FILE NO. SUR/2022/000240

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: 06 November, 2023

ORDER

Subject: Financial Sanction of the research project titled Metal bioavailability in intertidal sediments and bioaccumulation in benthic biota in tropical estuaries of Maharashtra, west coast of India to understand implications of metal toxicity. under the guidance of Dr. Maheshwar Ramakant Nasnodkar, Marine Sciences, School of Earth, Ocean and Atmospheric 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. 2619220/- (Rs. Twenty Six Lakh Nineteen Thousand Two Hundred and Twenty Only) with break-up of Rs. 433990/- under Capital (Non-recurring) head and Rs.2185230/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2619220/- has been approved are given below:

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

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Refrigerated Centrifuge	433990
	-> Laptop -> Printer -> Water bath	
A'	Total (Non-Recurring)	433990
В	Recurring Items	
1	Recurring - I : (Research Personnel -> Junior Research Fellow) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1257120 690000
2	Recurring - IV : (Overhead Charges)	238110
В'	Total (Recurring)	2185230
С	Total cost of the project (A' + B')	2619220

- 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.3,00,000/- under travel head and not more than Rs.90,000/- under contingency head should be spent.
- 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/2022/000240 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.

Rahm

(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, Illrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	Dr. Maheshwar Ramakant Nasnodkar
	Marine Sciences, School of Earth, Ocean and Atmospheric Sciences
	Goa University , Taleigao, North goa, Goa-403206
	Email: nmahesh1610@gmail.com
	Mobile: 919765848560
	(Start date of the project may be intimated by name to the undersigned. For guidance, terms &
	Conditions etc. Please visit <u>www.serb.gov.in</u> .)
5.	Registrar Goa University,
	Goa University, Taleigao Plateau
	(Receipt of Grant may be intimated by name to the undersigned)

Rahm

(Dr. V Ramesh) ms_pac_sure@serbonline.in FILE NO. SUR/2022/000240-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: 06 November, 2023

ORDER

Subject: Research project entitled Metal bioavailability in intertidal sediments and bioaccumulation in benthic biota in tropical estuaries of Maharashtra, west coast of India to understand implications of metal toxicity. under the guidance of Dr. Maheshwar Ramakant Nasnodkar, Marine Sciences, School of Earth, Ocean and Atmospheric Sciences, Goa University, Taleigao, North goa, Goa-403206.

- 1. In continuation of SERB's sanction order No. SUR/2022/000240 dated 06 November, 2023, sanction of the competent authority is hereby accorded to the payment of a sum of Rs.729010/- 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) and as mentioned in the sanction order of even number dated 06 November, 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 09 October, 2023 and vide Diary No. SERB/F/7484/2023-2024 dated 10 October, 2023...
- 6. The release amount of ps. 729010/- (Rupees Seven Lakh Twenty Nine Thousand and Ten 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
mail id of PI	nmahesh1610@gmail.com

(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.	Dr. Maheshwar Ramakant Nasnodkar
	Marine Sciences, School of Earth, Ocean and Atmospheric Sciences
	Goa University , Taleigao, North goa, Goa-403206
	Email: nmahesh1610@gmail.com
	Mobile: 919765848560
	(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 Goa University,
	Goa University, Taleigao Plateau
	(Receipt of Grant may be intimated by name to the undersigned)

Kahr

(Dr. V Ramesh) ms_pac_sure@serbonline.in FILE NO. SUR/2022/000240-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: 06 November, 2023

ORDER

Subject: Research project entitled Metal bioavailability in intertidal sediments and bioaccumulation in benthic biota in tropical estuaries of Maharashtra, west coast of India to understand implications of metal toxicity. under the guidance of Dr. Maheshwar Ramakant Nasnodkar, Marine Sciences, School of Earth, Ocean and Atmospheric Sciences, Goa University, Taleigao, North goa, Goa-403206.

- 1. In continuation of SERB's sanction order No. SUR/2022/000240 dated 06 November, 2023, sanction of the competent authority is hereby accorded to the payment of a sum of Rs. 433990/- 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) and as mentioned in the sanction order of even number dated 06 November, 2023.

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 09 October, 2023 and vide Diary No. SERB/F/7483/2023-2024 dated IO October, 2023.
- 6. The release amount of Rs. 433990/- (Rupees Four Lakh Thirty Three Thousand Nine Hundred and Ninety 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 Fank 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	nınahesh1610@gmail.com

Rahm

(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.	Dr. Maheshwar Ramakant Nasnodkar	
	Marine Sciences, School of Earth, Ocean and Atmospheric Sciences	,
	Goa University , Taleigao, North goa, Goa-403206	
	Email: nmahesh1610@gmail.com	
	Mobile: 919765848560	
	(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 Goa University,	
	Goa University, Taleigao Plateau	
	(Receipt of Grant may be intimated by name to the undersigned)	

