

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978 for the implementation of the Joint Research Project titled "**Development of a hand held molecular point-of care test device for infectious diseases**" under DBT-IC-Impacts, Canada second joint call for proposals on "Portable Diagnostics and Analyzers" with Indian investigators as detailed in Para 2.2. Indian components of the project is sanctioned at a total cost of **Rs. 312.13 lakhs (Rupees three crore twelve lakhs and thirteen thousand only)** for a period of 2 years on the terms and conditions as detailed here under:

2.0 The Project :

2.1 Project Title : "Development of a hand held molecular point-of care test device for infectious diseases".

2.2 Investigators :

2.2.1 Indian Institutions:

2.2.1.A. University of Delhi, Delhi

Prof Daman Saluja, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi -PI & Coordinator

2.2.1.B. Indian Institute of Technology, Mandi

Dr. Rajanish Giri, Assistant Professor, School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh- PI.

2.2.2. Canadian Institutions:

McMaster University

Prof. James Mahony, Pathology & Molecular Medicine, McMaster University.

2.3 Project Objectives:

- i. Designing and standardization of an easy protocol for collection and isolation of DNA from sputum with minimum steps which can be automated and its evaluation using standard method.
- ii. Transfer of the DNA isolation and LAMP protocol designed by laboratory of PI on the hand held diagnostic tool designed by the laboratory of Prof Mahony (Canada).
- iii. Clinical evaluation of the automated LAMP assay so designed and its comparison with Genexpert method will be carries out using a large pool of samples at each site.
- iv. Finalization of storage conditions for DNA and other reagents and transfer of the DNA isolation and LAMP protocol on the hand held diagnostic tool designed by the laboratory of Prof Manony.

2.4 Time Schedule: The duration of the project is two years from the date of release of grant.

2.5 Equipment's: The details of the equipment's sanctioned for the implementation of the project are given at Annexure I.

2.7 Manpower: The details of the manpower sanctioned for the implementation of the project are given at Annexure II.

2.8 Project Cost: The estimated cost for the Indian component of the project for three years is as under:

2.8.1. Non-recurring cost:

2.8.1.A. University of Delhi, Delhi

S. No.	Item	Year I	Year II	Total
	Equipment's*	47.00	--	47.00
	Total	47.00	--	47.00

2.8.1.B. IIT, Mandi

S. No.	Item	Year I	Year II	Total
	Equipment's*	22.50	--	22.50
	Total	22.50	--	22.50

Total amount of Non-recurring grant (2.8.1.A + 2.8.1.B) = Rs. 47.0+22.50 lakhs=Rs. 69.50 lakhs

2.8.2. Recurring:

2.8.2.A. University of Delhi, Delhi

(Rs. in lakhs)

S. No.	Items	Year I	Year II	Total
1.	Consumables	52.50	52.50	105.00
2.	Manpower	16.44	16.44	32.88
3.	Travel			
3.1	Domestic	1.00	1.50	2.50
3.2	International	1.00	2.50	3.50
3.3	Local hospitality	2.00	3.00	5.00
	Total Travel	4.00	7.00	11.00
4.	Contingency	5.00	5.00	10.00
5.	Overhead	4.00	4.00	8.00
	Total B (1+2+3+4+5)	81.94	84.94	166.88

2.8.2.B. IIT, Mandi

S. No.	Items	Year I	Year II	Total
1.	Consumables	22.50	22.50	45.00
2.	Manpower	9.00	9.00	18.00
3.	Travel			
3.1	Domestic	1.25	2.00	3.25
3.2	International	--	1.50	1.50
3.3	Local hospitality	--	1.00	1.00
	Total Travel	1.25	4.50	5.75
4.	Contingency	2.00	2.00	4.00
5.	Outsourcing and services (knowledge mobilization and technology transfer)	--	1.00	1.00
6.	Overhead	1.00	1.00	2.00
	Total B (1+2+3+4+5+6)	35.75	40.00	75.75

Total amount of recurring grant (2.8.2.A + 2.8.2.B) = Rs. 166.88+75.75 lakhs=Rs. 242.63 lakhs

Total Budget of the project (2.8.1+2.8.2)= Rs. 69.50 lakhs + Rs. 242.63 lakhs= Rs. 312.13 lakhs

*Travel budget would include:

1. The international travel cost of one visit of the PI and the fellow in the project to Canadian partner.
2. The local hospitality towards the two visits from the Canadian side to the Indian laboratory.

