lacs (Rupees Two lacs Fifty Thousand only). The duration for the said research project will be for a maximum period of 12 months starting from the day of the approval of the project.

You are requested to submit the followings:

1. Detailed Research Project Proposal (DRPP) on the said topic in the prescribed format.
2. Tentative Budget for the proposed Research Project in the prescribed format.
3. Your updated CV with photograph.

Please submit the above latest by 20th April, 2018 alongwith relevant documents.

Thanking you

Pranab K. Dasgupta

For A.K. Dasgupta Centre for Planning
& Development, Visva-Bharati
Professor Chair
A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati



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Visva-Bharati

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INDIA

Phone : (03463) 262-751

to

262-756

E mail : vbplanning46@gmail.com

A.K. Dasgupta Centre for Planning and Development

Ref. No. ARD/RP/19/012

Date 30⁰¹/19

To,
Dr. Arup Kumar Baksi,
Associate Professor,
Department of Management & Business Administration,
Aliah University,
A-II/27, New Town,
Kolkata-700160, West Bengal.

Dear Sir,

We are glad to inform you that your research project titled "*Measuring Digital Inclusion in Rural West Bengal: Implications for Sustainable Human Capital Development*" has been approved for funding by the A.K. Dasgupta Centre for Planning and Development, Visva Bharati.

You are requested to submit the acceptance of this offer in writing to the undersigned by 7th June, 2019.

Thanking you

Pranab Kumar Chattopadhyay

For A.K. Dasgupta Centre for Planning & Development, Visva-Bharati
A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati



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SANTINIKETAN
PIN- 731 235
WEST BENGAL
INDIA

A.K. Dasgupta Centre for Planning and Development

Ref. No. ARD/RP/19/009

Date. 8⁰¹/₁₉

To whomsoever it may concern

This is to certify that Dr. Arup Kumar Baksi, Associate Professor, Dept. of Management & Business Administration, has successfully enacted as the Chief Investigator for the research project "*Perspectives on Rural Tourism: Sustainability Issues and Ethno-Cultural Preservation*" funded by the A.K. Dasgupta Centre for Planning and Development, Visva Bharati. Dr. Baksi has submitted the Report and the Utilization Certificate of the said research project. The Report of the said research project is being published as a Working Paper with ISBN by a national level publisher.

Pranab Kumar Chattopadhyay

For A.K. Dasgupta Centre for Planning
& Development, Visva Bharati
Santiniketan Professor Chair
A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati



ASmm

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SANTINIKETAN
PIN- 731 235
WEST BENGAL
INDIA

A.K. Dasgupta Centre for Planning and Development

Ref. No. AKD/RP/19/008

Date. 28/01/2019

To,
Dr. Arup Kumar Baksi,
Associate Professor,
Department of Management & Business Administration,
Aliah University,
A-II/27, New Town,
Kolkata-700160, West Bengal.

Dear Sir,

The A.K. Dasgupta Centre for Planning and Development, Visva Bharati (a unit of NITI Aayog, Govt. of India) undertakes independent research projects focusing on relevant social issues with definite scope of policy prescriptions. With reference to your submitted detail research project proposal, in continuation with this endeavour the A.K. Dasgupta Centre for Planning and Development, Visva Bharati is glad to invite you to act as the Chief Investigator of a research project focusing on *Measuring Digital Inclusion in Rural West Bengal: Implications for Sustainable Human Capital Development* for the academic session 2019-20. The A.K. Dasgupta Centre for Planning and Development, Visva Bharati will fund the research project and the maximum limit of *funding* shall be INR 2.5 lacs (Rupees Two lacs Fifty Thousand only). The duration for the said research project will be for a maximum period of 12 months starting from the day of the approval of the project.

You are requested to submit the followings:

1. Detailed Research Project Proposal (DRPP) on the said topic in the prescribed format.
2. Tentative Budget for the proposed Research Project in the prescribed format.
3. Your updated CV with photograph.

Please submit the above latest by 31st May, 2019 along with relevant documents.

Thanking you

Pranab Kumar Chatterjee

For A.K. Dasgupta Centre for Planning & Development, Visva Bharati
Professor Chair
A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati



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Visva-Bharati

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A.K. Dasgupta Centre for Planning and Development

Ref. No.....

Date.....

To,
Dr. Arup Kumar Baksi,
Associate Professor,
Department of Management & Business Administration,
Aliah University,
A-II/27, New Town,
Kolkata-700160, West Bengal.

Dear Sir,

The A.K. Dasgupta Centre for Planning and Development, Visva Bharati (a unit of NITI Aayog, Govt. of India) undertakes independent research projects focusing on relevant social issues with definite scope of policy prescriptions. With reference to your submitted detail research project proposal, the A.K. Dasgupta Centre for Planning and Development, Visva Bharati is glad to invite you with to enact as the Chief Investigator of a research project focusing on Rural Sustainable Tourism for the academic session 2018-2019. The A.K. Dasgupta Centre for Planning and Development, Visva Bharati shall fund the research project and the maximum limit of the funding shall be INR 2.5 lacs (Rupees Two lacs Fifty Thousand only). The duration for the said research project shall be for a maximum period of 12 months starting from the day of the approval of the project.

Thanking you

Pranab K. Dasgupta

For A.K. Dasgupta Centre for Planning
& Development, Visva Bharati, Professor Chair
Santiniketan A.K. Dasgupta Centre for
Planning & Development
Visva-Bharati



AD

Visva-Bharati

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E mail : vbplanning46@gmail.com

A.K. Dasgupta Centre for Planning and Development

Ref. No.....
Ref.: AKD/VB/WP/02

Date.....
Date: 14.08.2020

To

Dr. Arup Kumar Baksi
Associate Professor
Department of Management
& Business Administration,
Aliah University, Kolkata

Sub: Acceptance of Research Proposal for Working Papers.

Sir,

With reference to your submission of Research Proposal for Working papers, A.K.Dasgupta Centre, Visva-Bharati is pleased to inform you that your research proposal entitled "Assessing the Scope in Harnessing Social Innovations in Community Based Rural Tourism (CBRT) in Pandemic Environment: A Study in the district of Birbhum, West Bengal" has been accepted. You are request to initiate and carry out the research work as soon as possible.

Title of the Research Proposal: Assessing the Scope in Harnessing Social Innovations in Community Based Rural Tourism (CBRT) in Pandemic Environment: A Study in the district of Birbhum, West Bengal

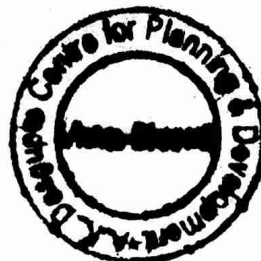
Principle Investigator: Dr. Arup Kumar Baksi

The Principle Investigator needs to inform the Centre about the progress of the study and the study should be completed within the scheduled time period.

With best wishes,

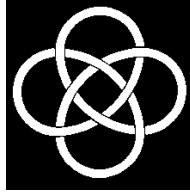
Daya Shankar Kushwaha

Daya Shankar Kushwaha
Secretary to Chair Professor
A.K.Dasgupta Centre
Visva-Bharati



ABM

IUCAA



INTER-UNIVERSITY CENTRE FOR ASTRONOMY AND ASTROPHYSICS
(An Autonomous Institution of the University Grants Commission)

VISITING ASSOCIATES (Current List)

Last updated in April 2024

Total No. 237

No.	Name and Address	Phone and E-mail	Research Interests
1.	Dr. Sheelu Abraham Assistant Professor Department of Physics Marthoma College Chungathara, Malappuram Kerala - 679 334	Phone : 7875352218 (O) 9605892349 / 7875352218 (M) E-mail : sheeluabraham@gmail.com	My research interest lies in exploring state-of-the-art ML techniques to tackle problems related to astronomy & astrophysics. This includes star-galaxy-quasar classification, transient analysis in advanced LIGO, CRTS & Astrosat CZTI, photometric redshift. I also have experience in handling big data, GPU computing and Deep Neural Networks.
2.	Dr. Abisa Sinha Adhikary Assistant Professor Amity University Major Arterial Road (South-East) Action Area – II, Newtown Kolkata – 700 135	Phone : (033) 71020304 (O) / 9836231108(M) E-mail : abisa.sinha@gmail.com	Statistical simulation of Initial Mass Function using Bayesian MCMC methods, Multivariate Data Analysis using statistical tools like PCA, ICA, FA, DA and other multivariate techniques.
3.	Dr. Aditi Agarwal The Thanu Padmanabhan Center for Cosmology and Science Popularization (CCSP) SGT University, Delhi- NCR BP93, First Floor, Shalimar Bagh Delhi -110 088	Phone : 7259671750 (M) E-mail : aditiagarwal.phy@gmail.com	The main focus of my research is on active galactic nuclei (AGNs), such as quasars, blazars, and radio galaxies. I have contributed to our understanding of what is happening in these extraordinarily powerful centers of galaxies and in the relativistic jets they often emit, using analytical, observational, and computational techniques. Broadly my research interest is to explore the multi-wavelength temporal and spectral properties of blazars during different stages of the source on diverse timescales and examine the correlation among multi-wavelength emissions of blazars which further help in understanding the origin of these emissions. I have also studied the frequency-dependent core shifts and parameter estimation for blazars using more than four decades of radio observations to have a better understanding of targets such as the dynamical evolution, the inner sub-parsec structure, dominant radiation mechanisms, and location multi-frequency emissions. For this, we have developed a piece-wise Gaussian fit technique to analyze the long-term light curves of AGNs. I have significant experience in optical and near-IR photometry, spectroscopy, optical polarimetric observations, radio observations, data reduction, and analysis. Recently, I have started
4.	Dr. Faizuddin Ahmed Department of Physics University of Science & Technology Meghalaya Ri-Bhoi Meghalaya -793 101	Phone : 8638302021 (M) E-mail : faizuddinahmed15@gmail.com	My Research Areas Are Exact Solutions Of Fields Equations, Black Hole Physics, Naked Singularity, Relativistic
5.	Dr. Gazi Ameen Ahmed Department of Physics Tezpur University Napaam Tezpur - 784 028 Assam	Phone : (03712) 275556 (O) 9435014377 (M) Fax : (03712) 267006 E-mail : gazi@tezu.ernet.in, gazi@associates.iucaa.in	Development of light scattering theories, Development of experimental setups using laser-based instrumentation.

No.	Name and Address	Phone and E-mail	Research Interests
6.	Dr. Musavvir Ali Assistant Professor Department of Mathematics Aligarh Muslim University Aligarh – 202 002 Uttar Pradesh	Phone : 9319257599 (M) E-mail : musavvirali.maths@amu.ac.in	General Theory of Relativity, Gravitation & Geometric Flow
7.	Prof. G. Ambika Emeritus Professor Indian Institute of Science Education and Research (IISER) Thiruvananthapuram – 695 551 Kerala	Phone : 9890463122 (M) E-mail : gouriambika@gmail.com	Nonlinear Dynamics and Chaos.
8.	Dr. Sampurn Anand Department of Physics Central University of Tamil Nadu Neelakudy Campus Thiruvarur - 610 005 Tamil Nadu	Phone : 8595856776 (O) 7490895656 (M) E-mail : jha.sampurna@gmail.com	Cosmology: Dark energy, structure formation, primordial magnetic fields
9.	Dr. Rizwan Ul-Haq Ansari Department of Physics School of Sciences Education and Training Building Maulana Azad National Urdu University, Gachibowli Hyderabad - 500 032 Telangana	Phone : (040) 23008323 (O) (040) 23536000 (R) 9490315023 (M) E-mail : rizwanans@gmail.com	Cosmology, Early Universe and Inflation, Cosmological Perturbation theory, Study of perturbations in dark energy, Braneworld Cosmology, late time acceleration of the universe.
10.	Prof. Bijan Kumar Bagchi Department of Physics Shiv Nadar University Gautam Buddha Nagar Greater Noida Uttar Pradesh - 201 314	Phone : 9874744141 (M) E-mail : bbagchi123@gmail.com	Gravity and Entropy from non- Hermitian perspective.
11.	Dr. Tanwi Bandyopadhyay Adani University Shantigram Township Near SGVP Circle Sarkhej-Gandhinagar Highway P.O. Adalaj Ahmedabad - 382 421	Phone : (079) 25558798 (O) 9925967683 (M) E-mail : tanwib@gmail.com tanwi@associates.iucaa.in	Gravitation, Cosmology.
12.	Dr. Arunima Banerjee Indian Institute of Science Education and Research (IISER) Tirupati C/o Sree Rama Engineering College (Transit Campus) Rami Reddy Nagar Karakambadi Road Mangalam (P.O.) Tirupati - 517 507 Andhra Pradesh	Phone : (0877) 2500446 (O) 9764456117 (M) E-mail : arunima.physics@gmail.com	The development of a coherent theory of the formation and evolution of galaxies, based on observational surveys of galaxies throughout the universe as well as computer simulations of the key physical processes at play during galaxy formation, is one of the central goals of contemporary

No.	Name and Address	Phone and E-mail	Research Interests
13.	Dr. Indrani Banerjee Department of Physics and Astronomy National Institute of Technology Rourkela - 769 008 Odisha	Phone : 9674902730 (M) E-mail : indrani.physics1@gmail.com	General Relativity and Modified Gravity, Astrophysics, Cosmology
14.	Prof. Shyamal Kumar Banerjee Professor and Dean School of Basic Science & Research Sharda University 32, 34 Knowledge Park-III Greater Noida - 201 310	Phone : 9760818302 (M) E-mail : skb@associates.iucaa.in shyamal.kumar@sharda.ac.in shyamalbanerjee50@gmail.com	General Relativity, Cosmology.
15.	Dr. Sarmistha Banik Department of Physics BITS Pilani, Samirpeth Hyderabad - 500 078	Phone : (040) 66303593 (O) 8466054465 (M) E-mail : sarmistha.b@gmail.com sarmistha@associates.iucaa.in	Nuclear Astrophysics, Neutron Stars, Supernova explosion, Gravitational Waves.
16.	Dr. Prasad Basu Department of Physics Cotton University College Hostel Road, Panbazar Guwahati - 781 001 Assam	Phone : (033) 25850641 (R) 8116819083 (M) E-mail : prasadcsp@gmail.com pbasu@associates.iucaa.in	Black hole accretion, gravitational waves, etc.
17.	Dr. Aru Beri IISER Mohali Office No-1F5, Academic Block-I Department of Physics IISER Mohali, Knowledge City, Sector 81, Sas Nagar, Mohali -140 306 Punjab	Phone : (0172) – 2293105 (O) : 9988481264 (M) E-mail : aruberi@iisermohali.ac.in	Multi-wavelength study of X-ray Binaries, Transient Astronomy which also includes the study of Very Faint X-ray Transients (VFXTs). Magnetosphere and Accretion disc Interaction Mechanisms in high magnetic field neutron star binaries. Constraining accretion geometry of neutron star X-ray binaries using Spin Phase Resolved Spectroscopy. To perform timing and spectral studies using data from X-ray instruments like AstroSat, NICER, NuSTAR, XMM-Newton, Swift to study accretion flows around NS-LMXBs and BH-LMXBs. Development of new and improved models for studying time resolved spectra during Thermonuclear X-ray bursts in a broadband. Calculation of orbital parameters of neutron star Be-binary systems. Calculation of abundances of elements during Thermonuclear bursts seen through spectral analysis of X-ray data.
18.	Dr. Piyali Bhar Department of Mathematics Government General Degree College Singur, P.O Jalaghata Hooghly - 712 409 West Bengal	Phone : (033) 26300126 (O) 8116754967 (M) Email: piyalibhar90@gmail.com	My major research area is General theory of relativity and modified gravity. My areas of research interest are exact solutions of Einstein Field Equations, Modeling of compact Star, Black hole, Wormhole and Gravastar model. Presently I have focused my attention to the study on compact objects and wormhole model using modified theory of Gravitation and compare the result with General theory of relativity. I am also interested to study the effect of pressure anisotropy and inclusion of charge to the space-time of compact star and wormhole in modified theory of gravitation and gravitational lensing phenomenon, i.e. deflection of light by the wormhole that offers a good possibility to detect the presence of a wormhole.

No.	Name and Address	Phone and E-mail	Research Interests
19.	Prof. Rashmi Bharadwaj Room No. B504 Non-Linear Dynamics Research Lab. University School of Basic and Applied Sciences Guru Gobind Singh Indraprastha University Sector 16C, Dwarka Delhi - 110 078	Phone : (011) 25302415 (O) 9013534105 (R) 9868818880 (M) E-mail : rashmib22@gmail.com	Celestial Mechanics, Dynamical Astronomy, Nonlinear Dynamics, Applied Mathematics, Wavelet & " Fractal-Chaos, Complex Dynamics, Ordinary & partial Differential Equations, Numerical Analysis, Fluid Dynamics & Optimization, Atmospheric & Environmental Sciences, Fuzzy Mathematics, Optimization Techniques, Soft Computing - Data Sciences & " Machine Learning; Space Dynamics, Integral Equations & Boundary Value Problem, Big data Analysis
20.	Dr. Priya Bharali Department of Physics Mahatma Gandhi Government Arts College Mahe Pondicherry - 673 311	Phone : (0490) 2332319 (O) 8876660109 (M) E-mail : prbharali@gmail.com	I have studied two different x-ray transients using NuSTAR and Swift/XRT observation of the sources (MAXI J1820+070. GRS 1716-249). I have analyzed the data from the recent observation of two Galactic black hole candidates GRS 1716â "249 and MAXI J1820+070, in different modes (for timing and spectral study). Study in different modes helps to understand different physical mechanisms such as, the time variability of the observed flux, accretion disk dynamics, the spectral state evolution etc. Study of rapid X-ray variability together with X-ray spectroscopy can help in obtaining valuable information about physical environment in the vicinity of accreting compact object and accretion flow dynamics. In addition to XRBs, for GRBs we considered the possibility that an intrinsic thermal spectrum from a fire-ball like model, may be observed to be broadened if the system undergoes a rapid temperature evolution. I have constructed a toy model for GRB, with best possible set of parameters, to obtained maximum obtainable width of the spectrum.
21.	Prof. Naseer Iqbal Bhat Department of Physics University of Kashmir Hazratbal Srinagar - 190 006 Jammu and Kashmir	Phone : (0194) 22420078, (O) (0194) 2415631 (R) 9419079191 (M) Fax : (0194) 2421357 E-mail : dni_phtr@kashmiruniversity.ac.in	Observational Astronomy, Binary Stars, Variable Stars .
22.	Dr. Tabasum Masood Associate Professor Department of Physics Government Degree College Ganderbal – 191 201 Jammu and Kashmir	Phone : (0194) 2503456 9419500719 / 7006202562 (M) E-mail : drtabasumphysics@gmail.com tabasum.bhat@associates.iucaa.in	Area of Specilization is Astronomy Astrophysics Cosmology and Archaeoastronomy
23.	Dr. Srijit Bhattacharjee Indian Institute of Information Technology Room No. 5056, CC-3 Devghat, Jhalwa, Prayagraj Uttar Pradesh - 211 015.	Phone : (0532) 2922541 (O) (0532) 2922291 (R) 9874044497 (M) E-mail : srijuster@gmail.com	Black hole Thermodynamics Singularities in Black Holes and Semiclassical effects Testing Strong Cosmic Censorship Gravitational Memory Effect Asymptotic symmetries Membrane paradigm of Black Holes Quantum Field Theory in curved background In the past 5-6 years my research is more focused on issues of Black hole and its Thermodynamics. We could show that for any higher curvature gravity theories, the Jacobson-Myers entropy functional obeys the second law. We have also studied the no-hair theorems for static and stationary black holes. We have proven a scalar no-hair theorem for a reflecting star in flat as well as de-Sitter space. My recent research focuses on studying Asymptotic symmetries near the horizon of a black hole and obtaining memory of such symmetries. I want to understand if there is a holographic relation exists in flat space. I am also studying the inner horizon instabilities and strong cosmic censorship conjecture in both classical and semiclassical framework for black hole spacetimes.
24.	Dr. Debbijoy Bhattacharya Manipal Centre for Natural Sciences Manipal Academy of Higher Education Dr. T.M.A. Pai Planetarium Building Manipal - 576 104 Karnataka	Phone : (0820) 2923571 (O) 9886895185 / 9845090185 (M) E-mail : debbijoy@gmail.com, : debbijoy.b@manipal.edu	General Relativity, Astrophysics, Cosmic Strings.

