

FILE NO. ECR/2016/000532

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: 05-Dec-2016

ORDER

Subject: Financial Sanction of the research project titled "Solid-state NMR and computational study to probe the structural, defects and ion conduction mechanistic features in anti-perovskite based electrolyte materials" under the guidance of Dr. Bholanath Pahari, Physics, Goa University, Taleigao, North Goa, Goa-403208 - 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. 2827240/- (Rs. Twenty Eight Lakh Twenty Seven Thousand Two Hundred and Forty Only) with break-up of Rs. 1184240/- under Capital (Non-recurring) head and Rs. 1643000/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 2827240/- has been approved are given below:

The following budget may be considered for Goa University, Taleigao

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Glove box -> Micro balance -> Turbo pump	1184240
A'	Total (Non-Recurring)	1184240
B	Recurring Items	
1	Recurring - A : (Manpower, Consumables, Travel, Contingencies)	1386000
2	Recurring - B : (Overhead Charges)	257000
B'	Total (Recurring)	1643000
C	Total cost of the project (A' + B')	2827240

- Sanction of the SERB is also accorded to the payment of Rs. 1184240/- (Rupees Eleven Lakh Eighty Four Thousand Two Hundred and Forty only) under 'Grants for creation of capital assets' and Rs. 547670/- (Rupees Five Lakh Forty Seven Thousand Six Hundred and Seventy only) under 'Grants-in-aid General' to The Registrar, Goa University, Taleigao being the first installment of the grant for the year 2016-2017 for implementation of the said research project.
- The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)
This release is being made under Early Career Research Award. (EC Physical & Mathematical Sciences)
- The Sanction has been issued to Goa University, Taleigao with the approval of the competent authority under delegated powers on 28 November, 2016 and vide Diary No. SERB/F/6232/2016-17 dated 30 November, 2016
- 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.

UC for Non-Recurring Grants

UTILISATION CERTIFICATE
FOR THE FINANCIAL YEAR-(ENDING 31 ST MARCH) Year- 2019-2020
 (To be given separately for each financial year ending on 31st March)

U.C. Pertains to

<input checked="" type="checkbox"/> First Release	<input checked="" type="checkbox"/> Second Release	<input checked="" type="checkbox"/> Third Release	<input checked="" type="checkbox"/> Fourth Release	Final Release
--	---	--	---	----------------------

Is the UC provisional

: YES/NO

1. Title of the Project/ Scheme : Solid state NMR and computational study to probe the structural, defects and ion conduction mechanistic features in anti-perovskite based electrolyte materials
2. Name of Principal Investigator : Dr. Bholanath Pahari
3. Implementing Institution : Physics Department, Goa University
4. SERB sanction order No & date : ECR/2016/000532, 05-Dec-2016
5. Amount brought forward from the previous financial year quoting SERB letter number and date in which the authority to forward the said amount was given : Amount Rs. 38,709.04/-
: Letter/Order No ECR/2016/000532
: Date 05-03-2018
- 6.a. Amount received during the financial year (Please give SERB Letter/order no and date for the amount) : Amount NIL
: Letter/Order No.
: Date
- 6.b. Interest earned, if any : Nil
7. Total Amount that was available For expenditure Rs. (Excluding Commitments) incurred during the financial year (upto 31st March) : Rs. 38,709.04/-
8. Actual Expenditure (excluding commitments) Incurred during the financial year (upto 31st Mar) : Rs. 38,000
9. Balance amount available at the end of the Financial year (8-9): OR/Negative balance (If expenditure incurred is more than the funds released) : Rs. 709.04/-
10. Unspent Balance, If any, refunded to SERB (Give details of Cheque/DD No. etc.) : Rs. 709.04/-
11. Amount to be carried forward to the next Financial year (If any) : nil


UTILIZATION CERTIFICATE

Certified that out of Rs. NIL of Non-Recurring grants-in-aid sanctioned during the year 2019-2020 and Rs 38,709.04/- on account of unspent balance of the previous year, a sum of Rs 38,000/- has been utilized for the purpose for which it was sanctioned and that the balance of Rs 709.04/- remaining unutilized at the end of the year will be sent back

Certified that we have satisfied ourselves that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are being fulfilled and that we have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

- 1.
- 2.