**Payment of emoluments to the research personnel engaged under this project will be made in accordance with the Department of Science and Technology's O.M. No. SR/S9/Z-09/2012 dated 21.10.2014.

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2.9 The expenditure is debit to:

2.9.1. Non-recurring expenditure

Demand No.85	:	Department of Biotechnology
3425	:	Other Scientific Research (Major Head)
60	:	Others (Sub Major Head)
60.200	:	Assistance to other scientific bodies
60.200.29	:	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
60.200.29.17	:	Assistance For Research and Development
60.200.29.17.35	:	Grant for creation of capital assets 2017-18

2.9.2. Recurring expenditure is debit to:

Demand No.85	:	Department of Biotechnology
3425	:	Other Scientific Research (Major Head)
60	:	Others (Sub Major Head)
60.200	:	Assistance to other scientific bodies
60.200.29	:	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
60.200.29.17	:	Assistance For Research and Development
60.200.29.17.31	:	Grant in aid General 2017-18

3. Other Terms and Conditions: The other terms and conditions governing this sanction are attached at Annexure III.

3.1 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. A format of the MOA is enclosed in Annexure-IV.

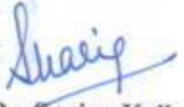
3.2 The Institute/ Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the Institute/ Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

4. Any transfer of material would be regulated as per the guidelines and necessary clearances from MOEF and with a Material Transfer agreement signed between the two collaborating institutes.

5. As per Rule 236(1) of GFR 2017, Audit of accounts- The account of 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 Account Office of the Ministry or Department, whenever the institution or Organization is called upon to do so.



6. **Institution is required to furnish separate UC/SE in respect of recurring and non-recurring grant.**
7. **Institution shall furnish a certificate that no UC/SE is pending for the central grants. Grants are subject to release on furnishing of the certificate.**
8. In case the whole or a part of the amount of the grant-in-aid is being refunded, as an interest at the rate of ten per cent per annum thereon shall be recovered.
9. Institute shall submit UC for the financial year on PFMS portal
10. This issues under the powers delegated to this Department and with the concurrence of IFD vide their Dy. No. 102/IFD/SAN/842/2017-2018 dated 2.06.2017.
11. This sanction order has been noted at Serial No. 47 in the Register of Grants.



(Dr. Sanjay Kalia)
Scientist 'D'

To

The Pay & Accounts Officer
Department of Biotechnology
C.G.O. Complex, Lodhi Road
New Delhi-110 003

Copy to:

1. The Principal Director of Audit (Scientific Departments), IP Estate, AGCR Building, New Delhi-2.
2. Cash Section, DBT (2 copies)
3. IFD, DBT.
4. Prof Daman Saluja, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi.
5. Registrar, University of Delhi, Delhi.
6. Dr. Rajanish Giri, Assistant Professor, School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh
7. Registrar, Indian Institute of Technology, Mandi, Himachal Pradesh.
8. Sanction folder.
9. File.


(Dr. Sanjay Kalia)
Scientist 'D'

Details of the Equipment sanctioned for the implementation of the project titled “Development of a hand held molecular point-of care test device for infectious diseases”.

