



GOVERNMENT GIRLS' GENERAL DEGREE COLLEGE

7, Mayurbhanj Road, Kolkata - 700023 Telephone No.: 033-2448-1160, 033-2448-1171

E-mail: gggdc.coll@gmail.com Website: www.govtgirlsekbalpur.com

Ref. No.:	Date :
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Criteria 3- Research, Innovations and Extension

3.1- Resource Mobilization for Research

3.1.1. Grants received from Government and nongovernmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs)

Name of the Principal Investigator/Co-investigator: Dr. Soma Mandal

Department of Principal Investigator: PHYSICS

Total Grant received: Rs. 26.3136 Lakh

Name of the research project/ endowment	Year of Award	Amount Sanctioned (in Lakh)	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)
Broadband spectral- timing studies of X-ray binaries using AstroSat and NICER	2019- 2020	Rs. 6.38	3 Years	SERB, Govt. of India	Government
Study of X-ray timing properties of neutron star low mass X-ray binaries	2021- 2022	Rs. 19.9336	3 Years	Dept. of Space Govt. of India, ISRO	Government

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3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs): 26.31 Lakhs

Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator		Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)
Broadband spectral-timing studies of X-ray binaries using AstroSat and NICER	Dr. Soma <mark>M</mark> andal	PHYSICS	2019- 2020	Rs. 638000	3 YEAR	SERB Govt. of India	GOVERNMENT
Study of X-ray timing properties of neutron star low mass X-ray binaries	Dr. Soma Mandal	PHYSICS	2020- 2021	Rs. 1993360	3 YEAR	Dept. of Space Govt. of India, ISRO	GOVERNMENT

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FILE NO. CRG/2019/001112

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

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

5 & 5A, Lower Ground Floor Vasant Square Mall Plot No. A, Community Centre Sector-B, Pocket-5, Vasant Kunj New Delhi-110070

Dated: 20-Dec-2019

Subject: Financial Sanction of the research project titled "Broadband spectral-timing studies of X-ray binaries using AstroSat and NICER" under the guidance of Dr. Soma Mandal, Physics, Government Girls' General Degree College, 7, mayurbhange road, kolkata, Kolkata, West bengal-700023 and by Prof. Ranjeev Misra, Professor, Astrophysics, Inter-University Centre For Astronomy And Astrophysics(IUCAA) - 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. 638000/- (Rs. Six Lakh Thirty Eight Thousand Only) with break-up of Rs. 200000/- under Capital (Non-recurring) head and Rs. 438000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 638000/- has been approved are given

S. No	Head	
Α	Non-recurring	Total (in Rs.)
1	Equipment -> Mobile workstation and Laptop	200000
A'	Total (Non-Recurring)	
В	Recurring Items	200000
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	320000
2	Recurring - IV : (Overhead Charges)	60000
3'	Total (Recurring)	58000
	Total cost of the project (A' + B')	438000
	1-1-1-1	638000

- 2. Sanction of the SERB is also accorded to the payment of Rs. 200000/- (Rupees Two Lakh only) under 'Grants for creation of capital assets' and Rs. 186000/- (Rupees One Lakh Eighty Six Thousand only) under 'Grants-inaid General' to OFFICER-IN-CHARGE AND ASSOCIATE PROFESSOR, Government Girls' General Degree College, 7, Mayurbhange Road, Kolkata being the first installment of the grant for the year 2019-2020 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 Core Research Grant. (PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics))
- 4. The Sanction has been issued to Government Girls' General Degree College, 7, Mayurbhange Road, Kolkata with the approval of the competent authority under delegated powers on 20 December, 2019 and vide Diary No. SERB/F/7941/2019-2020 dated 20 December, 2019
- 5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website
- 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. 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.
- 8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activites enlisted under SSR norms and under no circumstances it can be reappropriated.
- 9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit
- 10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with
- 11. The release amount of Rs. 386000/- (Rupees Three Lakh Eighty Six 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

PFMS Unique Code	Self registration disabled.
Account Name	GGGDC EKBALPUR KOLKATA 23 SERB DST PROJECT
Account Number	0254101021433
Bank Name & Branch	CANARA Bank Kolkata Alipore Canara Bank, 10/1 E Diamond Harbour Road, Kolkata West Bengal 700 027
IFSC/RTGS Code	CNRB0000254
Email id of A/C Holder	syedaalquadri@gmail.com
Email id of PI	soma@iucaa.ernet.in

- 12.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.
- 13. 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.
- 14. The project File no. CRG/2019/001112 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.
- 15. The manpower 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
- 16. As this is the first grant being released for the project, no previous U/C is required.
- 17. 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.
- 18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

19. 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.

