

01

RDRM FORM A 1

INFORMATION OF SANCTIONED PROJECT
AND APPROVAL FOR IMPLEMENTATION

(REQUEST FOR VICE CHANCELLOR'S APPROVAL)

1. Project Title and sanction letter No. Establishment of Bioinformatics
centre for Biodiversity Conservation & Sustainable
utilization. No BT / PRG-221 / BTIS / 137 / 10 / 2021,
2. Funding agency : DBT, New Delhi
3. Department : Bio technology
4. Principal Investigator : Dr. Valsamma Joseph.
5. Co-investigator (if any) : Prof. S.C. Ghosh, Mr. Shibu et al.
6. Duration of project : 5 years
7. Total amount of the project : Rs. Gratuity Component :- Nil
Only teaching & training
8. Sanctioned Sub Heads and amount :
 - a)
 - b)
 - c)
 - d)
 - e)
9. Overhead : Rs. — (Post-doc)
10. Number and Designations of research staff : 1 POF at cochin University,
11. Terms and conditions :
 - a) Dates for submission of Report Yearly.
 - b) Dates for submission of utilization certificate : 2026.
12. Year wise break-up of the sanctioned amount : —

(Signature)

(FOR USE BY RDRM)

1. Project No. : GU/D-RDRM/DBT/SCG/Biototechnology/27/2019-20.
2. Amount : Rs. 74,99,200/-
3. Duration : 5 years.
4. Any financial burden on University : NO.
5. Additional space essential : NO.
6. Is the PI aware of safety regulations? NO.
7. 15% Overhead expenditure included : Rs. NO.
8. Approved for V.C.'s signature : YES.

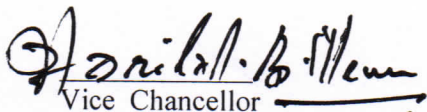


Director,
RDRM

Date : 05/10/2021

(FOR USE BY VICE CHANCELLOR)

Approved/~~Not Approved~~.



Vice Chancellor

08/10/2021

Date : 08/10/2021

No. BT/PR40221/BTIS/137/10/2021

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated:22.02.2021

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "**Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization**" - at: **National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi**" for a period of 5 Years 0 Month at a total cost of Rs. **7499200/-** (Rupees Seventy Four Lakhs Ninety Nine Thousand Two Hundred Only) on the terms and conditions detailed here under:-

The Project :

2.1 Title : "**Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization**" - at **National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi**"

2.2 Details of the Investigators:

Dr. Valsamma Joseph

Director

National Centre for Aquatic Animal Health,

Cochin University of Science and Technology, Kochi, Kerala, 682016

CO-PI:

Dr. Sanjeev C Ghadi

Professor

Department of Biotechnology,

Goa University

Talligao Pldteau, Goa 403206

Mr. Shubin SP

Assistant Professor

National Centre for Aquatic Animal Health

Cochin University of Science and Technology

Kochi - 682016, Kerala, India

Prof. Rosamma Philip

Dean and UGCBSR Faculty Fellow

Department of Marine Biology, Microbiology and Biochemistry

Cochin University of Science and Technology, Kochi 682016, Kerala

Dr. Judy MV

Associate Professor

Department of Computer Applications

Cochin University of Science and Technology, Kochi 682016, Kerala

Dr. Jereesh AS

Assistant Professor

Department of Computer Science

Cochin University of Science and Technology, Kochi 682016, Kerala

Dr. Sajeevan TP

Assistant Professor

National Centre for Aquatic Animal Health

Cochin University of Science and Technology, Kochi 682016, Kerala

Dr. S. U. Ahmed
Secretary
Department of Biotechnology
Ministry of Science & Tech.
Government of India, N. Delhi
Page No. 11 / 21

Dr. Jayesh Puthumana

Assistant Professor
National Centre for Aquatic Animal Health
Cochin University of Science and Technology,
Kochi 682016, Kerala

Mentors:**Prof. Bright Singh I.S.**

Emeritus Professor
National Centre for Aquatic Animal Health
Cochin University of Science and Technology,
Kochi 682016, Kerala

Prof. Achuthsankar S Nair

Professor and Head
Department of Computational Biology and Bioinformatics
University of Kerala, Trivendrum ,
Kerala, India