No.	Name and Address	Phone and E-mail	Research Interests
25.	Prof. Dipankar Bhattacharya Department of Physics Ashoka University Plot No. 2 Rajiv Gandhi Education City Near Rai Police Station, Rai Sonipat – 131 029 Haryana	Phone : (0130) 2300667 (O) 9923697158 (M) E-mail : dipankar.bhattacharya@ashoka.edu.in	High Energy Astrophysics, Compact Stars, Explosive transients, Diffuse matter
26.	Dr. Subhra Bhattacharya Department of Mathematics Presidency University 86/1, College Street Kolkata - 700 073	Phone : 8274000563 (R) 9830403955 (M) E-mail : subhra.ju@gmail.com	General Relativity and its Applications, Cosmology - Problems pertaining to interacting models of Dark Energy and Dark Matter; Inflation, Wormholes, Emergent Universes
27.	Dr. K.G Biju Associate Professor Department of Physics WMO Arts & Science College Muttill PO, Wayanad Kerala - 673 122	Phone: (04936) 203382 (O) (04936) 246869 (R) 9447546217 (M) E-mail: kgbiju42@gmail.com	My area of research is extragalactic astronomy, and in which I am mainly working on the multi-wavelength characteristics of giant radio sources. My first research project was with Prof. Joydeep Bagchi of IUCAA, on a megaparsec-scale radio source hosted by an unusual spiral galaxy. Later on, we worked on a very peculiar radio source with precessing jets from a merging system of nine galaxies (Zwicky's Nonet) at the centre of the galaxy cluster Abell 407. We have completed the multi- wavelength studies of five GRGs using GMRT observations and data from various optical, infrared and X-ray sky surveys. We are continuing the work with more samples of GRGs.
28.	Dr. Susanta Kumar Bisoi Department of Physics and Astronomy National Institute of Technology Rourkela – 769 008	Phone : (0661) 2462720 (O) : 9556861982 (M) E-mail : bisois@nitrrkl.ac.in	Solar radio physics, solar radio astronomy, planetary radio astronomy, solar physics, space weather and sun-climate relations
29.	Dr. Ritabrata Biswas Department of Mathematics The University of Burdwan Golapbag, Burdwan West Bengal - 713 104	Phone : 9474341036 (R) 7407206393 (M) E-mail : biswas.ritabrata@gmail.com	Dark energy, Quantum cosmology.
30.	Dr. Debasish Borah Department of Physics Indian Institute of Technology Guwahati Assam - 781 039	Phone : 7896705801 (M) E-mail : debasish.phy19@gmail.com debasish@associates.iucaa.in	Neutrino masses, leptonic mixing, lepton flavor violation, dark matter model building, dark matter indirect detection signatures, connecting dark matter with neutrino physics, origin of matter <u>antimatter asymmetry</u>
31.	Dr. Mridusmita Buragohain School of Physics University of Hyderabad Prof. C. R. Road Gachibowli Hyderabad – 500 046 Telangana	Phone : (040) 23134400 (O) 9678998154 (M) E-mail : mriduphy@gmail.com	My research interest lies in understanding the molecular components of the Interstellar Medium (ISM) by investigating spectral footprints arising from these molecules. In particular, I am studying the spectroscopic properties of Polycyclic Aromatic Hydrocarbon (PAH) molecules whose characteristic features, popularly known as AIBs are believed to be abundantly seen towards varied astronomical targets. I work upon to identify the possible structures of PAHs in the astrophysical environment by comparing results of observations and results from theoretical quantum chemical calculations. One of the key components of my research aims to understand the formation/destruction mechanism of PAHs in the ISM. Currently, I am reducing and analysing data obtained by SUBARU/COMICS and AKARI/IRC telescope to see variations in PAH bands. For future, I have interest to work on James Webb Space Telescope (JWST), which operates at higher spatial/spectral resolution and sensitivity and will be useful to detect weak PAH bands. In fact, I have submitted two GO proposals for JWST observations for cycle 2.
32.	Dr. Chandrachur Chakraborty Manipal Centre for Natural Sciences Manipal Academy of Higher Education MCNS-Mahe Dr. T.M.A. Pai Planetarium Building Manipal – 576 104 Karnataka	Phone : 9635409176 E-mail : chandrachurchakraborty@gmail.com	General Relativity, Gravitational waves (theory), High energy astrophysics.

No.	Name and Address	Phone and E-mail	Research Interests
33.	Dr. Koushik Chakraborty Department of Physics West Bengal Educational Service Burdwan West Bengal - 713 104	Phone : (033) 26802085 (O) (033) 25520674 (R) 9874134091 (M) E-mail : kchakraborty28@yahoo.com koushik@associates.iucaa.in	General Theory of Relativity.
34.	Prof. Subenoy Chakraborty Dean of Science Department of Mathematics Jadavpur University Kolkata - 700 032	Phone : (033) 25372518 (O) (033) 26845638 (R) 9433356784 (M) E-mail : subenoy@associates.iucaa.in schakraborty.math@gmail.com	Mathematical Physics, Quantum Mechanics, Relativity, Cosmology.
35.	Dr. Sumanta Chakraborty Indian Association for the Cultivation of Science Kolkata – 700 032	Phone : (033) 24734971 (O) : 9433249863 (M) E-mail : sumantac.physics@gmail.com	Alternative theories of gravity; Black hole physics; Thermodynamics of black holes; Gravitational Waves; Astrophysical processes involving black holes; Cosmology
36.	Dr. Nand Kumar Chakradhari SOS in Physics and Astrophysics Pandit Ravishankar Shukla University Raipur - 492 010 Chhattisgarh	Phone : (0771) 2262864 (O) : 9753872241 (M) E-mail : nkchakradhari@gmail.com kchakradhari@associates.iucaa.in	Supernovae, Chemically Peculiar Stars, Variable stars, Galaxies.
37.	Dr. Luke Chamandy National Institute of Science Education and Research P.O. Jatni, Khurda Bhubaneswar - 752050 Odisha	Phone : (0674)2494264 (O) 9861385164 (M) E-mail : lchamandy@gmail.com	
38.	Prof. Hum Chand Department of Physics and Astronomical Sciences Central University of Himachal Pradesh Temporary Academic Block Shahpur, Kangra Himachal Pradesh - 176 206	Phone : 9760154111 (R) 6396937743 (M) E-mail : humchand@gmail.com	Extra-galactic astronomy: (1) Time and space variation of fundamental constants using very high resolution spectra of QSOs, (2) MgII absorbers as probe of high-z proto-galaxy, viz environment and magnetic field (3) Physical state of IGM using Lyman-alpha forest (4) Multi-wavelength study of AGN viz NLSy1s/BLSy1s (5) AGN variability properties on diverse time scale (iv) Weak emission line QSOs (6) AGN outflow and BAL-QSOs (7) Photometric reverberation mapping and black hole mass measurement of AGN.
39.	Dr. Ramesh Chandra Department of Physics DSB Campus Kumaun University Nainital - 263 002 Uttarakhand	Phone : (05942) 237450 (O) (05942) 231497 (R) 9690681836 (M) Fax : (05942) 237450 E-mail : rchandra.ntl@gmail.com rchandra@associates.iucaa.in	Multi-wavelength study of Solar flares, Solar eruptive events.
40.	Prof. Suresh Chandra Amity Centre for Astronomy & Astrophysics Amity Institute of Applied Sciences Amity University Campus Sector - 125, Noida - 201 313 Uttar Pradesh	Phone : (0120) 4392468 (O) 9818005663 (M) E-mail : sch@associates.iucaa.in, schandra2@amity.edu	Solar Physics, Interstellar Molecular Clouds.

No.	Name and Address	Phone and E-mail	Research Interests
41.	Dr. Ayan Chatterjee Department of Physics Central University of Himachal Pradesh Temporary Academic Block Kangra - 176 206 Himachal Pradesh	Phone : (01892) 237285 (O) 9736863853 (M) E-mail : ayan.theory@gmail.com ayan_theory@associates.iucaa.in	Black hole physics.
42.	Dr. Ritaban Chatterjee Department of Physics Presidency University 86/1, College Street Kolkata - 700 073	Phone : (033) 40529844 (O) (033) 25642231 (R) 8017447597 (M) E-mail : ritaban.physics@presiuniv.ac.in : rito.chat@gmail.com	Structure and dynamics of accreting black hole systems.
43.	Dr. Suchetana Chatterjee Department of Physics Presidency University 86/1, College Street Kolkata - 700 073	Phone : 9163003206 (M) E-mail : suchetana.physics@presiuniv.ac.in	CMB, AGN, etc.
44.	Prof. Asis Kumar Chattopadhyay Department of Statistics University of Calcutta Kolkata - 700 073	Phone : (033) 22410071 (O) (033) 25001850 (R) 9831985850 (M) Fax : (033) 24764419 E-mail : akcstat@gmail.com akcstat@caluniv.ac.in	Star and Galaxy Formation, Analysis of Astronomical Data using Statistical Tools.
45.	Dr. Pradip Kumar Chattopadhyay Department of Physics Coochbehar Panchanan Barma University Vivekananda Street Coochbehar - 736 101 West Bengal	Phone : 9434483006(O) 9434134096(M) E-mail : pkc_76@rediffmail.com	I am currently working on modeling of Neutron/Strange stars. My aim is to develop models from theoretical standpoints to describe the relevant properties like mass and radius of such compact objects which are compatible with the recent observations.
46.	Prof. Surajit Chattopadhyay Head Department of Mathematics Amity University, Kolkata Major Arterial Road, Action Area II Rajarhat, New Town Kolkata - 700 135 West Bengal	Phone : (033) 24535605 (O) (0312) 266353 (R) 9830736116 (M) E-mail : surajcha@associates.iucaa.in	Gravity, Thermodynamics, etc.
47.	Dr. Raghavendra Chaubey DST-Centre for Interdisciplinary Mathematical Sciences Institute of Science Banaras Hindu University Varanasi - 221 005	Phone : (0542) 2369337 (O) 9919267475 (M) E-mail : rchaubey@bhu.ac.in	Relativistic Cosmology, Dynamical Systems
48.	Prof. Bhag Chand Chauhan Department of Physics Central University of Himachal Pradesh (CUHP) Dharamshala, Dist. Kangra Himachal Pradesh - 176 215	Phone : (01892) 229573 (O) 9418472694 (M) E-mail : chauhan@associates.iucaa.in bcawake@hpcu.ac.in	Neutrinos in A&A and Cosmology.

No.	Name and Address	Phone and E-mail	Research Interests
49.	Dr. Laxmikant Chaware Centre for Basic Sciences Pandit Ravishankar Shukla University Behind University Auditorium University Campus Raipur - 492 010	Phone : (0771) 2262216 (O) 9926555788 (M) Email :chaware.laxmikant@gmail.com	My area of research interest: (1) Galaxy morphology (2) studying isophotal shapes of galaxies at fainter surface brightness levels (3) Study of Low Surface Brightness galaxies (4) Study of dust in early-type galaxies Observational Experience: (1)Spectroscopic observation of galaxies using multi-fibre spectroscope AAOmega on 4m Anglo Australian Telescope (AAT) in service mode (2) Broad band optical, Near infrared and narrow band H-alpha imaging observations of galaxies using 2m Himalayan Chandra Telescope (Indian Astronomical Observatory, Hanle). (3)Narrow band H-alpha imaging observations from 2m telescope at IUCAA Girawali Observatory Data reduction and analysis experience: (1)Data reduction and analysis of images obtained using Large Format Camera (LFC) on 5m Hale telescope (Palomar), NIR images from 4m NTT (ESO), images from 2m telescope at IUCAA Girawali Observatory, images from 2m HCT (Hanle) (2)Data reduction and analysis of Spectra obtained using multi-fiber spectroscope A Omega on 4m Anglo Australian Telescope (3)2D bulge-disk decomposition (4)Redshift determination (5)Stellar population synthesis (6) Detection and analysis of dust in early type galaxies
50.	Dr. Raka Vasant Dabhade Department of Physics Fergusson College F.C. Road Pune - 411 004	Phone : (020) 67656056 (O) (020) 24699040 (R) 9372495956 (M) E-mail : rakadabhade@gmail.com	During my PhD the research area was in materials science especially plasma polymerization and sensors. But in college I am presently involved with students projects and Astronomy popularization, hence do not have much Pure research background in Astronomy Astrophysics research as such.
51.	Dr. Ankan Das Institute of Astronomy Space and Earth Science AJ-316, Salt Lake Sector II Salt Lake - 700 091 West Bengal	Phone : 7439761297 (O) 9830469158 (M) E-mail : ankan@iases.org.in	About 270 molecules have been detected in interstellar space. This chemical diversity demands an understanding of how, when, and where these molecules were produced and excited. Briefly, my research is oriented around some general queries, such as what a molecule tells us about the physical aspects of the clouds. How were they cycled through various phases of stellar evolution, from birth to death? How far does chemical complexity go?
52.	Dr. Himadri Sekhar Das Department of Physics Assam University Silchar - 788 011 Assam	Phone : (03842) 270801 (O) : 7002836376 (M) E-mail : hsdas@associates.iucaa.in, himsekhar13@yahoo.co.in	Polarization due to Light Scattering, Cometary, Interplanetary and Interstellar Dusts, etc.
53.	Dr. Prasanta Kumar Das Birla Institute of Technology and Science – Pilani K.K. Birla Goa Campus NH-17B, Bye-Pass Road Zuarinagar, Sancoale Goa – 403 726	Phone : (0832) 2580448 (O) : (0832) 2580744 (R) : 8390048665 (M) E-mail : pdas@goa.bits-pilani.ac.in	High Energy Physics, Astrophysics and Cosmology. Early universe cosmology, modified gravity theories, non-singular bouncing and emergent cosmology, primordial gravitational waves
54.	Dr. Shyam Das Associate Professor Department of Physics Malda College Malda, Rabindra Avenue Rathbari, Malda West Bengal - 732 101	Phone : 9832500823 (M) E-mail : dasshyam321@gmail.com shyam_das@associates.iucaa.in	My research interests are focused on many areas in astrophysics and cosmology. Theoretical modelling of relativistic compact astrophysical systems by making use of observational data from astrophysical observables like Chandra, SKA, LIGO, is one of my research interest. I am interested to find exact solutions to Einstein field equations describing the space-time geometry of gravitationally bound systems and interpretations for a wide variety of physically motivated astrophysical systems. By adopting various ad-hoc approaches, I would like to generate exact solutions of Einstein field equations for a wide variety of physically motivated astrophysical systems. Gravitational collapse is also one of the interesting areas of my research. I am also interested in investigating the astrophysical implications of some of the modified theories of gravity. I intend to focus my research on pulsars and black holes surrounded by accretion disks and observational cosmology. Dark energy and dark matter is another field of my active research. Keeping in mind that the theoretical approaches to solving the Einstein field equations analytically and hence to find exact solutions are limited. I am now interested in numerical relativity that uses numerical methods which are widely accepted method in the field of research in general relativity.
55.	Dr. Sudipta Das Assistant Professor in Physics Department of Physics Visva-Bharati Siksha-Bhavana Santiniketan - 731 235	Phone : (03463) 261916 (O) (033) 24284525 (R) 7797285744 (M) E-mail : sudipta.das.m@gmail.com sudipta.das@visva-bharati.ac.in	Cosmology and Gravitation.
56.	Dr. Abhirup Datta Department of Astronomy, Astrophysics and Space Engineering Indian Institute of Technology Simrol, Khandwa Road Indore - 453 552	Phone :(0731) 6603545 (O) : 8518886478 (M) E-mail : abhirup.datta@iiti.ac.in	Radio astronomy, Aperture Synthesis, Imaging and Calibration, High redshift galaxy, etc.

No.	Name and Address	Phone and E-mail	Research Interests
57.	Dr. Kanan Kumar Datta Assistant Professor Department. of Physics Jadavpur University Kolkata - 700 032	Phone : 8240742485 (M) E-mail : datta.kanan@gmail.com	Cosmology, Cosmic Reionization, 21-cm signal, Radio astronomy, post reionization with HI.
58.	Dr. Sukanta Deb Room No. 302 Department of Physics Cotton University Panbazar Guwahati - 781 001 Assam	Phone : (0361) 2601100 (O) 9810362087 (M) E-mail : sukantodeb@gmail.com sdeb@associates.iucaa.in	Automated classification of variable stars, astronomical photometry and spectroscopy of variable stars, light curve modeling, etc.
59.	Dr. Dipak Debnath Institute of Astronomy Space and Earth Science D3, Binayak Enclave Fartabad Beltala, Garia Kolkata - 700084 West Bengal	Phone : (033) 35911018 (O) 8961995355 (R) 9432680632 (M) E-mail : dipak.iases@gmail.com	I mainly work in the field of high energy astrophysics, especially Black Hole related topics. I also worked on studying properties of Gamma-ray Bursts, Solar Flares, etc. Implementation of the theoretical model in XSPEC is done to get direct estimation of accretion flow parameters from spectral fit. Correlation of X-ray and radio data is done to study the nature of the outflowing jets and understand disk-jet coupling in black holes.
60.	Dr. Partha Sarathi Debnath Department of Physics A.P.C. Roy Government College Himachal Bihar Matigara Siliguri - 734 010 West Bengal	Phone : (0353) 2571340 (O) 9474590804 (M) E-mail : parthasarathi6@hotmail.com partha.debnath@associates.iucaa.in	The research areas comprise to study some specific issue relevant for the cosmological model building, which incorporates the quantum nature of matter or both matter and gravity. Recent data from cosmological observations suggest that the universe may be passing through an accelerating phase of evolution. The late-time acceleration problem along with the dark matter problem is the most difficult challenges to modern gravitational theory. The late-time acceleration is attributed to a negative pressure fluid dubbed as dark energy. It is a challenging task in theoretical physics to find a precise theoretical framework for the present accelerated expansion. Along with these my research area may be addressed by publications in referred journal. 1. P. S. Debnath & B. C. Paul, Astrophys Space Sci, 366, 32 (2021). 2. Partha Sarathi Debnath, IJMPA, 35, 2050173 (2020). 3. Partha Sarathi Debnath, MPL A, 35, 2050216 (2020). 4. Sarathi Debnath, Bikash Chandra Paul, IJGMMP, 17, 2050102 (2020). 5. Partha Sarathi Debnath, IJGMMP, 16, 1950169 (2019). 6. Partha Sarathi Debnath, IJGMMP 16, 19500853 (2019). 7. Partha Sarathi Debnath, IJGMMP, 16, 1950005 (2019). 8. P. S. Debnath, A. Beesham and B. C. Paul, COG, 35, 115010 (2018). 9. P. S. Debnath and B. C. Paul: MPLA, 32, 1750216 (2017). 10. B. C. Paul, P. S. Debnath, and S. Ghose, PRD 79, 083534 (2009). 11. P. S. Debnath, B. C. Paul, and A. Beesham, PRD 76, 123505 (2007). 12. P. S. DEBNATH, B. C. PAUL, IJMPD 15, 189 (2006).
61.	Dr. Ujjal Debnath Department of Mathematics Indian Institute of Engineering Science and Technology Botanical Garden P.O., Shibpur Howrah - 711 103 West Bengal	Phone : (033) 26684561 (O) (03216) 236567 (R) 9433353462 (M) Fax : (033) 26682916, 4564 E-mail : ujjaldebnath@yahoo.com, ujjal@associates.iucaa.in	Cosmological Models, Study of Singularities
62.	Dr. Shantanu Desai Department of Physics Indian Institute of Technology, Hyderabad Kandi, Sangareddy - 502 285 Telangana	Phone : (040) 23016173 (O) 9619127162 (M) E-mail : shantanud@iith.ac.in shntn05@gmail.com	Particle Astrophysics, Gravitational Wave Astronomy, Observational Cosmology and Galaxy Clusters, Astrostatistics
63.	Dr. Reshma Sada Raut Dessai School of Physical and Applied Sciences Faculty Block – A Goa University Taleigao Plateau Goa - 403 206	Phone : 8669609207 (O) (0832) 2752934 (R) 9423317344 (M) E-mail : reshma@unigoa.ac.in reshma.dessai@associates.iucaa.in	My research interest lies broadly in the study of multi-wavelength spectral and temporal properties of various X-ray sources including X-ray Binaries. I would aim to study the structure and dynamics of accreting neutron star binaries and understand the physics of accretion flow around these neutron stars in order to understand the role of magnetic fields in the accretion process. Spectral studies using instruments like ASTROSAT could help to develop a model for accretion in X-ray binaries. I gained experience in handling ASTROSAT data using SXT, LAXPC during the workshop conducted in Goa on "ASTROSAT" data analysis. I also would be interested in studying the electromagnetic counterpart of neutron star binaries coalescence using gravitational waves. My Ph.D. research was in porous media in which I used the contrast matching technique of small angle neutron scattering to obtain numbers of connected and isolated nanopores in glass, ceramic and clay. Quasi-elastic neutron scattering was also used to study the diffusion properties of H ₂ O confined in the interlayers of clay. This work may be extended to study nanopores in asteroids and meteorites to yield information relevant to their formation.

