

Administrative
(Application No: MED/2013/80)

File No. BT/517/NE/TBP/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER DIVISION)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 19/02/2014

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 under 'DBT's Twinning programme for the NE' titled "Molecular analysis of efflux pump mediated antibiotic resistance in Gram negative bacilli" by Dr. Amitabha Bhattacharjee, Assam University, Silchar, Assam, Dr. Anindya Sundar Ghosh, Indian Institute of Technology, Kharagpur, West Bengal and Dr. Debadatta Dhar (Chanda), Silchar Medical College and Hospital, Silchar at a total cost of ₹ 87.65 lakhs (Rupees Eighty Seven lakhs and Sixty Five Thousand only) for a period of three years, on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Molecular analysis of efflux pump mediated antibiotic resistance in Gram negative bacilli.

2.2 Project Investigators

2.2.1 Principal Investigator:
(Parent Institute) Dr. Amitabha Bhattacharjee
Assistant Professor,
Dept. of Microbiology,
Assam University, Silchar- 788011
Assam

2.2.2 Co-Investigator:
(Parent Institute) Dr. Piyush Pandey
Associate Professor,
Dept. of Microbiology,
Assam University, Silchar- 788011
Assam

2.2.3 Principal Investigator:
(Collaboration Institute I) Dr. Anindya Sundar Ghosh
Associate Professor
Dept. of Biotechnology,
Indian Institute of Technology, Kharagpur,
West Bengal-721302

2.2.4 Co-Investigator:
(Collaboration Institute I) Prof. Tanmaya Pathak
Professor,
Dept. of Chemistry,
Indian Institute of Technology, Kharagpur,
West Bengal-721302,

2.2.5 Principal Investigator: Dr. Debadatta Dhar (Chanda)
(Collaboration Institute II) Associate Professor,
Dept. of Microbiology,
Silchar Medical College and Hospital,
Silchar-788014

2.2.6 Co- Investigator: Dr. Atanu Chakravarty
(Collaboration Institute II) Assistant Professor,
Dept. of Microbiology,
Silchar Medical College and Hospital,
Silchar-788014

2.3 Objectives:

- i. Identification and characterization of the efflux pump positive isolates and assessment of other intrinsic and acquired resistance mechanism [AU, Silchar and SMC, Silchar].
- ii. Detection of coexistence of an acquired resistance mechanism [AU, Silchar].
- iii. Molecular characterization of efflux pumps proteins from *Escherichia* [IIT Kharagpur].

2.4 Time Schedule:

The duration of the project is three years from the date of issue of sanction order.

2.5 Equipment Details:

2.5.1 Assam University, Silchar

Sl. No.	Description of equipment	Grant Recommended (Rupees in lakhs)
1.	Real time PCR machine	15.00
2.	High speed refrigerated centrifuge with accessory rotor head	5.00
	Total	20.00

2.5.2 Indian Institute of Technology, Kharagpur, West Bengal

Sl. No.	Description of equipment	Grant Recommended (Rupees in lakhs)
1.	Cell disrupter (Sonicator)	4.00
2.	Refrigerated incubator shaker	6.00
	Total	10.00

2.5.2 Silchar Medical College and Hospital, Silchar

Sl. No.	Description of equipment	Grant Recommended (Rupees in lakhs)
1.	Incubator	0.40
2.	Autoclave	0.55
3	Refrigerator (2 nos)	0.40
	Total	1.35

Research Fellowship Conditions:
 JRF emoluments shall be ₹ 16,000/- + HRA for the 1st two years and ₹ 18,000/- + HRA for the 3rd year for SRF and applicable, only if JRF/SRF is NET/GATE/BET/BINC SLET/Professional course qualified, otherwise it shall be ₹ 12,000/- + HRA for the 1st two years for JRF and ₹ 14,000/- + HRA for the 3rd year for SRF.

2.6.1 Assam University, Silchar

(₹ in lakhs)						
S. No.	Position (No.)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	JRF/SRF (1)	JRF @ ₹ 16,000/- + 10 % HRA for the 1st & 2nd yr SRF @ ₹ 18,000/- + 10 % HRA for 3rd yr	2.11	2.11	2.38	6.60
Total			2.11	2.11	2.38	6.60

2.6.2 Indian Institute of Technology, Kharagpur, West Bengal

(₹ in lakhs)						
S. No.	Position (No.)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	JRF/SRF (1)	JRF @ ₹ 16,000/- + 10 % HRA for the 1st & 2nd yr SRF @ ₹ 18,000/- + 10 % HRA for 3rd yr	2.11	2.11	2.38	6.60
Total			2.11	2.11	2.38	6.60

2.6.3 Silchar Medical College and Hospital, Silchar

(₹ in lakhs)						
S No.	Position (No)	Emolument	1 st Year	2 nd Year	3 rd Year	Total
1.	Lab Attendant	@ ₹ 5,000/-	0.60	0.60	0.60	1.80
Total			0.60	0.60	0.60	1.80

2.7 Budget Estimate:

The total cost of the project is ₹ 87.65 lakhs (Rupees Eighty Seven lakhs and Sixty Five thousand only) as per budget summary given below:

2.7.1 Assam University, Silchar, Assam

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	20.00	0.00	0.00	20.00
Sub Total- I	20.00	0.00	0.00	20.00
II. Recurring				
1. Manpower	2.11	2.11	2.38	6.60
2. Consumables	6.00	6.00	5.00	17.00
3. Travel	0.50	0.50	0.50	1.50
4. Contingency	0.50	0.25	0.25	1.00
5. Overhead charges	0.75	0.40	0.35	1.50
Sub Total- II (1-5)	9.86	9.26	8.48	27.60
GRAND TOTAL (I+II)	29.86	9.26	8.48	47.60

2.7.2 Indian Institute of Technology, Kharagpur, West Bengal

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	10.00	0.00	0.00	10.00
Sub Total- I	10.00	0.00	0.00	10.00
II. Recurring				
1. Manpower	2.71	2.71	2.98	8.40
2. Consumables	6.00	3.00	2.00	11.00
3. Travel	0.30	0.30	0.40	1.00
4. Contingency	0.50	0.25	0.25	1.00
5. Overhead charges	0.50	0.25	0.25	1.00
Sub Total- II (1-5)	10.01	6.51	5.88	22.40
GRAND TOTAL (I+II)	20.01	6.51	5.88	32.40

2.7.3 Silchar Medical College and Hospital, Silchar

(₹ in lakhs)

Heads	1 st Year	2 nd Year	3 rd Year	Total
I. Non-Recurring (Equipment's and accessories)	1.35	0.00	0.00	1.35
Sub Total- I	1.35	0.00	0.00	1.35
II. Recurring				
1. Manpower	0.60	0.60	0.60	1.80
2. Consumables	1.00	1.00	0.50	2.50
3. Travel	0.30	0.30	0.40	1.00
4. Contingency	0.20	0.15	0.15	0.50
5. Overhead charges	0.20	0.15	0.15	0.50
Sub Total- II (1-5)	2.30	2.20	1.80	6.30
GRAND TOTAL (I+II)	3.65	2.20	1.80	7.65

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- (i) Grand total for 3 years $(47.60 + 32.40 + 7.65) = ₹ 87.65$ lakhs
(ii) Total for 1st year release $(29.86 + 20.01 + 3.65) = ₹ 53.52$ lakhs

2.8 Other Terms & Conditions:

2.8.1 The other terms and conditions governing this sanction are attached at Annexure-I.

2.8.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institute on a ₹ 100/- stamp paper in the format given at Annexure II and the subsequent releases will be made only after signing of MoA by the grantee institute and its acceptance by DBT. All pages need to be signed by the PI and the forwarding authority and the MoA returned to DBT within 30 days of issue of this letter.

2.8.3 The Non-recurring items must be procured and installed within 6 month period from the date of sanction.

2.8.4 In case the amount of grant-in-aid is refunded, the whole or a part amount of the grant, with an interest at 10% per annum there on shall be recovered.

2.8.5 No international travel will be undertaken from the sanctioned project grant unless specified otherwise.

2.8.6 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 treated as credited to the institute / Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Account.

2.9 Additional Terms & Conditions, specific for Twinning R&D program for NER:

2.9.1 Both NER & Rest of India (RoI), Institutions scientists should work together for the objectives stated in the sanction of the project and any deviation from this would attract closure of the project at any point of time.

2.9.2 In the project review meetings, both the PI's from NER & RoI Institutions should participate & make presentation.

2.9.3 The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.

2.9.4 The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.

2.9.5 The project personal such as Research Associate, JRF/SRF, Research Assistant are also to be trained at least once in the collaborating national institute.

2.9.6 The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.

VP

2.10 This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their Dy No. 102/I.F.D/SAN/2628-2643/ 2013-14 Dated 02/09/2013.

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2.10.1 This sanction order has been noted at Serial No..... in the Register of Grants.

2.10.2 The accounts of grantee institution shall be open to inspection by sanctioning auditory / audit.

3.0 M/S Biotech Consortium India Ltd (BCIL), Anuvrat Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002, is administrating the North Eastern Region Biotechnology Programme Management Cell (NER-BPMC) of the DBT.

Vaishali Panjabi

(Dr. Vaishali Panjabi)
Scientist 'C'

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110003

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, New Delhi - 110 002.
2. Cash Section, DBT (For information only).
3. Sanction Folder.
4. IFD, DBT.
5. The Registrar, Assam University, Silchar, Assam - 788011
6. The Vice-chancellor, Assam University, Silchar, Assam - 788011
7. The Registrar, Indian Institute of Technology, Kharagpur, West Bengal - 721302
8. The Principal, Silchar Medical College and Hospital, Silchar - 788014
9. Dr. Amitabha Bhattacharjee, Assistant Professor, Dept. of Microbiology, Assam University, Silchar- 788011, Assam.
10. Dr. Anindya Sundar Ghosh, Associate Professor, Dept. of Biotechnology, Indian Institute of Technology, Kharagpur, West Bengal-721302
11. Dr. Debadatta Dhar (Chanda), Associate Professor, Dept. of Microbiology, Silchar Medical, College and Hospital, Silchar-788014
12. Concern file.
13. The Managing Director, Biotech Consortium India Limited, (NER-BPMC), 5th Floor, Anuvart Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002.

Vaishali Panjabi

(Dr. Vaishali Panjabi)
Scientist 'C'