2.3 Objectives:

1. Teaching (in support of teaching Bioinformatics and Computational Biology to the students of M.Tech in Marine Biotechnology at NCAAH, DBT sponsored programme)
2. Training on Bioinformatics and Computational Biology (To the students in Life Science at +2, Undergraduate and Post graduate levels, Teachers in Life Science and Research Scholars).
3. Supporting the research projects within and outside the Institution - To provide Computational Bioinformatics support to research projects.
4. Research: in the areas as follows, for which additional funding will be generated through the submission of specific projects by the respective investigators:
 1. Determination of the extent of perturbation of a typical marine ecosystem by human activity and generation of early warning signs in the form of accurate NGS genomic data.
 2. Targeted drug discovery from marine biological systems focusing on applications such as virtual screening prediction (using appropriate classification algorithm) and drug efficacy and ADMET prediction (using appropriate regression algorithms).
 3. Building up synthetic biology platform for biosynthesis of various molecules such as pyocyanin.
 4. Application of NGS in aquatic animal model in assessing xenobiotics deleterious to environmental health under "one health concept" and development of human resources in the discipline HRD:

2.4 Time Schedule:

The duration of the project is 5 Years 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **7499200/-** (Rupees Seventy Four Lakhs Ninety Nine Thousand Two Hundred Only) as per details given below:

Budget Head	Year I	Year II	Year III	Year IV	Year V	Total (Rs.)
Equipment	1500000.00					1500000.00
Manpower	654240.00	654240.00	654240.00	654240.00	654240.00	3271200.00
Overhead	82000.00	84000.00	84000.00	84000.00	84000.00	418000.00
Travel	50000.00	50000.00	50000.00	50000.00	50000.00	250000.00
Consumables	200000.00	200000.00	200000.00	200000.00	200000.00	1000000.00
Contingency	50000.00	50000.00	50000.00	50000.00	50000.00	250000.00
Workshop/Training	150000.00	150000.00	170000.00	170000.00	170000.00	810000.00
Total (Rs.)	2686240.00	1188240.00	1208240.00	1208240.00	1208240.00	7499200.00

2.6 Equipment

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

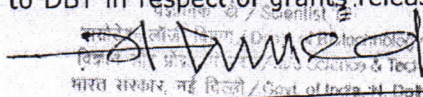
Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

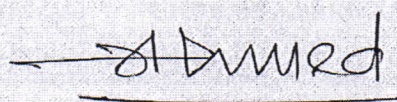
Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

- 4.1 The Continuation of the project beyond 31.03.2021 will be subject to approval of the DBT umbrella scheme on 'Biotechnology Research & Development' for continuation in the 15th Finance Commission period.
- B. In case the whole or a part of the amount of the Grants-in-Aid is being refunded, an interest rate of ten percent thereon shall be recovered.
- C. The Expenditure is to be made as per the EAT module of the Government of India.
- D. Any further grant release in the project would also be subject to Utilization Certificate updates in PFMS.
- E. Quarterly deliverables in the project, in quantifiable terms have to be provided for each quarter of the project, based on which, inter-alia, monitoring/review of the project will be done and proposal for release of subsequent installment will be considered.
- 4.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release.
- 4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned has to be refunded by the Institute/Agency to the Consolidated Fund of India (www.bharatkosh.gov.in) in Compliance with Rule 230(08) of GFR 2017.
5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Registrar, Cochin University Of Science & Technology, Kochi, Kerala would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

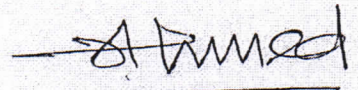

Registrar, Cochin University of Science & Technology, Kochi, Kerala

7. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clearance, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project investigator(s) and Host Institution(s) shall compulsorily comply the same before undertaking such activities.
8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.
9. If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org.
10. This issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No.102/IFD/SAN/2043/2020-21 dated: 18.01.2021.
11. This sanction order has been noted at serial no. _____ in the Register of Grants.


श्री. एम. (Dr. Shahaj Uddin Ahmed)
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी विभाग / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

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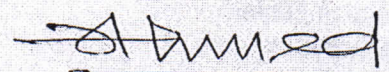
- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Registrar, Cochin University Of Science & Technology, Cochin University P.O., Kochi - 682016, Kerala
- 3 Dr. Jayesh Puthumana, Assistant Professor, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 4 Dr. Jereesh AS, Assistant Professor, Department of Computer Science, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 5 Dr. Judy MV, Associate Professor, Department of Computer Applications, Cochin University of Science and Technology, Kochi 682016, Kerala
- 6 Dr. Sajeevan TP, Assistant Professor, National Centre for Aquatic Animal Health, , Cochin University of Science and Technology, Kochi - 682016, Kerala
- 7 Dr. Sanjeev C Ghadi, Professor, Department of Biotechnology, Goa University, Taleigao Plateau.
- 8 Dr. Valsamma Joseph, Director, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 9 Mr. Shibin SP, Assistant Professor, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 10 Prof. Achuthsankar S Nair, Professor and Head, Department of Computational Biology and Bioinformatics, University of Kerala, Trivandrum, Kerala, India
- 11 Prof. Prof. Bright Singh I.S., KSCSTE Emeritus Scientist, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Fine Arts Avenue, Kochi - 682016, Kerala
- 12 Prof. Rosamma Philip, Dean and UGCBSR Faculty Fellow, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 13 Cash Section, DBT (2 copies).
- 14 Sanction Folder.
- 15 File Copy.


