



# UNIVERSITY OF DELHI DELHI - 110007

Prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012/ 917  
July 03, 2012

**Subject:** Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.

Dear Dr. Shrivastava,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

- |    |   |   |                |
|----|---|---|----------------|
| 1. | Consumables   | - | Rs. 2,00,000/- |
| 2. | Maintenance of Lab equipment<br>& Purchase of minor equipment | - | Rs. 50,000/-   |

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

Dr. Anju Shrivastava  
Department of Zoology  
University of Delhi  
Delhi-110007





UNIVERSITY OF DELHI  
DELHI – 110007

Prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012/ 91  
July 03, 2012

**Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.**

Dear Prof. Chaturvedi,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

1.	Biochemicals	-	Rs. 1,70,000/-
2.	Glass-ware & plastic-wares	-	Rs. 10,000/-
3.	Contingency	-	Rs. 40,000/-
4.	Minor equipment/Repair of equipment-	-	Rs. 15,000/-
5.	Maintenance	-	Rs. 15,000/-

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

Prof. Madan M. Chaturvedi  
Department of Zoology  
University of Delhi  
Delhi-110007



Dean(R)/R&D/2012/ 91  
July 03, 2012

**Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.**

Dear Dr. Agrawal,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

- |    |                         |   |                |
|----|-------------------------|---|----------------|
| 1. | Consumables & Chemicals | - | Rs. 2,00,000/- |
| 2. | Minor equipments        | - | Rs. 50,000/-   |

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

  
(AJAY KUMAR)

Dr. Namita Agrawal  
Department of Zoology  
University of Delhi  
Delhi-110007





UNIVERSITY OF DELHI  
DELHI – 110007

prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012/91  
July 03, 2012

**Subject:** Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.

Dear Prof. Sehgal,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

1.	Chemicals, glassware, kits, reagents etc.	-	Rs. 1,75,000/-
2.	Minor equipment	-	Rs. 25,000/-
3.	Contingency	-	Rs. 50,000/-

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

Prof. Neeta Sehgal  
Department of Zoology  
University of Delhi  
Delhi-110007





# UNIVERSITY OF DELHI

## DELHI – 110007

Prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012/91  
July 03, 2012

**Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.**

Dear Dr. Seth,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

1.	Consumables	-	Rs. 1,00,000/-
2.	Contingency	-	Rs. 50,000/-
3.	Maintenance of Lab, Travel, Software	-	Rs. 50,000/-
4.	Minor equipment	-	Rs. 50,000/-

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

Dr. R. K. Seth  
Department of Zoology  
University of Delhi  
Delhi-110007



Dean(R)/R&D/2012  
July 03, 2012

Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.

Dear Dr. Raman,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 1,75,000/- under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. The Following budget is sanctioned:

1	Consumables	-	Rs. 75,000/-
2	Maintenance of equipment	-	Rs. 25,000/-
3	Contingency	-	Rs. 25,000/-
4	Buying small equipment	-	Rs. 50,000/-

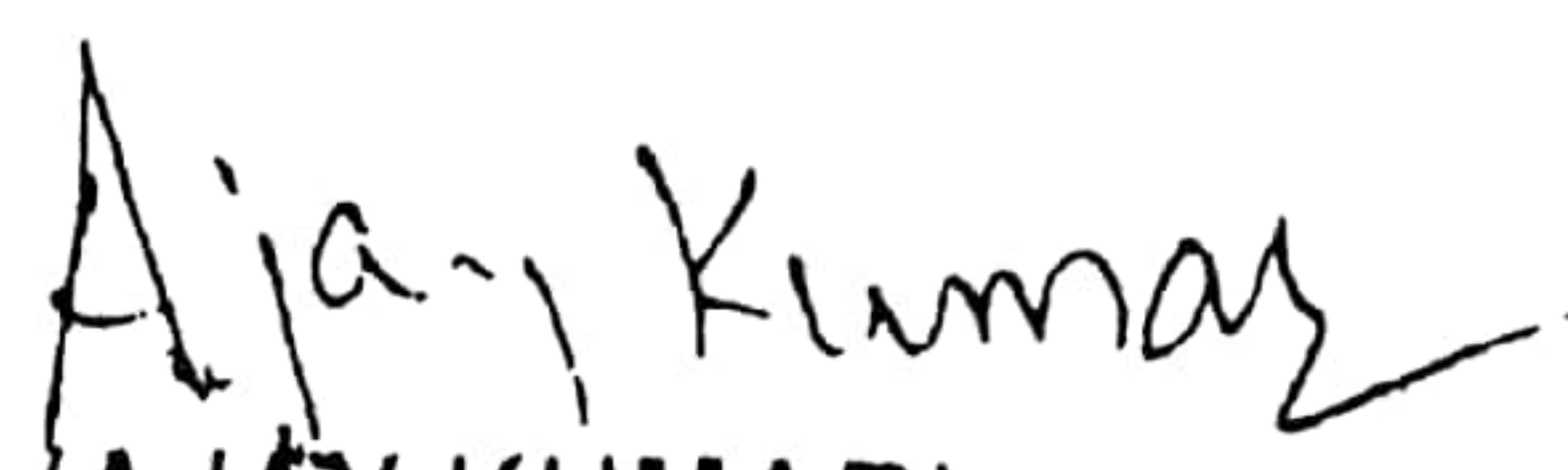
It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

  
(AJAY KUMAR)





# UNIVERSITY OF DELHI DELHI - 110007

Prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012  
July 03 2012

Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.

Dear Prof. Lal,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 2,50,000/- under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

1	Consumables	-	Rs. 1,10,000/-
2	Small Equipment	-	Rs. 45,000/-
3	Maintenance	-	Rs. 40,000/-
4	Travel for research related work	-	Rs. 25,000/-
5	Contingency	-	Rs. 30,000/-

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

Prof. Rup Lal  
Department of Zoology  
University of Delhi





**UNIVERSITY OF DELHI**  
**DELHI – 110007**

**Prof. Dr. Ajay Kumar**  
**Dean Research**

Dean(R)/R&D/2012/9  
July 03, 2012

**Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.**

Dear Dr. Mazumder,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

- |    |             |   |                |
|----|-------------|---|----------------|
| 1. | Consumables | - | Rs. 2,00,000/- |
| 2. | Contingency | - | Rs. 50,000/-   |

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

**Dr. Shibnath Mazumder**  
**Department of Zoology**  
**University of Delhi**  
**Delhi-110007**





# UNIVERSITY OF DELHI

## DELHI – 110007

Prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012/917  
July 03, 2012

**Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.**

Dear Dr. Modak,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 1,50,000/- under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. The following budget is sanctioned:

- |    |                          |                |
|----|--------------------------|----------------|
| 1. | Chemicals & Consumables- | Rs. 1,00,000/- |
| 2. | Minor equipment          | - Rs. 20,000/- |
| 3. | Contingency              | - Rs. 30,000/- |

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

  
(AJAY KUMAR)

Dr. Sharmila Basu-Modak  
Department of Zoology  
University of Delhi  
Delhi-110007





Prof. Dr. Ajay Kumar  
Dean Research

# UNIVERSITY OF DELHI

## DELHI – 110007

Dean(R)/P&D/2012/917  
July 03, 2012

**Subject:** Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.

Dear Prof. Rai,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 2,50,000/- under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

- |    |             |   |                |
|----|-------------|---|----------------|
| 1. | Consumables | - | Rs. 2,00,000/- |
| 2. | Animals     | - | Rs. 20,000/-   |
| 3. | Contingency | - | Rs. 30,000/-   |

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

  
(AJAY KUMAR)

Prof. Umesh Rai  
Department of Zoology  
University of Delhi  
Delhi-110007





# UNIVERSITY OF DELHI

## DELHI – 110007

Prof. Dr. Ajay Kumar  
Dean Research

Dean(R)/R&D/2012/ 917  
July 03, 2012

**Subject: Scheme to strengthen R & D Doctoral Research Programme by providing funds to University Faculty.**

Dear Prof. Kumar,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2,50,000/-** under the above mentioned scheme. You are requested to utilize the funds as per the norms given on the website of Delhi University. Please note that the funds need to be spent latest by **February 15, 2013** and the bills need to be sent to the Finance Branch latest by **March 1, 2013**. You can spend this grant as per the budget proposed by you which is as follows:

- |   |   |                |
|---|---|----------------|
| 1. Chemicals                                | - | Rs. 1,50,000/- |
| 2. Purchase/maintenance of small equipments | - | Rs. 60,000/-   |
| 3. Contingency, consumables, software       | - | Rs. 40,000/-   |

It is in our best interest, if we can adhere to the above mentioned dates so that my office can work more efficiently in the future. The next round of funding would only be considered after my office receives utilization certificate of these funds and a budget proposal by **April 25, 2013**.

Looking forward to your cooperation.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*Ajay Kumar*  
(AJAY KUMAR)

Prof. Vinod Kumar .  
Department of Zoology  
University of Delhi  
Delhi-110007





Telegram ScienceTech  
 26962819, 26567373  
 26562134, 26562122 (IPBAX)  
 26569908, 26864570,  
 26863847, 26862418

भारत सरकार  
 विज्ञान और प्रौद्योगिकी मंत्रालय  
 विज्ञान और प्रौद्योगिकी विभाग  
 टेक्नोलॉजी भवन, मेहरौली मार्ग  
 नई दिल्ली-110016

GOVERNMENT OF INDIA  
 MINISTRY OF SCIENCE AND TECHNOLOGY  
 DEPARTMENT OF SCIENCE AND TECHNOLOGY  
 TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD  
 NEW DELHI-110016

No. INT/SWISS/ISJRP/PEP/P-05/2012

Dated: 10-09-2012

### ORDER

Sanction of the President is hereby accorded for implementation of the Indo-Swiss PEP joint research project entitled "Mining LinA and LinB variants for the development of enzymatic bioremediation of hexachlorocyclohexane" at a total cost of Rs. 6,56,000/- (Rupees Six Lac Fifty Six Thousand Only). The duration of the project shall be 2 years from date of issue of this sanction order. Requests for extension of the project beyond this validity shall NOT be considered in any case.

2. The composition of the project team is as below:

Indian side	Swiss side
i.) Dr. Rup Lal, Molecular Biology lab, Department of Zoology, University of Delhi, New Delhi- 110007 ii.) Ms. Neha Niharika, M.Sc. iii.) Ms. Jasvinder Kaur, M.Sc.	i.) Dr. Hans Peter E. Kohler, EAWAG, Überlandstrasse 133, 8600 Dübendorf

3. The change/ replacement of project participants is not allowed. The participating scientists should be working on the project and affiliated with the Institute/University holding the indicated position at the time of start of the project as well as at the time of exchange visits under the project. The expenditure related to approve visits of participating scientists, as mentioned above, only can be met from the project grant.