EQUIPMENT**University of Delhi, Delhi**

S. No.	Name of Equipment's	Qty	Approved cost in Rs. (lakhs)
1.	Gene Xpert Machine	01	14.00
2.	Refrigerated Centrifuge	01	5.00
3.	Deep Freezer	01	6.00
4.	PCR Machine	01	5.00
5.	Elisa Reader	01	12.00
6.	Misc equipments (microfuge, qubit for nucleic acid estimation, refrigerator, small routine laboratory)	-	05.00
TOTAL			47.00

IIT, Mandi

S. No	Name of Equipment's	Qty	Approved cost in Rs. (lakhs)
1.	Biosafety cabinet of BSL2 level	01	5.50
2.	Centrifuge, refrigerated, 230 V/50-60 Hz	01	5.00
3.	Dry Bath	01	1.20
4.	Minor Equipments:		
	a. SPINIX- Vortex Shaker	01	0.09
	b. Magnetic stirrer/heating	01	0.20
	c. pH meter	01	0.35
	d. Weighing Balance-Kern 572	01	0.50
	e. Agarose Gel Electrophoresis unit (Subcell GT cell)	01	1.20
	f. Microwave	01	0.08
	g. Air Curtain	01	0.18
	h. UV Trans illuminator	01	0.65
	i. Ultrasonic bath	01	1.50
	j. Autoclave	01	1.00
	k. Finnpiptetter F1 GLP Kits	01	0.60
	l. Finnpiptetter F2 GLP Kits	01	0.35
	m. PCR- Rotor- CODE 1042	01	0.10
	n. PCR- Mastercycler nexus gradient 230 V/50-60 18,500.00 Hz	01	4.00
Total			22.50

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Details of the Manpower sanctioned for the implementation of the project titled "Development of a hand held molecular point-of care test device for infectious diseases".

Manpower-**University of Delhi, Delhi**

S. No.	Positions	No.	Emoluments for two years (Rs. in lakhs)
1.	JRF (2) @ Rs. 25,000/- pm + 30% HRA)	2	15.60
2.	Research Assistant (1) (@ Rs.40,000/- p.m. + 30% HRA)	1	12.48
3.	Project Assistant (1) @ Rs. 20,000/- p.m. (Fixed)	1	4.80
Total		4	32.88

IIT, Mandi

S. No.	Positions	No.	Emoluments for two years (Rs. in lakhs)
1.	JRF (2) (@ Rs. 25,000/- p.m. + 10% HRA)	2	13.20
2.	Project Assistant (1) @ Rs. 20,000/- p.m. (Fixed)	1	4.80
Total			18.00

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BT/IN/IC- IMPACTS/21/DS/2016-17
Ministry of Science & Technology
Department of Biotechnology
Government of India

Block 2, 8th Floor
CGO Complex, Lodhi Road
New Delhi 110 003
Dated: 02 June, 2017

ORDER

In continuation of this Department's sanction order of even number dated 02 June, 2017. Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Power Rules, 1978 for the release of **Rs. 69.50 lakhs (Rupees sixty nine lakhs and fifty thousand only)** being the release towards the **Non-Recurring head** for the Indian component of the joint project titled "**Development of a hand held molecular point-of care test device for infectious diseases**" with Indian investigators as per the break up given below as per the break up given in para 2 below:

2. Details of release under Non- Recurring Head:

2.1. University of Delhi, Delhi

(Rs. in lakhs)

S. No.	Item	Year I
1.	Equipment's	47.00
Total		47.00

2.2. IIT, Mandi

(Rs. in lakhs)

S. No.	Item	Year I
1.	Equipment's	22.50
Total		22.50

Total amount of Non-recurring grant (2.1+2.2) = Rs. 47.00 lakhs + Rs. 22.50 lakhs = Rs. 69.50 lakhs

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

4. The amount of **Rs. 69.50 lakhs (Rupees sixty nine lakhs and fifty thousand only)** will be drawn by the DDO, DBT from PAO, DBT and will be disbursed to the following through RTGS as per details given below:

4.1. **Amount of Rs. 47.00 lakhs (Rupees forty seven lakhs only)** to the Director, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi as per the following details:

Name of the Bank	:	State Bank of India, University of Delhi
Bank A/c No.	:	10851298264
IFSC Code	:	SBIN0001067
MICR Code	:	110002030

4.2. **Amount of Rs. 22.50 lakhs (Rupees twenty two lakhs and fifty thousand only)** to the Registrar, Indian Institute of Technology, Mandi as per the following details:

Name of the Bank	:	Punjab National Bank, IIT Kamand, Mandi
Bank A/c No.	:	0311000100958570
IFSC Code	:	PUNB0731500
MICR Code	:	000024000

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5. The expenditure involved is debit to:

Demand No.85	:	Department of Biotechnology
3425	:	Other Scientific Research (Major Head)
60	:	Others (Sub Major Head)
60.200	:	Assistance to other scientific bodies
60.200.29	:	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
60.200.29.17	:	Assistance For Research and Development
60.200.29.17.35	:	Grant for creation of capital assets 2017-18.

6. In case the sanctioned amount for disbursement under this sanction is not received within 15 days from the date of issue of the sanction, you may intimate the fact, with details of the IFD Diary No. & date to the Joint Secretary and Financial Adviser at the e-mail address fin.adv.dst.dbt@gmail.com for looking in to the matter and resolving it.

7. **This is first release of the project so no UC/SE is pending with the project.**

8. As per Rule 236(1) of GFR 2017, Audit of accounts- The account of 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 Account Office of the Ministry or Department, whenever the institution or Organization is called upon to do so.

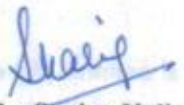
9. In case the whole or a part of the amount of the grant-in-aid is being refunded, as an interest at the rate of ten per cent per annum thereon shall be recovered.

10. **Non-recurring grant is to be utilized within 18 months of sanction.**

11. Institute shall submit UC for the financial year on PFMS portal.

12. This issues under the powers delegated to this Department with the concurrence of IFD, DBT vide their Dy. No. 102/IFD/SAN/844/2017-2018 dated 2.06.2017

13. This sanction order has been entered at Serial No. 49 in the register of grants.



(Dr. Sanjay Kalia)
Scientist 'D'

To

The Pay & Accounts Officer
Department of Biotechnology
C.G.O. Complex, Lodhi Road
New Delhi-110 003

Copy to:

1. The Principal Director of Audit (Scientific Departments), IP Estate, AGCR Building, New Delhi-2.
2. Cash Section, DBT (2 copies)
3. IFD, DBT.
4. Prof Daman Saluja, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi.
5. Registrar, University of Delhi, Delhi.
6. Dr. Rajanish Giri, Assistant Professor, School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh
7. Registrar, Indian Institute of Technology, Mandi, Himachal Pradesh.
8. Sanction folder.
9. File


(Dr. Sanjay Kalia)
Scientist 'D'

BT/IN/IC- IMPACTS/21/DS/2016-17
 Ministry of Science & Technology
 Department of Biotechnology
 Government of India

Block 2, 8th Floor
 CGO Complex, Lodhi Road
 New Delhi 110 003
 Dated: 02 June, 2017

ORDER

In continuation of this Department's sanction order of even number dated 02 June, 2017. Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Power Rules, 1978 for the release of **Rs. 117.69 lakhs (Rupees one crore seventeen lakhs and sixty nine thousand only)** being the 1st release towards the **Recurring head** for the Indian component of the joint project titled "**Development of a hand held molecular point-of-care test device for infectious diseases**" with Indian investigators as per the break up given below as per the break up given in para 2 below:

2. Details of release under Recurring Head:

2.1. University of Delhi, Delhi

(Rs. in lakhs)