No.	Name and Address	Phone and E-mail	Research Interests
64.	Dr. Shanti Priya Devarapalli Department of Astronomy University College of Science Osmania University Hyderabad - 500 007 Telangana	Phone : (040) 27682247 (O) (040) 23340266 (R) 9160434604 (M) E-mail : astroshanti@osmania.ac.in	Observational study of Binaries, SdBs, Astro-seismology and Exoplanet studies.
65.	Dr. Anoubam Seniorita Devi Department of Physics Manipur University Canchipur, Imphal – 795 003 Manipur	Phone : (03842) 270843 (O) 8011543868 (M) E-mail :senorita.anoubam@gmail.com	My main research area is high energy astrophysics, mainly dealing with X-ray satellite observed data analysis and studying the spectral and temporal properties of various kinds of X- ray sources including X-ray binaries, Ultra- luminous X-ray sources etc.
66.	Dr. Moon Moon Devi Department of Physics Tezpur University Napaam Sonitpur - 784 028 Assam	Phone : (03712) 275565 (O) 9004944457 (R) 9395072768 (M) E-mail : devi.moonmoon@gmail.com	Broader area of interest: Astroparticle physics. My research interests are in the fields of neutrino, cosmic ray and dark matter phenomenology and simulation, instrumentation, and data analysis of particle detectors. My doctoral thesis is on the simulation and physics potential study of the atmospheric neutrino interactions at the proposed magnetized Iron Calorimeter detector at the India- based Neutrino Observatory (INO). I have also developed and characterized a prototype stack of six-gap Resistive Plate Chamber (RPC) detectors. I am currently studying the particle production at astrophysical sources and the extensive air shower produced by those cosmic ray particles. As a part of the hyperkamiokande collaboration, I am looking into the simulation and physics aspects including supernova neutrinos. Instrumentation for dark matter detectors have also been my interest.
67.	Dr. Praveen Kumar Dhankar G.H. Raison College of Engineering CRPF Gate, No.3 Hingna Road, Digidoh Hills Nagpur – 440 016 Maharashtra	Phone : 8806226666(O) 9921008657 (R) 9561171316 (M) E-mail : pkumar6743@gmail.com	General Relativity and Cosmology, high energy physics in various dimensions and Alternative theories of Gravitation, Modified Theories of Gravity.
68.	Dr. Mansi Dhuria Assistant Professor Department of Physics School of Energy Technology Pandit Deendayal Energy University Knowledge Corridor, Raisan Village PDPU Road Gandhinagar -382 007 Gujarat	Phone : (079) 23275264 (O) 9099632174 (M) E-mail : Mansi.dhuria@sot.pdpu.ac.in	Astro-particle Physics and Cosmology, Theoretical High Energy Physics
69.	Dr. Archana Dixit Department of Mathematics GLA University AB-VIII Mathura – 281 406, Uttar Pradesh	Phone : (05662) 250761 (O) : 8171546320 (M) E-mail : archana.dixit@la.ac.in	Cosmology, Dark Energy, Modified Gravity
70.	Prof. Vijayakumar Honnappa Doddamani Department of Physics Astrophysics Section, J B Campus Bangalore University Bengaluru - 560 056 Karnataka	Phone : (080) 22961484 (O) 9448673274 / 9481300346 (M) E-mail : drvkdmani@gmail.com	emit very high thermal and non-thermal radiation from unresolved compact nuclear regions called as Active galaxies (AGNs). Hence, AGNs are the most luminous objects in the universe. The nuclei of the active galaxies are very compact ($r < 1014$ cm. Edelson et al. 1996) and generates copious amount of energy nearly constant over the entire electromagnetic spectrum. An important property of AGN spectra involves the observation of both high and low ionization lines (HILs and LILs). Low and high ionization lines we mean that these lines are emitted by ionic species with ionization potential (IP) ≈ 20 eV (H I, Mg II, C II, Fe II, Ca II) and with high IP ≈ 40 eV (CIV, NV) respectively (Marziani P, 2014). Active galaxies have been broadly classified into different types based on their luminosity, emission line properties, appearance and variability characteristics into Seyfert1 and Seyfert2 galaxies, HII regions, LINERS, Quasars, Blazars and Optically Violent Variables, etc. The physics of the diversification of AGNs, spectral properties, rapid, small and large amplitude line and continuum variability is not well understood. During my tenure as associate, I would like carry out optical/UV/X-ray spectroscopic studies of Seyfert galaxies and quasars.

No.	Name and Address	Phone and E-mail	Research Interests
71.	Dr. Broja Gopal Dutta Department of Physics Rishi Bankim Chandra College (West Bengal State University) East Kantalpara, Naihati North 24 Parganas West Bengal - 743 165	Phone : (03220) 249227 : 9433413402 (M) E-mail : brojadutta@gmail.com broja@associates.iucaa.in	Astrophysics
72.	Dr. Jibitesh Dutta Department of Basic Sciences and Social Sciences School of Technology North-Eastern Hill University Mawkyntroh-Umshing Mawlai Shillong - 793 022 Meghalaya	Phone : (0364) 2723659 (O) (0364) 2231147 (R) 9863021745 (M) E-mail : jdutta29@gmail.com jdutta@associates.iucaa.in	Gravitational Thermodynamics in Modified Gravity Theories, Dynamical Systems in Modified Gravity based Cosmology .
73.	Prof. Sukanta Dutta High Energy Physics and Cosmology Laboratory Department of Physics Sri Guru Tegh Bahadur Khalsa College University of Delhi Delhi -110 007	Phone : (011) 27667469 (O) (011) 41764214 (R) 9811687970 (M) E-mail : sukanta.dutta@gmail.com sdutta@associates.iucaa.in	High Energy Physics, Astroparticle Physics and Cosmology.
74.	Dr. Mayukh Raj Gangopadhyay Thanu Padmanabhan Centre for Cosmology and Science Popularization SGT University Gurgaon – 122 505 Haryana	Phone : (012) 42278183 (O) : 9748255419 (M) E-mail : mrg12grm@gmail.com	Early Universe Cosmology, Production of Primordial Blackholes and its implications on other physical phenomenon, String motivated cosmological model building, Cosmic microwave background and observational
75.	Dr. Sudip Kumar Garain Department of Physical Sciences Indian Institute of Science, Education and Research, Kolkata Mohanpur – 741 246 West Bengal	Phone : (033) 66340000 Extn. 1163 (O) 7303230354 (M) E-mail : sgarain@iiserkol.ac.in sudip.garain@associates.iucaa.in	Relativistic and non-relativistic MHD, MonteCarlo based Radiative Transfer, Finite volume methods on structured and unstructured mesh
76.	Dr. Gurudatt Gaur St. Xavier's College (Autonomous) Surajmal Zaveri Road Navrangpura Ahmedabad – 380 009 Gujarat	Phone : 9537672348 (M) E-mail : gurudattgaur@gmail.com gurudatt@associates.iucaa.in	Gravitational wave physics, Detector characterization and veto development for gravitational wave searches. Gravitational wave astronomy.
77.	Dr. Sakshi Gautam Department of Physics Panjab University Chandigarh – 160 014	Phone : (91172) 2534466 (O) (91172) 2995387 (R) 7087652380 (M) E-mail : sakshigautam@pu.ac.in	Phenomenology of Heavy Ion Collisions at Intermediate energies, Equation of State of Nuclear Matter, Isospin Physics, Nuclear Astrophysics

No.	Name and Address	Phone and E-mail	Research Interests
78.	Dr. Prabir Gharami Assistant Professor Department of Mathematics Belda College Belda, Paschim Medinipur West Bengal – 721 424	Phone : (03229) 255246 (O) : 7908008459 (M) E-mail : prabirgharami32@gmail.com	Mass transfer in contact binary stars, Role of magnetic field in the mass transfer process, accretion flows in different forms of X-ray binaries
79.	Dr. Abhik Ghosh Department of Physics Banwarilal Bhalotia College Ushagram, Asansol West Bengal - 713 303	Phone : 7477354789 (M) E-mail : abhik.physicist@gmail.com	Radio interferometry, Astro-statistics, Observation and statistical detection of redshifted 21-cm HI signal, 21-cm Cosmology, Radio polarimetry, Extragalactic radio-source evolution at low frequencies, Detecting diffuse radio emission from galaxy clusters, Deep low frequency radio survey - Observations,
80.	Dr. Suman Ghosh Department of Physics Indira Gandhi National Tribal University Amarkantak- 484 887 Madhya Pradesh	Phone: 9433907900 (M) E-mail : smnphy@gmail.com	Gravitation, quantum field theory in curved space, astrophysics and cosmology
81.	Prof. Sushant G. Ghosh Centre for Theoretical Physics Jamia Millia Islamia Jamia Nagar New Delhi - 110 025	Phone : (011) 26984830 (O) (0129) 93555618 (R) 9971348628 (M) Fax : (011) 26981753 E-mail: sgghosh@jmi.ac.in sgghosh@gmail.com	General Relativity, Cosmology.
82.	Dr. Tuhin Ghosh School of Physical Sciences National Institute of Science Education and Research Khurda - 752 050 Odisha	Phone: 6742494292 (O) 8847858187 (M) E-mail : tghosh@niser.ac.in	Cosmology with Cosmic Microwave Background radiation and thermal Sunyaev-Zeldovich effect. Detection of the primordial gravitational waves from early Universe and physics of the interstellar medium.
83.	Dr. Ankur Gogoi Assistant Professor Department of Physics Jagannath Barooah College (Autonomous) Jorhat - 785 001 Assam	Phone: (0376) 2320060 8876342499 (M) E-mail : ankurgogoi@gmail.com	Light scattering by interstellar dust analogues, light scattering by turbid media, biophotonics, laser based instrumentation
84.	Dr. Rupjyoti Gogoi Department of Physics Tezpur University Napaam Tezpur - 784 028	Phone : (03712) 275577 (O) (03712) 273822 (R) 9435559488 / 8011417860 (M) E-mail : gogoi@associates.iucaa.in : rupjyotigogoi@gmail.com	Infrared studies of nearby galaxies.
85.	Dr. Gaurav Goswami 309, School of Arts and Sciences Ahmedabad University Central Campus Navrangpura Ahmedabad - 380 009	Phone : (079) 61911171 (O) 8238629410 (M) E-mail : gaurav.goswami@ahduni.edu.in	Interface of cosmology and high energy physics.

No.	Name and Address	Phone and E-mail	Research Interests
86.	Dr. Umananda Dev Goswami Department of Physics Dibrugarh University Dibrugarh - 786 004 Assam	Phone : (0373) 2370224 (O) : 9435618206 (M) E-mail : umananda2@gmail.com umananda@associates.iucaa.in	Theoretical and experimental astroparticle physics, Astronomy, astrophysics and cosmology.
87.	Dr. Aruna Govada Head Dept. of Computer Engineering Government Polytechnic Varkund Daman Daman and Diu - 396 210	Phone : 9730244034 (M) E-mail : arubitsgoa@gmail.com	Data Mining, Distributed Data Mining, Machine Learning, Parallel/Distributed Computing, Relational Data Mining, Database Systems.
88.	Dr. Shivappa Bharamappa Gudennavar Department of Physics and Electronics Christ (Deemed to be University) Bengaluru - 560 029 Karnataka	Phone : (080) 40129387 (O) 8310189407 (M) E-mail : shivappa.b.gudennavar@christuniversity.in shivappa@associates.iucaa.in	Interstellar medium, Extragalactic astronomy.
89.	Dr. Sarbari Guha Department of Physics St. Xavier's College 30, Park Street Kolkata - 700 016	Phone : (033) 22877278, 22801927 (O) 9231665828 (M) Fax : (033) 22879966 E-mail : srayguha@yahoo.com, guha@associates.iucaa.in	General Relativity and Cosmology.
90.	Dr. Mamta Gulati School of Mathematics Thapar Institute of Engineering and Technology Bhadson Road, Adarsh Nagar Patiala - 147 004 Punjab	Phone : (0175) 2393436 (O) : 8284903760 (M) E-mail : mamta.gulati@thapar.edu	Galaxy evolution, Gravitational dynamics, Lopsided galaxies, Galactic nuclei, Stellar orbits
91.	Dr. Priya Hasan Department of Physics Maulana Azad National Urdu University Gachibowli Hyderabad - 500 032 Telangana	Phone : (040) 23006612-15 (O) (040) 23306959 (R) 9701811881 (M) E-mail : priya.hasan@gmail.com priya@associates.iucaa.in	Star clusters, Star formation, Photometry, Image processing.
92.	Dr. Golam Mortuza Hossain Department of Physical Sciences IISER, Kolkata Mohanpur, Nadia - 741 246 West Bengal	Phone : (033) 61360000 Extn. 1211 9477934777 (M) E-mail : ghossain@iiserkol.ac.in golam.hossain@associates.iucaa.in	Gravitation and Cosmology (Classical and Quantum); Quantum Field Theory in curved Spacetime
93.	Dr. Joe Jacob Department of Physics Newman College Thodupuzha - 685 585 Kerala	Phone : (04862) 226086 (O) (04862) 220408 (R), 9846015011 (M) E-mail : drjoephysics@gmail.com joe@associates.iucaa.in	Microwave and Radio Wave Radiations, Microwave Imaging and Antennas.

No.	Name and Address	Phone and E-mail	Research Interests
94.	<p>Dr. Rinku Jacob Assistant Professor of Physics Department of Basic Sciences & Humanities Rajagiri School of Engineering and Technology (RSET) Rajagiri Valley, Kakkanad Kochi - 682 039</p> <p><i>Address for correspondence :</i> Chembiserry House, Anchumana Road Near Atham Associates, Mamangalam, Edapally P.O, Ernakulam, Kerala – 682 025</p>	<p>Phone : (0484) 2660999 (O) (0484) 2343196 (R) 9446307919 (M)</p> <p>E-mail : rinku.jacob.vallanat@gmail.com</p>	<p>My areas of research include (a) Nonlinear Time Series Analysis using the measures of Complex Networks, (b) To study the effect of additive noises (white and colored noise) on topology of chaotic systems. These areas of research are applicable to different fields of science, especially in astrophysics, to analyze the light curve from variable stars and black hole systems which give us the information regarding the underlying nonlinear processes leading to the emission of light curves. This research can also be applied in the field of medical sciences for analyzing the E.C.G (Electrocardiography) and E.E.G (Electroencephalography) data. The E.C.G data contains the information regarding the dynamics of the heart and the E.E.G data hold the information about the complex processes that take place inside the brain. So the study on the E.C.G data helps one to predict the chances of occurring the different cardiac problems and that of E.E.G data helps to understand more on the underlying dynamics which assist to predict the occurrence of epileptic conditions in a patient.</p>
95.	<p>Dr. Chetana Jain Department of Physics Hansraj College A-3/27, Sector 3, Rohini Delhi – 110 085</p>	<p>Phone : (011) 27667747 (O) : 9818945708 (M)</p> <p>E-mail : chetanajain11@gmail.com</p>	<p>The interactions of compact objects with their immediate surroundings, Physics of accretion flow in LMXBs/HMXBs, Timing variabilities in X-ray pulsars, Spin and orbital evolution of X-ray binaries 5) Broadband spectroscopy of X-ray binaries 6) Pulse phase resolved spectroscopy</p>
96.	<p>Prof. Deepak Jain Department of Physics Deen Dayal Upadhyaya College (University of Delhi) Sector-3, Dwarka New Delhi - 110 078</p> <p><i>Address for correspondence:</i> 91, Bhagirathi Apartments, Sector 9 Rohini, Delhi - 110 085</p>	<p>Phone : (011) 25099381 (O) Fax : (011) 25099380 (011) 27865102 (R)</p> <p>E-mail : djain@ddu.du.ac.in, djain@associates.iucaa.in</p>	<p>Dark Energy : Theory and Observations, Statistical Methods In Cosmology</p>
97.	<p>Dr. Rajeev Kumar Jain Department of Physics Indian Institute of Science Bengaluru - 560 012 Karnataka</p>	<p>Phone: (080) 22933618 (O)</p> <p>E-mail: rkjain@iisc.ac.in</p>	<p>Theoretical cosmology, Inflation and alternatives, Cosmic Microwave Background, Primordial magnetic fields, Non-gaussianities, Effective field theory of gravity, Modified gravity, Dark energy</p>
98.	<p>Dr. Charles Jose Department of Physics Cochin University of Science and Technology (CUSAT) South Kalamassery, Kalamassery Kochi - 682 022 Kerala</p>	<p>Phone : (0484) 2577290 (O) 8606434507 (M)</p> <p>E-mail : charlesmanimala@gmail.com</p>	<p>Cosmology, large scale structures in the universe, Probes of fundamental physics using cosmology, etc.</p>
99.	<p>Dr. Jessy Jose Department of Physics IISER Tirupati, Karakambadi Road Mangalam P.O - 517 507</p>	<p>Phone : 9945402801 (M)</p> <p>E-mail: jessyvjose1@gmail.com</p>	<p>Observational Astronomy, Star formation, HII regions, Feedback mechanisms, Brown dwarfs and free-floating planetary mass objects in the solar neighbourhood</p>
100.	<p>Dr. Minu Joy Department of Physics Alphonsa College Arunavaram P.O., Pala Kerala - 686574</p>	<p>Phone : (04822) 213033 (R) : 9747930507 (M)</p> <p>E-mail : minujoy@gmail.com minu@associates.iucaa.in</p>	<p>Cosmology and Quantum Gravity, Cosmological Perturbation.</p>