श्री शाहज उद्दीन अहमद / Dr. S U Ahmed
(Dr. Shahaj Uddin Ahmed)
विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार / Department of Science and Technology, Government of India
विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार / Ministry of Science and Technology, Government of India
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled
"Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization" -at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi":

COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY			
S No.	Name of Equipment	No.	Cost(Rs.)
1.	Setting up of BIC and Training Lab facilities:		
	1) Providing and fixing grid ceiling with perforated metal sheet inserted in power coated GI section.	660	500000.00
	2) Supplying and fixing 12mm glass doors with Ozone or Doorma door closers and path fittings.	3	
	3) Providing and fixing cassette AC (Blue star 3 ton) including copper pipe, communication cable, drain pipe, installation charges and ODU stand.	2	
	4) Supplying and fixing 2x2 LED light panels (Philips) on ceiling.	5	
	5) Miscellaneous electrical wiring.		
	6) De novo transcriptome analysis (10 GB)	1	
	7) Whole metagenome sequencing	1	
2.	Computing labs with 20 systems and 2 servers including AC and UPS:		
	1) Intel Core I5/Gigabyte B365 MB/16 GB RAM/1 TB HDD/ Cooler Master cabinet with cooler Master 550 w SMSPS/22 "Dell Monitor/Logitech KB& Mouse/2 GB Graphics card.	20	1000000.00
	2) Numeric 600VA UPS.	20	
	3) HP ML30 server (Intel Xeon/8GB RAM/1 TB HDD/22 "Monitor/KB & Mouse)	2	
Total			1500000.00



(Dr. Shahaj Uddin Ahmed)

Scientist 'E'

Department of Biotechnology

Cochin University of Science and Technology

Kochi

Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled **"Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization" - at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi**:"

Head	No. of Position	Year I	Year II	Year III	Year IV	Year V	Total (Rs.)
Research Associate -1 @Rs.47000/- + 16% HRA pm. (Rs. 54520/-)	1	654240	654240	654240	654240	654240	3271200
Total(Rs.)		654240	654240	654240	654240	654240	3271200

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST OM No. SR/S9/Z-05/2019 dated 10.07.2020 for all other categories.



डॉ. शाहाज उद्दीन अहमद / Dr. S. U. Ahmed
(Dr. Shahaj Uddin Ahmed)
सांख्यिकी विभाग / Dept. of Statistics
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

No. BT/PR40221/BTIS/137/10/2021
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date:22.02.2021

RELEASE ORDER

In continuation of this Department's sanction order of even number dated:22.02.2021 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **1136240/-** (Rupees Eleven Lakhs Thirty Six Thousand Two Hundred and Forty Only) being the 1st Installment for first year release for the project entitled "**Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization"- at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi**", being implemented by:
Dr. Valsamma Joseph, Cochin University Of Science & Technology, Associate Professor and Director, National Centre for Aquatic Animal Health, Cochin - 682016, Kerala

The detailed break-up is as given below:

SN	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Workshop/ Training	Overhead	
1	COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY Cochin	654240.00	200000.00	00.00	50000.00	150000.00	82000.00	1136240.00

2. The amount of Rs. **1136240/-** (Rupees Eleven Lakhs Thirty Six Thousand Two Hundred and Forty Only) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

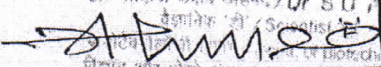
The Registrar, Cochin University Of Science & Technology, Kochi , Cochin - 682022, Kerala

Bank Name : Bank of India
Branch Name : South Kalamassery
A/c No. : 856910100005847
IFSC Code : BKID0008569
MICR Code : 682013007

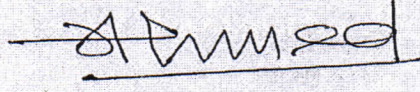
3. The expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research-2020-2021
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. The Registrar, Cochin University Of Science & Technology, Cochin, Kerala will submit audited utilization certificates and statements of expenditure in respect of the above-mentioned amount.

