

No. BT/PR26905/AAQ/3/883/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

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

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: "**Bioprospecting for Neuroprotective compounds from an endosymbiotic fungi *Aspergillus sp. MCCF102* isolated from a marine sponge as potential drug candidates against neurodegenerative disorders**" for a period of 3 Year 0 Month at a total cost of Rs. **5388600** (Rupees Fifty Three Lakhs Eighty Eight Thousand Six Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Bioprospecting for Neuroprotective compounds from an endosymbiotic fungi *Aspergillus sp. MCCF102* isolated from a marine sponge as potential drug candidates against neurodegenerative disorders"

2.2 Details of the Investigations:

Dr. Sajeevan T P

Assistant Professor in Marine
Biotechnology
National Centre for Aquatic Animal
Health
COCHIN UNIVERSITY OF SCIENCE &
TECHNOLOGY
National Centre for Aquatic Animal
Health
PB No.2341,
Cochin University of Science and
Technology
Fine Arts Avenue, Kochi, Ernakulam
or Kochi, Kerala, 682016

CO-PI:

Dr. Jackson James

Scientist-EII
Neurobiology Division
Rajiv Gandhi Centre For Biotechnology
Rajiv Gandhi Center for Biotechnology, Thycad
PO, Poojappura, Thiruvananthapuram, Kerala,
Trivandrum - 695014, Kerala

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MALANCHERY, PIN- 676 552
MALAPPURAM

Dr. Jisha VS

Assistant Professor
Department of Chemistry
MES Keveeyam College, Valanchery
Vandalloor, Valanchery, Kerala, Malappuram -
676552, Kerala

2.3 Objectives:

1. Evaluation of anti-neuroinflammatory activity of dipyrrolbenzoquinones isolated from *Aspergillus* sp.MCCF 102
2. Protein tyrosine phosphatases (PTPs) enzyme inhibitory activity of dipyrrolbenzoquinones derivatives from *Aspergillus* sp.MCCF 102
3. In vivo evaluation of anti-inflammatory and neuroprotective ability of lead compounds as potential therapeutics on suitable mouse model

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is **Rs. 5388600/-** (Rupees Fifty Three Lakhs Eighty Eight Thousand Six Hundred Only) as per details given below :

| Budget Head | Year I | Year II | Year III | Total(Rs.) |
|--------------------|-------------------|------------------|------------------|-------------------|
| Equipment | 2805000.00 | | | 2805000.00 |
| Manpower | 586800.00 | 586800.00 | 630000.00 | 1803600.00 |
| Contingency | 40000.00 | 40000.00 | 40000.00 | 120000.00 |
| Travel | 50000.00 | 50000.00 | 50000.00 | 150000.00 |
| Overhead | 20000.00 | 20000.00 | 20000.00 | 60000.00 |
| Consumables | 150000.00 | 150000.00 | 150000.00 | 450000.00 |
| Total (Rs.) | 3651800.00 | 846800.00 | 890000.00 | 5388600.00 |

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:



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| Demand No. 85 | Department of Biotechnology |
|-----------------------------|--|
| 3425 | Other Scientific Research 2018-2019 |
| 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. 85 | Department of Biotechnology |
|-----------------------------|--|
| 3425 | Other Scientific Research 2018-2019 |
| 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 other terms and conditions governing this sanction are attached at Annexure- III.

4.2A 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. A format of the MoA is enclosed in Annexure-IV

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 Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

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

6. The Registrar, COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, Cochin, 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.

7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-09/2012 dated on 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.



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8. 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.
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/4590/2018-2019** dated **February, 22 2019**.
11. This sanction order has been noted at serial no. _____ in the Register of Grants.

(Dr. S U Ahmed)
Scientist 'E'

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 , Cochin - 682022, Kerala
- 3 Dr. Jackson James, Scientist-EII, Neurobiology Division, Rajiv Gandhi Centre For Biotechnology, Rajiv Gandhi Center for Biotechnology, Thycaud PO, Poojappura, Thiruvananthapuram, Kerala, Trivandrum - 695014, Kerala
- 4 Dr. Jisha VS, Assistant Professor, Department of Chemistry, MES Keveeyam College, Valanchery, Vendalloor, Valanchery, Kerala, Malappuram - 676552, Kerala
- 5 Dr. Sajeevan T P, Assistant Professor in Marine Biotechnology, National Centre for Aquatic Animal Health, COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY, National Centre for Aquatic Animal Health PB No.2341, Cochin University of Science and Technology Fine Arts Avenue, Kochi, Ernakulam or Kochi - 682016, Kerala
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Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled
**"Bioprospecting for Neuroprotective compounds from an endosymbiotic fungi
Aspergillus sp. MCCF102 isolated from a marine sponge as potential drug candidates
against neurodegenerative disorders":**

| COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY | | | |
|---|-------------------------------------|-----|------------|
| SNo. | Name of Equipment | No. | Cost(Rs.) |
| 1. | Centrifugal Vacuum Concentrator | 1 | 1306000.00 |
| 2. | HPLC-with PhotoDiode array detector | 1 | 1499000.00 |
| Total | | | 2805000.00 |

(Dr. S U Ahmed)
Scientist 'E'

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Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled
**"Bioprospecting for Neuroprotective compounds from an endosymbiotic fungi
Aspergillus sp. MCCF102 isolated from a marine sponge as potential drug candidates
against neurodegenerative disorders":**

| Head | No. of Position | Year I | Year II | Year III | Total (Rs.) |
|--|-----------------|------------------|------------------|------------------|-------------------|
| Junior Research Fellow JRF (One) @Rs. 25,000/- pm + 20% HRA for 1st & 2nd year | 1 | 360000.00 | 360000.00 | | 720000.00 |
| Lab Assistant Laboratory Assistant (One) @Rs. 18,900/- pm | 1 | 226800.00 | 226800.00 | 226800.00 | 680400.00 |
| Senior Research Fellow SRF (One) @Rs. 28,000/- pm + 20% HRA for 3rd year | 1 | | | 403200.00 | 403200.00 |
| Total(Rs.) | | 586800.00 | 586800.00 | 630000.00 | 1803600.00 |

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-09/2012 dated 21.10.2014.

(Dr. S U Ahmed)
Scientist 'E'

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