

FILE NO. SUR/2022/005672-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: 20 September, 2023

**ORDER**

Subject: Research project entitled **RuO<sub>2</sub>/Li<sub>x</sub> Cuy Mn(1-x-y) Fe<sub>2</sub>O<sub>3</sub> nanocomposites for highly efficient hybrid supercapacitors** under the guidance of Dr. Pranav P Naik, School of Physical and Applied Sciences, Goa University, Taleigao, North Goa, Goa-403206.

1. In continuation of SERB's sanction order No. SUR/2022/005672 dated 20 September, 2023, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 618540/-** under 'Grants-in-aid General' to Goa University, Taleigao, North Goa, Goa-403206 being the grant for the financial year 2023-2024 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](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 20 September, 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 **State University Research Excellence (SERB SURE) (General) (PAC SERB SURE)**.
5. The Sanction has been issued with the approval of the competent authority on **22 August, 2023** and vide Diary No. **SERB/F/5467/2023-2024** dated **31 August, 2023..**
6. The release amount of **Rs. 618540/-** (Rupees Six Lakh Eighteen Thousand Five Hundred and Forty 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	UNIGOA
Account Name	Goa University
Account Number	10664493609
Bank Name & Branch	STATE BANK OF INDIA STATE BANK OF INDIA UNIVERSITY BRANCH GOA UNIVERSITY COMPLEXTALEIGAO PLATEAU403206
IFSC/RTGS Code	SBIN0004311
Email id of A/C Holder	registrar@unigoa.ac.in
Email id of PI	pranav.naik@unigoa.ac.in

*Ramesh*

(Dr. V Ramesh)

ms\_pac\_sure@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.	<b>Dr. Pranav P Naik</b> <b>School of Physical and Applied Sciences</b> <b>Goa University , Taleigao, North goa, Goa-403206</b> <b>Email: pranav.naik@unigoa.ac.in</b> <b>Mobile: 919673175648</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	<b>Registrar, Goa University,</b> <b>Goa University, Taleigao</b> (Receipt of Grant may be intimated by name to the undersigned)

(Dr. V Ramesh)  
 ms\_pac\_sure@serbonline.in



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**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: 20 September, 2023

**ORDER**

Subject: Financial Sanction of the research project titled  **$\text{RuO}_2/\text{Li}_x\text{Cu}_y\text{Mn}(1-x-y)\text{Fe}_2\text{O}_4$  nanocomposites for highly efficient hybrid supercapacitors** under the guidance of Dr. Pranav P Naik, School of Physical and Applied Sciences, Goa University, Taleigao, North goa, Goa-403206 - 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. 2953810/-** (Rs. Twenty Nine Lakh Fifty Three Thousand Eight Hundred and Ten Only) with break-up of **Rs. 1098170/- under Capital (Non-recurring) head** and **Rs. 1855640/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2953810/-** has been approved are given below:

The following budget may be considered for **Goa University, Taleigao**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Tube Furnace	1098170
A'	Total (Non-Recurring)	<b>1098170</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Research Personnel -> Junior Research Fellow) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 330000 0
2	Recurring - IV : (Overhead Charges)	268520
B'	Total (Recurring)	<b>1855640</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>2953810</b>

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ( [www.serb.gov.in](http://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. 90,000 each should be spent for travel and contingency.

5. 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.

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

7. 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.



8. 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.

9. 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

10. 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.

11. The project File no. SUR/2022/005672 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. 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.

12. 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. V Ramesh)

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To,  
Under Secretary  
SERB, New Delhi

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4.	<b>Dr. Pranav P Naik</b> <b>School of Physical and Applied Sciences</b> <b>Goa University , Taleigao, North goa, Goa-403206</b> <b>Email: pranav.naik@unigoa.ac.in</b> <b>Mobile: 919673175648</b> (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	<b>Registrar, Goa University,</b> <b>Goa University, Taleigao</b> (Receipt of Grant may be intimated by name to the undersigned)



(Dr. V Ramesh)

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FILE NO. SUR/2022/005672-C  
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**ORDER**

Subject: Research project entitled **RuO<sub>2</sub>/Lix Cuy Mn(1-x-y) Fe<sub>2</sub>O<sub>4</sub> nanocomposites for highly efficient hybrid supercapacitors** under the guidance of Dr. Pranav P Naik, School of Physical and Applied Sciences, Goa University, Taleigao, North Goa, Goa-403206.

1. In continuation of SERB's sanction order No. SUR/2022/005672 dated 20 September, 2023, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs.1098170/-** under 'Grants-in-aid Capital' to Goa University, Taleigao, North Goa, Goa-403206 being the grant for the financial year 2023-2024 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](http://www.serb.gov.in)) and as mentioned in the sanction order of even number dated 20 September, 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 debitable to Fund for Science & Engineering Research (FSER) This release is being made under **State University Research Excellence (SERB SURE) (Capital) (PAC SERB SURE)**.
5. The Sanction has been issued with the approval of the competent authority on **22 August, 2023** and vide Diary No. **SERB/F/5466/2023-2024** dated **31 August, 2023**.
6. The release amount of **Rs. 1098170/-** (Rupees Ten Lakh Ninety Eight Thousand One Hundred and Seventy 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	UNIGOA
Account Name	Goa University
Account Number	10664493609
Bank Name & Branch	STATE BANK OF INDIA STATE BANK OF INDIA UNIVERSITY BRANCH GOA UNIVERSITY COMPLEX TALEIGAO PLATEAU 403206
IFSC/RTGS Code	SBIN0004311
Email id of A/C Holder	registrar@unigoa.ac.in
Email id of PI	pranav.naik@unigoa.ac.in

  
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