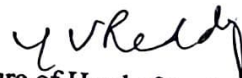
Signature of PI

Date 19/06/2020



Signature of Registrar/Account officer

Date



Signature of Head of Institution

Date

Registrar

Goa University
Taleigao Plateau,
Goa - 403 206

Guidelines for preparation of U.C.

1. U.C. should be only for the grants released by the SERB. Please do not account for Security deposits/other matching grants/account opening charges and miscellaneous items.
2. SERB sanction No. and Dt should be accurately shown in the U.C.
3. Even if the grants is utilized in the financial year in which the grants was released by SERB a NIL U.C. needs to be forwarded to SERB along with a request for carrying forward the grant to the next financial year. Such grants which are carried forward must be shown in the subsequent U.C. as carried forward grant and not amount received in the subsequent year (ref S1 No.5 on pre-page)

UC has been accepted by

Science and Engineering Research Board

Signature _____

Name of the SERB Officer _____

Designation _____

UTILISATION CERTIFICATE
FOR THE FINANCIAL YEAR-(ENDING 31 ST MARCH) Year- 2019-2020
 (To be given separately for each financial year ending on 31st March)

U.C. Pertains to

√ First Release	√ Second Release	√ Third Release	√ Fourth Release	Final Release
--------------------	---------------------	--------------------	---------------------	------------------

Is the UC provisional

: YES/NO

1. Title of the Project/ Scheme : Solid state NMR and computational study to probe the structural, defects and ion conduction mechanistic features in anti-perovskite based electrolyte materials
2. Name of Principal Investigator : Dr. Bholanath Pahari
3. Implementing Institution : Physics Department, Goa University
4. SERB sanction order No & date : ECR/2016/000532, 05-Dec-2016
5. Amount brought forward from the previous financial year quoting SERB letter number and date in which the authority to forward the said amount was given : Amount Rs. 78,771/-
: Letter/Order No ECR/2016/000532
: Date 05-03-2018
- 6.a. Amount received during the financial year (Please give SERB Letter/order no and date for the amount) : Amount Rs. 4,50,000/-
: Letter/Order No. ECR/2016/000532
: Date 02-07-2019
- 6.b. Interest earned, if any : NIL
7. Total Amount that was available For expenditure Rs. (Excluding Commitments) incurred during the financial year (upto 31st March) : Rs. 5,28,771/-
8. Actual Expenditure (excluding commitments) Incurred during the financial year (upto 31st Mar) : Rs. 5,26,421/-
9. Balance amount available at the end of the Financial year (8-9): OR/Negative balance (If expenditure incurred is more than the funds released) : Rs. 2350/-
10. Unspent Balance, If any, refunded to SERB (Give details of Cheque/DD No. etc.) : Rs. 2350/-
11. Amount to be carried forward to the next Financial year (If any) : nil


UTILIZATION CERTIFICATE

Certified that out of Rs. 4,50,000/- of Recurring grants-in-aid sanctioned during the year 2019-2020 in favour of **The Registrar, Goa University** under SERB letter/order No **ECR/2016/000532** dated **02/07/2019** and Rs 78,771/- on account of unspent balance of the previous year, a sum of Rs 5,26,421/- has been utilized for the purpose for which it was sanctioned and that the balance of Rs 2350/- remaining unutilized at the end of the year will be sent back.

Certified that we have satisfied ourselves that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are being fulfilled and that we have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.


Kinds of checks exercised

- 1.
- 2.

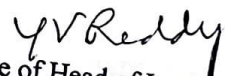


Signature of PI

Date 19/06/2020



Signature of Registrar/Account officer
Date



Signature of Head of Institution
Date

Registrar
Goa University
Taleigao Plateau,
Goa - 403 206

Guidelines for preparation of U.C.

1. U.C. should be only for the grants released by the SERB. Please do not account for Security deposits/other matching grants/account opening charges and miscellaneous items.
2. SERB sanction No. and Dt should be accurately shown in the U.C.
3. Even if the grants is utilized in the financial year in which the grants was released by SERB a NIL U.C. needs to be forwarded to SERB along with a request for carrying forward the grant to the next financial year. Such grants which are carried forward must be shown in the subsequent U.C. as carried forward grant and not amount received in the subsequent year (ref S1 No.5 on pre-page)

UC has been accepted by

Science and Engineering Research Board

Signature _____
Name of the SERB Officer _____
Designation _____