FILE NO. ECR/2016/000531

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: 02-Jul-2019

ORDER

Subject: Research project entitled "Optical manipulation and trapping single gold shell encapsulated semiconductor quantum dots and application towards bioimaging" under the guidance of Dr. Sudhir Cherukulappurath, Physics, Goa University, Taleigao, North Goa, Goa-403208.

- 1. This is in continuation of SERB's sanction order No. "ECR/2016/000531" dated "14 December, 2016" of Science and Engineering Research Board (SERB).
- 2. Sanction of the competent authority is hereby accorded to the payment of a sum of Rs. 570000/-(Rupees Five Lakh Seventy Thousand only) under 'Grants-in-aid General' to The Registrar, Goa University, Goa University, Taleigao being the 4th grant for the financial year 2019-2020 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. 151971/-** (Rupees One Lakh Fifty One Thousand Nine Hundred and Seventy One only) (Recurring Rs. 69582 and Non-Recurring Rs. 82389) to Goa University, Taleigao from FY 2018-2019 to FY 2019-2020 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 Early Career Research Award. (EC Physical & Mathematical Sciences)
 (GEN).
- 7. The Sanction has been issued to Goa University, Taleigao with the approval of the competent authority under delegated powers on 28 June, 2019 and vide Diary No. SERB/F/2222/2019-2020 dated 01 July, 2019

8. The release amount of Rs. 570000/- (Rupees Five Lakh Seventy Thousand only) (Recurring Rs. 570000 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:

Account Name	The Registrar, Goa University	
Account Number	10664493609	
Bank Name & Branch	State Bank of India State Bank of India, Goa University Complex, Taleigao Plateau, Goa 403 206	
IFSC/RTGS Code	SBIN0004311	
Email id of A/C Holder	fo@unigoa.ac.in	
Email id of PI	sudhir.c@unigoa.ac.in	

- 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.

- 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. Magesh K K)
Scientist
ms_pm@serbonline.in

To, Under Secretary SERB, New Delhi

Copy forwarded for information and necessary action to: -

	copy for warded for information and necessary detion 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. Sudhir Cherukulappurath Physics Goa University , Taleigao, North Goa, Goa-403208 Email: sudhir.c@unigoa.ac.in Mobile: 918805239234
5.	The Registrar, Goa University, Goa University, Taleigao

Scientist ms_pm@serbonline.in

UTILISATION CERTIFICATE FOR THE FINAL YEAR -(ending on 11-01-2020) Year- 2019-2020

U.C. Pertains to

First	Second	Third	✓Fourth	√Final
Release	Release	Release	Release	Release

Is the UC provisional

: NO

1. Title of the Project/ Scheme

: Optical manipulation and trapping single gold shell encapsulated semiconductor quantum dots and application towards bioimaging

2. Name of Principal Investigator

3. Implementing Institution

4. SERB sanction order No & date

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

6.a. Amount received during the financial year (Please give SERB Letter/order no and date for the amount)

6.b. Interest earned, if any

7. Total Amount that was available for expenditure Rs. (Excluding Commitments) incurred during the financial year (11-01-2020)

8. Actual Expenditure (excluding commitments) Incurred during the financial year (11-01-2020)

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)

10. Unspent Balance, If any, refunded to SERB (Give details of Cheque/DD No. etc.)

11. Amount to be carried forward to the next Financial year (If any)

: Dr. Sudhir Cherukulappurath

: Physics Department, Goa University

: ECR/2016/000531, 14-12-2016

: Amount

Rs. 69583/-

: Letter/Order No

ECR/2016/000531

: Date

02-17-2019

: Amount

: Letter/Order No.

ECR/2016/000531

: Date

02-17-2019

Rs. 570000/-

: Nil

: Rs. 6,39,583/-

: Rs. 6,27,590/-

: Rs. 11993/-

: Rs. 11993/- DD No. 210771 dtd 12-05-2022

:-Nil

UTILIZATION CERTIFICATE

Certified that out of Rs. 570000/- of Recurring grants-in-aid sanctioned during the year 2019-2020 in favour of The Registrar, Goa University under SERB letter/order No. ECR/2016/000531 dated 02/06/2020 and Rs. 69583/- on account of unspent balance of the previous year, a sum of Rs. 627590/- has been utilized for the purpose for which it was sanctioned and that the balance of Rs. 11993/-remaining unutilized at the end of the year will be returned.

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 check 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 Signature of Registrar Accolony officer Signature of Head of Institution
Date Goa University Taleigao Plateau, Goa University Goa - 403 206 Date Registrar Goa University Taleigao Plateau, Taleigao Plateau, Taleigao Plateau, Taleigao Plateau,
Guidelines for preparation of U.C. Goa - 403 206
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 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 forwarded 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).
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Science and Engineering Research Board
JC has been accepted by
Signature
Name of the SERB Officer

Designation