No.	Name and Address	Phone and E-mail	Research Interests
101.	Dr. Jeena K. Department of Physics Providence Women's College Malaparamba (P.O) Calicut - 673 009 Kerala	Phone: (0495) 2371696 9495658547 / 9495658547 E-mail : jeenakarunakaran@gmail.com	Multi Wavelength Study Of Ultra-luminous X-Ray Sources(Ulxs), AGNs, Blazars, Spectral And Timing Studies Of AGNs, X-Ray Data Analysis
102.	Dr. Sathya Narayanan K. Department of Physics The Cochin College Mattancherry Ernakulam - 682 002 Kerala	Phone : (0484) 2224954 (R) 9447217985 (M) E-mail : sathyanarayank@gmail.com	Diffuse UV astronomy, Dust reddening studies in molecular clouds, Galaxy evolution and formation
103.	Prof. Md. Mehedi Kalam Department of Physics Aliah University IIA/27, New Town Kolkata - 700 160	Phone : (033) 27062271(O) 7980608341 (R) 9836363707 (M) E-mail : mehedikalam@yahoo.co.in kalam@associates.iucaa.in	Relativity, Cosmology, Topological Defects, Wormhole and Blackhole Physics.
104.	Dr. Sanjeev Kalita Department of Physics Gauhati University Guwahati - 781 014 Assam	Phone : (0361) 2570531 (O) : 9864087304 (M) : 8761045225 (M) E-mail : sanjeevkalita1@ymail.com	Cosmology.
105.	Dr. Nagaraja Kamsali Associate Professor Department of Physics Bangalore University Bengaluru – 560 056	Phone : (080) 22961471 (O) : 9663373447 E-mail : kamsalinagaraj@gmail.com	Atmospheric and planetary physics
106.	Prof. Pralay Kumar Karmakar Department of Physics Tezpur University Napaam Tezpur – 784 028 Assam	Phone : (03712) 275550 (O) 9954431753 (M) E-mail : pkk@tezu.ernet.in	We have been actively involved to understand the basic physics of diversified equilibrium and instability processes in astrophysical (neutral plus plasma) fluids with different methods for years. The main motivation is to see the insightful mechanisms behind bounded structure formation in diversified circumstances from new perspectives. One of our recent studies puts forward a theoretic model formulation to study the excitation and propagation dynamics of the nucleus-acoustic waves (NAWs) in a compact astrophysical fluid system in a generalized fabric extensively. It considers a three-component plasma system composed of heavy-light nuclei and tiny electrons in a curved geometry. At the last stage of collapse, the material in rapidly rotating white dwarf stars is highly viscoelastic. A significant fraction of mass of white dwarf merger remnants is initially supported by rotation. The post-merger viscous phase causes detonation of the helium (He) envelope in white dwarf mergers. It hereby acts as potential triggering agents of Type-Ia supernovae. Our results may prove to be beneficial to diversified wave features in astrophysical compact objects, interiors, and correlated surroundings, especially white dwarfs, where the effects of viscoelastic dissipation, degenerate electron pressure, and strongly
107.	Dr. Sreeja S Kartha Assistant Professor Department of Physics & Electronics Christ (Deemed to be University) Hosur Road Bangalore- 560 029 Karnataka	Phone : (080) 40129328 (O) (048) 1245 7230 (R) 8086947950 (M) E-mail : sreeja.kartha@christuniversity.in	Extragalactic astronomy: In our group, we intend to understand the factors affecting the star-formation properties of the galaxies in the local universe to decipher the factors contributing to the evolution of the galaxies.
108.	Dr. Pradeep Kumar Kayshap VIT Bhopal University Bhopal-Indore Highway Kothrikalan Sehore – 466 114 Madhya Pradesh	Phone : 7465967251(M) E-mail : pradeep.kashyap@vitbhopal.ac.in	My research area covers various topics of solar physics research, and these specific research topics are listed below. Ultraviolet (UV) & Extreme ultraviolet (EUV) Spectroscopy of solar plasma. Magnetohydrodynamics (MHD) Waves and Instabilities Investigations of various localized/eruptive structures of the solar atmosphere (e.g., solar jets, bright points, magnetic loops, solar flares, and filaments eruptions) Origin & Propagation of MHD Waves in the solar plasma. Coronal Heating Problem Space Weather Drivers Variations in the Solar UV Irradiance.

No.	Name and Address	Phone and E-mail	Research Interests
109.	Dr. Arun Kenath Department of Physics and Electronics Christ (Deemed to be University) Dharmaram College P.O. Hosur Road Bengaluru – 560 029	Phone : (080) 40129100 (O) : 9845413463 E-mail : kenath.arun@christuniversity.in	Dark matter (DM), dark energy (DE), and possible alternate models of DM and DE. The effects of admixture of DM particles on luminosities and lifetimes of the evolved stars like red giants
110.	Dr. Nishikanta Khandai School of Physical Sciences National Institute of Science Education and Research Bhubaneswar - 752 050	Phone: (674) 2494305 (O) 8249398879 (M) E-mail: nkhandai@gmail.com	Cosmology, Large Scale Structure, Cosmological Simulations, Active Galactic Nuclei and Galaxy Formation, Intergalactic Medium, 21cm line as a probe
111.	Dr. Ram Kishor Department of Mathematics Central University of Rajasthan NH-8, Bandarsindari, Kishangarh Ajmer - 305 817 Rajasthan	Phone : (01463) 238755 (O) 9166269698 (M) E-mail : kishor_math@curaj.ac.in rkishor@associates.iucaa.in	Celestial Mechanics: Mission Design under the influence of Perturbations 2. Nonlinear Dynamics and Chaos 3. Dynamical System- Solar system and Extra solar systems.
112.	Mr. Newton Singh Kshetrimayum Department of Physics National Defence Academy Khadakwasla Pune – 411 023	Phone : 8600328325 (M) E-mail : ntnphy@gmail.com	General relativity, Astrophysics, Cosmology, astrophysical systems like neutron star, quark star, black hole, worm hole, shadow of black hole, shadow of worm hole.
113.	Prof. Arun Venkatesh Kulkarni Birla Institute of Technology and Science KKB-Goa Campus, NH-17B Bypass Zuarinagar Vasco - 403 726 Goa	Phone : (0832) 2580309 (O) (0832) 2580502 (R) 9422971148 (M) E-mail : avkbits@goa.bits-pilani.ac.in avk@associates.iucaa.in	Nuclear Physics, Theoretical Physics, Numerical E&M, Physics teaching.
114.	Mr. Bharat Kumar Department of Physics and Astronomy National Institute of Technology Rourkela – 769 009 Odisha	Phone : 8368265133 (M) E-mail : kumarbh@nitrkl.ac.in	Nuclear Astrophysics and Gravitational Waves
115.	Dr. Nagendra Kumar Department of Mathematics M.M.H. College Ghaziabad - 201 009 Uttar Pradesh	Phone : (0120) 4575241 (O) (0120) 2986961(R) 9555739225 (M) E-mail : nkumar@associates.iucaa.in, nagendrakgk@rediffmail.com	MHD, Plasma Physics.
116.	Dr. Rajesh Kumar Department of Mathematics and Statistics DDU Gorakhpur University Gorakhpur - 273009 Uttar Pradesh	Phone : 7985619390 (O) 9621593372(M) E-mail : rkmath09@gmail.com	Major area: General Relativity and Cosmology Specialization: Gravitational collapse, Space-time singularity, Black-Hole, Naked Singularity, Dark energy, Cosmological modelling, Scalar field models of Dark energy in general relativity and modified theories of gravity

No.	Name and Address	Phone and E-mail	Research Interests
117.	Dr. R.K. Sunil Kumar Department of Information Technology Kannur University Soorya Kanthi Madappally College P.O., Vatakara Kannur - 673 102 Kerala.	Phone : (0497) 2784535 (O) (0496) 2503244 (R) 9447217092 (M) E-mail : sunilkumarrk@kannuruniv.ac.in	Nonlinear Time series Analysis and Its Applications in Vocal tract modelling Speech generation has classically been modelled as a linear system, which provides a convenient and simple mathematical formulation. However a number of nonlinear effects are present in the physical process which limits the effectiveness of the linear model. We have analysed Capacity Dimension (CD), Correlation Dimension (CRD), Kolmogorov Entropy (KE) and Largest Lyapunov Exponent (LLE) of selected phoneme from different speakers. Eigen values of the Reconstructed Phase Space (EV-RPS) and Spectral Decay Coefficients (SDC) are also extracted for speaker modelling. We have experimentally verified the effectiveness of the proposed speaker identification system based on the combination of nonlinear features using Feed Forward Multilayer Perceptron Classifier (FFMLP) simulated using the error back propagation learning algorithm. The results indicate that the human vocal tract shows the properties of a deterministic chaotic system and the proposed nonlinear features can be effectively used for improved speaker identification. Speech signal Processing in Noisy Conditions Audio-visual speech recognition is a promising approach to tackling the problem of reduced recognition rates under adverse acoustic conditions. However, finding an optimal mechanism for combining multi-modal information remains a challenging task.
118.	Dr. Sanjay Kumar Assistant Professor Department of Physics Patna University Patna - 800 005	Phone : 9413674416 (O) 8789705192 (M) E-mail : sainisanjay35@gmail.com	Solar Physics, Coronal Heating, Physics of Magnetic Reconnection, Magnetohydrodynamics, Computational Physics
119.	Prof. Suresh Kumar Department of Mathematics Plaksha University Alpha, Sector 101, IT City Road Sahibzada Ajit Singh Nagar Punjab – 140 306.	Phone : 7725905640 (M) E-mail : sukuyd@gmail.com sureshk@associates.iucaa.in	Dark Energy Cosmology, Exact Solutions, etc.
120.	Dr. Richa Kundu Department of Physics Miranda House, North Campus University of Delhi Delhi -110007	Phone : 9868211847(O) 8130606773 (M) E-mail : richa.kundu@mirandahouse.ac.in	Extra-tidal regions of Galactic globular clusters
121.	Dr. Badam Singh Kushvah Indian Institute of Technology Indian School of Mines Dhanbad – 826 004 Jharkhand	Phone : (0326) 2235765 (O) 9471191119 (M) E-mail : bskush@iitism.ac.in	My research interest includes Celestial Mechanics, Dynamical Astronomy, Orbital Mechanics and High Performance Computing. Many research articles have been published in international peer-reviewed journals including Monthly Notices of the Royal Astronomical Society, Acta Astronautica, Advances in Space Research, Astrophysics and Space Science, Astronomy and Computing, Planetary and Space Science, Earth, Moon and Planets, Chaos, Solitons & Fractals etc. In recent year substantial progress has been done to understand the long-term behaviour of the orbits of the planets, small bodies which may approach the Earth of other planets after long time and the long-term evolution is of great importance for these studies. The asteroids and exoplanetary systems could be classified in different families using machine learning methods with the help of many PYTHON libraries and packages such as PANDAS, KERAS, TENSORFLOW etc. The followings are research objectives for near future. 1. Long-term Evolution of n-body simulation specially for Asteroids and exoplanetary systems. 2. Orbital Resonance and Stability. 3. Classification of Asteroids and Predicting Potentially Hazardous Asteroids using Machine Learning Techniques. 4. Exoplanetary formation, Detection and Classification using Machine Learning Techniques. The IUCAA Library is sufficiently rich in Astronomy and Astrophysics books/Journals and study material. The state of art computing facility at IUCAA is very
122.	Prof. Vinjanampaty Madhurima Department of Physics Central University of Tamil Nadu Neelakudi Campus Thiruvarur - 610 005 Tamil Nadu	Phone : (04366) 277228(O) : 9444467728 (M) E-mail : madhurima.v@gmail.com	Since my post-graduation days, I have studied weak intermolecular interactions, especially hydrogen bonds. This has taken me through the studies of organic liquids, binary (and other) liquid mixtures, nano-fluids, liquid-solid interactions, self-assembly of droplets, colloids, polymers and gels. My primary training at the Microwave and materials lab at IIT Madras, and later at the Microwave and Functional Materials lab at University of Hyderabad, was in broadband dielectric spectroscopy, with a special focus in the microwave region. In addition, I work with various spectroscopic techniques such as FTIR, NMR, Zeta potential with light scattering and confocal microscopy. Over the last ten years, I have been studying solid-liquid interfaces using contact angle goniometry. Along with experimental techniques, since my PhD days, I have used computational techniques for analysis of molecular conformation and spectral predictions. While most of my studies have been using ab initio Hartree-Fock/Density Functional Methods, a few studies using molecular dynamics and energy minimization for drops were done. All these results have been published over the years. As a part of teaching, I am also familiar with Multiphysics and high

No.	Name and Address	Phone and E-mail	Research Interests
123.	Dr. Smriti Mahajan Indian Institute of Science, Education and Research Knowledge City, Sector 81 SAS Nagar Manauli - PO Mohali - 140 306	Phone : (0172) 224012138 (O) 9653792580 (M) E-mail : mahajan.smriti@gmail.com	Evolution of galaxies; Observable properties of galaxies such as mass, star formation rate and colours; Multi- wavelength surveys of nearby galaxies; Environment of galaxies; large-scale structure formation.
124.	Dr. Bibhas Ranjan Majhi Department of Physics Indian Institute of Technology Room No. 305 Guwahati - 781 039 Assam	Phone : (0361) 2582722 (O) (0361) 2584722 (R) 9864594930 E-mail : bibhas.majhi@iitg.ac.in	General theory of Relativity, black holes, Black hole thermodynamics, Quantum field theory on curved spacetime, Hawking and Unruh effects.
125.	Dr. Liton Majumdar Assistant Professor National Institute of Science, Education and Research Room No. 03, Ground Floor Library Building Khurda - 752 050 Odisha	Phone : 6742494482 (O) 9330369269 (M) E-mail : liton@niser.ac.in	Astrochemistry, star and planet formation using infrared, radio and sub-mm astronomy, planetary and exoplanetary atmospheres
126.	Prof. Shiva Kumar Malapaka International Institute of Information Technology Room No. 212D, Hosur Road Electronics City Bengaluru - 560 100 Karnataka	Phone : (080) 28527627 Ext 147 (O) (080) 35810568 (R) 9491531716 (M) E-mail : malapaka@iiitb.ac.in	Direct Numerical Simulations of 3D- Magneto-hydrodynamic Turbulence and Hydrodynamic Turbulence, n-body simulations of planetary formation, etc.
127.	Prof. Manzoor A. Malik Department of Physics University of Kashmir Hazratbal Srinagar - 190 006 Jammu and Kashmir	Phone : (0194) 2272311 (O) (0194) 2421485 (R) 9596256448 (M) Fax : (0194) 2421357 E-mail : mmaalik@gmail.com	Cosmological Many- Body Problems, Dark Matter, CMB.
128.	Dr. Mamta Dept. of Physics and Electronics S.G.T.B. Khalsa College University of Delhi Campus Delhi - 110 007	Phone : 9818076507 (M) E-mail : mamta.phy26@gmail.com mamta@associates.iucaa.in	Electro-weak Symmetry Breaking Mechanism, New Physics Searches at LHC.
129.	Dr. Soma Mandal Department of Physics Government Girls' General Degree College 7, Mayurbhanj Road Kolkata - 700 023	Phone : (033) 24481160 (O) 9836078964 (M) E-mail : soma2778@gmail.com soma@associates.iucaa.in	X-ray astronomical data analysis, Compact objects in strong magnetic field.
130.	Dr. Tuhina Manna St. Xavier's College (Autonomous) 15/3, Choudhury Para Second Bye-Lane Howrah – 711 104 West Bengal	Phone : (033) 22551235 (O) : 9830252849 / 9674989103 (M) E-mail : tuhina.manna@sxccal.edu	Modelling of Compact Stars in General Relativity and Modified theories of Gravity. Applications of General Relativity, Gravitational Lensing, precession of perihelion, time delay and Shadows of Black holes and Wormholes, Thin shell accretion disks.

No.	Name and Address	Phone and E-mail	Research Interests
131.	Dr. Bari Maqbool Department of Physics Islamic University of Science and Technology 1, University Avenue Awantipora, Pulwama - 192 122 Jammu and Kashmir	Phone : (01933) 247954 (O) (01933) 260056 (R) 8713918191 (M) E-mail : bmaqbool@iust.ac.in bari@associates.iucaa.in	My research interests include study of the X-ray Irradiated Accretion Discs in X-ray binaries through theoretical modelling and numerical calculations. This includes studying the effects of X-ray irradiation on the outer regions of the accretion disc in low mass X- ray binaries and understanding the long term variability observed on X-ray binaries. My research interest also includes the study of the timing properties of X-ray binaries. Presently, I am involved in
132.	Dr. Titus K. Mathew Department of Physics Cochin University of Science and Technology Kochi - 682 022 Kerala	Phone : (0484) 2577404 (O) (0484) 2577349 (R) 9995438460 (M) E-mail :titus@associates.iucaa.in tituskmathew@gmail.com titus@cusat.ac.in	Bulk viscous matter and current acceleration of the universe.
133.	Dr. Ram Ajour Maurya Department of Physics National Institute of Technology NIT Campus P.O. Calicut - 673 601 Kerala	Phone : (0495) 2285124 (O) 8129195894 (M) E-mail : maurya.ramajor@gmail.com	Helioseismology, MHD waves in Solar Atmosphere, Solar Eruptions and associated Phenomenon, Atmospheric Heating
134.	Dr. Biman Jyoti Medhi Associate Professor Department of Physics Gauhati University Jalukbari, Kamrup Assam - 781 014	Phone : 9411323918 (M) E-mail : bimanjmedhi@gmail.com biman.medhi@associates.iucaa.in	ISM-DUST, Polarization, Open star cluster, Star-formation, Comets and Variable star
135.	Prof. Irom Ablu Meitei Associate Professor Department of Physics Manipur University Canchipur Imphal - 795 003	Phone : (0385) 2443263 (O) 9402837749, 9863330936 (M) E-mail : ablu.irom@gmail.com	Astronomy and Astrophysics.
136.	Mr. Manesh Michael Assistant Professor Department of Physics Bharata Mata College Thrikkakara Kochi – 682 021	Phone : (0484) 2425121 (O) : (0477) 2278833 (R) : 9633620716 (M) E-mail : maneshmichael@gmail.com	Plasma Physics, Space & Astrophysical Plasma, Non-linear dynamics
137.	Dr. Hameeda Null Mir Department of Physics Government Degree College Tangmarg Kashmir - 193 401	Phone : 9469033913 (M) E-mail : hme123eda@gmail.com	Optical telescopes, Astrophotography, CCD Imaging, Data analysis.
138.	Dr. Mubashir Hamid Mir Assistant Professor Department of Physics Govt. Degree College (GDC) Baramulla - 193 101 Jammu & Kashmir	Phone : 9419081217 (O) 7006575530 (M) E-mail : mubiphst@gmail.com	X-ray Astronomy, Galaxy Clustering

No.	Name and Address	Phone and E-mail	Research Interests
139.	Dr. Bivudutta Mishra Department of Mathematics BITS- Pilani, Hyderabad Campus Jawahar Nagar Sameerpet Mandal Ranga Reddy Dist. Hyderabad - 500 078 Telangana	Phone : (040) 66303532 (O) 9000607523 (M) E-mail : bivudutta@gmail.com bivudutta@associates.iucaa.in	Dark energy and modified gravity
140.	Dr. Sourav Mitra Department of Physics Surendranath College (Under University of Calcutta) Kolkata - 721 636	Phone: (033) 23543876 8145360606 (M) E-mail: hisourav@gmail.com	Cosmology, Dark matter, Structure formation in the Universe, Intergalactic medium, Galaxy formation and Reionization.
141.	Dr. Kamakshya Prasad Modak Department of Physics Brahmananda Keshab Chandra College 111/2, B. T. Road, Bonhooghly Kolkata - 700 108 <i>Address for correspondence :</i> Postal :- Village - Sukharia (Shibtala) Post Office - Somra, District - Hooghly West Bengal - 712 123	Phone: (033) 25775878 (O) 8420146629 (M) E-mail: kamakshya.modak@gmail.com	My research area is mainly oriented to the study of the theoretical aspects of Dark Matter and its indirect detection. The indirect detection of DM involves detecting the particles (and their subsequent decays) or photons produced due to DM annihilations. Furthermore, there are other astrophysical hints for the existence of DM such as X-ray line from galaxy clusters, excess positron fraction in cosmic rays, self-interaction of DM from bullet cluster observation etc. Therefore, my research mainly focuses on the phenomenology of Dark Matter (DM) which includes the theoretical development for DM candidates from various viable particle physics models, various indirect searches for DM by analysing the possible annihilation products of DM in the astrophysical sites such as Galactic Centre, galaxy clusters as also from extragalactic sources as well as constraining mass and other parameters of DM in the light of astrophysical observations and overall characteristics of DM in the universe. Other than DM physics, I have explored several other aspects of theoretical cosmology and particle physics, physics of neutron star, physics of early universe, neutrino physics, inflationary scenarios and numerical relativity. My expertise is also on computational physics and numerical simulations.
142.	Dr. Sajahan Molla Department of Physics New Alipore College Kolkata - 700 053	Phone : (033) 24071828 (O) 9748479412 (M) E-mail : sajarah.phy@gmail.com sajahan.molla@associates.iucaa.in	Compact object(neutron/strange star) study.
143.	Dr. Saptarshi Mondal Bethune College 24 Madan Pal Lane P.O. - Bhowanipur Kolkata - 700 025 West Bengal	Phone : (033) 22571712 (O) (033) 24543028 (R) 9163697689 (M) E-mail : saptarshi.stat1@gmail.com saptarshi_m@associates.iucaa.in	Globular clusters, Galaxy formation.
144.	Dr. Aditya Sow Mondal Department of Physics Visva-Bharati Siksha-Bhavana Santiniketan - 731 235 West Bengal	Phone : (03463) 261016 (O) 9732249932 (M) E-mail : adityas.mondal@visva-bharati.ac.in	Observational Astronomy. Probing the accretion geometry of neutron star low-mass X-ray binaries using the spectral and timing analysis.
145.	Dr. Soumen Mondal Department of Physics Jadavpur University, Main Campus 188, Raja S.C. Mallick Road Kolkata - 700 032	Phone : 8777485087 (M) E-mail : rkmrcsm@gmail.com soumen@associates.iucaa.in	Equation of state in accretion and wind flows, Gravity wave emission, etc.