डॉ. शाहजि उमेश अहमद / Dr S U Ahmed

सचिव, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार
Secretary, Department of Science & Tech.
Ministry of Science & Tech., Govt. of India, N. Delhi

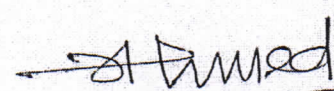
5. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
6. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
7. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be refunded to the Consolidated Fund of India in Compliance with Rule 230(08) of GFR 2017.
8. The Continuation of the project beyond 31.03.2021 will be subject to approval of the DBT umbrella scheme on 'Biotechnology Research & Development' for continuation in the 15th Finance Commission period.
- B. In case the whole or a part of the amount of the Grants-in-Aid is being refunded, an interest rate of ten percent thereon shall be recovered.
- c. The Expenditure is to be made as per the EAT module of the Government of India.
- D. Any further grant release in the project would also be subject to Utilization Certificate updates in PFMS.
- E. Quarterly deliverables in the project, in quantifiable terms have to be provided for each quarter of the project, based on which, inter-alia, monitoring/review of the project will be done and proposal for release of subsequent installment will be considered.
- F. This is 1st year release of grant. No Utilization certificate is due for rendition.
The other terms and conditions governing the financial sanction will remain unaltered.
9. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their **SAN No.102/IFD/SAN/2044/2020-21 dated: 18.01.2021.**
10. This sanction order has been noted at serial no. _____ in the Register of Grants.


(Dr. Shahaj Uddin Ahmed)
बायोटेक्नोलॉजी विभाग / Scientist 'E'
विज्ञान और प्रौद्योगिकी विभाग / M/s. Science & Tech.
भारत सरकार, नई दिल्ली / Govt of India, N. Delhi

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Dehi - 110 003:

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Registrar, Cochin University Of Science & Technology, Cochin University P.O., Kochi - 682016, Kerala
- 3 Dr. Jayesh Puthumana, Assistant Professor, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 4 Dr. Jereesh AS, Assistant Professor, Department of Computer Science, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 5 Dr. Judy MV, Associate Professor, Department of Computer Applications, Cochin University of Science and Technology, Kochi 682016, Kerala
- 6 Dr. Sajeevan TP, Assistant Professor, National Centre for Aquatic Animal Health, , Cochin University of Science and Technology, Kochi - 682016, Kerala
- 7 Dr. Sanjeev C Ghadi, Professor, Department of Biotechnology, Goa University, Taleigao Plateau.
- 8 Dr. Valsamma Joseph, Director, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 9 Mr. Shibin SP, Assistant Professor, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 10 Prof. Achuthsankar S Nair, Professor and Head, Department of Computational Biology and Bioinformatics, University of Kerala, Trivandrum, Kerala, India
- 11 Prof. Prof. Bright Singh I.S., KSCSTE Emeritus Scientist, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Fine Arts Avenue, Kochi - 682016, Kerala
- 12 Prof. Rosamma Philip, Dean and UGCBSR Faculty Fellow, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 13 Cash Section, DBT (2 copies).
- 14 Sanction Folder.
- 15 File Copy.


Dr. Shahaj Uddin Ahmed / Dr. S U Ahmed
(Dr. Shahaj Uddin Ahmed)
सांख्यिकी विभाग / Dept. of Scientist 'E'
विज्ञान और प्रौद्योगिकी विभाग / M/o Science & Tech
भारत सरकार, नई दिल्ली / Govt of India, N. Delhi

No. BT/PR40221/BTIS/137/10/2021

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)
CGO Complex, Lodhi Road,
New Delhi- 110 003
Date:22.02.2021

RELEASE ORDER

In continuation of this Department's sanction order of even number dated:22.02.2021 sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **500000/-** (Rupees Five Lakhs Only) being the 1st Installment for the first year release for the project entitled **"Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization" -at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi**, being implemented by: Dr. Valsamma Joseph, Cochin University Of Science And Technology, Cochin - 682016, Kerala

The detailed break-up is as given below:

SN	Institute Name	Non Recurring		Total Release Amount (Rs)
		Equipment	Other	
1	Cochin University Of Science & Technology, Cochin	500000.00	0.00	500000.00

2. The amount of Rs. **500000/-** (Rupees Five Lakhs Only) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

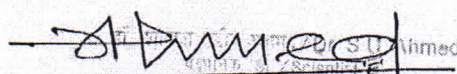
The Registrar, Cochin University Of Science & Technology, Cochin University P.O., Kochi , - 682022, Kerala

Bank Name : Bank of India
Branch Name : South Kalamassery
A/c No. : 856910100005847
IFSC Code : BKID0008569
MICR Code : 682013007

3. The expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

4. The Registrar, Kochi, University of Science & Technology, Kochi, Kerala will submit audited utilization certificates and statements of expenditure in respect of the above-mentioned amount.