Rahm

(Dr. V Ramesh)
ms_pac_sure@serbonline.in

REQUEST FOR ANNUAL INSTALMENT WITH UP-TO-DATE STATEMENT OF EXPENDITURE

1. SERB Sanction Order No and date : SUR/2022/000240 dated 06th Nov 2023

2. Name of the PI : **Dr. Maheshwar R. Nasnodkar**

3. Total Project Cost : **Rs. 26,19,220/-**

4. Revised Project Cost : **NIL**

5. Date of Commencement : **04**th **December 2023**

6. Statement of Expenditure :

(Month wise expenditure incurred during current financial year)

Month & year	Expenditure incurred/ committed
December 2023	NIL
January 2024	NIL
February 2024	Rs. 1,54,390/-
March 2024	Rs. 5,98,951/-

1. Grant received in each year:

a. 1st Year : Rs. 11,63,000/-

b. 2nd Year: NIL

c. 3rd Year: NIL

d. Interest, if any: Rs. 7,800/- (Recurring grant Rs. 5,390/- + non-recurring grant Rs. 2,410/-)

e. Total (a + b + c + d): Rs. 11,70,800/-

Statement of Expenditure (4th Dec 2023 to 31st March 2024) (to be submitted financial year wise i.e. DOS* to 31st March of that financial year say 20XX, 01-04-20XX till 31.03.20XX+1year and so on)

		Total Funds]	Expenditure Ir		Total	Balance as	Requirem	
Sr No	Sanctioned Heads (II)	Allocated (indicate sanctioned / or revised 1st Installment)	1 St Year (4 th December 2023 to 31 St March 2024)	2 nd Year (1 St April to 31 St March next year)	3 rd Year & so <u>on</u> (1 st April to 31 st March next year) (VI)	Expendit ure till 31st March 2024 (VII =	on (1 st April 2024) (VIII = III - VII)	ent of Funds upto 31 st March 2025	Remar ks (if any)
		(III)	(IV)		` ,	IV + V + VI)			
1.	Manpower costs	Rs. 3,24,000/-	Rs. 54,000/-			Rs. 54,000/-	Rs. 2,70,000/-	Rs. 3,24,000/-	
2.	Consumables	Rs. 1,78,000/-	Rs. 97,146/-			Rs. 97,146/-	Rs. 80,854/-	Rs. 2,02,854/-	l more
3.	Travel	Rs. 1,00,000/-	Rs. 43,055/-		gant also also your part was then some you spen dark some diet some.	Rs. 43,055/-	Rs. 56,945/-	Rs. 2,56,945/-	Request to release 2 nd
4.	Contingencies	Rs. 47,640/-	Rs. 45,780/-			Rs. 45,780/-	Rs. 1,860/-	Rs. 30,000/-	installment
5.	Others, if any			****	And you take had the top only the star and the star and the	per une circumstant and many man man man hand have well that form differ			of research
6.	Equipment	Rs. 4,33,990/-	Rs. 4,33,990/-			Rs. 4,33,990/-	NIL	NIL	project funds.
7.	Overhead expenses	Rs. 79,370/-	Rs. 79,370/-			Rs. 79,370/-	NIL	Rs. 79,370/-	Is
8.	Total	Rs. 11,63,000/-	Rs. 7,53,341/-			Rs. 7,53,341/-	Rs. 4,09,659/-	Rs. 8,93,169/-	

Dr. Maheshwar R. Nasnodkar

Name and Signature of Principal Investigator:

Date:

VP1H-24150083BXCYVS7640

Signature of Competent financial authority: (with seal)

Goa University Date: Taleigao Plateau,

Goa - 403 206

* DOS - Date of Start of project

Note:

1. Expenditure under the sanctioned heads, at any point of time, should not exceed funds allocated under that head, without prior approval of SERB i.e. Figures in Column (VIII) should not exceed corresponding figures in Column (III)

2. Utilization Certificate (Annexure III) for each financial year ending 31St March has to be enclosed along with request for carry-

forward permission to the next financial year.

GFR 12 – A [(See Rule 238 (1))]

UTILIZATION CERTIFICATE (UC) FOR THE YEAR 2023-24

in respect of NON-RECURRING

as on 31st March 2024 to be submitted to SERB Is the UC Audited (Provisional/Audited)

(To be given separately for each financial year ending on 31st March)

1.	Name of the grant receiving	Organization:	Goa	University	
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2. Name of Principal Investigator(PI) Dr. Maheshwar R. Nasnodkar

3. SERB Sanction order no. & date SUR/2022/000240-C dated 06th Nov 2023......

4. Title of the Project....... Metal bioavailability in intertidal sediments and bioaccumulation in benthic biota in tropical estuaries of Maharashtra, west coast of India to understand implications of metal toxicity.