No.	Name and Address	Phone and E-mail	Research Interests
146.	Dr. Mahadevappa Naganathappa Gitam (Deemed to be University) Post : Rudraram Mandal : Patancheru Sangareddy Telanagana – 502 329	Phone : (08455) 221394 (O) : 8125546873 (M) E-mail : swamimahadev25@gmail.com	Infrared astrophysics, Cosmic molecules, Polycyclic aromatic hydrocarbons (PAHs), Quantum chemistry
147.	Prof. Hemwati Nandan Department of Physics HNB Garhwal University Srinagar Garhwal – 246 176 Uttarakhand	Phone : 8909916277, 9411319626 (M) Email : hemwati.nandan.physics@gmail.com hnandan@associates.iucaa.in	Kinematics of Deformations and Geodesic Flows.
148.	Dr. Rajesh Kumble Nayak Department of Physical Sciences Indian Institute of Science Education and Research (IISER) – Kolkata Mohanpur Campus P.O. Krishi Viswavidyalaya Mohanpur - 741 252 Dist. Nadia, West Bengal	Phone : 3473279137 (O) 9903507977 (M) Email : rajesh@iiserkol.ac.in rajesh.kumble.nayak@gmail.com rajesh@associates.iucaa.in	Gravitational wave data analysis, General theory of Relativity and Relativistic Astrophysics, Cosmology.
149.	Prof. Rahul Nigam BITS Hyderabad A-204, BITS-Pilani Hyderabad Campus Jawahar Nagar Kapra Mandal Hyderabad – 500 078 Telangana	Phone : (040) 66303615 (O) 9951403087 (M) Email : rahul.nigam@hyderabad.bits-pilani.ac.in	Lately I have been primarily working in two areas. 1. Black hole volume and entropy - The volume of a black hole is not unique and can be defined in various way. We investigate some of the techniques which maximize the black hole volume and then we study the entropy of a field residing in this volume. 2. We study the existing Hubble tension by analyzing the data from various probes like Hubble, Panstarrs.
150.	Dr. Chandrachani Devi Ningombam Assistant Professor Department of Physics Manipur University Canchipur Imphal (West) Manipur – 795 003	Phone : 6009487525 (M) E-mail : chandrachani@gmail.com	Large Scale structure Formation:Cosmological N-body simulations, Modified gravity N-body simulations, Halo occupation distribution-HOD modelling, Sub-Halo Abundance Matching, Void statistics, Galaxies clustering, Redshift space distortion-RSD, Galaxies cluster counts, Dark energy's signature in LSS, The Early Universe: Inflation, Modified gravity Models: Scalar-Tensor-Theory, Solar system constraints, Gravitational waves.
151.	Dr. Sachin P.C. Assistant Professor Department of Physics Fatima Mata National College (Autonomous) Kollam - 691 001 Kerala	Phone : 9847817327 (M) E-mail : sachinpc@live.com sachin.pachat@associates.iucaa.in	Diffuse Warm-Hot Intergalactic Medium, Quasar Absorption Line Spectroscopy, Feedback Processes In Galaxies & AGN
152.	Dr. Prince P.R. Department of Physics University College M.G. Road, Palayam Thiruvananthapuram - 695 034 Kerala	Phone : (0471) 2475830 (O) (0471) 2438888 (R) 9495211211 (M) E-mail : princerpasad@gmail.com	Solar Terrestrial Physics, Magnetosphere, Solar activity, Ionosphere, Magnetosphere-Ionosphere coupling, etc.

No.	Name and Address	Phone and E-mail	Research Interests
153.	Dr. Sreejith Padinhatteeri Assistant Professor Manipal Academy of Higher Education Manipal Centre for Natural Sciences Dr. T.M.A. Pai Planetarium Complex Manipal Udupi – 576 104	Phone : (0820) 2571922 (O) : 8884850018 (M) E-mail : sreejith.p@manipal.edu	Solar Physics and Astronomical Instrumentation, formation and evolution of magnetic active regions (ARs) on the Sun and its connection with solar activities like flares and coronal mass eruptions, development of multiple space based astronomical telescopes, SSM and UVIT onboard Astrosat, development of Solar Ultraviolet Imaging Telescope (SUIT) onboard ADITYA-L1
154.	Dr. Barun Kumar Pal Netaji Nagar College For Women 170/13/1, N.S.C. Bose Road Kolkata - 700 092 West Bengal	Phone : (033) 24116711 (O) 9545518047 (M) E-mail : terminatorbarun@gmail.com barunpal@associates.iucaa.in	Cosmological Inflation, Cosmological Perturbations, Cosmic Microwave Background Radiation, Gravitational Lensing, Primordial Gravity Waves.
155.	Dr. Main Pal Sri Venkateswara College University of Delhi Dhaura Kuan New Delhi – 110 021	Phone : 9558133873 (M) E-mail : rajanmainpal@gmail.com	I am involved in the study of active galactic nuclei. Specifically, I have been working on broadband spectral and temporal analysis of Seyfert type 1 galaxies and blazars. In Seyfert type 1 galaxies, I tried to understand the interplay of accretion disk and X-ray corona using data sets from various space missions i.e XMM-Newton, AstroSat, Suzaku, Nustar, Swift. I also studied the jet emission in
156.	Dr. Biswajit Pandey Department of Physics Siksha Bhavana Visva-Bharati University Santiniketan - 731 235 Birbhum West Bengal	Phone : (03463) 262751 (O), (03222) 264183 (R) 7602198961 (M) E-mail : biswap@visva-bharati.ac.in biswap@associates.iucaa.in	Cosmology from the topology and morphology of large scale structures in the Universe, Testing homogeneity of the Universe, Redshift space distortions in Galaxy Redshift Surveys, 21 cm Cosmology, Large scale structure formation.
157.	Prof. Sanjay Kumar Pandey Department of Mathematics Shri. L.B.S. Degree College Gonda - 271 003 Uttar Pradesh	Phone : (05262) 232994 (O) (05262) 232631 (R) 9415176625 (M) E-mail : pandey.star@gmail.com spandey@associates.iucaa.in	Cosmology, Large Scale Structure of the Universe, Statistical analysis of Reionization and post \hat{A} -reionization universe with the help of 21 cm radiation.
158.	Dr. Mahadev Baburao Pandge Dayanand Science College Barshi Road Latur - 413 512 Maharashtra	Phone : (02382) 223929 (O) 9881340347 (M) E-mail : mbpandge@gmail.com mbpandge@associates.iucaa.in	AGN Feedback in groups and clusters of galaxies, Cluster Dynamics, Star formation, galaxy formation and evolution.
159.	Dr. Uma Papnoi Department of Physics Gurukul Kangri (Deemed to be University), Vishwavidyalaya Haridwar – 249 404 Uttarakhand	Phone: 7838920239 (M) E-mail: uma.papnoi@gmail.com	General Relativity and Cosmology, Black holes, Black hole thermodynamics, Gravitational Lensing, Black hole shadow

No.	Name and Address	Phone and E-mail	Research Interests
160.	Dr. Rutu Mahendrabhai Parekh Associate Professor Dhirubhai Ambani Institute of Information and Communication Technology Room No. 2112, Faculty Block 2 Gandhinagar – 382 007 Gujarat	Phone : (079) 68261553 (O) : 9909902519 (M) E-mail : rutuparekh@gmail.com	Micro / Nanoelectronics, Chip Design, Embedded Systems and IOT
161.	Dr. Amit Pathak Department of Physics Banaras Hindu University Varanasi - 221 005 Uttar Pradesh	Phone : (03712) 267007/8/0, 275576 (O) E-mail : amitpah@gmail.com, amitp@associates.iucaa.in	Interstellar molecules and dust.
162.	Dr. Kishor Dnyandeo Patil Principal Dnyan Bharti College, Deoli Wardha-442101 Maharashtra	Phone : 7378779931 (O) 9766022512 (M) E-mail : kishordpatil@yahoo.com, kishor@associates.iucaa.in	General Relativity, Cosmic Censorship.
163.	Prof. Madhav Khushalrao Patil School of Physical Sciences Swami Ramanand Teerth Marathwada University Vishnupuri Nanded - 431 606 Maharashtra	Phone : (02462) 229242 (O) 8308298063 (M) E-mail : patil@associates.iucaa.in, mkpsrtm1@gmail.com	Astronomy and Astrophysics, Observation.
164.	Dr. Bikash Chandra Paul Department of Physics North Bengal University Darjeeling District Siliguri - 734 013 West Bengal	Phone : (0353) 2776338, 39 (O), (0353) 2526801 (R) 9434539881 (M) Fax : (0353) 2699001 E-mail : bcpaul@associates.iucaa.in, bc_paul@hotmail.com	Astrophysics, Cosmology, General Relativity.
165.	Dr. Surajit Paul Associate Professor Manipal Centre for Natural Sciences Manipal Academy of Higher Education Manipal – 576 104 Karnataka	Phone : 9405510226 (M) E-mail : surajit.paul@manipal.edu paulsurajit1@gmail.com	Cosmological simulations of large scale structures (LSS), Galaxy cluster formation, Radio observations of LSS.
166.	Dr. Devraj Damaji Pawar Department of Physics R.J. College Ghatkopar (West) Mumbai - 400 086	Phone : 9869458604 (M) E-mail : devrajdp@gmail.com devraj@associates.iucaa.in	X-ray astronomy.
167.	Dr. Ninan Sajeeth Philip Dean and Director Artificial Intelligence Research and Intelligent Systems (AIRIS4D) Thelliyoor - 689 644 Kerala	Phone : (0468) 2660510 (O) (0469) 2660510 (R) E-mail : nspp@associates.iucaa.in ninansajeethphilip@gmail.com	Artificial Intelligence, Cryptography, Biodiversity

No.	Name and Address	Phone and E-mail	Research Interests
168.	Dr. Ananta Charan Pradhan Department of Physics and Astronomy National Institute of Technology Rourkela - 769 008 Odisha	Phone : (0661) 2462735 (O) (0661) 2463735 (R) 7894252258 (M) E-mail : acp.phy@gmail.com	-
169.	Prof. Anirudh Pradhan Distinguished Professor & Director Centre for Cosmology, Astrophysics & Space Science (CCASS) G.L.A. University Mathura - 281 406 Uttar Pradesh	Phone : (05662) 250900 (O) (05662) 250909 (R) 9415358234/8476847655 (M) E-mail : pradhan.anirudh@gmail.com pradhan@associates.iucaa.in	General Relativity, Cosmology, Dark Energy.
170.	Dr. Ram Prasad Prajapati Associate Professor School of Physical Sciences Jawaharlal Nehru University New Delhi - 110 067	Phone : (011) 26738964 (O) 9826699220 (M) E-mail : prajapati.iter@gmail.com : rpprajapati@mail.jnu.ac.in	Structure formations, Molecular clouds, Jeans instability, Magnetohydrodynamics, Neutrino-beam-plasma interactions, Supernova explosions, Dense White Dwarf and Neutron stars, Dusty and Quantum Plasmas
171.	Dr. Anisur Rahaman Department of Physics Durgapur Government College Durgapur - 713 214 West Bengal	Phone : (0343) 2500534 (O) : 9434575422 / 7679478943 (M) E-mail : manisurn@gmail.com	Field theory and black-hole physics
172.	Dr. Farook Rahaman Department of Mathematics Jadavpur University Kolkata - 700 032	Phone : 9831907279 (M) E-mail : farook_rahaman@yahoo.com rahaman@associates.iucaa.in	GR, Cosmology, Topological Defects, Black Hole, Th. Astrophysics.
173.	Dr. Nisha Rani Assistant Professor Miranda House University of Delhi Delhi – 110 007	Phone : 8860865102 (M) E-mail : nisha.physics@mirandahouse.ac.in	Year 1998 has been an eventful year in cosmology in the sense that it witnessed one of the most celebrated discoveries, i.e. the discovery of the accelerated expansion of the universe. However, the physicists still do not understand the mechanism behind this. But the good part is that excellent progress has been made on the observational front in last few years which helps us to converge at flat Λ -CDM model, also referred to as the standard model of cosmology. According to this model, the universe is composed of dark energy, dark matter and baryonic matter. Dark energy is a hypothetical form of energy which is considered as the cause of accelerated expansion of the universe. In Λ -CDM model, Λ stands for the cosmological constant, a candidate of dark energy with equation of state, $P_{\Lambda} = -\rho_{\Lambda} c^2$ at all times. But the problems like cosmological constant and coincidence problem motivates one to look for alternate models of dark energy. For this reason, our focus has been to understand late time acceleration of Universe. We used statistical techniques (parametric and non-parametric) along with various observational data like SNIa, z galaxy, Hubble data, strong gravitational lensing to
174.	Dr. Rakhi R. PG Research Department of Physics N.S.S. College Pandalam, Pathanamthitta Pandalam - 689 501 Kerala	Phone : 9497326945 (O) 8860228530 (M) E-mail : rakhinsscollege@gmail.com	Astrophysics: Star formation in Galaxies, Cosmology: Inflation and Dark Energy Models, Space Science
175.	Dr. Rajesh S.R. Department of Physics Sanatana Dharma College Sanatanapuram Kalacode Alappuzha – 688 003 Kerala	Phone : (0477) 2269350 (O) 9400235838 (M) E-mail : sivayaohm@gmail.com rajesh@associates.iucaa.in	Astrophysics and related hydrodynamics.

No.	Name and Address	Phone and E-mail	Research Interests
176.	Dr. Chayan Ranjit Department of Mathematics Egra S.S.B. College Egra, Purba Medinipur - 721 429 West Bengal	Phone : (032) 20244073 (O) 919433927433 (M) E-mail: chayanranjit@gmail.com	Higher Dimensional Cosmological Model; Dark Matter; Dark Energy Models; Modified Gravity; Observational Data Analysis; Some Cosmological Parameters (Deceleration Parameter; State-finder Parameters, Om Diagnostic: Slow-Roll Parameters)
177.	Prof. Shantanu Rastogi Department of Physics D.D.U. Gorakhpur University Gorakhpur - 273 009 Uttar Pradesh	Phone : (0551) 2332398 (O) (0551) 2204517 (R) 9335631805 (M) E-mail : shantanu@associates.iucaa.in	Molecular Spectroscopy, Biopolymers and Molecules of Astrophysical Importance, Infrared Spectroscopy.
178.	Prof. C.D. Ravikumar Department of Physics University of Calicut Kozhikode - 673 635 Kerala	Phone : (0494) 2401144 (O), (0466) 2282893 (R) 9447192136 (M) Fax : (0494) 2400269 E-mail : cdravi@gmail.com, ravi@associates.iucaa.in	Galaxies, Observational Astronomy, Extragalactic Astronomy, Quasars and AGNs.
179.	Prof. (Dr.) Saibal Ray Associate Director Centre for Cosmology, Astrophysics & Space Science (CCASS) GLA University 17 th KM Mile Stone, NH-2 Mathura-Delhi Highway Road P.O. Chaumuhan Mathura – 281 406 Uttar Pradesh	Phone : 9163169796/8910477467 (M) E-mail : saibal@associates.iucaa.in : saibal.ray@gla.ac.in	General Relativity, Astronomy, Astrophysics, Cosmology.
180.	Dr. Biplob Raychaudhuri Department of Physics Visva-Bharati University Santiniketan – 731 235 West Bengal	Phone : (03463) 261016 (O) (03561) 256048 (R) 9434464856 (M) E-mail : bipray@associates.iucaa.in : biplob_raychaudhuri@gmail.c	Sagnac Effect in Curved Spacetime, General Relativity, Astrophysics.
181.	Dr. Pramit Rej Department of Mathematics Sarat Centenary College Dhaniakhali Hooghly - 712302 West Bengal	Phone : (03213) 255282 (O) 9475639012 (R) 9775172239 (M) E-mail : pramitrej@gmail.com	Mathematical Physics, Quantum Mechanics, Plasma Physics, General Theory of Relativity, Modified theories of Gravity, Theoretical Astrophysics, Modelling of Compact Stars in General Relativity and Modified theories of Gravity, Gravastar modelling, Wormhole modelling; Dark matter (DM), Dark energy (DE), and possible alternative models of DM and DE.
182.	Dr. Rupak Roy Manipal Center for Natural Sciences Manipal Academy of Higher Education Dr. T.M.A Pai Planetarium Building Madhav Nagar Manipal – 576 104 Karnataka	Phone : (0820) 2923599 (O) 7066564678 (M) E-mail : rupakroy1980@gmail.com	My research area is mainly based on High Energy Astrophysical phenomena (related to Time Domain Astronomy), viz. Supernovae, Superluminous Supernovae and Tidal Disruption Events. The main purpose of my research work is to characterize individual objects, to study their various bulk properties (using a large sample of similar types of objects) and also to study their environments. The necessary data are being obtained from different telescopes through individual proposal submissions, and also under large-scientific collaborations worldwide. I am also interested in the observational aspects of extremely energetic outflows from AGNs, Radio Galaxies etc. I am a member of various transient follow-up groups - for e.g., PESSTO / ePESSTO/ ePESSTO+ project which is a large project of the European Southern Observatory (ESO) and is being used for spectroscopic classification/follow- up of new transients. I use multi-wavelength data to characterize these energetic transients.

