

No. BT/PR8297/BRB/10/1233/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 29/07/2016

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: "**Screening for male infertility markers in the human Yq12 heterochromatic block**" for a period of 3 Year 0 Month at a total cost of Rs. **6451000** (Rupees Sixty Four Lakhs Fifty One Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Screening for male infertility markers in the human Yq12 heterochromatic block"

2.2 Details of the Investigators:

Project Coordinator

Dr. Rachel A Jesudasan

Scientist-F

Repeat Biology

Centre For Cellular And Molecular Biology

Uppal Road, Habsiguda, Hyderabad, Andhra Pradesh, 500007

Principal Investigators:

Dr. Ashwin Dalal

Staff Scientist V

Diagnostics Division

Centre For DNA Fingerprinting and Diagnostics

Block No. 7, 5-4-399/B, Gruhakalpa Complex, Nampally,

Hyderabad, Andhra Pradesh, 500001

Dr. Rachel A Jesudasan

Scientist-F

Repeat Biology

Centre For Cellular And Molecular Biology

Uppal Road, Habsiguda, Hyderabad, Andhra Pradesh, 500007

Dr. Suttur S Malini

Assistant Professor

Department of studies in Zoology

University of Mysore

Manasagangothri, Mysore, Mysore, Karnataka, 570006

CO-PI:

Dr. Usha R Dutta

Technical Officer II

Diagnostics Division

Centre For DNA Fingerprinting and Diagnostics

2.3 Objectives:

Institute wise Objectives:

Centre For Cellular And Molecular Biology

1. Does the copy number of DYZ1 sequences differ in normal fertile individuals?
2. Does the copy number of DYZ1 sequences vary significantly compared in subfertile/infertile individuals compared to normal individuals?
3. Can blood be analyzed from corresponding individuals for assessing significance of Yq12 region in infertility?
4. Should markers from this region be added to the panel of Y-chromosome probes for testing of the Y prior to assisted reproduction?

Centre For DNA Fingerprinting and Diagnostics

1. Can blood be analyzed from corresponding individuals for assessing significance of Yq12 region in infertility?
2. Does the human Y-heterochromatin block have any bearing on infertility?
3. Does the copy number of DYZ1 repeats affect the sperm count or morphology?
4. If yes, can markers be developed for ICSI-based Y-chromosomal testing from the region?
5. Is blood as good a sample as semen for Y-marker analysis?
6. Does the copy number of DYZ1 sequences differ in normal fertile individuals?
7. Does the copy number of DYZ1 sequences vary significantly compared in subfertile/infertile individuals compared to normal individuals?
8. Can blood be analyzed from corresponding individuals for assessing significance of Yq12 region in infertility?
9. Should markers from this region be added to the panel of Y-chromosome probes for testing of the Y prior to assisted reproduction?

University of Mysore

1. Does the copy number of DYZ1 sequences differ in normal fertile individuals?
2. Does the copy number of DYZ1 sequences vary significantly compared in subfertile/infertile individuals compared to normal individuals?
3. Can blood be analyzed from corresponding individuals for assessing significance of Yq12 region in infertility?
4. Should markers from this region be added to the panel of Y-chromosome probes for testing of the Y prior to assisted reproduction?

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. **6451000/-** (Rupees Sixty Four Lakhs Fifty One Thousand Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Centre For Cellular And Molecular Biology	1135000	740000	630000	2505000
2. Centre For DNA Fingerprinting and Diagnostics	1050000	-900000	790000	2740000
3. University of Mysore	734000	250000	222000	1206000
Total (Rs.)	2919000	1890000	1642000	6451000

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Centre For DNA Fingerprinting and Diagnostics				
Manpower	360000.00	360000.00	360000.00	1080000.00
Travel	20000.00	20000.00	20000.00	60000.00
Consumables	650000.00	500000.00	400000.00	1550000.00
Contingency	20000.00	20000.00	10000.00	50000.00
Total (Rs.)	1050000.00	900000.00	790000.00	2740000.00
2. Centre For Cellular And Molecular Biology				
Equipment	195000.00			195000.00
Manpower	360000.00	360000.00	360000.00	1080000.00
Overhead	50000.00	50000.00	50000.00	150000.00
Travel	20000.00	20000.00	10000.00	50000.00
Consumables	500000.00	300000.00	200000.00	1000000.00
Contingency	10000.00	10000.00	10000.00	30000.00
Total (Rs.)	1135000.00	740000.00	630000.00	2505000.00
3. University of Mysore				
Equipment	428000.00			428000.00
Manpower	180000.00	180000.00	180000.00	540000.00
Overhead	30000.00	20000.00	20000.00	70000.00
Travel	20000.00	20000.00	10000.00	50000.00
Consumables	66000.00	20000.00	7000.00	93000.00
Contingency	10000.00	10000.00	5000.00	25000.00
Total (Rs.)	734000.00	250000.00	222000.00	1206000.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at _____wise.

Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at _____wise.

Annexure-II

3. Head of Account:

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

Demand No. 79	Department of Biotechnology
3425	Other Scientific Research 2016-2017
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. 79	Department of Biotechnology
3425	Other Scientific Research 2016-2017
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:

A. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten percent per annum thereon shall be recovered. B. Non-Recurring grant shall be utilized within 18 month of their release.

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

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 by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory 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.

International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

The Director, Centre For Cellular And Molecular Biology, Hyderabad, Andhra Pradesh and The Director, Centre For DNA Fingerprinting and Diagnostics, Hyderabad, Andhra Pradesh and The Finance Officer, University of Mysore, Mysore, Karnataka 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.

8. The accounts of grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so by the sanctioning authority.

9. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/1194/2016-2017** dated **June, 21 2016**.

10. This sanction order has been noted at serial no. 101 in the Register of Grants.



(Dr. Manish Rana)
Scientist 'D'