4. The break-up of estimated expenditure is as indicated below and no re-appropriation shall be allowed under this project:-

Headings	Estimated expenditure(s)		
	1 <sup>st</sup> year (2 visits) (30&90 days)	2 <sup>nd</sup> year (2 visits) (30&90 days)	Total (4 visits)
<b>1. Expenses for Indian scientists to visit Switzerland under the project</b>			
(i) International air-fare (by IATA excursion/ economy class by shortest route) including surface travel from place of work in India to place of work in Switzerland & back; Visa charges etc @ Rs. 60000/- per visit	1,20,000/-	1,20,000/-	2,40,000/-
<b>2. Expenses for Swiss scientists to visit India under the project</b>			
(i) Accommodation charges @ Rs. 1000/- per day	1,04,000/-	1,04,000/-	2,08,000/-
(ii) Per-diem charges @ Rs. 1000/- per day	1,04,000/-	1,04,000/-	2,08,000/-
<b>Total</b>	<b>3,28,000/-</b>	<b>3,28,000/-</b>	<b>6,56,000/-</b>

(Rupees Six Lac Fifty Six Thousand Only)

Contd. p/2



GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

General Secretary  
Department of Biotechnology  
New Delhi  
Date: 21/03/2012

ORDER

Sanction of the President is hereby accorded, under Rule 10 of the Government Financial Powers Rules, 1978, for the implementation of the project entitled "Understanding Genome Organization and Gene Expression in Response to Different Hexachlorocyclohexane (HCH) Isomers in HCH Degrading Bacteria and the HCH Dumpsite" for a period of 3 year 0 Month at a total cost of Rs. 30574000 (Rupees: Three Crores Five Lakhs Seventy Four Thousand Only) in the year 2012-13. Details are under:-

The Project :

1.1 Title : "Understanding Genome Organization and Gene Expression in Response to Different Hexachlorocyclohexane (HCH) Isomers in HCH Degrading Bacteria and the HCH Dumpsite"

1.2 Project Investigator :

Prof. Rup Lal

Professor

Department of Zoology

University of Delhi

North Campus, Delhi -

110007, Delhi

Prof. Prashant S. Phale

Professor

Biosciences and Bioengineering

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Powai, Mumbai -

400076, Maharashtra

Prof. J P Khurana

Professor

Interdisciplinary Centre for Plant Genomics

Delhi University, South Campus

Department of Plant Molecular Biology, New Delhi -

110021, Delhi

Prof. Dayananda Siddavaram

Professor

Department of Animal Sciences

University of Hyderabad

School of Sciences, Hyderabad -

500046, Andhra Pradesh



IR/SO/LU-02/2005-B(G)  
Science & Engineering Research Board  
(SERB)

Technology Bhavan  
New Mehrauli Road  
New Delhi – 110016.  
Dated: 15-12-2011.

**ORDER**

**SUBJECT:** Financial Assistance for the bifurcated research project entitled, "IRHPA Centre for excellence in Biological rhythm research: (Avian Circadian and seasonal system: A study from behaviour to molecules)", at University of Delhi under the guidance of (P.I.) Dr.VinodKumar IR/SO/LU-02/2005-B, and at Lucknow University under the guidance of (Co. P.I.) Dr.Sangeeta Rani IR/SO/LU-02/2005-A.

**–Regarding Release of funds to Delhi University Component)**

1. In partial modification to this Department of Science and Technology (DST)'s sanction order of even number dated 22-03-2006 and 15-10-2009, sanction of **Science and Engineering Research Board (SERB)** is hereby accorded for extension of duration of the project for a period of two years ending on 31-12-2013 with additional allocation of Rs. 23,54,288/- to Delhi University component and additional allocation of Rs.18,50,414/- to Lucknow University Component there by increasing the total cost by Rs.42,04702/- from Rs. 3,09,49,940 /- to Rs. 3,51,54,642/- as indicated below:-

**1.A) University of Delhi Component- (IR/SO/LU-02/2005-B) PI. Prof.Vinod Kumar**

		(Amount in Rs )
Sl. No	Head	Total
3.	Equipment	3000000
2.	Manpower:	3638600
3.	Consumables	2115628
4.	Travel	975000
5.	Contingencies	350000
6.	Others	1200000
7.	Overhead Charges	1100000
<b>Total cost of Delhi University component of the project</b>		<b>12379228</b>

**1.B) Lucknow University Component- (IR/SO/LU-02/2005-A) (Co- PI. Prof. Sangeeta Rani)**

		(Amount in Rs )
Sl. No	Head	Total
1.	Equipment	10500000
2.	Manpower:	4046002
3.	Consumables	2800000
4.	Travel	725000
5.	Contingencies	600414
6.	Others	3700000
7.	Overhead Charges	900000
<b>Total cost of Lucknow University component of the project</b>		<b>22775414</b>

**GRAND TOTAL (1.A)+(1.B) = Rs.3,61,98,011/-**

The Sanction of the **Science and Engineering Research Board (SERB)** is accorded to the payment of a sum of **Rs. 20,00,000/- (Rupees twenty lakhs only)**, to the **Registrar, Delhi University**, Delhi-110007 and to carry forward unspent balance of Rs. 27,76,534/- from the previous financial year to the current financial year 2011-2012.



1 - 1

DBT/INDBT CREST Award/16/05/2011-12  
Ministry of Science & Technology  
Department of Biotechnology  
Government of India

Block No. 2, 6<sup>th</sup> Floor  
CGO Complex, 12th Road  
New Delhi - 110 003  
Dated 08<sup>th</sup> May, 2012

**ORDER**

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978, towards DBT-CREST (formerly known as Biotechnology Overseas Associateship) for the year 2011-12 to Dr. Rita Singh, Associate Professor, Department of Zoology, University of Delhi, Delhi-110 007. The total amount of award money is Rs. 21, 00,000/- (Rupees Twenty one lakhs only) as per details in Para 5 below.

2. **Title of study:** The molecular mechanism of breast cancer initiation and metastasis.
3. **Host PI and Institution:** Dr. Rexford S. Ahima, MD, PhD, Associate Professor of Medicine, 12-104 Translational Research Center, 3400 Civic Center Boulevard, Bldg. 421, Perelman School of Medicine, Philadelphia, PA 19104-5160, USA.
4. **Period of award:** the period of award will be 12 months.
5. **Amount of award:** the total amount of award money is detailed as under:

S. No.	Head	Total	Total in INR equivalent @ IUSS=Rs. 50.0/-*
a.	Fellowship @ US\$ 3000/- pm for 12 months	US\$ 36000/-	18,00,000/-*
b.	Preparatory allowance	1,00,000/-	1,00,000/-
c.	Travel costs	2,00,000/-	2,00,000/-
Total			Rs. 21,00,000/-

\*Exact amount may be calculated on the prevailing rate of US\$ on the date of release of fellowship amount to the associate.

**6. Head of the account:**

The expenditure involved is debitable to

Demand No.87	:	Department of Biotechnology
3425	:	Other Scientific Research (Major Head)
60	:	Others (Sub Major Head)
60.798	:	International Cooperation
03	:	International Bilateral Programme & SAC Overseas
03.00	:	International Bilateral Programme & SAC Overseas
03.00.31	:	Grants-in-aid General during the year 2012-2013 (Plan)

*Singh*





REGISTERED

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH  
EXTRAMURAL RESEARCH DIVISION  
CSIR COMPLEX X, PUSA, NEW DELHI - 110 012

No. 37(1528)/12/EMR-II

Dated : 02/04/2012

From : Head, Human Resources Development Group

To

DR KAMBADUR MURALIDHAR  
DEPT OF ZOOLOGY  
DELHI UNIV  
DELHI 110007 DELHI

Subject : Grants-in-aid for your scheme entitled : STRUCTURE-FUNCTION RELATIONSHIP IN PREGNANT MARE SERUM GONADOTROPINS (PMSG)

Sir,

I am directed to refer to your proposal for sanction of CSIR Scheme titled above and to convey the approval of DG CSIR as per the details given below.

I	Duration of the Scheme (from the date of Commencement)	36 Months		
II	Staff	1-RA <i>JRF/SRF</i>		
III	Contingency (per annum in ₹)	1 <sup>st</sup> Year : 5,00,000	2 <sup>nd</sup> Year : 5,00,000	3 <sup>rd</sup> Year : 5,00,000
IV	Equipment (lumpsum in ₹)	12,50,000		

- The above sanction is subject to review of periodical progress of the project by expert committee.
- DG CSIR has also approved the release of the following grants for the period 01/04/2012 to 31/03/2013

No	Grants	Amount (in ₹)
I	Staff	2,64,000
II	Contingency	5,00,000
III	Equipment	12,50,000
Total :		20,14,000

- Sanction of grants is subject to strict compliance of the terms and conditions enclosed or as may be modified from time to time. Please go through the instructions carefully with regard to subsequent release of grants and your obligations under this sanction. The grant for the 1<sup>st</sup> installment will be sent through RBI - EFT (Electronic Funds Transfer), to the concerned authority of your institution on receipt of your joining report, undertaking (form-A), non-funding certificate and EFT Transaction Request Form and claim bill.

The expenditure is debitable to budget head P81102.

Yours faithfully,

*[Signature]*  
SECTION OFFICER (EMR-II)

Encl : As above

Copy to :-

- Registrar/~~Principal~~/Director, *Delhi Univ., Delhi - 110007 Delhi*  
alongwith a cheque No. \_\_\_\_\_ dated \_\_\_\_\_ for  
Rs \_\_\_\_\_ representing first year's grant for the above scheme. The utilisation of grant is  
subject to compliance of para-1 of the terms and conditions stated overleaf.
- Sr F&AO(EMR) alongwith FVC for first year's grant.





INDIAN COUNCIL OF AGRICULTURAL RESEARCH

**ALL INDIA NETWORK PROJECT ON SOIL BIODIVERSITY-BIOFERTILIZERS**

INDIAN INSTITUTE OF SOIL SCIENCE  
Nabi Bagh, Berasia Road, Bhopal-462 038, India

Dr.D.L.N.Rao, FNAAS, FISSS  
Project Coordinator

Tel: 0755-2736846 (O) 2625547 (R)  
Fax: 0755-2733310  
E-mail: dln\_rao@rediffmail.com

To

**SPEED POST**

Dr. Rup Lal,  
Professor,  
Department of Zoology,  
University of Delhi,  
Delhi-110 007

IISS/NBF/ XI-B/09  
Dated: 29.08.2009

Dear Dr. Rup Lal,

As desired, I am again sending you the sanction of the Indian Council of Agricultural Research approving your university as a network center in the "All India Network Project on Soil Biodiversity- Biofertilizers" in the XI plan vide office memo no.12-4/2007-IA II dated 6 Feb 2009 from Undersecretary, NRM, ICAR. I am also enclosing again a copy of the technical programme. I shall send you the details regarding soil samplings at the earliest. In the budget table of sanction letter of which I am enclosing a xerox copy, you can see in the footnote that one SRF has been sanctioned for your centre which is shown with asterisk against the budget amount of Rs. 19.40 Lakhs for recurring contingency. The wages of the SRF are to be paid from recurring contingency as per ICAR rules.