No.	Name and Address	Phone and E-mail	Research Interests
183.	Dr. Prabir Rudra Assistant Professor Department of Mathematics Asutosh College Postal Nabanna Apartment, Flat- 2B 21P Sagar Manna Road Behala Parnashree Kolkata - 700 060	Phone : (033) 24554504 (O) (033) 24062196 (R) 9836724050 (M) E-mail : prudra.math@gmail.com rudra@associates.iucaa.in	Theoretical astrophysics and cosmology.
184.	Dr. Aswathy S. Assistant Professor Department of Physics Providence Women's College Malaparamba Calicut - 673 305 Kerala	Phone : (0495) 2371696 (O) (0496) 2620463 (R) 9895946308 (M) E-mail : aswathysahaj@gmail.com aswathy.sahaj@associates.iucaa.in	Co-evolution of supermassive black holes and their host galaxies, central light concentration in galaxies, evolution of galaxies with nuclear rings, optical studies of X-ray point sources in nearby galaxies, X-ray to optical association of Ultra luminous X-ray sources and stellar population synthesis of globular clusters in nearby Universe
185.	Dr. Sunil Kumar S. Indian Institute of Science, Education and Research Rami Reddy Nagar Karakambadi Road C/o. Sree Rama Engineering College (Transit Campus) Tirupati - 517 507	Phone : 8772500449 (M) E-mail : sunil@iisertirupati.ac.in sunil.phys@gmail.com	Major research areas: Laboratory astrophysics/astrochemistry and Molecular Biophysics. I am also interested in the topics below: Physics and chemistry of atomic/molecular ions of astrophysical, biological, and fundamental interest Trapping and cooling of atomic/molecular ions of astrophysical and biological relevance and their spectroscopy Experimental/theoretical investigations of photoabsorption by atoms/molecules and their ions Quantum chemistry of ion-neutral reactions of astrophysical relevance Quantum collisions of neutral and charged particles with atoms/molecules
186.	Dr. Anirban Saha Department of Physics West Bengal State University Berunanpukuria, Malikapur Barasat 24 Parganas (North) - 700 126 West Bengal	Phone : (033) 25241975 (O) (033) 25386288 (R) 9836021172 (M) E-mail : ani_saha09@yahoo.co.in, anirban@associates.iucaa.in	Non-commutative Field Theory, String Theory, Constrained Hamiltonian Dynamics, Classical GR, GW, etc.
187.	Prof. Sanjay Kumar Sahay Department of Computer Science and Information Systems BITS-Pilani K.K. Birla Goa Campus NH-17B, By Pass Road Zuari Nagar - 403 726 Goa	Phone : (0832) 2580243 (O) 9850145798 (M) Fax : (0832) 5643017 E-mail : ssahay@goa.bits-pilani.ac.in ssahay@associates.iucaa.in	Gravitational Wave Astronomy.
188.	Prof. Sandeep Sahijpal Department of Physics Panjab University Sector 14 Chandigarh - 160 014	Phone : (0172) 2534469 (O) (0172) 2724039 (R) 9815611039 (M) E-mail : sandeep@pu.ac.in, sandeep@associates.iucaa.in	Formation and Evolution of Solar System.
189.	Dr. Pradyumn Kumar Sahoo Birla Institute of Technology and Science Hyderabad Campus Jawahar Nagar, Kapra Mandal Hyderabad – 500 078	Phone : (040) 66303573 (O) : 9912564154 (M) E-mail : pksahoo@hyderabad.bits-pilani.ac.in	Relativity, Theoretical Cosmology, Dark Energy, Observational datasets, Astrophysical objects

No.	Name and Address	Phone and E-mail	Research Interests
190.	Prof. Eeshankur Saikia Department of Applied Sciences Gauhati University New Guist Building Guwahati – 781 014 Assam	Phone : (0361) 2570412 (O) : 9854121425 (M) E-mail : eeshankur@gauhati.ac.in	Astronomy & Astrophysics, Astrostatistics (Data Analysis), Computational Physics (Numerical Simulation), Instrumentation & Automation
191.	Prof. Gauranga Charan Samanta Associate Professor PG Department of Mathematics Old Campus Fakir Mohan University Vyasa Vihar, Balasore Odisha - 756 019	Phone : 8208103346 (M) E-mail : gauranga81@gmail.com	Theoretical Cosmology: General Relativity, Modified Gravity, Dark Energy and Wormhole Modeling
192.	Dr. Prasant Samantray Cabin B-304H Department of Physics BITS-Pilani Hyderabad Campus Shameerpet, Jawahar Nagar Secunderabad - 500 078 Telangana	Phone : 8878185151 (M) E-mail : prshkumar@gmail.com	AdS/CFT correspondence, string theory, quantum field theory, black holes.
193.	Dr. Biplob Sarkar Assistant Professor Department of Applied Sciences School of Engineering Tezpur University Napaam, Sonitpur Assam - 784 028	Phone : (03712) 273500 (O) : (0361) 4065074 (R) : 9101614336 (M) E-mail : biplobsiut@gmail.com	Physics of accretion flows around black holes. I explore the theoretical and observational aspects of accretion flow properties around black hole binaries. One of my major research interests is to understand the role of magnetic fields in the accretion flows around black holes. I have worked on the theoretical modelling of various observational aspects from black hole candidates like the accretion disc luminosity and jet kinetic power and how the shocks in accretion flows may help in explaining these observational findings. My other research area is to utilize AstroSat archival data of black hole binaries to examine the detailed spectro-timing characteristics of these sources. I along with my collaborators would identify the various spectral components in the wide band X-ray spectra of the black hole binaries using broad energy coverage in X-rays using joint spectrum from SXT and LAXPC. Also, we would consider about the detailed study of timing behaviour of the sources using advanced timing techniques e.g. power spectral density with the softwares LAXPCSoft and GHATS. We would also attempt to generate the spectrum of the black hole sources observed with AstroSat with the global magnetized accretion solutions for a black hole.
194.	Dr. Prakash Sarkar Kashi Sahu College Seraikella Dist - Seraikella-Kharsawan Seraikella -833 219 Jharkhand	Phone : (06597) 234323 7870820609 (M) E-mail : prakash.iucaa@gmail.com	Computational Cosmology, Analysis of galaxy redshift survey, N-body Simulations
195.	Dr. Saumyadip Samui Department of Physics Presidency University 86/1, College Street Kolkata - 700 073	Phone : 8158074782 (M) E-mail : ssamui@gmail.com, samui@associates.iucaa.in	Astrophysics and Cosmology.
196.	Dr. Subrata Sarangi Department of Physics Centurion University of Technology and Management Bhubaneswar Campus At : Ramachandrapur, Jatni Bhubaneswar – 752 050	Phone : 8260077222 (O) 7008398388 / 7735782033 (M) E-mail : subrata.sarangi@cutm.ac.in	Nuclear Structure Theory, Nuclear Matter Theory, Materials Science, Astrophysics

No.	Name and Address	Phone and E-mail	Research Interests
197.	Dr. Tamal Sarkar Scientific Research Officer Grade-II High Energy and Cosmic Ray Research Centre (HECRRC) University of North Bengal Raja Ram Mohunpur P.O. North Bengal University Siliguri - 734 013 West Bengal	Phone : (0353) 2776358 (O) : 8280528250 (M) E-mail: tsarkar@nbu.ac.in	General Theory of Relativity, Black hole physics, Black hole accretion, and gravitational waves
198.	Dr. Anjan Ananda Sen Centre for Theoretical Physics Jamia Millia Islamia Jamia Nagar New Delhi - 110 025	Phone : (011) 26984830 (O) (0120) 4131305 (R) 9818024543 (M) Fax : (011) 26981753 E-mail : anjsen@gmail.com, anjan@associates.iucaa.in	Dark Energy and Late Time Acceleration of the Universe, Brane World Cosmology, Loop Quantum Cosmology.
199.	Prof. Asoke Kumar Sen Department of Physics Assam University P.B. No. 63 Silchar - 788 011 Assam.	Phone : (03842) 270843 (O) (03842) 236979 (R) 9435070349 (M) Fax : (03842) 270802 / 270806 E-mail : aksen@associates.iucaa.in, asokesen@yahoo.com,	Comets, Solar System, Astronomical Observations.
200.	Prof. Somasri Sen Department of Physics Jamia Millia Islamia New Delhi - 110 025	Phone : (0120) 4131305 (R) 9717050331 (M) E-mail : somasri.sen@gmail.com ssen@jmi.ac.in	Cosmology, Gravitation, Astroparticle Physics.
201.	Dr. Anand Sengupta Department of Physics IIT Gandhinagar AB 5/326 Gujarat- 382055	Phone : (079) 23952432 (O) 8758146696 (M) E-mail : asengupta@iitgn.ac.in	Fast interpolation of inspiral template bank for coherent searches for gravitational waves, etc.
202.	Prof. T.R. Seshadri Department of Physics and Astrophysics University of Delhi New Delhi - 110 007	Phone : (011) 27667061 (O) (011) 27315329 (R) 9971954775 (M) Fax : (011) 27667061 E-mail : trs@associates.iucaa.in, seshadri.tr@gmail.com	CMBR, Cosmology.
203.	Dr. Kannabiran Seshasayanan Assistant Professor Department of Physics Indian Institute of Technology Kharagpur -721 302 West Bengal	Phone : (0322) 2284862 (O) 9360028322 (M) E-mail : s.kannabiran@gmail.com	Nonlinear dynamics, Turbulence, Astrophysics, Geophysical fluid dynamics, Non-equilibrium statistical mechanics
204.	Dr. Geetanjali Sethi Department of Physics St. Stephen's College University of Delhi Delhi – 110 007.	Phone : (011) 27667271 (O) : 8527516516 (M) E-mail : getsethi@ststephens.edu	Cosmology, Astronomy

No.	Name and Address	Phone and E-mail	Research Interests
205.	Dr. Mohd Shahalam Integral University Kursi Road Lucknow - 226 026 Uttar Pradesh	Phone : 9839086086(O) 9756366519 (M) E-mail : mohdshahamu@gmail.com	Dark Energy, Modified Gravity, Cosmic Inflation, Loop Quantum Cosmology and Gravitational Waves
206.	Dr. Aishawnnya Sharma Department of Physics Bahona College Bahona - 785 101 Assam.	Phone : 9957927147 E-mail : sharmaaishawnnya@gmail.com aish@associates.iucaa.in	My research focuses on multiwavelength imaging and spectroscopic observations of the solar atmosphere to understand the nature, and spatio-temporal evolution of different wave modes in different layers of the solar atmosphere. Different waves in the solar atmosphere (such as slow, fast magnetoacoustic waves, and Alfvén waves) are detected by analysing the variations in intensity, Doppler velocity, and line widths of spectral lines. Propagation of compressional waves cause variations in the intensity of the medium. Whereas, the transverse incompressible waves like Alfvén waves do not show any intensity variation. They cause broadening of spectral lines, which can be measured from the spectroscopic observations of line widths of spectral lines. I study the spatio-temporal variations of the parameters such as the intensity, line width, Doppler velocity etc. to understand the nature of the perturbations observed in the solar atmosphere and characterize them by different time-series analysis techniques. Further, I do spectroscopic studies to understand the propagating medium/structures in details and its effect as well as the response to the perturbations. I have used observations recorded by the Atmospheric Imaging Assembly (AIA) onboard the Solar Dynamics Observatory (SDO) and Extreme-Ultraviolet Imaging Spectrometer (EIS)
207.	Dr. Ranjan Sharma Department of Physics Cooch Behar Panchanan Barma University Vivekananda Street Cooch Behar - 736 101 West Bengal	Phone : (03582) 230218 (O) (03561) 255050 (R) 9832096288 (M) Fax : (03582) 224011 E-mail : rsharma.jpg@gmail.com rsharma@associates.iucaa.in	Relativistic Astrophysics.
208.	Dr. Rathin Sarma Assistant Professor Department of Physics Rabindranath Tagore University Hojai - 782 435 Assam	Phone : 9435537925 (M) E-mail: sharma.rathin@gmail.com	X-Ray data analysis and understanding the accretion disc physics around the SMBH of AGN. I am particularly interested in long term variability of highly variable Narrow Line Seyfert 1 (NLS1) galaxy. I have been studying the hot ISM of the Milky Way also.
209.	Dr. Umesh Kumar Sharma Associate Professor Department of Mathematics GLA University Mathura - 281 406 Uttar Pradesh	Phone : 7055510538 (O) 9719431820 (M) E-mail : sharma.umesh@gla.ac.in	Dark Energy Modified gravity theory General Relativity and cosmology Wormhole
210.	Mr. Md. Salim Md. Harun Shekh S. P. M. Science and Gilani Arts Commerce College Ghatanji, Dist. Yavatmal – 445 301.	Phone : 8806471770 (M) E-mail : da_salim@rediff.com	General theory of relativity; Modified gravity; Dark energy; Dark matter; Cosmology.
211.	Dr. Amit Shukla Discipline of Astronomy, Astrophysics and Space Engineering (DAASE) Indian Institute of Technology Khandwa Road, Simrol Indore - 453 552	Phone : (0731) 2438700 (Extn. 3213) 9579293880 E-mail : amit.shukla@iiti.ac.in	My main area of research includes Gamma-ray Astronomy, Active galactic nuclei, Blazars, Radio galaxies, Seyfert Galaxies, Pulsars. I mainly use multi-wavelength data from a few telescopes, including FACT, MAGIC, Fermi-LAT, Swift-XRT, AstroSat, NuStar, to study Time-domain and Multi-wavelength Astronomy from Astrophysical sources. Moreover, I also study Particle acceleration and Jet launching mechanisms in astrophysical sources. The blazars are the ideal laboratories to study the particle acceleration and jet launching mechanisms as the innermost regions of an AGN and its jet, as the dominant part of the observed non-thermal emission from the AGN originates close to the central engine. Thus the flux variability can shed light on this very innermost region of jets which is well beyond the current imaging capabilities of telescopes in any part of the electromagnetic spectrum. In addition to above mention topics, I also work on the calibration and development of Atmospheric Cherenkov Telescope and Detectors. Recently I have also started developing machine learning tools for Time-domain Astronomy.
212.	Dr. Ashutosh Singh Centre for Cosmology, Astrophysics and Space Science GLA University Mathura - 281406 Uttar Pradesh	Phone : (05662) 250761 (O) 9628324945 (M) E-mail : ashuverse@gmail.com	Bouncing and cyclic cosmologies; Relativistic cosmology; Modified gravity; Dynamical systems in cosmology; Thermodynamic aspects of universe; Active galactic nuclei (blazars)

No.	Name and Address	Phone and E-mail	Research Interests
213.	Dr. Alkendra Singh UGC-Assistant Professor Department of Physics Institute of Science Banaras Hindu University Varanasi - 221 005	Phone : 8765476544 (M) E-mail: alkendra@gmail.com alkendra@associates.iucaa.in	Solar and Plasma Astrophysics, Magneto- hydrodynamic, Space- based observations of the Sun.
214.	Dr. Dharm Veer Singh Assistant Professor GLA University Department of Physics Room No. 415, Academic Block 8 Mathura – 281 406	Phone : 9953171095 (M) E-mail : veerdsingh@gmail.com	Classical and Quantum gravity, Modified theories of gravity, Black Hole solutions, Black hole thermodynamics
215.	Prof. Gyan Prakash Singh Department of Mathematics Visvesvaraya National Institute of Technology Nagpur - 440 010 Maharashtra	Phone : (0712) 2801356 (O) (0712) 2801386 (R) 9423684625 (M) E-mail : gpsingh@mth.vnit.ac.in gps.math2015@gmail.com	General Relativity and Cosmology.
216.	Prof. Harinder Pal Singh Department of Physics and Astrophysics University of Delhi New Delhi - 110 085	Phone : (011) 27667793 (O) (011) 27567366 (R) 9810248042 (M) Fax : (011) 27667061 E-mail : singh@associates.iucaa.in, hpsingh.du@gmail.com	Stellar Magnetic Fields, Stellar Evolution.
217.	Dr. Heisnam Shanjit Singh Department of Physics Rajiv Gandhi University Rono Hills, Papum Pare - 791 112 Arunachal Pradesh	Phone : (0360) 2278572 (O) 7308260563 (M) E-mail : heisnam.singh@rgu.ac.in heisnam@associates.iucaa.in	Black holes and Cosmology.
218.	Prof. Suprit Singh Department of Physics Indian Institute of Technology New Delhi – 110 016	Phone : 9560282124 (M) E-mail : supritsingh@gmail.com	Gravitation and Cosmology, Quantum Field Theory in Curved Spacetimes, Quantum Gravity, Galactic and Extragalactic Astrophysics, Computer Vision
219.	Dr. Monika Sinha Department of Physics Indian Institute of Technology Jodhpur Room No. 333 Jodhpur - 342037 Rajasthan	Phone : (0291) 2801604 (O) 7568875770 (M) E-mail : ms@iitj.ac.in monika@associates.iucaa.in	Compact objects.
220.	Dr. Surendra Nadh Somala Associate Professor Indian Institute of Technology Hyderabad - 502 285 Telangana	Phone : (040) 23016313 (O) : 9398213383 (M) E-mail : surendra@iith.ac.in surendra@associates.iucaa.in	Engineering seismology, computational geophysics, gravity perturbations due to seismic wavefield.
221.	Dr. Sourav Sur Room 168, MS Block Department of Physics and Astrophysics University of Delhi (North Campus) New Delhi – 110 007	Phone : (011) 27667793 (O) : 9999246718 (M) E-mail : sourav@physics.du.ac.in	General Relativity, Cosmology, Black- hole physics, and the formulation of modified or alternative gravity theories of various sort, as well as the compact extra-dimensional (brane-world) gravity theories

No.	Name and Address	Phone and E-mail	Research Interests
222.	Prof. Parijat Thakur Department of Pure and Applied Physics Guru Ghasidas Central University Bilaspur - 495 009 Chattisgarh	Phone : (07752) 260007 (O) (0788) 4017785 (R) 7587096051 (M) Fax : (07752) 260148 E-mail : parijatthakur@yahoo.com parijat@associates.iucaa.in	Investigating Transiting Exoplanets, X-Ray Studies of Galactic Binaries, Galactic Structure and Dynamics, Structure and Evolution of Barred Galaxies
223.	Dr. Arun Varma Thampan St. Joseph's University P.O. Box 27094 36 Lalbagh Road Bengaluru - 560 027	Phone : (080) 22274079 (O) (080) 25834800 (R) 9449835496 (M) E-mail : athampan@gmail.com arun@associates.iucaa.in	General Relativity, Modelling of observational data.
224.	Dr. Vithal P. Shet Tilvi Department of Physics Government College Khandola Directorate of Higher Education SCERT Building Porvorim Goa - 403 521	Phone : 7020783354 E-mail : vtilvi@gmail.com vithal.tilvi@associates.iucaa.in	<small>My research interest is focussed on two frontier research areas : (1) understanding the galaxy formation and evolution of the earliest galaxies in the universe, and (2) probing the epoch of reionization^a the transition from a completely neutral intergalactic medium (IGM) to an ionized IGM, within the first billion years. The earliest galaxies are the building blocks of present-day, nearby galaxies. Therefore, for a complete understanding of galaxy formation and evolution, it is essential to observe and study the earliest objects in the universe. The epoch of reionization, on the other hand, is one of the most important events in the history of our universe because it had a lasting impact on the evolution of the universe itself. Both these areas have therefore gained a significant attention in recent years, and are among the top science drivers for all upcoming observatories including the the Thirty Meter Telescope (TMT), James Webb Space Telescope (JWST), the Giant Magellan Telescope (GMT), and the European Extremely Large Telescope (E-ELT).</small>
225.	Dr. Sunil Kumar Tripathy Department of Physics Indira Gandhi Institute of Technology Sarang Dhenkanal Dhenkanal - 759 146 Odisha	Phone : (06768) 267025 (O) 8280295995 (M) E-mail : tripathy_sunil@rediffmail.com sktripathy@associates.iucaa.in	Cosmology, Relativity and Gravitation: Late time cosmic acceleration- Dark energy models, Alternative theories of gravity, Nuclear Physics: Equation of state of Nuclear Matter, Neutron stars and Proto Neutron star.
226.	Dr. Vinutha Tummala Department of Applied Mathematics Andhra University Visakhapatnam - 530 003 Andhra Pradesh	Phone : (0891) 2844524 (O) (0891) 4800126 (R) 9490235319 (M) E-mail : vinuthatummala@gmail.com vinutha@associates.iucaa.in	Einstein's theory of gravitation, scalar tensor theories of gravitation and dark energy cosmological models in order to explain the expanding nature of the Universe and other properties.
227.	Dr. Rashmi Uniyal Department of Physics Government Degree College Barkot Uttarkashi Uttarakhand 249141	Phone : 8006733214 (M) E-mail : runiyal687@gmail.com uniyal@associates.iucaa.in	Classical Gravity and related phenomenon, geodesic structure, orbit structure and kinematics of geodesic flows around given spacetime backgrounds, weak and strong gravitational lensing and kinematics of deformation of null geodesics around various compact objects along with accretion phenomenon associated with these objects.
228.	Dr. Sanil Unnikrishnan Department of Physics St. Stephen's College University Enclave New Delhi - 110 007	Phone : (011) 22503058 (R) 8860153808 (M) E-mail : sanil.unni@gmail.com	Cosmology in general, Dark Energy and Dark Matter Inflation and Early Universe Cosmology, Cosmological Perturbation Theory, Modified theory of gravity as an alternative to dark energy.

