

**No. BT/PR4704/MED/12/539/2012**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 28 / 05 / 2012

**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 "**Sperm telomere length analysis and its correlation with oxidative stress and DNA damage in infertile men**" for a period of 3 Year 0 Month at a total cost of Rs. **3659600** (Rupees Thirty Six Lakhs Fifty Nine thousand Six Hundred Only) on the terms and conditions detailed here under:-

**Project :**

**1. Title :** "Sperm telomere length analysis and its correlation with oxidative stress and DNA damage in infertile men"

**2. Project Investigator :**

**Dr. Rima Dada**

PI  
Anatomy  
All India Institute Of Medical Sciences  
Ansari Nagar New Delhi-110029, -  
110029, Delhi

**CO-PI:**

**Prof. Suneeta Mittal**

Prof and Head  
Obstetrics and Gynaecology  
All India Institute Of Medical Sciences  
Dept of Obstetrics and Gynaecology, AIIMS, New Delhi, -  
110029, Delhi

**Dr. Rajeev Kumar**

Additional Prof  
Urology  
All India Institute Of Medical Sciences  
Dept of Urology,  
AIIMS, New delhi, - 110029, Delhi

**Objectives:**

1. Assess the relationship between oxidative stress, DNA damage and telomere length in men with nonobstructive-azoospermia and oligozoospermia. This will be achieved by:  
1) Analyzing semen for standard semen parameters according to WHO 2010 guidelines  
2) To measure reactive oxygen species (ROS) levels by chemiluminescence assay.  
3) To analyze the ratio of telomere length in infertile subjects and controls using Real time PCR.
2. Assess the relationship between oxidative stress, DNA damage and telomere length in men with nonobstructive-azoospermia and oligozoospermia. This will be achieved by: 1) Analyzing semen for standard semen parameters according to WHO 2010 guidelines 2) To measure reactive oxygen species (ROS) levels by chemiluminescence assay. 3) To analyze the ratio of telomere length in infertile subjects and controls using Real time PCR.

**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. **3659600/-** (Rupees Thirty Six Lakhs Fifty Nine Thousand Six Hundred Only) as per details given below :

Budget Head	Year I	Year II	Year III	Total (Rs.)
Equipment	440000.00			<b>440000.00</b>
Manpower	343200.00	343200.00	343200.00	<b>1029600.00</b>
Overhead	50000.00	25000.00	25000.00	<b>100000.00</b>
Travel		15000.00	15000.00	<b>30000.00</b>
Consumables	800000.00	600000.00	600000.00	<b>2000000.00</b>
Contingency	20000.00	20000.00	20000.00	<b>60000.00</b>
<b>Total (Rs.)</b>	<b>1653200.00</b>	<b>1003200.00</b>	<b>1003200.00</b>	<b>3659600.00</b>

## 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:

Demand No. 87	Department of Biotechnology
<b>3425</b>	Other Scientific Research 2012-2013
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Research & Development
<b>3425.60.200.29.04</b>	Medical Biotechnology and Related Areas
<b>3425.60.200.29.04.35</b>	Grants for creation of capital assets

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

Demand No. 87	Department of Biotechnology
<b>3425</b>	Other Scientific Research 2012-2013
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Research & Development
<b>3425.60.200.29.04</b>	Medical Biotechnology and Related Areas
<b>3425.60.200.29.04.31</b>	Grants in Aid General

## 4. Terms & Conditions:

(i) The Equipment sanction under the project should be purchased within 18 months from the date of release of the grant. (ii) 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 per cent per annum thereon shall be recovered. The other terms and condition governing the financial sanction will remain unaltered.

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 a credit to the Institute/ Agency and shall be adjusted towards further instalment of the grant and/or at the time of Final Settlement of Accounts.

- 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.
5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Director, All India Institute Of Medical Sciences, New Delhi, Delhi would be responsible for submission of Statements of Expenditure (S/E) and consolidated utilization certificates (U/Cs) to DBT from PIs in respect of grants released against this sanction order from time to time.
7. 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.
8. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/905/2012-2013** dated **May, 24 2012**.
9. This sanction order has been noted at serial no. 28 in the Register of Grants.



**Dr. T S Rao**  
(Adviser/Scientist 'G')

**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 Director, All India Institute Of Medical Sciences, Ansari Nagar, New Delhi - 110029, Delhi
- 3 Dr. Rajeev Kumar, Additional Prof, Urology, All India Institute Of Medical Sciences, Dept of Urology, AIIMS, New delhi, - 110029, Delhi
- 4 Dr. Rima Dada, PI, Anatomy, All India Institute Of Medical Sciences, Ansari Nagar New Delhi-110029, - 110029, Delhi
- 5 Prof. Suneeta Mittal, Prof and Head, Obstretics and Gynaecology, All India Institute Of Medical Sciences, Dept of Obstretics and Gynaecology, AIIMS, New Delhi, - 110029, Delhi
- 6 Cash Section, DBT (2 copies).
- 7 Sanction Folder.
- 8 File Copy.

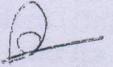


**Dr. T S Rao**  
**(Adviser/Scientist 'G')**

## Annexure -I

Details of the Equipment sanctioned for the implementation of the project titled "**Sperm telomere length analysis and its correlation with oxidative stress and DNA damage in infertile men**":

All India Institute Of Medical Sciences			
SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Eppendorf Vacuum Concentrator	1	440000.00
Total			440000.00



Dr. T S Rao  
(Adviser/Scientist 'G')

Transaction ID for the above equipment of 4.40 lakh

ID. - SAA 285-40074

Date 1 June 12

**Annexure -II**

Details of the manpower sanctioned for the implementation of the project titled "**Sperm telomere length analysis and its correlation with oxidative stress and DNA damage in infertile men**":

Head	No. of Postion	Year I	Year II	Year III	Total (Rs.)
Research Associate Research Associate-I	1	343200.00	343200.00	343200.00	<b>1029600.00</b>
<b>Total(Rs.)</b>		<b>343200.00</b>	<b>343200.00</b>	<b>343200.00</b>	<b>1029600.00</b>

Revised emoluments shall be payable only if educational qualification or eligibility criteria as per DST OM No. A.20020/11/97-IFD dated 31.03.2010, are met by the research personnel.

  
**Dr. T S Rao**  
**(Adviser/Scientist 'G')**

*Handwritten notes in blue ink:*  
15004205 AA2 - 01  
11/03/2010