With kind regards

(D.L.N.Rao)



**SR/SO/AS-24/2011**  
**SCIENCE & ENGINEERING RESEARCH BOARD (SERB)**  
(A statutory body under the Department of Science & Technology, Govt. of India)

Technology Bhawan  
New Mehrauli Road  
New Delhi - 110016

Date: 04-06-2012

**ORDER**

**Subject:** Financial Sanction of the research project entitled "Isolating the natural existing hexachlorocyclohexane dehydrochlorinase (Lin A) & haloalkane dehalogenase (Lin B) variants from hexachlorocyclohexane (HCH) contaminated dumpsite by using metagenomic approach." under the guidance of Prof. Rup Lal, Molecular Biology laboratory, Department of Zoology, University of Delhi, Delhi-110 007. Email: ruplal@gmail.com

Sanction of the Science & Engineering Research Board (SERB), is hereby accorded to the above-mentioned project at a total cost of Rs.33,01,000/- (Rupees Thirty three lakh one thousand only) with break-up of Rs.11,71,000/- under Capital head and Rs.21,30,000/- under General head for a duration of three years. The items of expenditure for which the total allocation of Rs.33,01,000/- has been approved for a period of three years, are given below:

Sl. NO	Head	(Amount in Rs.)
		Total
<b>A</b>	<b>Non-recurring (Capital Items)</b>	
1.	<b>Equipment</b> a) Flash evaporator b) Gradient PCR	
A'	Total Capital	11,71,000/-
<b>B</b>	<b>Recurring Items (General)</b>	
1.	<b>General - A</b> (i) Manpower; (ii) Consumables; (iii) Travel (also include cost for two monitoring meetings); (iv) Contingencies	16,30,000/-
2.	<b>General - B</b> <b>Overhead Charges</b> (including maintenance of equipments)	5,00,000/-
B'	Total (General)	21,30,000/-
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>33,01,000/-</b>

2. Sanction of the Science & Engineering Research Board (SERB), is also accorded to the payment of Rs.11,71,000/- under 'Grants for creation of capital assets' and Rs.7,00,000/- under 'Grants-in-aid General' to The Registrar, University of Delhi, Delhi-110 007 being the grant for the year 2012-13 for implementation of the said research project

3. The expenditure involved is debitable to

**Grant-in-aid for the year 2012-13 (plan expenditure- Capital) - Rs.11,71,000/-**  
**& Grant-in-aid for the year 2012-13 (plan expenditure- General) - Rs.7,00,000/-**  
This release is made under "Science & Engineering"

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. SERB/F/1327/2012-2013 dated: 31/05/2012

5. Sanction of the grant is subject to the conditions as detailed in Annexure - I.

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

Contd.2/-





भारतीय कृषि अनुसन्धान परिषद  
राष्ट्रीय कृषि नवोन्मेषी परियोजना  
परियोजना कार्यान्वयन इकाई



कृषि अनुसन्धान भवन पूसा नई दिल्ली-110 012  
INDIAN COUNCIL OF AGRICULTURAL RESEARCH  
NATIONAL AGRICULTURAL INNOVATION PROJECT  
PROJECT IMPLEMENTATION UNIT  
KAB-II, Pusa, NEW DELHI - 110 012

Dr. A. Bandyopadhyay  
National Coordinator

File No. NAIP/Comp-4/C-3006/2008-09  
Date: 08.01.2010

To  
The Vice Chancellor,  
University of Delhi  
Delhi 110007.

Sub: Revised award of the project entitled, "Studies on the ecology and taxonomy of whitefly *Bemisia tabaci* in India, its symbiosis with various obligate and facultative bacterial symbionts" to be operated under consortium mode under the Component 4 of the National Agricultural Innovation Project (NAIP)

Sir,

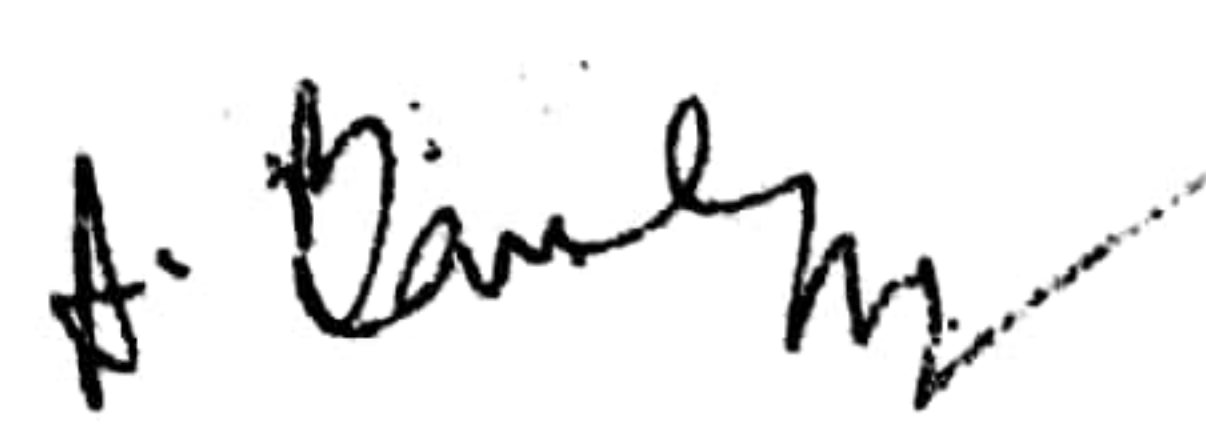
This is in continuation of our letter NAIP/Comp-4/C-3006/2008-09 dated 7<sup>th</sup> April 2009 awarding the above-cited project. You had requested additional funds for the purchase of the equipment "motorized microscope with digital spectral imaging and software for image analysis" in view of the appreciation of the Japanese Yen vs Indian Rupee exchange value. The sanctioned budget for the equipment was Rs. 83.5 lakhs for an estimated Yen price of JPY 22702702/- which now amounts to Rs. 120.65 lakhs.

I have now been directed to convey that the additional amount of Rs. 36.65 lakhs has approved in 27<sup>th</sup> RPC (dated 24<sup>th</sup> December, 2009) to the University of Delhi and issue a revised sanction letter of the project entitled, "Studies on the ecology and taxonomy of whitefly *Bemisia tabaci* in India, its symbiosis with various obligate and facultative bacterial symbionts" under the Component 4 (Basic and Strategic Research in the Frontier Areas of Agricultural Sciences) of the World Bank funded, National Agricultural Innovation Project (NAIP). All other items and conditions for the sub-project, Consortium Leader and Partners will remain as detailed in on letter no. NAIP/Comp-4/C-3006/2008-09 dated 07.04.09.

This issue with the approval of the competent authority.

Thanking you,

Yours faithfully,

  
(A. Bandyopadhyay)



BT/PR-12522/BCE/08/05/2009  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block-2, 6-8th Floors,  
CGO Complex, Lodi Road,  
New Delhi - 110 003

Dated: 18.01.2011

**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 "**Diversity of nitrogen metabolizing bacteria based on *nifH*, *narG* and *amo A* genes**" Submitted by **Dr. Dileep Kumar Singh**, Department of Zoology, University of Delhi, Delhi for the financial support at the total cost of **Rs. 42.43 lakhs** (Rupees Forty Two Lakhs and Forty Three Thousands only) for the period of Three years on the terms and conditions detailed here under.

**2.0 The Project:**

**2.1 Project Title:** "**Diversity of nitrogen metabolizing bacteria based on *nifH*, *narG* and *amo A* genes**"

**2.2 Investigator:**

**Name of PI:** **Dr. Dileep Kumar Singh**, Associate Professor, Pesticide Toxicology Laboratory, Department of Zoology, University of Delhi, Delhi - 110007.

**2.3 Objectives:-**

- i. Diversity of bacteria participating in nitrogen metabolism using *nifH*, *narG* and *amo A* genes from multiple locations in presence/absence of different crops.
- ii. Temporal and topological diversity of nitrogen metabolizing bacteria.
- iii. Biological, chemical and soil environmental stress on their diversity and distribution.
- iv. Conservation of nitrogen metabolizing microbial population in their niche using suitable amendments.

**2.4 Time Schedule:**

The duration of the project is 3 year from the date of this sanction order.

**2.5 Equipment:** The details of the equipment sanctioned for the project are given at Annexure-I.

Contd.....2/-





भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
बायोटेक्नोलॉजी विभाग  
ब्लॉक-2, 7 वां तल, सी० जी० ओ० कम्प्लेक्स  
लोदी रोड, नई दिल्ली-110003

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
Block-2, 7th Floor C.G.O. Complex  
Lodi Road, New Delhi-110003  
Dated : 02.02.2011

Dr. Arun Kumar Rawat  
Joint Director  
Phone : 011-24363656 (O)  
email : akrawat.dbt@nic.in

BT/PR14644/AAQ/01/448/2010

Dear Prof. Rai/ Dr. Majumdar

I am pleased to convey the approval of this Department for the project entitled "A comparative study of testicular genes expressed during summer (regression) and winter (active phase) in wall lizard to identify gene(s) associated with onset of spermatogenesis, and functional genomic studies using transgenic mouse model to find their importance in animal virility". Please find enclosed sanction order of ₹ 29.08 lakhs (₹ 20.38 lakhs for University of Delhi, Delhi + ₹ 8.70 lakhs for NII, New Delhi) and release of first installment of ₹ 7.10 lakhs for University of Delhi, Delhi and ₹ 2.90 lakhs for NII, New Delhi respectively along with other formats required to be furnished to this Department from time to time.

You are requested to go through the terms and conditions carefully and the date of sanction of the project is the starting date of the project. The first release of grant is being made with a condition that the **Memorandum of Agreement** (copy enclosed and any change in the content is not allowed as it has been vetted by the Min. of Law and Justice, Govt. of India), separately for each institute, in Rs.100/- stamp paper, would be signed by the concerned party and returned back to the Department within three months for execution. The financial assistance provided for the project should exclusively be used for the specific purpose for which they are provided. This should be as per the approved budget for specific head and for a stipulated period only. This department will neither bear any over expenditure and any expenditure after the last date of the project nor any additionality will be provided. Equipment, if any, approved for the project should be procured within the first year of the project positively and before making second year release. Unspent amount as on the last day of the project should be surrendered to DDO, DBT, New Delhi.

With kind regards,

Yours sincerely,

(A.K.Rawat)

✓ Prof. Umesh Rai,  
Department of Zoology,  
University of Delhi,  
Delhi-110 007

Copy to: Dr. Subeer S. Majumdar  
Staff Scientist VI & Incharge,  
Transgenic Facility, Embryo Biotechnology Lab  
National Institute of Immunology,  
Aruna Asaf Ali Marg, New Delhi -110067

(A.K.Rawat)



**SR/SO/AS-50/2010**  
**SCIENCE & ENGINEERING RESEARCH BOARD**  
**(SERB)**

Technology Bhavan  
New Mehrauli Road  
New Delhi – 110016

Date: 30-04-2012

**ORDER**

**Subject:-** Financial assistance for the research project entitled: **“Mechanism of Adaptation to Seasonal Changes in Vertebrates”** by Prof. Vinod Kumar, Department of Zoology, University of Delhi, Delhi – 110007.

Sanction of the Science & Engineering Research Board (SERB), is hereby accorded to the above-mentioned project at a total cost of **Rs.44,50,000/- (Rupees forty four lakh fifty thousand only)** with break-up of **Rs.22,00,000/- (Rupees twenty two lakh only)** under **Capital head** and **Rs.22,50,000/- (Rupees twenty two lakh fifty thousand only)** under **General head** for a duration of **two years**. The items of expenditure for which the total allocation of **Rs.44,50,000/-** has been approved for a period of two years, are given below:

Sl. NO	Head	(Amount in Rs.) Total
<b>A</b>	<b>Non-recurring (Capital Items)</b>	
1.	Equipments a. Eppendorf Realplex2 S Gradient Ultra fast PCR b. Gel Doc System (Biorad) c. Apple MacPro Computer Server and computer with 2Tb Storage. d. Gel Running set up (Biorad). e. One set of Pipetmen (eppendorf) f. Liquid Nitrogen containers (flask) g. LED lights with drivers and drummers.	
<b>A'</b>	<b>Total Capital</b>	<b>22,00,000/-</b>
<b>B</b>	<b>Recurring Items (General)</b>	
1.	<b>General - A</b> (i). Manpower: (ii). Consumables (ii). Travel (iii). Contingencies	17,50,000/-
2.	<b>General – B</b> (i). Overhead	5,00,000/-
<b>B'</b>	<b>Total (General)</b>	<b>22,50,000/-</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>44,50,000/-</b>

2. Sanction of the Science & Engineering Research Board (SERB), is also accorded to the payment of **Rs.22,00,000/- (Rupees twenty two lakh only)** under **'Grants for creation of capital assets'** and **Rs.8,00,000/- (Rupees eight lakh only)** under **'Grants-in-aid General'** to the Registrar, Delhi University, Delhi – 110007, Delhi, being the grant for the year 2012-13 for implementation of the said research project.