No.	Name and Address	Phone and E-mail	Research Interests
229.	Dr. Sudhaker Upadhyay Department of Physics K.L.S. College Nawada (A Constituent Unit of Magadh University Bodh Gaya) Bihar - 805 110	Phone: 8090976139 (O) 7477780999 (M) E-mail : sudhakerupadhyay@gmail.com	Galaxy clustering and structure formation of universe
230.	Prof. Anisul Ain Usmani Department of Physics Aligarh Muslim University Aligarh - 202 002 Uttar Pradesh	Phone : (0571) 2701001 (O) (0571) 2721829 (R) 9412275671 (M) Fax : (0571) 2701001 E-mail : anisul@associates.iucaa.in, anisul.usmani@gmail.com	Many Body Theories, Physics of Strangeness.
231.	Dr. Jithesh V Department of Physics and Electronics Christ (Deemed To Be University) Dharmaram College P.O Hosur Road Bengaluru - 560 029	Phone : (080) 40129100 (O) 9497408160 (M) E-mail : jithesh.v@christuniversity.in	X-ray Astronomy, Spectral and timing studies of X-ray binaries and ultra-luminous X-ray sources, multi-wavelength study of active galactic nuclei and blazars.
232.	Dr. Nilkanth Dattatray Vagshette Department of Physics & Electronics Maharashtra Udaygiri Mahavidyalaya Udgir Latur - 413 517 Maharashtra	Phone : (02385) 256052 (O) 9975909979 (M) E-mail : nilkanth1384@gmail.com	1) AGN feedback mechanism in ICM/IGM 2) Shocks and cold fronts in clusters 3) X-ray binary stars in early type galaxies 4) Dust properties of early type galaxies
233.	Dr. Bhargav Pradeep Vaidya Discipline of Astronomy, Astrophysics and Space Engineering Indian Institute of Technology Onyx 118, Silver Springs Phase 2 Bypass Road, Pathar Mundla Indore - 452 020 Madhya Pradesh	Phone: 7324306538 (O) 731494005 (R) 9998983564 (M) E-mail : bvaidya@iiti.ac.in	Computational Fluid Dynamics: Hydrodynamics, Magneto- hydrodynamics & Radiative transfer Theoretical star formation: Accretion disk physics, Jets and Outflow formation and associated instabilities Particle Acceleration in AGN jets : Modeling Non-Thermal spectral signatures Inter-Stellar Medium : Shock-Cloud Interaction, Collapse of molecular cores, Shock induced chemistry. Astrophysical Code Development: MPI Parallel Programming, Visualization and Data
234.	Prof. Murli Manohar Verma Department of Physics University of Lucknow Lucknow - 226 007 Uttar Pradesh	Phone : (0522) 2740467 (O) (0522) 2740140 (R) 9415725291 (M) E-mail : sunilmmv@yahoo.com murli@associates.iucaa.in	Cosmology: Dynamics and diagnostics of the Interacting dark energy models especially quintessence and tachyonic field models.
235.	Dr. Jaswant Kumar Yadav Department of Physics and Astrophysics Central University of Haryana Jant-Pali, Mahendergarh Haryana - 123 031	Phone : (01285) 260157 (O) : 7696951306 (M) E-mail : jaswantkyadav@gmail.com jaswant@associates.iucaa.in	Formation and Evolution of galaxies, Feedback Processes in galaxy formation, Chemical etc.

No.	Name and Address	Phone and E-mail	Research Interests
236.	Mrs. Nitin Yadav Department of Physics Indian Institute of Science Education and Research Thiruvananthapuram – 695 551 Kerala	Phone : (0471) 2778325 (O) 9873553413 (M) E-mail : nitinyadav@iisertvm.ac.in	Magnetohydrodynamics (MHD): Theory and simulations, Solar atmosphere and radiative transfer, Waves and mode transformation processes, Solar plasma dynamics and heating, Space plasma physics: Magnetic reconnection and energetic event
237.	Dr. Lalthakimi Zadeng Department of Physics Mizoram University Aizawl - 796 004 Mizoram	Phone : (0389) 2330522 (O) 9436152904 (M) E-mail : kimizadeng@gmail.com	Spectral time studies of X-ray Binaries

SR/FTP/PS-206/2013

Science and Engineering Research Board (SERB)
(A statutory body of the Department of Science and Technology, Government of India)
(5 & 5A, Vasant Square Mall, Sector-B, Pocket-5, Vasant Kunj, New Delhi – 110 070)

Dated 06.03.2017

ORDER

Subject:- Financial assistance for the research project entitled "Study of atomic coherent and incoherent resonances using Hanle configuration formed by the laser field and homogeneous magnetic field" by **Dr. Md. Mabud Hossain**, Department of Physics, Allah University, Action Area II A/27, Near Eco Space, New Town, Kolkata – 700 156, West Bengal.

Sanction of the Science and Engineering Research Board (SERB) is hereby accorded for the carrying forward of unutilized Govt. grant of Rs. 18,00,000/- & Rs. 1,50,000/- from 2014-15 to 2015-16 and Rs. 1,07,316/- & Rs. 2,866/- from 2015-16 to 2016-17 under Non-Recurring and Recurring head respectively for the same purposes for which it was sanctioned.

2. Sanction of the Board is also accorded to the payment of a sum of Rs. 1,50,000/- (Rupees one lakh fifty thousand only) to The Registrar, Allah University, Kolkata - 700156, West Bengal being the grant for the financial year 2016-17.

3. Sanction of the grant is subject to the condition as detailed in Annexure – I of this Dept.'s sanction number of SR/FTP/PS-206/2013 dated 04.09.2014.

4. It is certified that provision of GFR 212 relating to the utilization certificates (UCs) for the funds released under the grant have been satisfied and the UC is enclosed.

5. The expenditure involved is debitable to
Fund for Science and Engineering Research (FSER) - Recurring
This release is being made under OYS Scheme – Physical & Mathematical Sciences.

6. The sanction has been issued with the approval of Competent Authority in the Board vide Dy. No. SERB/F/ 9057 /2016-17 dated 06.03.2017.

7. The amount of Rs. 1,50,000/- (Rupees one lakh fifty thousand only) will be drawn by the Finance and Budget Officer of the Board and will be disbursed to The Registrar, Allah University, Kolkata - 700156, West Bengal by means of RTGS transaction as per their details given below:

Account Name	Registrar
Bank Name & Branch	Bank of Baroda, GEN NEXT Branch, Sector-5, Kolkata
Bank Account Number	32210200000120
IFSC Code	BARB0GENSAL (fifth character is zero)
e-mail ID of the grantee	registrar@allah.ac.in

8. The Institute will furnish to the SERB, utilization certificate and audited statement of accounts pertaining to the grant immediately after the end of each financial year.

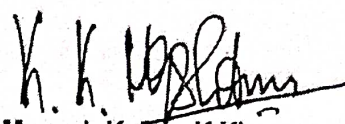
9. The Institute will maintain separate audited accounts for the project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest, the interest earned should be reported to the SERB. The interest thus earned will be treated as a credit to the Institute to be adjusted towards further installment of the grant.

-2-

Md. Mabud Hossain

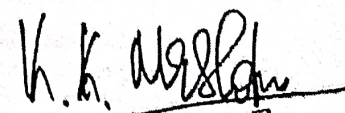
- 2 -

10. As per Rule 211 GFRs, the accounts of the project shall be open to inspection by the sanctioning authority / audit whenever the Institute is called upon to do so.
11. The Institute, on completion of the project, may refund unspent balance to SERB by means of an a/c payee Demand Draft favoring "FUND FOR SCIENCE & ENGINEERING RESEARCH" payable at New Delhi.
12. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
13. In addition, the investigator/host Institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. Magesh Kumar K K)
Scientist 'C'

Copy forwarded for information and necessary action to:

1. The Principal Director of Audit, III Floor, A.G.C.R Building, I.P Estate, New Delhi – 110 002.
2. The Finance and Budget Officer, SERB (2 copies)
3. **Dr. Md. Mabud Hossain**
Department of Physics
Aliah University
Action Area II A/27, Near Eco Space, New Town
Kolkata – 700 156, West Bengal
e-mail: mhossain.phy@gmail.com
4. **The Registrar**
Aliah University
Action Area II A/27, Near Eco Space, New Town
Kolkata – 700 156, West Bengal
5. Sanction folder SERB
6. OSD, SERB
7. SERB Sectt.


(Dr. Magesh Kumar K K)
Scientist 'C'

SB/FTP/PS-206/2013

Science and Engineering Research Board (SERB)

(A statutory body of the Department of Science and Technology, Government of India)
 (5 & 5A, Vasant Square Mall, Sector-B, Pocket-5, Vasant Kunj, New Delhi – 110 070)

Dated 07.02.2020

ORDER

Subject:- Financial assistance for the research project entitled "Study of atomic coherent and incoherent resonances using Hanle configuration formed by the laser field and homogeneous magnetic field" by **Dr. Md. Mabud Hossain**, Department of Physics, Aliah University, Action Area II A/27, Near Eco Space, New Town, Kolkata – 700 156, West Bengal.

Sanction of the Board is accorded to the payment of a sum of Rs. 2,06,908/- (Rupees two lakh six thousand nine hundred eight only) to The Registrar, Aliah University, Kolkata - 700156, West Bengal **being the FINAL grant under the project.**

2. Sanction of the grant is subject to the condition as detailed in Annexure – I of this Dept.'s sanction number of SB/FTP/PS-206/2013 dated 04.09.2014.
3. It is certified that provision of GFR 212 relating to the utilization certificates (UCs) for the funds released under the grant have been satisfied and the UC is enclosed.
4. The expenditure involved is debitible to
Fund for Science and Engineering Research (FSER) - Recurring
 This release is being made under OYS Scheme – Physical & Mathematical Sciences.
5. The sanction has been issued with the approval of Competent Authority in the Board vide Dy. No. SERB/F/ **9932** /2019-20 dated 06.02.2020.
6. The amount of Rs. 2,06,908/- (Rupees two lakh six thousand nine hundred eight only) will be drawn by the Under Secretary of the Board and will be disbursed to **The Registrar, Aliah University, Kolkata - 700156, West Bengal** by means of RTGS transaction as per their details given below:

Account Name	Registrar
Bank Name & Branch	Bank of Baroda, GEN NEXT Branch, Sector-5, Kolkata
Bank Account Number	32210200000120
IFSC Code	BARB0GENSAL (fifth character is zero)
e-mail ID of the grantee	registrar@aliah.ac.in

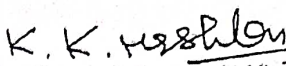
7. The Institute will furnish to the SERB, utilization certificate and audited statement of accounts pertaining to the grant. And, the Institute will maintain separate audited accounts for the project.
8. As per Rule 211 GFRs, the accounts of the project shall be open to inspection by the sanctioning authority / audit whenever the Institute is called upon to do so.
9. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

-2-

Md. Mabud Hossain

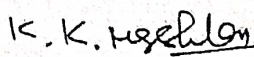
- 2 -

10. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. Magesh Kumar K K)
Scientist 'C'

Copy forwarded for information and necessary action to:

1. The Principal Director of Audit, III Floor, A.G.C.R Building, I.P Estate, New Delhi – 110 002.
2. The Under Secretary, SERB (2 copies)
3. **Dr. Md. Mabud Hossain**
Department of Physics
Aliah University
Action Area II A/27, Near Eco Space, New Town
Kolkata – 700 156, West Bengal
e-mail: mhossain.phy@gmail.com
4. The Registrar
Aliah University
Action Area II A/27, Near Eco Space, New Town
Kolkata – 700 156, West Bengal
5. Sanction folder SERB
6. OSD, SERB
7. SERB Sectt.


(Dr. Magesh Kumar K K)
Scientist 'C'

GOVERNMENT OF WEST BENGAL
Department of Science & Technology
Bikash Bhawan, 4th floor

Tel: 25693717

Fax:

Date: 25/03/2018

Memo No : 249(Sanc.)/ST/P/S&T/16G-26/2017

Sanction Order for Grant-in-Aid

Demand No. : 70

Department Code : ST

Financial Year : 2017 - 2018

1. Sanctioning Authority: Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)
2. Name of the Grantee Institution: **Aliah University.**
3. Address of the Grantee Institution: Action area-III, New Town, Kol-160.
4. Category of Grantee Institution: Education Institution
5. Amount Sanctioned: 1005600 (in words Rs. Ten Lakh Five Thousand Six Hundred Only.)
6. Name of the DDO: Registrar & DDO, Higher Education Department
7. Department Code: ST-Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)
8. Name of the Treasury/PAO: Pay & Accounts Officer-III, PAO-III
9. Nature of Grant (a) Recurring or Non-recurring: Recurring
(b) Capital or Revenue: Revenue
10. Condition of Grant Utilisation Certificate required: Yes
11. Category of Grant : Education Institution
12. Purpose of Grant : R&D project entitled- **Study of coherent nonlinear resonances in Zeeman sublevels of hyperfine structure of Rb atoms using pump-probe laser spectroscopy: Theory and Experiment.**
13. An amount of Rs 1005600 is hereby allotted for this period in favour of the Registrar & DDO, Higher Education Department From the head of account 3425-60-200-SP-001-31-02-V from the budget provision of the financial year,2017 - 2018 under Demand No.70 Department Code ST and payable to Grantee Institution or by A/c payee cheque/By-Transfer Credit / ECS.
14. Head of Account Code :3425-60-200-SP-001-31-02-V
15. Name of the Scheme :Financial Assistance to other Scientific Bodies for undertaking Scientific Projects/Surveys/Research/Training and Science Awareness & Science Popularisation programme (State Share)
16. The amount will be drawn in T.R. from No.31/32/43 (As applicable as per WBTR)
17. The sanctioned amount will be payable to Aliah University. by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque / ECS as applicable.

18. Remarks: Present release is the 1st installment of the total project cost Rs. 15,64,400/- sanctioned for 3 year (s) work. Now Rs. 10,05,600/- will be transferred through e-Pradan system to Aliah University. A/C No.-3221020000120 (Current), IFSC CODE-BARB0GENSAL, Mobile No.-9433336243.

19. Total released amount is within the Budget Provision of the above mentioned head of account during 2017 - 2018

20. This order issues in exercise of the power delegated under Finance Department Memo. No. nullwith the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 287 F.A./Education Date 23/03/2018

Sd/-

OSD & E.O. DEPUTY SECRETARY

Higher Education, Science & Technology and Biotechnology(Sci. & Tech.)

Md. Mabud Hossain
(PI)

Jayant Kumar Saha
(G-PI)

Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Registrar & DDO, Higher Education Department
5. Pay & Accounts Officer-III, PAO-III
6. J.S. (Budget), Deptt. Of HE, S&T and BT.
7. PSO, Science & Technology.
8. Shri Soumyajit Mukherjee, SSO, Science & Technology.
9. Registrar, Aliah University, Action area-III, New Town, Kol-160.
10. Dr. Md. Mabud Hossain, P.I. of the project, Aliah University, Action area-III, New Town, Kol-160. (Strictly follow annexure-A). 11) Guard File.


OSD & E.O. DEPUTY SECRETARY

Md. Mabud Hossain
(P I)

Jayanta Kumar Saha
(G-PI)

Government of West Bengal
Department of Higher Education, Science & Technology and Biotechnology
"Vigyan Chetana Bhavan", Salt Lake,
DD 26/B, Sector-I,
Kolkata - 700064.

Annexure -A

File No.: ST/P/S&T/16G-26/2017

Name of the P.I. with Institute: Dr. Md. Mabud Hossain, P.I. of the project, Aliah University.

General Guideline must be followed by the P.I.:

1. The selection of JRF/SRF shall be made as per guidelines of this Deptt. (Science & Technology).
2. The remuneration to the JRF/SRF & project Asstt. Should be disbursed as per FD Memo No. 6261-F(Y) dt. 27.06.2011.
3. Follow FD Memo No. 5400-F(Y) dt. 25.06.2012 and Memo No. 3060-F(Y) dt. 11.06.2014 where applicable.
4. The UC along with the audited statement of expenditure should be obtained within prescribed time limit / before release of further installment of grant.
5. Follow the Budget break-up given below:

SUMMARY (in Rupees)

	Item of expenditure	1st year In rupees	2nd year In rupees	3rd year in rupees	Total in rupees
A	Non-recurring permanent equipment:				
	Workstation	140000	Nil	Nil	140000
	Arbitrary Function Generator	55000	Nil	Nil	55000
	Optical Photo Receiver (Photo Detector)	75000	Nil	Nil	75000
	Optics (Mirror, Lens, beam splitter, Cubic beam splitter, polarizer etc.)	150000	Nil	Nil	150000
	Opto-mechanics (post, post holder, mounting base, right angle clamp, Clamping forks, mounts for mirror, Lens and filters, Rotation mounts, 2-zxis stages etc)	150000	Nil	Nil	150000
	Scientific Camera (CMOS, NIR region) for fluorescence imaging	170000	Nil	Nil	170000
B	Recurring :				
	Remunerations / salaries of one Junior Research Fellow @ Rs. 18700 per month for 1st and 2nd year (Basic Rs. 16000/- + HRA Rs. 2400/- + M.A Rs. 300/-) @ Rs. 21000/- per month for 3rd year as Senior Research Fellow (Basic Rs. 18000/- + HRA Rs. 2700/- + M.A Rs. 300/-)	224400	224400	252000	700800
	consumable	10000	10000	10000	30000
	Travel	20000	20000	20000	60000
	Other Cost	10000	10000	10000	30000
	Contingencies @ 3% (excluding salary component and permanent equipment)	1200	1200	1200	3600
	Grand Total (A+B)	1005600	265600	293200	1564400



Officer on Special Duty

Md. Mabud Hossain
(P.I.)

