

No. BT/IN/Indo-US/Foldscope/39/2015

Government of India
Ministry of Science & Technology
Department of Biotechnology

Block No.2, 6-8th Floors,
CGO Complex, Lodi Road,
New Delhi - 110 003.
Dated: 20.03.2018

Admin Order

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the payment of **Rs.3120.00 Lakhs (Rupees Thirty One Crore Twenty Lakhs Only)** to Biotech Consortium India Limited (BCIL), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 towards the **"Towards disbursement of Micro grant for implementation of projects under the Foldscope scheme"** as per break-up given below:

(Rs. in Lakhs)						
Sr. No.	Item	Number of Schools/ Colleges/ Institute/ University	Total budget per School/ Colleges/Institute/ University	Total Budget	1 st Installment (75%of total budget)	2 nd Installment (25%of total budget)
I	NER Schools (Category-A)	33	4.00	132.00	98.00	34.00
II	Other Regions of India Schools (Category-A)	84	4.00	336.00	252.00	84.00
III	NER Colleges/Institute / Universities (Category-B)	81	8.00	648.00	486.00	162.00
IV	Other Regions of India Colleges/Institute / Universities (Category-B)	247	8.00	1976.00	1483.00	493.00
Total (A)				3092.00	2319.00	773.00
V	Budget for the Project Secretariat to BCIL (B)			28.00	28.00	0.00
Grand Total (A+B)				3120.00	2347.00	773.00*

*The second installment will be released after the review of technical & scientific progress report and submission of UC/SE after 6 months.

- The list of approved School/Colleges/Institute/ Universities of category A & B may be seen at Annexure-I to IV.

Annexure-IV

The following Universities/ Colleges/ Institutes have been shortlisted for funding under Category 'B':

Area: Biodiversity and conservation

Sl. No.	PI Name	Institute Name	City /State
1.	Nagarjun Vijay	Indian Institute of Science Education and Research	Bhopal, Madhya Pradesh
2.	Ishtapran Sahoo	Dayananda Sagar College of Engineering	Bangalore, Karnataka
3.	Dr. Arun K. Agrawal	Government Post Graduate College	Uttarkashi, Uttaranchal
4.	Dr. Jagdish Rai	Institute of Forensic Science and Criminology	Chandigarh, Punjab
5.	Dr. J. Pandiyan	A.V.C. College	Mayiladuthurai, Tamil Nadu
6.	Dr. K. M. Nitnaware	Hutatma Rajguru Mahavidyalaya	Rajgurunagar, Maharashtra
7.	Gurdeep Rastogi	Chilika Development Authority	Bhubaneswar, Odisha
8.	Mahima Jaini	Dakshin Foundation	Bangalore, Karnataka
9.	Dr. Sunita Gupta	Shivaji College	New Delhi
10.	Dr. Rahul K. Singh	HNB Garhwal University	Srinagar, Uttarakhand
11.	Dr. Mukund Ramakrishnan	IISER Berhampur	Berhampur, Odisha
12.	Dr. Hina F. Bhat	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K)	Alestang, Jammu & Kashmir
13.	Dr. K. Panneer Selvam	M.R. Government Arts College	Mannargudi, Tamil Nadu
14.	Ms. Uzma baig	St. Ann's College for Women	Hyderabad, Andhra Pradesh
15.	Dr. M. Johnson	St. Xavier's College	Palayamkottai, Tamil Nadu
16.	Dr. Mrs. Anupma Harshal	Kishinchand Chellaram College	Mumbai, Maharashtra
17.	Vikas Jha	National Facility for Biopharmaceuticals, Guru Nanak Khalsa College of Arts, Science & Commerce	Mumbai, Maharashtra
18.	Dr. Maya Murdeshwar	St. Xavier's College	Mumbai, Maharashtra
19.	Jaai Pandit	G.N.Khalsa College	Mumbai, Maharashtra
20.	Dr. D Sirisha	Jawaharlal Nehru Institute of Advanced Studies, JNU	Secunderabad, Telangana
21.	Mr. Nitin Wahi	GLA University	Mathura, Uttar Pradesh
22.	Akanksha Kulshreshtha	Netaji Subhash Institute of Technology	Dwarka, New Delhi
23.	Dr. Ekramul Islam	University of Kalyani	Kalyani, West Bengal
24.	Dr. Tushar H. Borse	Vidya Pratishthan's Arts Science and Commerce College	Pune, Maharashtra
25.	Piya Roy Choudhury	Karnatak Arts, Science, Commerce College	Bidar, Karnataka
26.	Dr. B. Christudhas Williams	William Research Centre	Nagercoil, Tamil Nadu
27.	Dr. M. Wasima	B. S. Abdur Rahman University	Chennai, Tamil Nadu
28.	Dr. S. B. Anand	Madurai Kamaraj University	Madurai, Tamil Nadu
29.	Dr. Gulab D. Khedkar	Dr. Babasaheb Ambedkar Marathwada University	Aurangabad, Maharashtra
30.	Shikha Jain	Manipal University	Jaipur, Rajasthan
31.	Dr. S. Sharmila	Vellalar College for Women	Erode, Tamil Nadu
32.	Dr. H. S. Sudhira	Gubbi Labs LLP	Gubbi, Karnataka
33.	Dr. Jyotsna Das	Alipurduar College	Alipurduar, West Bengal
34.	Dr. Dharmesh Harwani	Maharaja Ganga Singh University	Bikaner, Rajasthan
35.	Dr. V. Thangapandian	Ayya Nadar Janaki Ammal College	Sivakasi, Tamil Nadu
36.	Prof. G. Ayyappadasan	K.S.Rangasamy College of Technology	Tiruchengode, Tamil Nadu
37.	Dr. Jayateertha. R. Diwan	University of Agricultural Sciences	Raichur, Karnataka