3. The expenditure involved is debitable to  
Grant-in-aid for the year 2012-13 (plan expenditure- Capital - Rs.22,00,000/-  
&  
Grant-in-aid for the year 2012-13 (plan expenditure- General) - Rs.8,00,000/-  
This release is made under **“Science & Engineering”**

4. The Sanction has been issued with the approval of the competent authority under delegated powers and vides Diary No. **SERB/F/0414/2012-13** dated: **26/04/2012**.

Contd... 2/-



SR/CSI/03/2010(02)C  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bha  
New Mehrauli R  
New Delhi-110 0  
Dated 26.08.20

ORDER

**Sub:** Financial approval of the project under Cognitive Science Research Initiative (CSI) entitled **"Neurobiology and understanding Circadian system linkage of cognitive performance in an avian model system"**

**PI:** Prof. Vinod Kumar, Department of Zoology, University of Delhi, Delhi-110007

With reference to the Sanction Order No. **SR/CSI/03/2010(02)G** dated 26.08.2011 Sanction of the President is hereby accorded to the payment of ₹ **20,00,000/-** (Rupees Twenty Lacs only) as the Grant for creation of capital assets in the above mentioned project.

2. The amount of ₹ **20,00,000/- (Rupees Twenty Lacs only)** will be drawn by the Drawing & Disbursing Officer of the Department of Science & Technology and will be disbursed to the **Registrar, University of Delhi, Delhi-110007**

3. Sanction of the grant is subject to the conditions as detailed in website [www.serc-dst.org](http://www.serc-dst.org).

4. The expenditure involved is debitable to:

*Demand No.85                      Department of Science & Technology*

3425	Other Scientific Research (Major Head)
60	Others (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
43	Innovation Clusters
43.01.35	Grant for <b>creation of capital assets</b> for the year 2011-2012 (Plan Expenditure)

This release is being made under **Innovation Clusters (Cognitive Science) Scheme**.

5. Items of equipment procured, unless these are declared unserviceable and are condemned in accordance with procedures prescribed in GFRs, will not be disposed off without the prior approval of DST.

6. The Sanction has been issued under the powers delegated to the Ministries and with concurrence of IF Division of Department of Science & Technology vide their Sanction No.100/(IFD)/2238/2011-12 dated 26.08.2011.

7. The institute will furnish to the DST, Utilization certificate and an audited statement of account pertaining to the grant immediately after the end of the each financial year. As this is the first grant being released for the project, no previous U/C is required.

Contd..p/-2





**No. 37(1430)/10/EMR-II**

From : Head, Human Resources Development Group

Dated : 15/12/2010

To

DR VINOD KUMAR  
DEPT OF ZOOLOGY  
DELHI UNIV  
DELHI 110007

KIKIKIKI₃

Subject: Grants-in-aid for your scheme entitled :CIRCADIAN BRAIN PHOTORECEPTORS IN BIRDS I.  
LOCALIZATION AND FUNCTIONAL EVALUATION

Sir,

I am directed to refer to your proposal for sanction of CSIR Scheme titled above and to convey the approval of DG CSIR as per the details given below.

I	Duration of the Scheme (from the date of Commencement)	36 Months
II	Staff	1-RA 1 JRF
III	Contingency (per annum in ₹)	2,50,000 /- P.C.
IV	Equipment (lumpsum in ₹)	5,00,000 (L.S.)
V	Scientist Allowance (for Emeritus Scientist only)	

2. The above sanction is subject to review of periodical progress of the project by expert committee.
3. DG CSIR has also approved the release of the following grants for the period 01/11/2010 to 31/03/2011 ,

No	Grants	Amount (in ₹ )
I	Staff	80,000
II	Contingency	1,04,167
III	Equipment	5,00,000
IV	Scientist Allowance	
<b>Total :</b>		<b>6,84,167</b>

4. Sanction of grants is subject to strict compliance of the terms and conditions enclosed or as may be modified from time to time. Please go through the instructions carefully with regard to subsequent release of grants and your obligations under this sanction. The cheque for the 1<sup>st</sup> installment is being sent to the concerned authority of your institution along with a copy of this letter.

The expenditure is debitable to budget head P81102.

(\*) Subject to FTR of 37 (1291)

Yours faithfully,

SECTION OFFICER (EMR-II)

**Encl : As above**

**Copy to :-**

1. Registrar/Principal/Director *Delhi University, Delhi 110007*  
alongwith a cheque No. \_\_\_\_\_ dated \_\_\_\_\_ for  
Rs \_\_\_\_\_ representing first year's grant for the above scheme. The utilisation of grant is  
subject to compliance of para-1 of the terms and conditions stated overleaf.
2. Sr F&AO(EMR) alongwith FVC for first year's grant





REGISTERED

## COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

EXTRAMURAL RESEARCH DIVISION

CSIR COMPLEX, PUSA, NEW DELHI - 110 012

No. 37(1495)/11/EMR-II

From : Head, Human Resources Development Group

Dated : 22/12/2011

To

✓  
DR MALLIKARJUN N SHAKARAD  
DEPT OF ZOOLOGY  
DELHI UNIV  
DELHI 110007 DELHI

Subject: Grants-in-aid for your scheme entitled REGULATION OF HEAT SHOCK PROTEINS IN Drosophila melanogaster POPULATION SIMULTANEOUSLY SELECTED FOR FASTER PRE-ADULT DEVELOPMENT AND LATE REPRODUCTION

Sir,

I am directed to refer to your proposal for sanction of CSIR Scheme titled above and to convey the approval of DG CSIR as per the details given below.

I	Duration of the Scheme (from the date of Commencement)	36 Months
II	Staff	1-RA JRF SRF
III	Contingency (per annum in ₹)	3,00,000
IV	Equipment (lumpsum in ₹)	6,00,000
V	Scientist Allowance (for Emeritus Scientist only)	

- The above sanction is subject to review of periodical progress of the project by expert committee.
- DG CSIR has also approved the release of the following grants for the period 01/01/2012 to 31/03/2012

No	Grants	Amount (in ₹)
I	Staff	66,000
II	Contingency	75,000
III	Equipment	6,00,000
IV	Scientist Allowance	
Total :		7,41,000

- Sanction of grants is subject to strict compliance of the terms and conditions enclosed or as may be modified from time to time. Please go through the instructions carefully with regard to subsequent release of grants and your obligations under this sanction. The cheque for the 1<sup>st</sup> installment is being sent to the concerned authority of your institution along with a copy of this letter.

The expenditure is debitable to budget head P81102.

Yours faithfully,

SECTION OFFICER (EMR-II)

Encl : As above

Copy to :-

- Registrar/Principal/Director alongwith a cheque No. Delhi University Delhi - 110007 Delhi dated for Rs representing first year's grant for the above scheme. The utilisation of grant is subject to compliance of para-1 of the terms and conditions stated overleaf.
- Sr F&AO(EMR) alongwith FVC for first year's grant.



Malashri Lal, Chairperson, (Dean, Academics)  
Ajay Kumar, Member, Dean Research (PS&MS)  
Prishwar Misra, Member, Dean Research (Hol.SS)  
Dr. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

Research Council  
University Of Delhi



DRCH/R&D/2013-14/ 11155

21 October, 2013

Dr. Anju Srivastava  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget-heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

The contribution made to your research work and publication by the R and D grant must be duly acknowledged.

The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*ML*  
(MALASHRI LAL)





12471  
10.12  
Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Girishwar Mista, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

DRCH/R&D/2013-14/ 4155

21 October, 2013

Dr. Mallikarjun Shakarad  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 2.8 lakh (Rupees two lakh and eighty thousand only) under the above mentioned scheme. You can spend the approved amount in the budget-heads, as specified below:

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The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

ML  
(MALASHRI LAL)



**Research Council  
University Of Delhi**

*Prof. Malashri Lal, Chairperson, (Dean, Academics)*  
*Prof. Ajay Kumar, Member, Dean Research (PS&MS)*  
*Prof. Girishwar Misra, Member, Dean Research (H&SS)*  
*Prof. M. M. Chaturvedi, Member, Dean Research (LS)*  
*Dr. Deepika Bhaskar, Dy. Dean Research*



DRCH/R&D/2013-14/4155

21 October, 2013

Prof. Madan Mohan Chaturvedi  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

The contribution made to your research work and publication by the R and D grant must be duly acknowledged.

The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

ML

**(MALASHRI LAL)**



Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (PSeLMS)  
Prof. Girishwar Misra, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

Research Council  
University Of Delhi



DRCH/R&D/2013-14/4155

21 October, 2013

Dr. Namita Agarwal  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

The contribution made to your research work and publication by the R and D grant must be duly acknowledged.

The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

(MALASHRI LAL)



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (PSELMS)  
Prof. Greshwar Misra, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Shastri, Dy. Dean Research

DRCH/R&D/2013-14/4155

21 October, 2013

Dr. Neeta Sehgal  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

The contribution made to your research work and publication by the R and D grant must be duly acknowledged.

The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

ML

(MALASHRI LAL)



Research Council  
University Of Delhi

Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Gurnshwar Misra, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



21 October, 2013

DRCH/R&D/2013-14/4155

Dr R K Seth  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books,	60-100%
Computers peripherals etc.	
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

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Thanking you,

Yours sincerely,

(MALASHRI LAL)



*Research Council*  
*University Of Delhi*

*Prof. Malashri Lal, Chairperson, (Dean, Academics)*  
*Prof. Ajay Kumar, Member, Dean Research (PS&MS)*  
*Prof. Girishwar Misra, Member, Dean Research (H&SS)*  
*Prof. M. M. Chaturvedi, Member, Dean Research (LS)*  
*Dr. Deepika Bhaskar, Dy. Dean Research*



DRCH/R&D/2013-14/4155

21 October, 2013

Prof. Rina Chakrabarti  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books,	60-100%
Computers peripherals etc.	
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

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Yours sincerely,

ML

**(MALASHRI LAL)**



**Research Council  
University Of Delhi**



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Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

DRCH/R&D/2013-14/4155

21 October, 2013

Prof. Rup Lal  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget-heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 16, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

The contribution made to your research work and publication by the R and D grant must be duly acknowledged.

The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

*ML*

(MALASHRI LAL)



**Research Council  
University Of Delhi**

Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Girishwar Misra, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



DRCH/R&D/2013-14/11155

21, October, 2013

Dr. Shibnath Mazumder  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

The contribution made to your research work and publication by the R and D grant must be duly acknowledged.

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With best wishes for productive research.

Thanking you,

Yours sincerely,

*ML*

**(MALASHRI LAL)**



**Research Council**  
**University Of Delhi**

*Prof. Malashri Lal, Chairperson, (Dean, Academics)*  
*Prof. Ajay Kumar, Member, Dean Research (PS&MS)*  
*Prof. Girishwar Misra, Member, Dean Research (H&SS)*  
*Prof. M. M. Chaturvedi, Member, Dean Research (LS)*  
*Dr. Deepika Bhaskar, Dy. Dean Research*



DRCH/R&D/2013-14/ 4155

October, 2013

Dr. Sharmila Basu-Modak  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 2.8 lakh **(Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

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With best wishes for productive research.