5. Name of the SERB Scheme :SURE......

6. Whether recurring or non-recurring grants : NON-RECURRING

7. Grants position at the beginning of the Financial year

(i) Carry forward from previous financial year

NIL

(ii) Others, If any

NIL

(iii) Total

NIL

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years [figure as at SI. No. 7(iii)]	Interest Earned thereon	Interest deposited back to the SERB	Grants received during the year			Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)
1	2	3	4			5	6	7
			Sanction No.	Date (ii)	Amount (iii)			
NIL	Rs. 2,410/-	NIL .	SUR/2022/000240- C	06 th Nov 2023	Rs. 4,33,990/-	Rs. 4,36,400/-	Rs. 4,33,990/-	Rs. 2,410/-

Component wise utilization of grants:

Grants-in-aid- General	Grant-in-aid-creation for capital assets	Total	
	Rs. 4,33,990/-	Rs. 4,33,990/-	

Details of grants position at the end of the year

(i) Balance available at end of financial year : Rs. 2,410/-

(ii) Unspent balance refunded to SERB (If any) : NIL

(iii) Balance (Carried forward to next financial year) if applicable : Rs. 2,410/

(Request to carry forward balance to next financial year 2024-25)



GFR 12 – A [(See Rule 238 (1))]

UTILIZATION CERTIFICATE (UC) FOR THE YEAR 2023-24 in respect of NON-RECURRING

as on 31st March 2024 to be submitted to SERB

Is the UC Audited (Provisional/Audited)

(To be given separately for each financial year ending on 31st March)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (viii) The utilization of the fund resulted in outcomes given at Annexure II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure –II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:01 July 2024

Place: Goa University, Taleigao

Signature of PI:

Dr. Maheshwar R. Nasnodkar

Signature with Seal

Name:

Finance Officer

Finance Officer Goa University Taleigao Plateau, Goa - 403 206 Head of Institute (Registrar)

Signature with

Registrar Goa University Taleigao Plateau, Goa - 403 206

(Strike out inapplicable terms)

121256W GOA

10 IN- 94150083BKCY VS 7640

GFR 12 - A [(See Rule

238 (1))]

UTILIZATION CERTIFICATE (UC) FOR THE YEAR 2023-24 in respect of RECURRING

as on 31st March 2024 to be submitted to SERB

Is the UC Audited (Provisional/Audited)

(To be given separately for each financial year ending on 31st March)

1.	Name of the grant	receiving Organizat	on : Go a	University
----	-------------------	---------------------	------------------	------------

- 2. Name of Principal Investigator(PI)Dr. Maheshwar R. Nasnodkar......
- 3. SERB Sanction order no. & dateSUR/2022/000240-G dated 06th Nov 2023......
- 4. Title of the Project...... Metal bioavailability in intertidal sediments and bioaccumulation in benthic biota in tropical estuaries of Maharashtra, west coast of India to understand implications of metal toxicity.
- 5. Name of the SERB Scheme : SURE ...
- 6. Whether recurring or non-recurring grants : RECURRING
- 7. Grants position at the beginning of the Financial year

(i) Carry forward from previous financial year

NIL

(ii) Others, If any

(iii) Total

NIL NIL

8. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balance of Grants received previous years [figure as at SI. No. 7(iii)]	Interest Eamed thereon	Interest deposited back to the SERB	Grants received during the year 2023-24		Total Available funds (1+2-3+4)	Expenditure incurred	Closing Balances (5-6)	
1	2	3	4		5	6	7	
			Sanction No. (i)	Date (ii)	Amount (iii)			
NIL	Rs. 5,390/-	NIL	SUR/2022/000240- G	06 th Nov 2023	Rs. 7,29,010/-	Rs. 7,34,400/-	Rs. 3,19,351/-	Rs. 4,15,049/-

Component wise utilization of grants:

Grants-in-aid- General	Grant-in-aid-creation for capital assets	Total
Rs. 3.19.351/-		Rs. 3,19,351/-

Details of grants position at the end of the year (31st March 2024)

(i) Balance available at end of financial year

Rs. 4,15,049/-

(ii) Unspent balance refunded to SERB (If any)

NIL

(iii) Balance (Carried forward to next financial year) if applicable : Rs. 4,15,049/- (Request to carry forward balance to next financial year 2024-25)



GFR 12 – A [(See Rule 238 (1))]

UTILIZATION CERTIFICATE (UC) FOR THE YEAR 2023-24 in respect of RECURRING

as on 31st March 2024 to be submitted to SERB

Is the UC Audited (Provisional/Audited)

(To be given separately for each financial year ending on 31st March)

Certified that I have satisfied that the conditions on which grants were sanctioned have been duly fulfilled/are being fulfilled and that I have exercised following checks to see that the money has been actually utilized for the purpose for which it was sanctioned:

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (vii) It has been ensured that the physical and financial performance under ...SURE..... (CRG/NPDF/ECR....etc.) (Name of the scheme has been according to the requirements, as prescribed in the guidelines issued by Govt. of India and the performance/targets achieved statement for the year to which the utilization of the fund resulted in outcomes given at Annexure I duly enclosed.
- (viii) The utilization of the fund resulted in outcomes given at Annexure II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure –II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date: 4 July 2024

Place: Goa University, Taleigao

Signature of PI :

Dr. Maheshwar R. Nasnodkar

Signature with Seal .

Name:

Finance Officer

Finance Officer Goa University Taleigao Plateau, Goa - 403 206

Registrar Goa University Taleigao Plateau,

Goa - 403 206

(Strike out inapplicable terms)

As per books of accounts

VPIN - 2415 083 BKEY V57640