Format for Complete progress report

DBT-Prakash Lab Foldscope Project (Category B)

(20th March 2018- 19th September 2019)

1. Name & address of the organization: Shivaji College, Raja Garden, New Delhi-110027
2. Name, designation contact details of the of the Coordinator including mobile and email Dr. Sunita Gupta, Assistant Professor, +91-9136303435 and sg.26sunita@gmail.com
3. Sanction order no. and date : BT/IN/INDO-US/FOLDSCOPE/39/2015 Total
budget sanctioned: Rs.800,000/-
4. Budget released by DBT: Rs.800,000/-
5. Title of the project: "To record the seasonal variation of Invertebrate biodiversity In Riparian zone of the Yamuna River in Delhi-NCR region by using foldscope as a research tool"
6. Project objectives highlighting proposed activity with foldscope: The objective of this project is to record the seasonal variation in the invertebrate biodiversity in riparian zone by using foldscope as research tool. For this, three Yamuna bank stretches were selected: i) a bank of high human Intervention [Bank1], ii) a bank of high Industrial affluent release[Bank2] and, iii) a bank of least human intervention[Bank3]. Each month, water and soil were collected [from the month of July'2018 to September'2019], from these three selected banks/ Riparian zone of Yamuna River. The soil and water thus collected was monitored for **physical parameters** like pH, dissolved oxygen, sulphate, nitrate, chloride levels by standard protocols. A correlation was made between these physical parameters and the Invertebrate Biodiversity. The turbidity of water at the banks was checked by secchi disk already available at college. For Arthropod soil extraction, a Berlese funnel trap will be used. Here the soil/ leaf litter around the shores of the river were placed at the top of the funnel and exposed to a lamp. As many of the soil-living arthropods negatively respond to heat therefore, they will collect at the base of the funnel. Arthropods will be observed with foldscope. Nematodes from the soil were be collected by standard procedure. Here, about 15-20 borings will be collected at a depth of 6-8 inches by a 'sharp shooter' shovel or soil probe/ tube. To get best sample, sampling will be done in a zig-zag fashion on the river bank. Soil will be kept moist and stored in a zip lock and within 2 days nematodes will be observed using foldscope. Each sample will be marked for the location and date. The Planktons in the river were observed by collecting the upper layer of Yamuna water and observing it on slide by foldscope. After collection, the organisms were be observed and classified as per their characteristics into phylum, class and order. A mobile phone was attached with the foldscope to record the pictures. A picture album for species recorded was organized. Species diversity in each month for all 3 Banks will be calculated by measuring Biodiversity Indices [Simpson's Index and Shannon weiner Index]. This helped to study relation between Biodiversity with physical parameters of the riparian zone at 3 selected locations of Yamuna bank in Delhi NCR. A series of workshops were organized by Project students and Project Investigators for students of nearby Govt. Schools at Shivaji College so that they learn to use

- foldscope and learn the biodiversity in waterbodies around them.
7. Summary of the Progress made & conclusions under the project (a technical write up not more than 200 words) Enclosed
 8. Major relevant pictures (colour) of images taken during use of Foldscope (please post only relevant pictures below) Enclosed
 - Pictures of images (Pollen/ microbes/ tissues etc.) observed using foldscope (please post pictures with description, place, date and time) Enclosed
 - Workshop pictures : Enclosed
 - Number of workshops conducted: 7
 - Number of students trained : 100
 - Types of activities carried out using foldscope: (Enclosed with pictures) Other than workshops, a competitive semester-long internship was conducted for the students of University of Delhi.
 9. Any specific new leads/observations made: Yes / No, If yes, details thereof: Yes, Enclosed
 10. Whether registered under <https://microcosmos.foldscope.com>: Yes
 11. Number of pictures/videos posted on <https://microcosmos.foldscope.com>: 50

Name of the Project Investigators

Dr.Sunita Gupta, Ms.Nimita Kant and

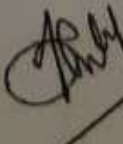
Dr.Parul Kulshreshtha

Name of the Head of the institution/Principal/Director/Registrar

DR.SHASHI NIJHAWAN

(Signature & Stamp)

Principal
Shivaji College
(University of Delhi)
New Delhi-110027


29/01/2020
CENTRE FOR CONSERVATION AND ENVIRONMENTAL
Anuvrat Ekawan, 5th Floor,
210, Deendayal Upadhyaya Marg,
New Delhi-110002

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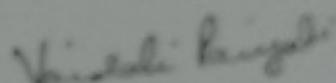
- The list of approved School/Colleges/Institute/ Universities of category A & B may be seen at Annexure-I to IV.