Thanking you,

Yours sincerely,

*ML*

**(MALASHRI LAL)**



**Research Council**  
**University Of Delhi**

Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (P/Sol:MS)  
Prof. Gushwar Mura, Member, Dean Research (H/Sol:MS)  
Prof. M. M. Chaturvedi, Member, Dean Research (L/S)  
Dr. Deepika Bhaskar, Dy. Dean Research



DRCH/R&D/2013-14/ 1115 \

21 October, 2013

Prof. Umesh Rai  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of **Rs. 2.8 lakh (Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget- heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books, Computers peripherals etc.	60-100%
Travel (local & within India related to research)	Up to 10%
Minor equipment & maintenance of equipment	Up to 20%
Contingencies	Up to 10%

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

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The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

**(MALASHRI LAL)**



**Research Council**  
**University Of Delhi**



Prof. Malashri Lal, Chairperson, (Dean, Academics)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Girishwar Misra, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

21 October, 2013

DRCH/R&D/2013-14/11155

Prof. Vinod Kumar  
Department of Zoology  
University of Delhi  
Delhi

**Subject: Scheme to strengthen Research & Development by providing funds to University Faculty (2013-14).**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction you a research grant of Rs. 2.8 lakh **(Rupees two lakh and eighty thousand only)** under the above mentioned scheme. You can spend the approved amount in the budget-heads, as specified below:

Consumables, Softwares, Photocopies, Purchase of books,	60-100%
Computers peripherals etc.	Up to 10%
Travel (local & within India related to research)	Up to 20%
Minor equipment & maintenance of equipment	Up to 10%
Contingencies	

You are requested to utilize the funds latest by **March 15, 2014** and send the Utilization Certificate to the Finance Branch. A report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile is to be submitted along with a copy of the Utilization Certificate to the Research Council latest by **April 07, 2014**.

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The findings of R and D projects may be presented at a Seminar after the submission of the report.

With best wishes for productive research.

Thanking you,

Yours sincerely,

(MALASHRI LAL)



**F.No.CPS 5- 2/2013-NFSM**  
**GOVERNMENT OF INDIA**  
**MINISTRY OF AGRICULTURE**  
**DEPARTMENT OF AGRICULTURE & CO OPERATION**  
**CROPS DIVISION, NFSM-CELL**

**Krishi Bhawan, New Delhi**  
**Dated the 4<sup>th</sup> July, 2013**

**To**

- 1. The Vice Chancellor**  
**University of Agriculture Sciences**  
**Raichur-584102**  
**Karnataka**
- 2. The Vice Chancellor**  
**University of Delhi**  
**North Campus, Delhi-110007**

**Subject: Administrative Approval of project on "Investigation on the Present Pigeonpea Pest complex and their Management with emphasis on Radiation Technology as an Integral Component in IPM" under NFSM-Pulses – regarding.**


Sir,

I am directed to refer to joint proposal received from UAS, Raichur and University of Delhi, Delhi vide No. VC / UASR / 1033 / 2013-14 dated 15.06.2013 entitled "Investigation on the Present Pigeonpea Pest complex and their Management with emphasis on Radiation Technology as an Integral Component in IPM" for four years i.e. 2013-14 to 2016-17 with budgetary provision of Rs. 656.0 lakh.

In this context, it is to inform you that DAC will not bear any institutional/overhead charges to this project and the UAS, Raichur will be the lead centre for implementation of the Project, as proposed. The competent authority has approved the proposal for four years with budgetary provision of Rs. 656.0 lakh. However, for the year 2013-14, the project is approved with an allocation of Rs. 283.50 lakh as proposed. Yearly, component-wise approved activity is enclosed as **Annexure**.

Encl.: As stated.

Yours faithfully

  
(Dr. D.P. Malik)

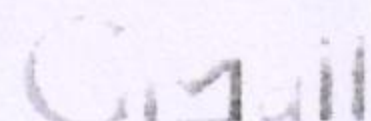
**Additional Commissioner (Crops)**

Copy for kind information to **Dr. Rakesh Kumar Seth, Professor and In-charge, Applied Entomology & Radiation Biology Unit, North Campus, Delhi-110007.**



(Annexure II)

RL-6



**Fwd: Project proposal through proper channel, Reg**

Rup Lal <ruplal@gmail.com>

Wed, May 22, 2013 at 9:3

To: Amit <amitarshifmdz4u@gmail.com>, Vivek Negi <viveknegi2006@gmail.com>, Roshan Kumar <roshanzhc@gmail.com>

Professor Rup Lal  
FNA, FNASc, FNAAS  
Department of Zoology  
University of Delhi  
Delhi-110007, India  
<http://people.du.ac.in/~rlal/>

----- Forwarded message -----

From: AMAAS NODAL CENTRE <niamaas@gmail.com>  
Date: Wed, May 22, 2013 at 11:40 PM  
Subject: Project proposal through proper channel, Reg  
To: Rup Lal <ruplal@gmail.com>  
Cc: NBAIM MAU <nbaimcar@gmail.com>

Dear Prof Rup Lal,

This is to inform that your concept note titled "Microbial Metagenomic Analysis of Hot Spring Situated atop the Himalayan Ranges at Manikaran, Himachal Pradesh, India", is under consideration for funding under AMAAS. In this connection you are requested to submit one hard- and soft-copy of comprehensive and brief full project proposal through proper channel in the format given below. Information to be given below must illuminate the research ground to be covered through this project. The research objectives and the scientific perspective against which the project has been conceived should be clearly spelled out to arrive at a scientific judgment regarding it. The proposed modifications (if any) and the budget allotted primarily for this project are given at the end of mail for your reference.  
The proposal should reach to us positively by June 5, 2013.

Dr Arun Kumar Sharma  
Network Coordinator AMAAS &  
Director NBAIM

Collaborative Institute	Scientists involved	Project title	Modifications suggested	Tentative Budget (2013-2017)				
				Contingency (including fellowship of SRFs)	TA	Inst. Char.	Equipment	Total
DU, Delhi	Prof Rup Lal	Microbial Metagenomic Analysis of Hot Spring  Situated Atop The Himalayan Ranges at Manikaran, Himachal Pradesh, India.	-No modification-	41.216	3.00	4.4216	0	48.6376

National Bureau of Agriculturally Important Microorganisms (NBAIM)  
Kusmaur, PO: Kaitholi, Mau Nath Bhanjan, Uttar Pradesh 275101, INDIA  
TEL: +91 547 2530080  
FAX: +91 547 2530381  
TELEFAX: +91 547 2530358  
Email: [nbaimcar@gmail.com](mailto:nbaimcar@gmail.com), [niamaas@gmail.com](mailto:niamaas@gmail.com)  
Web: [www.nbaim.org.in](http://www.nbaim.org.in)

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Format.docx  
26K



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

**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 "**Anticipation in genes: Molecular, physiological and behavioral correlates of response of circa-annual clocks to seasons in night-migratory song birds**" for a period of 5 Year 0 Month at a total cost of Rs. **48657000** (Rupees Four Crores Eighty Six Lakhs Fifty Seven Thousand Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "Anticipation in genes: Molecular, physiological and behavioral correlates of response of circa-annual clocks to seasons in night-migratory song birds"

**2.2 Project Investigator :**

**Prof. Vinod Kumar**

PI

Zoology

University of Delhi, North Campus

Lab 217, Department of Zoology, University of Delhi, -  
, Delhi

**Dr. Sangeeta Rani**

Professor

Zoology

University of Lucknow

Department of Zoology, University of Lucknow, Lucknow, -  
226007, Uttar Pradesh

**Dr. Praful S Singru**

Assistant Professor

School of Biological Sciences

National Institute of Science Education And Research

Institute of Physics Campus, Sachivalaya Marg, PO: Sainik

School, Bhubaneswar, -

751005, Orissa

**Dr. A S Dixit**

Associate Professor

Zoology

North-Eastern Hill University, Shillong

North-Eastern Hill University, Mawlai, Shillong, Meghalaya,  
-



**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**  
**NATIONAL FUND FOR BASIC, STRATEGIC AND FRONTIER APPLICATION RESEARCH IN AGRICULTURE**  
KAB-I, New Delhi-110012

F.No. NFBSFARA/BSP-4012/2013-14

Dated: 19.08.13

**Sub:** Authorization for release of funds for the first half (non-recurring only) of financial year 2013-14.

The following release of funds has been approved for the NFBSFARA as per details given below: -

1. Name of the Project/Programme/Activity: *"The role of bacterial endosymbionts in shaping the insect-virus relationship in Bemisia tabaci"*
2. Reference of Sanction letter: Letter No. F.No. NFBSFARA/BSP-4012/2013-14
3. Name of the lead centre: **Delhi University, New Delhi**
4. Name of the Cooperating centre(s): **IARI, New Delhi**
5. Scheme Code: NFBSFARA
6. Total sanctioned amount for the project: **Rs. 144.70390 lakh**
7. Total sanctioned amount for the project for the current financial year 2013-14: **Rs. 64.68320 lakh**
8. Total sanctioned amount for the project (DU, New Delhi): **Rs. 106.82500 lakh**
9. Total sanctioned amount for the project (DU, New Delhi) for current financial year 2013-14: **Rs. 45.91320 lakh**
10. Amount now authorized for payment: **Rs. 14.75000 lakh (non-recurring only)**
11. Year wise details of amount already authorized for released: Nil
12. Audit Utilization Certificate received up to (date): NA
13. Grant to be released in favour of: **IFSC Code: SBIN0001067, Bank account No. 10851298650, State Bank of India, University of Delhi Branch, University of Delhi, Delhi 110 007**
14. The breakup of amount now authorized for payment is given overleaf in Table 1 (p2/3):

The fund for non-recurring expenditure is being released almost in the beginning of the financial year. Hence, under no circumstances will there be any revalidation of this amount in the next financial year.

(A. Bandyopadhyay)  
National Coordinator (NFBSFARA)

Section Diary  
Section File No.

Date:  
Sl. No. of App. Ledger

Budget Allocation checked and found correct. Submitted and Budget Allocation Register and Remittance Register.

**F&AO**

Pay Rs. (In words) \_\_\_\_\_

Finance & Accounts Officer

Paid by Cheque No. \_\_\_\_\_ Date: \_\_\_\_\_

Cash Book Voucher No. \_\_\_\_\_ Date: \_\_\_\_\_



Annexure I  
P2-16

भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय,  
विज्ञान और प्रौद्योगिकी विभाग  
प्रज्ञापीठ की भवन, महारौली मार्ग,  
नई दिल्ली-110016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD,  
NEW DELHI-110016

No. INT/FRG/DAAD/P-231/2013

Dated: 05-09-2013

### ORDER

Sanction of the President is hereby accorded for implementation of the Indo-German (DST-DAAD) joint research project entitled "Assessing Natural and Stimulated Biodegradation of the Pesticide Hexachlorocyclohexane (HCH) at Contaminated Field Sites Using Compound-Specific Stable Isotope Analysis (CSIA)" at a total cost of **Rs. 9,08,000/- (Rupees Nine Lac Eight Thousand Only)**. The duration of the project shall be 2 years from date of issue of this sanction order. The requests for extension of the project beyond this validity shall NOT be considered in any case.

The composition of the project team is as below:

<u>Indian side</u>	<u>German side</u>
i.) Dr. Rup Lal, Professor, Molecular Biology Laboratory, Dept. of Zoology, University of Delhi, Delhi-110007 ii.) Pushp Lata iii.) Puneet Kohli	i.) Dr. Hans H. Richnow, Department of Isotope, Biogeochemistry, Helmholtz Centre for Environmental Research - UFZ, Permoserstraße 15 / 04318 ii.) Dr. Anko Fischer iii.) Safdar Bashir iv.) Natalija Ivdr

The change/ replacement of project participants is not allowed. The participating scientists should be working on the project and affiliated with the Institute/University holding the indicated position at the time of start of the project as well as at the time of exchange visits under the project. The expenditure related to approve visits of participating scientists, as mentioned above, only can be met from the project grant.