S. No.	Head	Year I
1.	Consumables	52.50
2.	Manpower	16.44
3.	Travel	
3.1	Domestic	1.00
3.2	International	1.00
3.3	Local hospitality	2.00
Total Travel		4.00
4.	Contingency	5.00
5.	Overhead	4.00
Total B (1+2+3+4+5)		81.94

2.2. IIT, Mandi

(Rs. in lakhs)

S. No.	Head	Year I
1.	Consumables	22.50
2.	Manpower	9.00
3.	Travel	
3.1	Domestic	1.25
3.2	International	--
3.3	Local hospitality	--
Total Travel		1.25
4.	Contingency	2.00
5.	Outsourcing and services (knowledge mobilization and technology transfer)	--
6.	Overhead	1.00
Total B (1+2+3+4+5+6)		35.75

Total amount of Recurring grant (2.1+2.2) = Rs. 81.94 lakhs + Rs.35.75 = Rs. 117.69 lakhs

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

4. The amount of **Rs. 117.69 lakhs (Rupees one crore seventeen lakhs and sixty nine thousand only)** will be drawn by the DDO, DBT from PAO, DBT and will be disbursed to to the following through RTGS as per details given below:

4.1. **Amount of Rs. 81.94 lakhs (Rupees eighty one lakhs and ninety four thousand only)** to the Director, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi as per the following details:

Name of the Bank	:	State Bank of India, University of Delhi
Bank A/c No.	:	10851298264
IFSC Code	:	SBIN0001067
MICR Code	:	110002030

4.2. **Amount of Rs. 35.75 lakhs (Rupees Thirty five lakhs and seventy five thousand only)** to the Registrar, Indian Institute of Technology, Mandi as per the following details:

Name of the Bank	:	Punjab National Bank, IIT Kamand, Mandi
Bank A/c No.	:	0311000100958570
IFSC Code	:	PUNB0731500
MICR Code	:	000024000

5. The expenditure involved is debit to:

Demand No.85	:	Department of Biotechnology
3425	:	Other Scientific Research (Major Head)
60	:	Others (Sub Major Head)
60.200	:	Assistance to other scientific bodies
60.200.29	:	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
60.200.29.17	:	Assistance For Research and Development
60.200.29.17.31	:	Grant in aid General 2017-18.

6. In case the sanctioned amount for disbursement under this sanction is not received within 15 days from the date of issue of the sanction, you may intimate the fact, with details of the IFD Diary No. & date to the Joint Secretary and Financial Adviser at the e-mail address fin.adv.dst.dbt@gmail.com for looking in to the matter and resolving it.

7. **This is first release of the project so no UC/SE is pending with the project.**

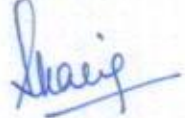
8. As per Rule 236(1) of GFR 2017, Audit of accounts- The account of Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Account Office of the Ministry or Department, whenever the institution or Organization is called upon to do so.

9. In case the whole or a part of the amount of the grant-in-aid is being refunded, as an interest at the rate of ten per cent per annum thereon shall be recovered.

10. Institute shall submit UC for the financial year on PFMS portal.

11. This issues under the powers delegated to this Department with the concurrence of IFD, DBT vide their Dy. 102/IFD/SAN/843/2017-2018 dated 2.06.2017

12. This sanction order has been entered at Serial No. **48** in the register of grants.


(Dr. Sanjay Kalia)

To

The Pay & Accounts Officer
Department of Biotechnology
C.G.O. Complex, Lodhi Road
New Delhi-110 003

Copy to:

1. The Principal Director of Audit (Scientific Departments), IP Estate, AGCR Building, New Delhi-2.
2. Cash Section, DBT (2 copies)
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4. Prof Daman Saluja, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi.
5. Registrar, University of Delhi, Delhi.
6. Dr. Rajanish Giri, Assistant Professor, School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh
7. Registrar, Indian Institute of Technology, Mandi, Himachal Pradesh.
8. Sanction folder.
9. File

(Dr. Sanjay Kalia)
Scientist 'D'