Registrar, Cochin University of Science & Technology
Ministry of Science & Technology
New Delhi-110 003

5. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.

6. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

7. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be refunded to the Consolidated Fund of India in Compliance with Rule 230(08) of GFR 2017.

8. A. The Continuation of the project beyond 31.03.2021 will be subject to approval of the DBT umbrella scheme on 'Biotechnology Research & Development' for continuation in the 15th Finance Commission period.

B. The equipment sanctioned under the project should be purchased within **18 months** from the date of release of the grant.

C. The Expenditure is to be made as per the EAT module of the Government of India.

D. Any further grant release in the project would also be subject to Utilization Certificate updates in PFMS.

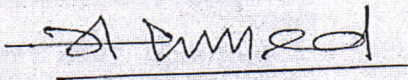
E. This is 1st year release of grant. No Utilization certificate is due for rendition.

F. In case the whole or part of the amount of the Grants for Creation of Capital Assets is being refunded, an interest rate of ten percent thereon shall be recovered.

The other terms and conditions governing the financial sanction will remain unaltered.

9. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT, vide their **SAN No. 102/IFD/SAN/2045/2020-21 dated:18.01.2021.**

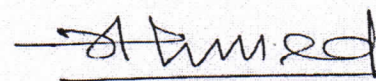
10. This sanction order has been noted at serial no. _____ in the Register of Grants.


(Dr. Shahaj Uddin Ahmed)
Scientist, 'E'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी विभाग / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Registrar, Cochin University Of Science & Technology, Cochin University P.O., Kochi - 682016, Kerala
- 3 Dr. Jayesh Puthumana, Assistant Professor, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 4 Dr. Jereesh AS, Assistant Professor, Department of Computer Science, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 5 Dr. Judy MV, Associate Professor, Department of Computer Applications, Cochin University of Science and Technology, Kochi 682016, Kerala
- 6 Dr. Sajeevan TP, Assistant Professor, National Centre for Aquatic Animal Health, , Cochin University of Science and Technology, Kochi - 682016, Kerala
- 7 Dr. Sanjeev C Ghadi, Professor, Department of Biotechnology, Goa University, Taleigao Plateau.
- 8 Dr. Valsamma Joseph, Director, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 9 Mr. Shibir SP, Assistant Professor, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 10 Prof. Achuthsankar S Nair, Professor and Head, Department of Computational Biology and Bioinformatics, University of Kerala, Trivandrum, Kerala, India
- 11 Prof. Prof. Bright Singh I.S., KSCSTE Emeritus Scientist, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Fine Arts Avenue, Kochi - 682016, Kerala
- 12 Prof. Rosamma Philip, Dean and UGCBSR Faculty Fellow, Cochin University of Science and Technology, Kochi - 682016, Kerala
- 13 Cash Section, DBT (2 copies).
- 14 Sanction Folder.
- 15 File Copy.



(Dr. Shahaj Uddin Ahmed)

संशोधक 'E' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी विभाग / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt of India, N. Delhi

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

(Abstract)

NCAAH-DBT Project entitled " Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization"- Implemented- Orders issued.

PLANNING AND DEVELOPMENT DIVISION

No.CUSAT/PL(B).A2/1580/2021

Dated,KOCHI-22,13.04.2021

- Read:-1. U.O No.PLB1/5706/1998 dated 14/09/1999 & 28/03/2005
2. Orders of VC dated 16/04/2008 in the file No.PLB1/5706/1998
3. Circular No. PLB2/7321/2005 dated 21/08/2008
4. U.O No. PLB/Send Off overhead sharing/2008 dated 03/11/2018
5. DBT Order No. BT/PR40221/BTIS/137/10/2021 dated 22/02/2021
6. Letter No.NCAAH/DBT-BIC/2020-21/835 dated 10/03/2021