The break-up of estimated expenditure is as indicated below and no re-appropriation shall be allowed under this project:-

<u>Headings</u>	<u>Estimated expenditure(s)</u>		
	<u>1<sup>st</sup> year</u>	<u>2<sup>nd</sup> year</u>	<u>Total</u>
<b>1. Expenses for Indian scientists to visit Germany under the project</b>	(2 visits) (30&60 days)	(2 visits) (30&60 days)	(4 visits)
International air-fare (by IATA excursion/ economy class by shortest route) including surface travel from place of work in India to place of work in Germany & back; Visa charges; Medical Insurance etc @ Rs. 65000/- per visit	1,30,000/-	1,30,000/-	2,60,000/-
<b>2. Expenses for German scientists to visit India under the project</b>	(2 visits) (30&60 days)	(2 visits) (30&60 days)	(4 visits)
(i) Accommodation charges @ Rs. 1100/- per day.	99,000/-	99,000/-	1,98,000/-
(ii) Per-diem charges @ Rs. 2500/- per day	2,25,000/-	2,25,000/-	4,50,000/-
<b>3. Total</b>	<b>4,54,000/-</b>	<b>4,54,000/-</b>	<b>9,08,000/-</b>

(Rupees Nine Lac Eight Thousand Only)

Contd. p/2



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (P&A&R)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (I&S)  
Dr. Deepika Bhaskar, Dy. Dean Research

Research Council  
University of Delhi



October 15, 2014

RC/2014/

Dr. Anju Shrivastava  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject : Research & Development grant 2014-15.

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Effect of melatonin on cytokines and chemokines profile in tumor-associated macrophage "

The budget heads under which the grant has been sanctioned is as follows:

Budget Head	Amount (Rs.)
Consumables	2,25,000
Contingency	20,000
Travel	5,000
Minor Equipment	50,000
Total	3,00,000

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 15, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



# Research Council

University Of Delhi

Malashri Lal, Chairperson (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



RC/2014/

October 15, 2014

Dr. Mallikarjun Shakarad  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject : Research & Development grant 2014-15.

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "The evolution of male accessory gland proteins in *Drosophila melanogaster*".

The budget heads under which the grant has been sanctioned is as follows:

Consumables	2,30,000
Contingency	70,000
Total	3,00,000

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 15, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



# Research Council

University Of Delhi

Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



RC/2014/

October 15, 2014

Prof. Madan Mohan Chaturvedi  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Characterization of histone H3 specific protease and studies on curcumin as a potential modulator of histone acetyl transferases and deacetylases "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (In Rs.)
Consumables	2,60,000
Contingency	20,000
Minor equipment	20,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 05, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)





Malashri Lal, Chairperson, (Chairperson)  
 Ajay Kumar, Member, Dean Research (PS&MS)  
 Pami Dua, Member, Dean Research (H&SS)  
 M. M. Chaturvedi, Member, Dean Research (LS)  
 Deepika Bhaskar, Dy. Dean Research

October 15, 2014

RC/2014/

Dr. Namita Agarwal  
 Department of Zoology  
 University of Delhi  
 Delhi-110007

Subject : Research &amp; Development grant 2014-15.

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Monitoring expression levels and activity of key lipases in a Drosophila model of neurodegenerative disease "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,50,000
Minor Equipment	50,000
<b>Total</b>	<b>3,00,000</b>


- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 15, 2015.  
 The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

  
 (Prof. Malashri Lal)



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2014/

October 15, 2014

Prof. Neeta Sehgal  
Department of Zoology  
Universtiy of Delhi  
Delhi-110007

Subject : Research & Development grant 2014-15.

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Characterization of leptin and its role during gonadal growth in murrel *Channa punctatus* (Phase-II) "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,50,000
Contingency	25,000
Minor Equipment	25,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 15, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



# Research Council

University Of Delhi

Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



RC/2014/

October 15, 2014

Prof. R.K.Seth  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Effect of ionizing radiation on enzymatic antioxidant defense of irradiated *Spodoptera litura* (tropical pest) and its F1 progeny "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,10,000
Contingency	30,000
Minor Equipment	60,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 15, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



# Research Council

University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2014/

October 15, 2014

Dr. Rajgopal Raman  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Isolation of macrophage like cells from the gut of Spodoptera litura and studying the interaction of those cells with pathogenic and non-pathogenic bacterial strains "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	1,80,000
Contingency	30,000
Publication expenses	30,000
Minor Equipment	60,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 05, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



**Research Council**  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2014/

October 15, 2014

Dr. Rina Chakrabarti  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "The Study of ammonia oxidizing microorganisms in the biofilter of recirculating system "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,00,000
Contingency	1,00,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 05, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



# Research Council

University Of Delhi

Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



RC/2014/

October 15, 2014

Prof. Rup Lal  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Production of Rifamycin analogs by genetic manipulation of Rifamycin Polyketide Biosynthetic Gene Cluster of *Amycolatopsis mediterranei* to overcome the problem of MDP strains of *Mycobacterium* "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (In Rs.)
Consumables	2,50,000
Contingency	50,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 05, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



**Research Council**  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2014/

October 15, 2014

Dr. Shibnath Majumdar  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Cloning and studying the expression of NOS2 in M. fortuitum- induced mycobacteriosis in catfish (Clarias sp) "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,50,000
Contingency	50,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 15, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



# Research Council

University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2014/

October 15, 2014

Dr. Sharmila Basu-Modak  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Expression of Prolactin and its receptor in the developing heme oxygenase 1 knockout embryos "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (In Rs.)
Consumables	2,30,000
Contingency	32,000
Software	2700
Travel	1300
Minor equipment	20,000
Books/Publication	14,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 05, 2015.

The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)



Research Council  
University Of Delhi



Prof. Manoj Kumar Chatterjee, (Chairperson)  
Prof. Anil Kumar, Member, Basic Research (BSR)  
Prof. Manoj Kumar, Member, Applied Research (AR)  
Prof. Dr. Anil Kumar, Member, Applied Research (AR)  
Prof. Dr. Anil Kumar, Member, Applied Research (AR)

October 15, 2014

Dr. Manoj Kumar

Dr. Manoj Kumar  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2014-15.

Dr. Manoj Kumar

The Vice-Chancellor is pleased to sanction grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "De novo sequencing of ovarian transcriptome of wall lizard Hemidactylus walli".

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables (including sample analysis)	2,50,000
Contingency	30,000
Travel	10,000
Total	3,00,000

- The sanctioned amount can be used only under the approved budget heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
- The grant does not cover maintenance/AMCs. Any minor repair related to research proposal can be covered in the contingency head.

The grant has to be utilized upto September 30, 2015. The Utilization Certificate is to be sent to the Research Council accompanied by a Report of 2000 words on how the money has been utilized for furthering your research activities and enhancing the publication profile before October 05, 2015.

- The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you,

Yours sincerely,

(Dr. Manoj Kumar)



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2014/

October 15, 2014

Prof. Vinod Kumar  
Department of Zoology  
University of Delhi  
Delhi-110007

**Subject : Research & Development grant 2014-15.**

Dear Sir/Madam,

The Hon'ble Vice-Chancellor is pleased to sanction a grant of Rs. 3,00,000/- (Rupees Three lakhs only) under the Research & Development scheme 2014-15 for the Project entitled "Role of timed food availability in reproductive regulation in songbirds "

The budget heads under which the grant has been sanctioned is as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,40,000
Contingency	30,000
Minor Equipment	30,000
<b>Total</b>	<b>3,00,000</b>

- The sanctioned amount can be used only under the approved budget-heads and the guidelines issued at the time of application have to be strictly followed.
- An undertaking must be submitted before utilization of the travel head mentioning that it will not be used for travel to home town or areas near it.
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The contribution made to your research work and publication by the R & D grant must be duly acknowledged.

With best wishes for productive research.

Thanking you

Yours sincerely,

(Prof. Malashri Lal)





Kakali Dey Dasgupta

Scientist -D

~~ddt@prg@gmail.com~~

kakali.dey@nic.in



सूचना का  
अधिकार



MINISTRY OF  
SCIENCE & TECHNOLOGY

भारत सरकार

विज्ञान और प्रौद्योगिकी मंत्रालय

बायोटेक्नोलॉजी विभाग

ब्लॉक-2,7 वां तल, सी० जी० ओ० कम्प्लेक्स

लोदी रोड, नई दिल्ली-110003

GOVERNMENT OF INDIA

MINISTRY OF SCIENCE & TECHNOLOGY

DEPARTMENT OF BIOTECHNOLOGY

Block-2, 7th Floor C.G.O. Complex

December 29, 2014  
Lodi Road, New Delhi-110003

No. BT/PR11982/BBE/117/2/2014

Dear Prof. Lal,

Kindly refer to your project proposal entitled "Production of Rifamycin Analogs against Multi Drug Resistant (MDR) strains of *Mycobacterium tuberculosis* by the Manipulation of Rifamycin Polyketide Synthase Gene Cluster of *Mycobacterium mediterranei* S699 and Understanding the changes in Human Microbiome under antibiotic treatment regimen in patients suffering from Tuberculosis" submitted to the Department for financial support. This is to inform you that the project was considered in the First Meeting of Task Force on Biosystems & Bioprocess Engineering and committee has recommended the project with recast budget of the components and suggestions as follows:

1. Budget for University of Delhi, North Campus to be restricted to Rs. 80.00 lakhs including overhead.
2. Budget of DU, South Campus and budget for Dr. Mallikarjun Shakarad, North Campus to be deleted.
3. Budget of IGIB, New Delhi to be restricted to Rs. 40.00 lakh.
4. To include the following work under project- The various compounds are to be tested against a panel of *Mycobacterium tuberculosis* strains (MDR-strains) harboring a variety of mutations in rpoB in order to establish the pan efficacy of these compounds
5. Information regarding present status of the molecule already available with you.

I shall appreciate, if you could send kindly the following information:

- (i) Consent for reduced budget.
- (ii) To submit Revised Budget Particulars as suggested by Task Force with list of Quotation of Equipments along with proper technical justifications and summary of quotations in Indian rupees along with List of consumables stating the items in quantity wise, cost wise & year wise manner, if exceeding of Rs. 5.00 lakhs/year.
- (iii) To include the above-stated work (serial no.4) as suggested by Task Force
- (iv) Certificate from Head of Department /competent authority of Institute that equipment proposed under the project are not available in existing facilities of institute.
- (v) Kindly provide the ECS details from respective Agency/grantee organization for facilitating e-payments towards the release of grant as per attached Annexure.

We would be thankful if you could kindly send the above details at your earliest convenience for further processing the case by the department.

With kind regards,

Yours sincerely,

(Kakali Dey Dasgupta)

Prof. Rup Lal, Professor, Department of Zoology, University of Delhi, North Campus, Delhi- 110007

Copy to: Prof. Jitendra Khurana, Director, Interdisciplinary Centre for Plant Genomics, University of Delhi, South Campus, New Delhi-110021

Dr. Yogendra Singh, Senior Scientist, Room No. 208, Institute of Genomics and Integrative Biology, Mall Road, Delhi-110007



Prosjektnr.(NTNU): .....  
Prosjektnr.(underleverandør): .....

RC-15-

## Agreement

between

**Norwegian University of Science and Technology**  
org.number 974 767 880

hereinafter referred to as **NTNU**

and

**University of Delhi**

hereinafter referred to as **Subcontractor**

NTNU and University of Delhi are hereinafter commonly referred to as the "Parties".

R.Ch



### 13. Disputes

The terms in the Contract between NARC and NTNU are applicable.