(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. Soma Mandal Physics Government Girls' General Degree College , 7, mayurbhange road, kolkata, Kolkata, West bengal-700023 Email: soma@iucaa.ernet.in Mobile: 919836078964 Prof. Ranjeev Misra Astrophysics Inter-University Centre For Astronomy And Astrophysics(IUCAA) (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.	OFFICER-IN-CHARGE AND ASSOCIATE PROFESSOR, Government Girls' General Degree College, 7, Mayurbhange Road, Kolkata (Receipt of Grant may be intimated by name to the undersigned)

Miles Pal Shoph (Dr. Nilotpal Ghosh) MS

nilotpal@serb.gov.in

No.DS_2B-13013(2)/10/2020-Sec.2 भारत सरकार/Government of India अंतरिक्ष विभाग/Department of Space

> Antariksh Bhavan, New BEL Road, Bengaluru - 560 094.

> > January 19, 2021

Principal, Government Girl's General Degree College, 7, Mayurbhanj Road, Kolkata – 700 023, West Bengal.

Sir.

Sub: Grant-in-aid - Space Science Promotion - Release of grant for the new project titled "Study of X-ray timing properties of neutron star low mass X-ray binaries (nebulous, speculative and sketchy proposal" - First Quarter Grant - reg.

I am directed to convey the sanction of the President to a grant of ₹7,11,280/- (Rupees Seven lakh eleven thousand two hundred and eighty only) to meet the expenditure towards the new project entitled "Study of X-ray timing properties of neutron star low mass X-ray binaries (nebulous, speculative and sketchy proposal" (total project cost is ₹19,93,360/- for a period of three years) by Government Girl's General Degree College, Kolkata during first year of the project and also for release of ₹1,77,820/- towards expenditure for the first quarter.

- 2. The amount of ₹1,77,820/- (Rupees One lakh seventy seven thousand eight hundred and twenty only) will be paid to you by the Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560 094 on receipt of the bill.
- 3. The grant-in-aid sanctioned shall be subject to the terms and conditions mentioned in the Annexure enclosed.
- 4. A separate account for the grant-in-aid sanctioned will have to be maintained which are subject to scrutiny by the Indian Audit and Accounts Department who will also have the right of access to the Book of Accounts.
- 5. Accounts of expenses incurred out of grant should be prepared, maintained and authenticated by approved auditors. The final accounts statement in duplicate duly audited along with Utilisation Certificate in GFR 12A format (GFR 2017) should be sent to the Pay & Accounts Officer, Department of Space, Bengaluru 560 094 at the end of each financial year of support.

- 6. The future installment of sanctioned grant/release of new grant-in-aid shall be subject to mandatory usage of Expenditure, Advance and Transfer (EAT) module in PFMS portal. An e-Utilisation Certificate shall be submitted in GFR 12A format (GFR 2017) through PFMS- EAT module.
- 7. The interest earned from grants released, if any, should be returned to Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560 094 in the form of Demand Draft at the end of each financial year of support.

8. The expenditure involved is debitable to the Head "3402.00.103.20.00.31 - Space Research-Space Sciences-Space Science Promotion-GIA-General" Under Grant No.94, "Department of Space' for the FY 2020-21.