ORDER

DBT, vide their order read as (5) above, has sanctioned the Project entitled "Establishment of Bioinformatics Centre(BIC) for Marine Bio-resource Conservation and Sustainable Utilization" with a total cost of Rs. 74,99,200/- for a period of 5 years with effect from 22/02/2021 with Dr. Valsamma Joseph, Director, NCAAH as project coordinator & Principal Investigator and with the following list of co-investigators and mentors:

1. Dr.Sajeevan T.P, Assistant Professor, NCAAH, CUSAT- Co-investigator
2. Dr.Jayesh Puthumana, Assistant Professor, NCAAH, CUSAT - Co-investigator
3. Prof.Rosamma Philip, Dean & UGC BSR Faculty Fellow, Department of Marine Biology, Microbiology & Biochemistry, CUSAT- Co-investigator
4. Dr.Judy M V, Professor, Department of Computer Applications, CUSAT, Co-investigator
5. Dr.Jereesh A S, Assistant Professor, Department of Computer Science, CUSAT- Co-investigator
6. Dr.Sanjeev C Ghadi, Professor, Department of Biotechnology, Goa University- Co-investigator
7. Mr.Shibin S P, Assistant Professor, NCAAH, CUSAT- Co-investigator
8. Prof.Bright Singh I.S, KSCSTE Emeritus Scientist, NCAAH, CUSAT-Mentor
9. Prof. Achuthsankar S Nair, Professor & Head, Department of Computational Biology and Bioinformatics, University of Kerala- Mentor.

DBT, vide their order read as (5) above, has released an amount of Rs. 5,00,000/-as first instalment of the project for setting up of BIC and training lab facilities under the non-recurring head and Rs.11,36,240/- under the recurring head for first year of the project.

Dr. Valsamma Joseph, Director, NCAAH, vide her letter read as (6) above has requested to implement the DBT project at NCAAH and to permit the project coordinator to meet the expenditure of the project through EAT module of PFMS.

Considering the above, sanction is accorded by the Vice Chancellor to implement the project entitled 'Establishment of Bioinformatics Centre(BIC) for Marine Bio-resource Conservation and Sustainable Utilization' with a total cost of Rs.74,99,200/- for a period of 5 years with effect from

22/02/2021 with the following list of Principal investigator, Co-investigators and Mentors:

1. Dr. Valsamma Joseph, Director, NCAAH, CUSAT - Project coordinator & Principal Investigator
2. Dr.Sajeevan T.P, Assistant Professor, NCAAH, CUSAT- Co-investigator
3. Dr.Jayesh Puthumana, Assistant Professor, NCAAH, CUSAT - Co-investigator
4. Prof.Rosamma Philip, Dean & UGC BSR Faculty Fellow, Department of Marine Biology, Microbiology & Biochemistry, CUSAT- Co-investigator
5. Dr.Judy M V, Professor, Department of Computer Applications, CUSAT, Coinvestigator
6. Dr.Jereesh A S, Assistant Professor, Department of Computer Science,CUSAT- Co-investigator
7. Dr.Sanjeev C Ghadi, Professor, Department of Biotechnology, Goa University- Coinvestigator
8. Mr.Shibin S P, Assistant Professor, NCAAH, CUSAT- Co-investigator
9. Prof.I.S.Bright Singh, KSCSTE Emeritus Scientist, NCAAH, CUSAT-Mentor
10. Prof. Achuthsankar S Nair, Professor & Head, Department of Computational Biology and Bioinformatics, University of Kerala- Mentor.

Sanction is also accorded by the Vice Chancellor permitting the Project coordinator & Principal Investigator to draw advances for the first year of the project and to meet the expenditure through EAT module of the PFMS.

The expenditure will be met from the Head of Account "1-98-0-U-3-002" provided in the budget of the university.

DETAILS OF GRANT ALLOCATION

SL NO	Head	1st Year	2nd Year	3rd Year	4th Year	5th Year	TOTAL
1	Equipment	1500000	0	0	0	0	1500000
2	Manpower	654240	654240	654240	6540240	654240	3271200
3	Overhead	84000	84000	84000	84000	84000	418000
4	Travel	50000	50000	50000	50000	50000	250000
5	Consumables	200000	200000	200000	200000	200000	1000000
6	Contingency	50000	50000	50000	50000	50000	250000
7	Workshop/Training	150000	150000	170000	170000	170000	810000
	Total	2686240	1188240	1208240	1208240	1208240	7499200

Dr Ansar M S *
PLANNING AND DEVELOPMENT
OFFICER

To:

1. Dr. Valsamma Joseph, Director, NCAAH, CUSAT
2. Dr.Sajeevan T.P, Assistant Professor, NCAAH, CUSAT
3. Dr.Jayesh Puthumana, Assistant Professor, NCAAH, CUSAT
4. Prof.Rosamma Philip, Dean & UGC BSR Faculty Fellow, Department of Marine

Biology, Microbiology & Biochemistry, CUSAT

5. Dr.Judy M V, Professor, Department of Computer Applications, CUSAT,
6. Dr.Jereesh A S, Assistant Professor, Department of Computer Science,CUSAT-
7. Dr.Sanjeev C Ghadi, Professor, Department of Biotechnology, Goa University-
8. Mr.Shibin S P, Assistant Professor, NCAAH, CUSAT-
9. Prof.I.S.Bright Singh, KSCSTE Emeritus Scientist, NCAAH, CUSAT
10. Prof. Achuthsankar S Nair, Professor & Head, Department of Computational Biology and Bioinformatics, University of Kerala
11. The Finance Officer/Joint Director, KSAD
12. The Director, CIRM/Statistical Officer.
13. PS to VC/PS to PVC/PA to Registrar
14. Finance/IA&I/Audit 'D'/Accounts 1/Cash Sections
15. Day File/Stock File/File Copy

* This is a computer generated document. Hence no signature is required.



LDC BIOTECH <ldcbiotech@gmail.com>

Fwd: Administrative Sanction Orde and Implementaiton Order- DBT- Bioinformatics Centre, CUSAT

2 messages

Prof. Sanjeev Ghadi <saga@unigoa.ac.in>
To: ldcbiotech@gmail.com

Thu, Apr 15, 2021 at 1:06 PM

----- Forwarded message -----

From: **Achuthsankar** <sankar.achuth@gmail.com>

Date: Thu, Apr 15, 2021 at 12:13 PM

Subject: Re: Administrative Sanction Orde and Implementaiton Order- DBT- Bioinformatics Centre, CUSAT

To: Valsamma Joseph <valsamma@cusat.ac.in>

Cc: bright singh <isbsingh@gmail.com>, Prof. Sanjeev Ghadi <saga@unigoa.ac.in>, Rosamma Philip <rosammap@gmail.com>, Sajeevan T. P <sajeevantp@gmail.com>, Jayesh Puthumana <jayeshp24@gmail.com>, Judy Nair <judy.nair@gmail.com>, JEREESH A S <jereesh@cusat.ac.in>, Shibin Sp <sp.shibin@gmail.com>, Silpa Baskaran <silpabhaskaran@gmail.com>

Congratulations to the CUSAT team and best wishes for successful project culmination**Prof Achuthsankar S Nair**

Dept of Computational Biology and Bioinformatics

University of Kerala, Karyavattom, Thiruvananthapuram 695581 INDIA**Telephone: O: 9446928759 R: 8304802717** (Both R and O are Fixed Phones)**Web** sites.google.com/site/achushome **FB:** facebook.com/achuthsankar.snair

On Thu, Apr 15, 2021 at 12:09 PM Valsamma Joseph <valsamma@cusat.ac.in> wrote:

Dear All,

Please find attached the administrative sanction order from the Department of Biotechnology and implementation order from the Cochin University of Science and Technology with respect to the Bioinformatics Centre proposal entitled "Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization – at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi" sponsored by the Department of Biotechnology.

Objectives of the programme are:

1. Teaching (in support of teaching Bioinformatics and Computational Biology to the students of M.Tech in Marine Biotechnology at NCAAH, DBT sponsored programme)

2. Training on Bioinformatics and Computational Biology (To the students in Life Science at +2, Undergraduate and Postgraduate levels, Teachers in Life Science and Research Scholars)
3. Supporting the research projects within and outside the Institution-To provide Computational Bioinformatics support to research projects
4. Research: in the areas as follows, for which additional funding will be generated through the submission of specific projects by the respective investigators:
 1. Determination of the extent of perturbation of a typical marine ecosystem by human activity and generation of early warning signs in the form of accurate NGS genomic data.
 2. Targeted drug discovery from marine biological systems focusing on applications such as virtual screening prediction (using appropriate classification algorithm) and drug efficacy and ADMET prediction (using appropriate regression algorithms)
 3. Building up synthetic biology platform for biosynthesis of various molecules such as pyocyanin
 4. Application of NGS in aquatic animal model in assessing xenobiotics deleterious to environmental health under "one health concept".

At this juncture, I specially thank the Mentors of the programme, Prof. IS Bright Singh for drafting the original proposal and Prof. Achuthsankar S Nair for the immense support he provided during the project preparation and submission. I thank Prof. Sanjeev C. Ghadi for associating with the programme.