### 14. Contact persons

NTNU's contact person: Prof Kjell J. Nilssen

University of Delhi's contact person: Prof Rina Chakrabarti

### 15. Signature

This Contract is signed in two copies where each of the Parties has received one

Trondheim, 24 / 10 2013

For NTNU:

*Kjetil Skjærve*

Head of Department

For University of Delhi

*Rina Chakrabarti*

Prof. Rina Chakrabarti  
Aqua Research Lab  
Department of Zoology  
University of Delhi  
Delhi-110 007, INDIA



NTNU  
Norges teknisk-  
naturvitenskapelige universitet

Institutt for biologi  
7491 Trondheim

*R.C.*





Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

October 15, 2015

RC/2015/9677/D-1813

Prof. Anju Srivastava  
Department of Zoology  
University of Delhi  
Delhi 110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,25,000
Minor Equipment	50,000
Contingency	25,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (IS)  
Dr. Deepika Bhaskar, Dy Dean Research

RC/2015/9677/D-18B D-18B

October 15, 2015

Dr. Mallikarjun Shakarad  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Amount in Rupees	
Consumables	2,80,000
Contingency	20,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal





Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2015/9677/D-1813

October 15, 2015

Prof. M.M. Chaturvedi  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,60,000
Minor Equipment	20,000
Contingency	20,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal





Prof. Malashri Lal, Chairperson, (Chairperson)  
 Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
 Prof. Pami Dua, Member, Dean Research (H&SS)  
 Prof. M. M. Chaturvedi, Member, Dean Research (IS)  
 Dr. Deepika Bhaskar, Dy. Dean Research

October 15, 2015

RC/2015/9677/D-1813

Dr. Namita Agrawal  
 Department of Zoology  
 University of Delhi  
 Delhi-110007

Subject: Research &amp; Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,50,000
Minor Equipment	50,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

October 15, 2015

RC/2015/9677

Prof. Neeta Sehgal  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (INR)
Consumables	2,50,000
Minor Equipment	25,000
Contingency	25,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



27666227  
Lal, Chairperson, (Chairperson)  
umar, Member, Dean Research (PS&MS)  
Dua, Member, Dean Research (H&SS)  
M. Chaturvedi, Member, Dean Research (LS)  
epika Bhaskar, Dy. Dean Research



RC/2015/9677/D-1813

October 15, 2015

Prof. Rajagopal Raman  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Consumables	1,80,000
Minor Equipment	60,000
Contingency	30,000
Publication Charges	30,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2015/9677/D-1813

October 15, 2015

Dr. Ram Krishan Negi  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Head	Amount (Rupees)
Consumables	1,80,000
Minor Equipment	50,000
Contingency	70,000
Total	3,00,000
Total in Words	Rupees Three lakhs only

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



Research Council  
University Of Delhi



Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research

RC/2015/9677/D-1813

October 15, 2015

Prof. R.K.Seth  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,70,000
Contingency	30,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



**Research Council**  
University Of Delhi

Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



RC/2015/9677/D-1813

October 15, 2015

Prof. Rup Lal  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,45,000
Minor Equipment	10,000
Contingency	45,000
Total	3,00,000
Total in Words	Rupees Three lakhs only

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

  
Prof. Malashri Lal





Prof. Malashri Lal, Chairperson, (Chairperson)  
 Prof. Ajay Kumar, Member, Dean Research (PS&MS)  
 Prof. Pami Dua, Member, Dean Research (H&SS)  
 Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
 Dr. Deepika Bhaskar, Dy. Dean Research

RC/2015/9677/D-1813

October 15, 2015

Prof. S. Basu-Modak  
 Department of Zoology  
 University of Delhi  
 Delhi-110007

Subject: Research &amp; Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables/Software	2,03,000
Books/Publication	24,000
Minor Equipment	34,000
Contingency	39,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



Research Council  
University Of Delhi

Dr. M. Madan, Member, Research Council (R&D)  
Dr. M. Madan, Member, Research Council (R&D)  
Dr. M. Madan, Member, Research Council (R&D)  
Dr. M. Madan, Member, Research Council (R&D)

RC/2015/337/(1-15)13

October 15, 2015

Dr. M. Madan, Member,  
Department of Ecology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16

Dear Sir, Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,50,000
Contingencies	50,000
Total	3,00,000
Total in Words	Rupees Three lakhs only


Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged as the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research

Yours sincerely,

  
Prof. Malashri Lal



Prof. Pami Dua, Member, Dean Research (H&SS)  
Prof. M. M. Chaturvedi, Member, Dean Research (LS)  
Dr. Deepika Bhaskar, Dy. Dean Research



October 15, 2015

RC/2015/9677/D-183

Prof. Umesh Rai  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Heads	Amount (in Rs.)
Consumables	2,60,000
Travel	5,000
Contingency	35,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal



# Research Council

University Of Delhi

Prof. Malashri Lal, Chairperson, (Chairperson)  
Prof. Ajay Kumar, Member, Dean Research (P&M)  
Prof. Pami Dua, Member, Dean Research (H&S)  
Prof. M. M. Chaturvedi, Member, Dean Research (L)  
Dr. Deepika Bhaskar, Dy. Dean Research



RC/2015/9677 1813

October 15, 2015

Prof. Vinod Kumar  
Department of Zoology  
University of Delhi  
Delhi-110007

Subject: Research & Development grant 2015-16.

Dear Sir/Madam,

You have been sanctioned the following grant under the Research & Development scheme 2015-16 of the University of Delhi.

The budget heads under which the grant has been sanctioned are as follows:

Budget Head	Amount (Rupees)
Consumables	2,40,000
Minor Equipment	30,000
Contingency	30,000
<b>Total</b>	<b>3,00,000</b>
<b>Total in Words</b>	<b>Rupees Three lakhs only</b>

Kindly note the following:

- The guidelines issued at the time of application and additional guidelines attached have to be strictly followed.
- The sanctioned amount can be used only under the approved budget-heads.
- The grant is sanctioned for a period of one year starting from 15.10.2015.
- A quality publication must be reported along with a copy of the same by the end of the year along with the final report for any further consideration for the grant for next year.
- The support received from the University as R&D grant must be acknowledged in the publication from the research undertaken in the scheme.

The Utilization Certificate along with a final report in the form of a research paper must reach the office of the Research Council by October 30, 2016.

With best wishes for productive research.

Yours sincerely,

Prof. Malashri Lal





# IAEA

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence Internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energia Atómica

*Atoms For Peace*

Wagramer Strasse 5, P.O. Box 100, A-1400 Wien, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

E-mail: Official.Mail@iaea.org • Internet: <http://www.iaea.org>

**IAEA Research Contract No: 15557**

## **Research Contract**

This Research Contract is made between the International Atomic Energy Agency (herein after referred to as the "IAEA") whose address is Wagramer Strasse 5, P.O. Box 100, A-1400 Vienna, Austria and the Department of Zoology (herein after referred to as the "Contractor") whose address is  
Department of Zoology  
University of Delhi  
NEW DELHI 110 007  
INDIA.

## **Whereas**

the IAEA is authorized under its Statute and the decisions of its competent organs to encourage and assist research on, and the development and practical applications of atomic energy for peaceful purposes throughout the world by entering into contracts for research and development.

## **Whereas**

the Contractor is able and willing to carry out a Research Project desired by the IAEA;

## **Now, therefore**

the IAEA and the Contractor hereby agree as follows:

### **1. Scope of the Research Project**

a) The Contractor shall undertake a Research Project entitled 'Evaluation of Various Bio-Characteristics of Radio-Sterilized Lepidopteran Pest, Spodoptera Litura and its Progeny to Establish the Fitness (Quality) Traits for a Critical Appraisal of "F1 Sterility Technique" for Pest Management'.

The Chief Scientific Investigator shall be **Mr. Seth, Rakesh.**

b) The programme of work shall be:

1. Identify various bio-characteristics (behavioural, physiological and bio-chemical) and assess the relationship with the quality of irradiated common cutworm



RL-5  
No. BT/PR11982/BBE/117/2/2014  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 09-10-2015

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 "Production of Rifamycin Analogs against Multi Drug Resistant (MDR) strains of Mycobacterium tuberculosis by the Manipulation of Rifamycin Polyketide Synthase Gene Cluster of Amycolatopsis mediterranei S699" for a period of 3 Year 0 Month at a total cost of Rs. 10148400 (Rupees One Crores One Lakhs Fourty Eight Thousand Four Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : Production of Rifamycin Analogs against Multi Drug Resistant (MDR) strains of Mycobacterium tuberculosis by the Manipulation of Rifamycin Polyketide Synthase Gene Cluster of Amycolatopsis mediterranei S699

2.2 Details of the Investigators:

**Project Coordinator**

Prof. Rup Lal, Professor, Department of Zoology, University of Delhi, North Campus, Delhi, 110007

**Principal Investigators:**

Prof. Rup Lal

Professor, Department of Zoology  
Molecular Biology Laboratory University of Delhi, North Campus  
Delhi-110007

Dr. Yogendra Singh

Senior Scientist  
Room No. 208, Institute of Genomics and Integrative Biology, Mall Road, Delhi-110007

**CO-PI:**

Dr. Mallikarjun Shakarad

Associate Professor, No. 205,  
Department of Zoology  
University of Delhi, North Campus  
Delhi-110007, Delhi



RC 7

**No. BT/PR9847/AAQ/3/648/2013**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 29.01.2015

**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: "**Development of Pelleted Diet for Catla catla and Clarias batrachus Using Achyranthes aspera and Evaluation of Its Immunostimulatory Properties in Pond Culture System**" for a period of 3 Year 0 Month at a total cost of Rs. **7362000** (Rupees Seventy Three Lakhs Sixty Two Thousand Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :** "Development of Pelleted Diet for Catla catla and Clarias batrachus Using Achyranthes aspera and Evaluation of Its Immunostimulatory Properties in Pond Culture System"

**2.2 Details of the Investigators:**

**Project Coordinator**

**Dr. Rina Chakrabarti**

Professor

Department of Zoology

University of Delhi, North Campus

University of Delhi, , Delhi, 110007

**Principal Investigators:**

R.C.7



Des - 9

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**  
NATIONAL AGRICULTURAL SCIENCE FUND  
KAB-I, New Delhi-110012

**F.No. NFBSFARA/ WQ-3032/2013-14**

**Date: 10.08.2015**

**Sub: Authorization for release of funds for the first half of financial year 2015-16.**

The following release of funds has been approved for the NASF as per details given below: -

1. Name of the Project/Programme/Activity: **"Bioremediation of contaminants in polluted sites: use of weedy plants"**
2. Reference of Sanction letter: Letter No. NFBSFARA/WQ-3032/2013-14
3. Name of the lead centre: **DWSR, Jabalpur**
4. Name of the Cooperating centre(s): (a) WTC, IARI New Delhi (b) DU, Delhi,
5. Scheme Code: NASF
6. Total sanctioned amount for the project: **Rs. 206.3169 lakh**
7. Total sanctioned amount for the project for the current financial year 2015-16: **Rs. 39.79190 lakh**
8. Total sanctioned amount for the project (DU, Delhi): **Rs. 48.23920 lakh**
9. Total sanctioned amount for the project (DU, Delhi) for the current financial year 2015-16: **Rs. 11.06500 lakh**
10. Amount now authorized for payment of: **Rs. 2.82965 lakh**
11. Year wise details of amount already authorized for released: Nil
12. Audit Utilization Certificate received up to (date): NA
13. Grant to be released in favour of: **The Registrar, Delhi University, Delhi**
14. Release under NEH/TSP/Other than NEH region: Other than NEH region
15. The break up of amount now authorized for payment is given overleaf in Table 1 (p2/3):

**IFSC Code: SBIN0001067, Bank Account No. 10851298650**

The fund for non-recurring expenditure is being released almost in the beginning of the financial year. Hence, under no circumstances will there be any revalidation of this amount in the next financial year.

**(P. K. Agarwal)**  
**ADG (NASF)**

Section Dairy  
Section File No.