3. The budget details for awardees under category 'A' and category 'B', and the budget breakup of Project Secretariat to BCIL, may be seen at Annexure- V.
4. The budget for Item-I [NER (Schools)] and Item-III [NER (Colleges/Institute/ University)] will be debitable by the NER budget head.
5. The budget for Item-II (Other Regions of India Schools), IV (Other Regions of India Colleges/Institute/ Universities) & V (Project Secretariat to BCIL, Detailed Budget for Category A &B) will be debitable from Biotechnology Research and Development (R&D) head.
6. The Foldscope and Micro grants shall be disbursed to the Schools, Colleges and Universities by the NER-BPMC/BCIL as per the Annexure-I to V.
7. **Time Schedule:** The duration of the project is 1 Year 0 Month from the date of this sanction order.
8. The expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2017-2018
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

9. The other terms and conditions governing this sanction are attached at Annexure- VI.
10. 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 by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release.
11. 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 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.
12. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
13. The Managing Director, Biotech Consortium India Limited (BCIL), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 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.

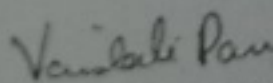
14. As per Rule 236 (1) of GFR 2017, the accounts of all Grants Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(IGP) Act 1971 and internal audit by the Principal Accounts Officer of the Ministry or Department, whenever the Institution or Organization is called upon to do so.
15. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest thereon as per Govt. of India shall be recovered.
16. As per Ministry of Finance OM. No. C-1301504yMF CGA/PFMS/Misc/2014-15/2095-2327 dated 03.03.2015 all transaction involving cash component has to be made through Public Financial Management System (PFMS) w.e. 01.04.2015 to each beneficiaries.
17. UC/SE must show all the heads as per the sanction order.
18. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their SAN. No. 102/TFD/SAN/4849/2017-18 dated 16.03.2018.
19. This sanction order has been noted at Serial No. _____ in the Register of Grants.


(Vaishali Panjabi)
Scientist 'D'

To,
The Pay & Accounts Officer
Department of Biotechnology
Ministry of Science & Technology
Lodhi Road, New Delhi-110 003

Copy to:-

1. The Principal Director of Audit (Scientific Departments), AGCR Building, New Delhi-110002.
2. The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016.
3. Cash Section, DBT. (2 copies).
4. IFD, DBT.
5. The Managing Director, Biotech Consortium India Limited (BCIL), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002
6. Sanction Folder.
7. US (IFD) to re-appropriate the budget for Item -I & III from the NER Budget.


(Vaishali Panjabi)
Scientist 'D'

Budget Details for Awardees under the Category 'A' (Educational and Training Tool):

The budget of Rs. 4.00 lakhs will be provided with the following breakup:

S.No.	Items	Amount (Rs. in lakhs)
1.	Consumables	1.00
2.	Travel	2.50
3.	Contingency	0.50
	TOTAL	4.00

Each school will be twinned with a North East school

Budget Details for Awardees under the Category 'B' (Research Tool):

The budget of Rs. 8.00 lakhs will be provided with the following breakup:

S.No.	Items	Amount (Rs. in lakhs)
1.	Consumables	2.00
2.	Travel	2.00
3.	Contingency	1.00
4.	Manpower (1 JRF @ 25,000/- p.m.)	3.00
	TOTAL	8.00

Budget for the Project Secretariat:-

Sl. No.	Item	Amount (Rs. in lakhs)
1	Hiring Finance Officer (Inos.) @ Rs. 45,000/-pm	5.40
2	Hiring of Programme Officer (Ino.) @Rs. 35,000/- pm	4.20
3	Overhead Charges for management of the Scheme	18.40
	Total	28.00

Roles and Responsibilities of the Project Secretariat:-

- Manage disbursement of funds to the 4454 applications, maintenance of accounts for disbursed amount, financial check and balances, monitor progress of the proposals.
- Telephone/ courier/photocopy etc. (Communication with PIs, photocopies of UC/SE formats, large number of mailers etc).
- Cost towards travel of the NERBPMC/BCIL team for organizing workshops.
- Courier of Foldscopes to the applicants.
- Customs clearance of the Foldscope consignment.
- Assist DBT in organising workshops

Sanita