The project is implemented with effect from 22-2-2021. Dr. Silpa Bhaskaran has joined as Research Associate in the programme. At present, we are in the process of establishing the facility and preparation of the syllabi for the training programme.

I request all the Principal Investigators to initiate research in the committed areas given above and take steps for generating additional funding through the submission of specific projects to the funding agencies.

Looking forward to productive interactions and thanking you all in the Team BIC,

Yours sincerely,

Valsamma Joseph

----- Forwarded message -----

From: **Shahaj Uddin Ahmed** <shahaj.ahmed@nic.in>

Date: Thu, Mar 4, 2021 at 10:45 AM

Subject: Reg. Administrative Sanction Order + Release Orders of New BIC- Dr. Valsamma Joseph

To: <valsamma@cusat.ac.in>, <jvalsamma@gmail.com>

Dear Dr. Valsamma,

This has reference to your new Bioinformatics Centre proposal entitled "**Establishment of Bioinformatics Centre (BIC) for Marine Bio-resource Conservation and Sustainable Utilization – at National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Kochi**" submitted to DBT for financial support. In this regard, it is to inform you that department has sanctioned the project with a total budget of **Rs. 74.992 Lakhs** for a period of **Five Years**. The Administrative Sanction Order alongwith release orders of **1st installment** of 1st year grant are attached for your information and necessary action. The format for MoA is also attached, which will be required to submit to DBT for consideration of next release/ second installment of the project.

You are requested to implement the project immediately and required to complete the project activities within the sanctioned budget and prescribed time period. Please note that the administrative sanction order date i.e. **22.02.2021** is the starting date of the project. You are required to follow **the Terms & Conditions** mentioned in the Administrative Sanction Order.

With Regards,

डा. शहाज उद्दीन अहमद/ Dr. Shahaj Uddin Ahmed PhD.

वैज्ञानिक "इ"/Scientist "E"

जैवप्रौद्योगिकी विभाग/ Department of Biotechnology

(Theoretical & Computational Biology;

Basic Research In Modern Biology)

विज्ञान एवं प्रौद्योगिकी मंत्रालय/ Ministry of Science and Technology

भारत सरकार/ Government of India

नई दिल्ली-110003/ New Delhi- 110003

Room No. 709, Block - 2, CGO Complex

Ph. No.: 011-24361559/ Intercom: 274

Valsamma Joseph. PhD

Professor & Director

National Centre for Aquatic Animal Health,

Cochin University of Science and Technology

Fine Arts Avenue

Kochi 682 016, Kerala/India
Phone (O)/FAX 91.484.2381120
E.mail-valsamma@cusat.ac.in
Mobile 9846047433
Website:www.ncaah.org

.....
"A university stands for humanism, for tolerance, for reason, for the adventure of ideas and for the search of truth. It stands for onward march of the human race towards ever higher objectives. If the Universities discharge their duties adequately, then it is well with the Nation and the People." Jawaharlal Nehru

--
Dr. Sanjeev C. Ghadi
Professor and Head
Department of Biotechnology,
Goa University,
Taleigao Plateau,
Goa 403 206
India.

Ph: 91-8669609242
: 91-0832-2451184

Disclaimer visit: <https://www.unigoa.ac.in/docs/disclaimer.html>.


Prof. Sanjeev Ghadi <saga@unigoa.ac.in>
To: ldcbiotech@gmail.com

Thu, Apr 15, 2021 at 1:07 PM

[Quoted text hidden]

2 attachments

 **CUSAT-PL(B).A2-1580-2021-DBT-BioinformaticsCentre -Implementation Order.pdf**
33K

 **Admin + Release Orders - CUSAT.pdf**
8299K

SPEED-Post/1040/12/9/

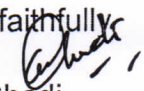
Dear Dr. Shahaj Ahmed,

I am sending two copies of the following proposal for

- 1) Establishment of Bioinformatics and Computational Biology Centres for genome bioprospecting of cultivable and non-cultivable marine bacteria and viruses". At Goa University [Ref. No. BI-70/197 (5)]
- 2) Component II from Goa University for NNP under "Establishment of Bioinformatics and Computational Biology Centre for Marine Bio-resource Conservation and Sustainable Utilization" with Prof Bright Singh as Coordinator [Tentative Ref. No. BI-71/198 (5)]

Thanking you,

Yours faithfully,


S. C. Ghadi
Professor and Head,
Department of Biotechnology
Goa University

19/9/19