Jayanta Kumar Saha
(Co-PI)

GOVERNMENT OF WEST BENGAL
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Memo No : 1901 (Sanc.)/ST/P/S&T/16G-26/2017

Date: 19/02/2020

Sanction Order for Grant-in-Aid in Cash

Demand No. : 76 Department Code : BS Financial Year : 2019 - 2020

1. Sanctioning Authority: Science & Technology and Biotechnology

2. Recipient of Grant: Aliah University.

3. Category of the recipient of Grant: Grantee Institution

4. Amount Sanctioned: Rs.221993/-

Rupees Two Lakh Twenty One Thousand Nine Hundred Ninety Three Only.

5. DDO Code :- CAFSTA003

6. DDO Designation: Sec. Officer, Science & Technology & Biotechnology Dept.

7. Department Code: BS-Science & Technology and Biotechnology

8. Head of Account Code :76-3425-60-200-011-31-02-V

9. Scheme Name : West Bengal State Council of Science & Technology

10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III

11. Type of Grant:- Recurring

12. Utilization Certificate Required or Not: Yes

13. Purpose of Grant : R&D project entitled- Study of coherent nonlinear resonances in Zeeman sublevels of hyperfine structure of Rb atoms using pump-probe laser spectroscopy: Theory and Experiment.

14. Applicable T.R Form No:- TR Form No.31

15. An amount of Rs.221993/- (Rupees Two Lakh Twenty One Thousand Nine Hundred Ninety Three Only.) is hereby sanctioned for payment of Grant to the recipients as per Sl.No.2 from the Head of Account as stated in Sl.No.8 above against the Budget Provision of the Financial Year 2019 - 2020. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECS/Cheque, as the case may be following the order issued by Finance Department in this regard.

16. Total released amount is within the Budget Provision of the Financial Year, 2019 - 2020

17. This order issues in exercise of the power delegated under Finance Department Memo. No. 1854-F.B. dated- 26.03.2019 & 550-F.B. dated-30.07.2019 with the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 191 - F.

18. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.

19. Remarks Present release Rs. 2,21,993/- is the 2nd installment of the total project cost Rs. 15,64,400/- sanctioned for 3 year (s) work. will be transferred through e-Pradan system to Aliah University. A/C No.-32210200000120 (Current), IFSC CODE-BARBOGENSAL, Mobile No.-9433336243.

Md. Mabud Hossain
(PI)

KW

Assistant Professor
Department of Physics
ALIAH UNIVERSITY
Kolkata

Sd/-
ASSISTANT SECRETARY


Jayanta Kumar Saha
(Co-PI)

Memo Date:19/02/2020

Memo No: 1901 (Sanc.)/ST/P/S&T/16G-26/2017

Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Sec. Officer, Science & Technology & Biotechnology Dept.
5. Pay & Accounts Officer-III, Calcutta PAO-III
6. PSO.
7. Shri Soumyajit Mukherjee, SSO.
8. Registrar, Aliah University, Action area-III, New Town, Kol-160.
9. Dr. Md. Mabud Hossain, P.I. of the project, Aliah University, Action area-III, New Town, Kol-160.
10. Guard File.


ASSISTANT SECRETARY

Md. Mabud Hossain
(PI)

Jayanta Kumar Saha
(Co-PI)

GOVERNMENT OF WEST BENGAL
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Memo No : 1225(Sanc.)/STBT-11012(26)/19/2019-ST SEC

Date: 28/02/2022

Sanction Order for Grant-in-Aid In Cash

Demand No. : 76 Department Code : BS Financial Year : 2021 - 2022

1. Sanctioning Authority: ASSISTANT SECRETARY, Science & Technology and Biotechnology

2. Recipient of Grant: Aliah University.

3. Category of the recipient of Grant: Grantee Institution

4. Amount Sanctioned: Rs.280541/-

Rupees Two Lakh Eighty Thousand Five Hundred Forty One Only.

5. DDO Code :- CAFSTA003

6. DDO Designation: Sec. Officer, Science & Technology & Biotechnology Dept.

7. Department Code: BS-Science & Technology and Biotechnology

8. Head of Account Code :76-3425-60-200-010-31-02-V

9. Scheme Name Financial Assistance to other Scientific Bodies for undertaking Scientific

10. Name of the Treasury/PAO & Accounts office: Pay & Accounts Officer-III, Calcutta PAO-III

11. Type of Grant:- Recurring

12. Utilization Certificate Required or Not: Yes

13. Purpose of Grant : R&D project entitled- Study of coherent nonlinear resonances in Zeeman sublevels of hyperfine structure of Rb atoms using pump-probe laser spectroscopy: Theory and Experiment.

14. Applicable T.R Form No:- TR Form No.31

15. An amount of Rs.280541/-(Rupees Two Lakh Eighty Thousand Five Hundred Forty One Only.) is hereby sanctioned for payment of Grant to the recipients as per Sl.No.2 from the Head of Account as stated in Sl.No.8 above against the Budget Provision of the Financial Year 2021 - 2022. The sanctioned amount will be payable through Transfer Credit into the LF/PL/Other Deposit Account/ECs/Cheque, as the case may be following the order issued by Finance Department in this regard.

16. Total released amount is within the Budget Provision of the Financial Year. 2021 - 2022

17. This order issues in exercise of the power delegated under Finance Department Memo. No. 250-FB Dt 30.07.2021 with the concurrence of Finance Deptt. vide Gr. F.A. Branch U.O. No. 250/FA Date 21/02/2022

18. The Principal Accountant General (A&E), West Bengal and Pay & Accounts Officer/Treasury Officer and other concerned are being informed.

19. Remarks: Present release Rs. 2,80,541/- is the 3rd & final installment of the total project cost of Rs. 15,64,400/- sanctioned for 3 year (s) work, will be transferred through e-Pradan system to Aliah University, A/C No.-3221020000120 (Current), IFSC CODE-BARB0GENSAL, Mobile No.-9433336243.

ASSISTANT SECRETARY

Science & Technology and Biotechnology

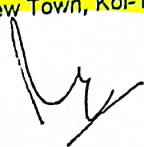
Md. Mabud Hossain
(PI)

Jayanta Kumar Saha
(Co-PI)

Gn
Fr

Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Sec. Officer, Science & Technology & Biotechnology Dept.
5. Pay & Accounts Officer-III, Calcutta PAO-III
6. PSO.
7. Shri Soumyajit Mukherjee, SSO.
8. Registrar, Aliah University, Action area-III, New Town, Kol-160.
9. Dr. Md. Mabud Hossain, P.I. of the project, Allah University, Action area-III, New Town, Kol-160.
10. Guard File. / Uploading this G.O. in the portal.


ASSISTANT SECRETARY

A.L: Fellowship SRF (1 Year) : 2,52,000/-

Md. Mabud Hossain
(PI)

Jayanta Kumar Saha
(Co-PI)



GOVERNMENT OF WEST BENGAL
Science & Technology and Biotechnology DEPARTMENT

Tel:

Fax:

Date: 14/03/2019

Memo No : 463(Sanc.)/ST/P/S&T/16G-5/2018

Sanction Order for Grant-in-Aid

Demand No. : 70 Department Code : BS Financial Year : 2018 - 2019

1. Sanctioning Authority: Science & Technology and Biotechnology
2. Name of the Grantee Institution: Aliah University.
3. Address of the Grantee Institution: IIA/27- Newtown, Kolkata - 7000156.
4. Category of Grantee Institution: Education Institution
5. Amount Sanctioned: 234400 (in words Rs. Two Lakh Thirty Four Thousand Four Hundred Only.)
6. Name of the DDO: Registrar, Science & Technology & Biotechnology Dept.
7. Department Code: BS-Science & Technology and Biotechnology
8. Name of the Treasury/PAO: Pay & Accounts Officer-III, PAO-III
9. Nature of Grant (a) Recurring or Non-recurring: Recurring
(b) Capital or Revenue: Revenue
10. Condition of Grant Utilisation Certificate required: Yes
11. Category of Grant : Education Institution
12. Purpose of Grant : Electronic and magnetic properties of low dimensional strongly correlated systems.
13. An amount of Rs 234400 is hereby allotted for this period in favour of the Registrar, Science & Technology & Biotechnology Dept. From the head of account 3425-60-200-00-010-31-02-V from the budget provision of the financial year, 2018 - 2019 under Demand No.70 Department Code BS and payable to Grantee Institution or by A/c payee cheque/By-Transfer Credit / ECS.
14. Head of Account Code :3425-60-200-00-010-31-02-V
15. Name of the Scheme :Financial Assistance to other Scientific Bodies for undertaking Scientific Projects/Surveys/Research/Training and Science Awareness & Science Popularisation programme
16. The amount will be drawn in T.R. from No.31.
17. The sanctioned amount will be payable to Aliah University. by Transfer Credit to the Head of Account of the LF/PL/Deposit Account of the Grantee Institution or by A/C payee Cheque / ECS as applicable.

18. Remarks: Present release Rs. 2,34,400/- is the 1st installment of the total project cost of Rs. 7,30,800/- sanctioned for 3 year (s) work, will be transferred through e-Pradan system to Aliah University, A/C No.-32210200000120 (Current), IFSC CODE-BARB0GENSAL, Mobile No. 9433167888/9804358829 (PI).

19. Total released amount is within the Budget Provision of the above mentioned head of account during 2018 - 2019

20. This order issues in exercise of the power delegated under Finance Department Memo. No. 1872-F.B dated-26.03.2018, 1269-F.B. dated-29.11.2018 & 1260-F.B dated-29.11.2018 with the concurrence of Finance Deptt. vide Gr. FD Group. U.O. No. 312 FA/Education. Date 08/03/2019

Sy.
ASSISTANT SECRETARY

Science & Technology and Biotechnology

05/10/2023

Copy forwarded for information and necessary action to:-

1. The Principal Accountant General (A&E), Treasury Buildings, Kolkata-700001
2. The Principal Accountant General (Audit), Treasury Buildings, Kolkata-700001
3. The Principal Accountant General (Receipt, Works & Local Bodies Audit), CGO Complex at Salt Lake, Kolkata-700091
4. Registrar, Science & Technology & Biotechnology Dept.
5. Pay & Accounts Officer-III, PAO-III
6. PSO.
7. Dr. Soumyajit Mukherjee, SSO.
8. Finance Officer, Aliah University, IIA/27- Newtown, Kolkata - 7000156.
- ✓ 9. Dr. Badiur Rahaman, P.I. of the Project, Aliah University, IIA/27- Newtown, Kolkata - 7000156. (Strictly follow annexure-A).
10. Guard File.


ASSISTANT SECRETARY

FILE NO. CRG/2022/003547
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 10 March, 2023

ORDER

Subject: Financial Sanction of the research project titled **Structural, Quantum Entanglement and Quantum Information Theoretic Measures on Confined Few-body Atomic and Molecular Systems** under the guidance of Dr. Jayanta Kumar Saha, Physics, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2566545/- (Rs. Twenty Five Lakh Sixty Six Thousand Five Hundred and Forty Five Only) with break-up of Rs. 499863/- under Capital (Non-recurring) head and Rs. 2066682/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2566545/- has been approved are given below

The following budget may be considered for Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> High performance Computer Server with client and accessories	499863
A'	<i>Total (Non-Recurring)</i>	499863
B	Recurring Items	
1	Recurring - I : (Research Personnel) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1443360 370000 20000
2	Recurring - IV : (Overhead Charges)	233322
B'	<i>Total (Recurring)</i>	2066682
C	Total cost of the project (A' + B')	2566545

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

3. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

4. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

5. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

6. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

8. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited

Jayanta Kumar Saha

statement of accounts pertaining to the grant immediately after the end of each financial year.

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

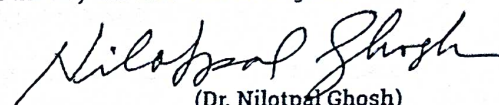
10. The research personnel sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project

11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

12. The project File no. CRG/2022/003547 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.

14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.



(Dr. Nilotpal Ghosh)

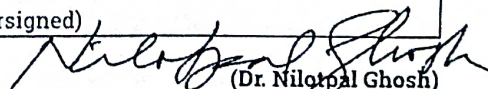
MS

nilotpal@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Jayanta Kumar Saha Physics Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: jsaha84@gmail.com Mobile: 919434355907 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	Registrar, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Nilotpal Ghosh)

MS

nilotpal@serb.gov.in

Jayanta Kumar Saha

FILE NO. CRG/2022/003547-C
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

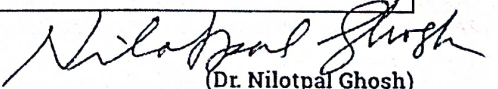
Dated: 10 March, 2023

ORDER

Subject: Research project entitled **Structural, Quantum Entanglement and Quantum Information Theoretic Measures on Confined Few-body Atomic and Molecular Systems** under the guidance of Dr. Jayanta Kumar Saha, Physics, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071.

1. In continuation of SERB's sanction order No. CRG/2022/003547 dated 10 March, 2023, sanction of the competent authority is hereby accorded to the **payment of a sum of Rs. 499863/-** under 'Grants-in-aid Capital' to Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 being the grant for the financial year 2022-2023 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 10 March, 2023.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics)**) (Capital).
5. The Sanction has been issued with the approval of the competent authority on **10 March, 2023** and vide Diary No. SERB/F/11388/2022-2023 dated **10 March, 2023**.
6. The release amount of **Rs. 499863/-** (Rupees Four Lakh Ninety Nine Thousand Eight Hundred and Sixty Three only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	aliah
Account Name	Aliah University DST
Account Number	32210100006641
Bank Name & Branch	Bank of Baroda Branch name: GENNEXT Complete Branch Address: DN14, Sector V, Saltlake, Kolkata 700091
IFSC/RTGS Code	BARB0GENSAL
Email id of A/C Holder	foaliah18@gmail.com
Email id of PI	jsaha84@gmail.com


(Dr. Nilotpal Ghosh)
MS
nilotpal@serb.gov.in

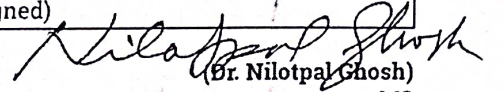
To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy

Jayanta Kumar Saha

4.	<p>Dr. Jayanta Kumar Saha Physics Aliah University , Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: jsaha84@gmail.com Mobile: 919434355907 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>Registrar, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Nilotpal Ghosh)
MS
nilotpal@serb.gov.in

Jayanta Kumar Saha

FILE NO. CRG/2022/003547-G
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 10 March, 2023

ORDER

Subject: Research project entitled **Structural, Quantum Entanglement and Quantum Information Theoretic Measures on Confined Few-body Atomic and Molecular Systems** under the guidance of Dr. Jayanta Kumar Saha, Physics, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071.

1. In continuation of SERB's sanction order No. CRG/2022/003547 dated 10 March, 2023, sanction of the competent authority is hereby accorded to the **payment of a sum of Rs.100000/- under 'Grants-in-aid General'** to Aliah University, Dd45, 2nd Ave, Dd Block, Salt Lake City, Kolkata, West Bengal-700071 being the grant for the financial year 2022-2023 for implementation of the above said project.

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 10 March, 2023.

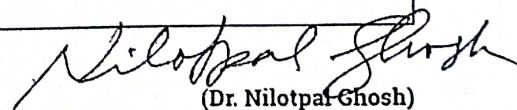
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.

4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant (**PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics)**) (General).

5. The Sanction has been issued with the approval of the competent authority on **10 March, 2023** and vide Diary No. SERB/F/11389/2022-2023 dated **10 March, 2023**.

6. The release amount of Rs. **100000/-** (Rupees One Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	aliah
Account Name	Aliah University DST
Account Number	32210100006641
Bank Name & Branch	Bank of India Branch name: GENNEXT Complete Branch Address: DND Sector V, Saltlake, Kolkata 700091
IFSC/RTGS Code	BARB0GENSAL
Email id of A/C Holder	foaliah18@gmail.com
Email id of PI	jsaha84@gmail.com



(Dr. Nilotpal Ghosh)

MS

nilotpal@serb.gov.in

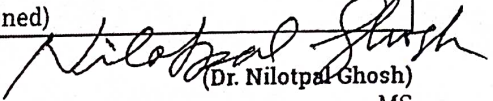
To,
Under Secretary
SERB, New Delhi

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Jayanta Kumar Saha

4.	<p>Dr. Jayanta Kumar Saha Physics Aliah University , Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071 Email: jsaha84@gmail.com Mobile: 919434355907 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>Registrar, Aliah University, DD45, 2nd Ave, DD Block, Salt Lake City (Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Nilotpal Ghosh)
MS
nilotpal@serb.gov.in

Jayanta Kumar Saha

FILE NO. CRG/2022/003547
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(a statutory body of the Department of Science & Technology, government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 21-Jun-2023

ORDER

Subject: Research project entitled "Structural, Quantum Entanglement and Quantum Information Theoretic Measures on Confined Few-body Atomic and Molecular Systems" under the guidance of Dr. Jayanta Kumar Saha, Physics, Aliah University, Dd45, 2nd ave, dd block, salt lake city, Kolkata, West bengal-700071.

1. This is in continuation of SERB's sanction order No. "CRG/2022/003547" dated "10 March, 2023" of Science and Engineering Research Board (SERB).
2. Sanction of the competent authority is hereby accorded to the payment of a sum of Rs. 550000/- (Rupees Five Lakh Fifty Thousand only) under 'Grants-in-aid General' to Registrar, Aliah University, NewTown being the 2nd grant for the financial year 2023-2024 for implementation of the above said project.
3. Sanction of the competent authority is also accorded to the carry forward of unspent balance of Rs. 555730/- (Rupees Five Lakh Fifty Five Thousand Seven Hundred and Thirty only) (Recurring Rs. 55867 and Non-Recurring Rs. 499863) to Aliah University, NewTown from FY 2022-2023 to FY 2023-2024 for the same purpose for which it was sanctioned.
4. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in).
5. It is certified that provision of GFR 212 relating to Utilization Certificates (Ucs) for the funds released under the grant have been satisfied and the UC/s is/are enclosed herewith.
6. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant. (PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics-Astronomy & Astrophysics and Nonlinear dynamics))
7. The Sanction has been issued to Aliah University, NewTown with the approval of the competent authority under delegated powers on 19 June, 2023 and vide Diary No. SERB/F/2794/2023-2024 dated 21 June, 2023
8. The release amount of Rs. 550000/- (Rupees Five Lakh Fifty Thousand only) (Recurring Rs. 550000 and Non-Recurring Rs. 0) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	aliah
Account Name	Aliah University DST
Account Number	32210100006641
Bank Name & Branch	Bank of Baroda Branch name: GENNEXT Complete Branch Address: DN14, Sector V, Saltlake, Kolkata 700091
IFSC/RTGS Code	BARB0GENSAL
Email id of A/C Holder	foaliah18@gmail.com
Email id of PI	jsaha84@gmail.com

9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.
10. As per rule 211 of GFR the accounts of Grantee Institution shall be open to inspection by the sanctioning authority / audit whenever the institute is called upon to do so.

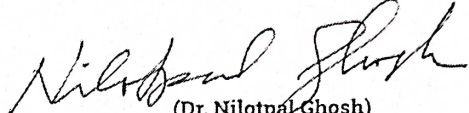
Jayanta Kumar Saha

11. The institute will furnish to the SERB, Utilization certificate(separate for Recurring & Non-Recurring) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. After completion of the project unspent balance if any should be returned as Demand Draft drawn in favour of "Fund for Science and Engineering Research" payable at New Delhi.

13. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

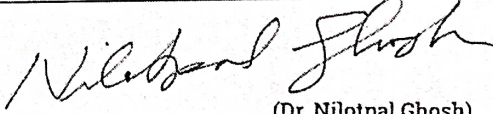
14. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. Nilotpal Ghosh)
MS
nilotpal@serb.gov.in

To,
Under Secretary
SERB, New Delhi

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5.	Registrar, Aliah University, NewTown


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MS
nilotpal@serb.gov.in

Jayanta Kumar Saha