Yours faithfully,

(पूर्णिमा मनोज/Poornima Manoj) (वरिष्ठ लेखा अधिकारी/Sr.Accounts Officer)

Copy for information and necessary action to:

- The Scientific Secretary, ISRO, Bengaluru
- 2. The Director, SSPO, ISRO Hq., Bengaluru
- 3. The Director General of Audit, Environment & Scientific Departments, AGCR Building, IP Estate, New Delhi 110 002.
- 4. The Director, Office of the Director General of Audit, Environment & Scientific Departments, Antariksh Bhavan, New BEL Road, Bengaluru 560 094
- 5. Chief Controller of Accounts, DOS
- 6. Senior Accounts Officer, ISRO Hq., Bengaluru
- 7. The Pay & Accounts Officer, Department of Space, Bengaluru With a request to make the payment of ₹1,77,820/- (Rupees One lakh seventy seven thousand eight hundred and twenty only) in favour of "Principal, Government Girl's General Degree College, Kolkata" on receipt of the bill
- 8. The Senior Head (Internal Audit), DOS, Bengaluru
- 9. Shri V Girish, Programme Manager, SSPO, ISRO Hq., Bengaluru

 Dr.Soma Mandal, Assistant Professor, Government Girl's General Degree College, 7, Mayurbhanj Road, Kolkata – 700 023, West Bengal.

> (पूर्णिमा मनोज/Poornima Manoj) (वरिष्ठ लेखा अधिकारी/Sr.Accounts Officer)

Terms and Conditions of ISRO Research Grants

- I. The approved funds should be utilized solely for the purpose for which they have been granted unless ISRO agrees otherwise. A Certification that the funds have been so used should be produced by the grantee Institution after the end of each year of the support.
- 2. Due acknowledgement to ISRO should be made in all reports and publications arising out of the part of the work supported by ISRO. The grantee will take prior permission of ISRO before publishing any work based on the ISRO supported project.
- 3. Two copies of all the publications resulting from the research conducted with the aid of the grant should be submitted to ISRO.
- 4. Any intellectual property rights or such information/knowledge being able to sustain or create or any such right arising out of the projects sponsored by ISRO will be held jointly by the Academic Institution/R & D institution and ISRO as per RESPOND norms. Academic Institute/R & D institution and ISRO shall inform each other before filing for any protection of any Intellectual Property Rights resulting from any of the project sponsored by ISRO. Academic institute/R & D institution and ISRO will ensure appropriate protection of Intellectual Property Rights generated from cooperation, consistent with laws, rules and regulations of India. The expenses for filling the Patent protection in India and abroad shall be borne equally between Institute and ISRO. Any/all financial accruals due to any commercial exploitation, of this patent shall be shared equally between them, on 50:50 basis. However any of the parties is free to utilize the IPR for their own use on non commercial basis.
- 5. The principal Investigator is required to submit two copies of yearly reports indicating the progress of the work accomplished. He is also required to submit two copies of a detailed technical report on the results of the research/development after the completion of the project. The reports will become the property of ISRO.
- 6. In addition, ISRO may designate Scientists/specialists to visit the Institution periodically for reviewing the progress of the work.
- 7. An inventory of items purchased from ISRO funds should be sent to ISRO, giving the description of equipment, cost in rupees, date of purchase and name of the supplier along with a purchase certificate from the Administration of the Institution. All items of equipments and unconsumable items costing more than Rs. 5,000/- shall remain the property of ISRO and ISRO reserves the right to transfer them or dispose of them on the termination of the project as ISRO may deem fit.
- 8. The accounts of the expenses incurred out of ISRO funds should be properly maintained and should be authenticated by an approved auditor. The final accounts statement in duplicate duly audit should be sent to the pay & Accounts Officer, DOS/Senior Accounts Officer, ISRO Headquarters, as the case may be, at the end of each financial year of support.
- 9. If the total amount sanctioned is not spent during the period of support, the remainder amount should be surrendered to the Pay & Accounts Officer, ISRO Headquarters, as the case may be, within one month after the completion of the project.
- 10. The assets acquired wholly or substantially out of the ISRO grant should not, without its prior sanction, be disposed off, encumbered or utilized for purposes other than that for which the grant is sanctioned.
- 11. A register of assets permanent and semi-permanent should be maintained by the grantee Institution, which should be available for scrutiny by Audit.

- 12. The grantee institution should not divert the grants-in-aid for utilization of the same for similar objects of another institution if it is not in a position to execute or complete the assignment. The entire amount of the grant should then be immediately refunded to ISRO by the institution.
- 13. The terms and condition of ISRO research grants are subject to change from time to time, but the funding of any project will be governed by the terms and conditions existing on the date of starting of the project with ISRO funds.