Date:  
Sl. No. of App. Ledger

Budget Allocation checked and found correct. Submitted and Budget Allocation Register and Remittance Register.

**SF&AO**

Pay Rs. (In words) \_\_\_\_\_

Senior Finance & Accounts Officer

Paid by Cheque No. \_\_\_\_\_ Date: \_\_\_\_\_

Cash Book Voucher No. \_\_\_\_\_ Date: \_\_\_\_\_





**IAEA**

*Atoms For Peace*

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

SINGH Dileep Kumar  
Department of Zoology  
University of Delhi  
University Road  
New Delhi 110 007  
Delhi  
India

Vienna International Centre, P.O. Box 100, A-1400 Vienna, Austria

Phone: (+43 1) 2600 • Fax: (+43 1) 26007

E-mail: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org), Internet: <http://www.iaea.org>

In reply please refer to: RC-16407-R4

Dear Mr Singh,

2015-06-02

Renewal of Research Contract No. 16407/R0

Reference is made to Research Contract No. 16407/R0 between the IAEA and the University of Delhi which entered into force on 09 February 2011.

The IAEA desires to renew the Contract No. 16407/R0 for the period 01 August 2015 to 08 February 2016 with the following modifications:

#### 1. Programme of Work

1. Vegetable and fruit : Molecular techniques for identification of Lettuce, Grape, Mango and Apple varieties will continue in 2015-2016. Experiments will be carried out for food traceability using stable isotopes of carbon. We are continuing the following works this year (2015-2016) also because these are the seasonal fruits and 1 to 2 years fruits sampling is required to conclude the proposed work. Samples will be taken from different localities of India.

(i) Molecular techniques for identification of Lettuce, Grape, Mango and Apple varieties will be validated.

(ii) Molecular markers will be developed for traceability of Lettuce, Grape, Mango and Apple varieties.

(iii)  $^{12}\text{C}/^{13}\text{C}$  ratio for Lettuce, Grape, Mango and Apple traceability will be estimated.

(iv) Biological contaminants/pathogen for vegetable and fruits will be identified and estimated

2. Wheat, Rice and Orange : Methods will continue for identification and estimation of food contaminants in year 2015-2016 i.e. chemicals (metals, pesticides, fertilizers) and microbial contaminants (toxins) using GLC, HPLC, GCMS, NMR, ELISA and PCR.

3. Wheat, Rice and Orange : Work will continue for more varieties and more different locations.

(i) Molecular markers will be developed and validated for traceability of wheat, rice and orange varieties for more different localities of India. This work will continue for the year 2015-2016.

(ii)  $^{12}\text{C}/^{13}\text{C}$  ratio for wheat, rice and orange traceability will be estimated for more different localities of India. This work will continue for the year 2015-2016.

#### 2. IAEA's Contribution

The IAEA shall pay a sum not exceeding € 3 500 (Three Thousand Five Hundred). *X 5 years*





الوكالة الدولية للطاقة الذرية  
国际原子能机构  
International Atomic Energy Agency  
Agence Internationale de l'énergie atomique  
Международное агентство по атомной энергии  
Organismo Internacional de Energía Atómica

Vienna International Centre, P.O. Box 100, A-1400 Vienna, Austria  
Phone: (+43 1) 2600 • Fax: (+43 1) 26007  
E-mail: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) • Internet: <http://www.iaea.org>

## IAEA Research Contract No: 20565

### Research Contract

This Research Contract is entered into between the International Atomic Energy Agency (hereinafter referred to as the "IAEA"), an intergovernmental organization established by its Statute, whose address is Vienna International Centre, P.O. Box 100, 1400 Vienna, Austria; and the University of Delhi (hereinafter referred to as the "Contractor") whose address is:

University of Delhi  
University Road  
New Delhi, Dehli 110 007  
India.

Hereinafter, the IAEA and the Contractor will also be referred to individually as a "Party" and collectively as the "Parties"

**Whereas**, the IAEA is authorized under its Statute and the decisions of its competent organs to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world, and this mandate includes the encouragement and assistance to research on, and the development of, practical applications of atomic energy for peaceful purposes throughout the world by, inter alia, entering into contracts for research and development;

Whereas the IAEA Coordinated Research Project D41026, entitled 'Improved Field Performance of Sterile male Lepidoptera to Ensure Success in SIT Programmes' has been approved from 18 March 2016 to 17 March 2021;

Whereas the IAEA has approved the Contractor's carrying out the Research Project entitled 'Quality Improvement of Mass Reared Moths and Assessment of Competitiveness of Radio-Sterilized Lepidopteran Pest,

*Spodoptera litura* and its F1 Progeny in Field Simulated Cages for Pest Suppression Through 'Inherited Sterility Technique' (hereinafter referred to as the "Research Project"), which forms part of the above-mentioned IAEA Coordinated Research Project; and

**Whereas**, the Contractor is able and willing to carry out the Research Project in cooperation with the IAEA under this Research Contract (hereinafter referred to as the "Contract").

**Now, therefore**, the Parties hereby agree as follows:

### Article 1

#### Scope of the Research Project

1. The Contractor undertakes to perform the Research Project entitled "Quality Improvement of Mass Reared Moths and Assessment of Competitiveness of Radio-Sterilized Lepidopteran Pest, *Spodoptera litura* and its F1 Progeny in Field Simulated Cages for Pest Suppression Through 'Inherited Sterility



Yogendra Singh

To: p.mohanty@serb.gov.in  
Subject: RE: DU Account Certified by SBI for JC Bose Fellowship (SB/S2/JCB-012/2015)

From: p.mohanty@serb.gov.in [mailto:p.mohanty@serb.gov.in]  
Sent: 11 August 2016 11:08  
To: Yogendra Singh  
Subject: Re: DU Account Certified by SBI for JC Bose Fellowship (SB/S2/JCB-012/2015)

Dear Prof. Singh,

Thank You for your email. It is with reference to appended below email, that the sanction amount has disbursed by means of RTGS transaction as per the bank details of your institute (as mentioned below). For fund release & RTGS detail, you may follow the below information or please contact Mr. Satish Marar (F&BO) at 011-40000328/329.

With Kind Regards  
Pravakar Mohanty

Mr/Ms/Prof/Dr.

YOGENDRA SINGH  
D/o ZOOLOGY,  
UNIVERSITY OF DELHI,  
DELHI - 110007  
Delhi

Subject: RTGS/NEFT UTR/ TRANS No. – File No. SB/S2/JCB-012/2015

Sir/Madam,

I am directed to refer to **Science & Engineering Research Board (SERB)** sanction order no. **SB/S2/JCB-012/2015** dated **02-06-2016** and forward herewith the following for information and necessary action:

RTGS/NEFT UTR/Transaction no.: **UBINH16169356125 / SAA203249959** dated **17-06-2016**.

**Rs.1360000/- (RUPEES THIRTEEN LAKH SIXTY THOUSAND ONLY)** transferred to A/c No.: **10851295365**, Bank Name/Branch : State Bank of India,

**Reference:**

1. **SERB, Finance Wing, Bill no: GIA/689 dated 09-06-2016**



VK 2

FILE NO. EMR/2015/002158  
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 28-Sep-2016

**ORDER**

Subject: Financial Sanction of the research project titled "Mechanism of food-induced effects on reproduction and metabolism: A study on Zebra finches" under the guidance of Dr. Vinod Kumar, Zoology, University of Delhi, North Campus, New Delhi, Delhi, New Delhi, Delhi-110007 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 5200688/- (Rs. Fifty Two Lakh Six Hundred and Eighty Eight Only) with break-up of Rs. 300000/- under Capital (Non-recurring) head and Rs. 4900688/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 5200688/- has been approved are given below:

The following budget may be considered for University Of Delhi, North Campus, New Delhi, Delhi

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Minor equipment (Existing equipment: repair, spare parts, maintenance etc.)	300000
A'	Total (Non-Recurring)	300000
B	Recurring Items	
1	Recurring - A : ( Manpower, Consumables, Travel, Contingencies)	4428688
2	Recurring - B : (Overhead Charges)	472000
B'	Total (Recurring)	4900688
C	Total cost of the project (A' + B')	5200688

- Sanction of the SERB is also accorded to the payment of
  - Rs. 300000/- (Rupees Three Lakh only) under 'Grants for creation of capital assets' and Rs. 1633000/- (Rupees Sixteen Lakh Thirty Three Thousand only) under 'Grants-in-aid General' to The Registrar, University Of Delhi, North Campus, New Delhi, Delhi being the first installment of the grant for the year 2016-2017 for implementation of the said research project.
- The expenditure involved is debitable to Fund for Science & Engineering Research (FSER). This release is being made under Extra Mural Research Funding (Individual Centric). (PAC Animal Sciences)
- The Sanction has been issued to University Of Delhi, North Campus, New Delhi, Delhi with the approval of the competent authority under delegated powers on 27 September, 2016 and vide Diary No. SERB/F/4634/2016-17 dated 28 September, 2016
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The release amount of Rs. 1933000/- (Rupees Nineteen Lakh Thirty Three Thousand only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	The Registrar, University of Delhi
Account Number	10851298650





INDO FRENCH CENTRE FOR THE PROMOTION OF ADVANCED RESEARCH  
(IFCPAR) **COURIER**  
CENTRE FRANCO-INDIEN POUR LA PROMOTION DE LA RECHERCHE AVANCÉE  
(CEFIPRA)

No. IFC/A/5303-1/2015/374

June 15, 2016

The Registrar  
University of Delhi  
Delhi 110 007.

Sub: CEFIPRA Research Project No. 5303-1 – "Deciphering the role of  
*Mycobacterium tuberculosis* Serine/Threonine protein phosphatase *PstP*"  
Joint Collaborator: Prof. Yogendra Singh

Sir,

I am to invite a reference to the mail dated 21.3.2016 of Dr. Yogendra Singh forwarding statement of account for the period from 27.4.2015 to 31.1.2016. The Director, CEFIPRA has been pleased to release a sum of Rs. 9,90,000/- for meeting expenses during 2<sup>nd</sup> year of the project as per details given below:

	Item	Approved budget Rs.	Unspent balance & refunded to IFCPAR Rs.	Amount to be released Rs.
1	Salary	3,90,000	93,167	3,90,000
2	Recurring Expenses	6,00,000	69,344	6,00,000
3	Travel (International)	-	4,11,545	-
4	Overhead charges	99,000	57,405	-
	Amount released		*6,31,462	9,90,000

\*The amount was refunded to IFCPAR by IGIB.

On 14.6.2016 we have requested our bank (SBH) to transfer an amount of Rs. 9,90,000/- (Rupees nine lakh ninety thousand only) to the account of Registrar, University of Delhi, which may kindly be acknowledged.

Please note that as per guidelines of CEFIPRA, the overhead charges @ 10% on the actual expenditure incurred during each year of the project, OR a maximum of Rs. 5,00,000/- for the entire duration of the project, whichever is less, will be reimbursed to the institution on receipt of the statement of account. The Co-PI (Prof. Yogendra Singh) has shifted from IGIF, Delhi, to Delhi University after the 1<sup>st</sup> year of the project, balance two year period of the project 27.4.2016 to 26.4.2016 will be implemented at Delhi University by Dr. Yogendra Singh, Co-PI. All the other terms and conditions of the project will remain as same.

[ P.T.O. ]



RL-3

FILE NO. EMR/2015/001505  
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 25-Jul-2016

**ORDER**

Subject: Financial Sanction of the research project titled "**Characterization of Free Living Ciliated Protists as indicators of pollution and their impact on the micro-ecology of river Yamuna flowing through National Capital Region (NCR) of Delhi, India**" under the guidance of Dr. Komal Kamra, Zoology, SGTB Khalsa College, University of Delhi, SGTB Khalsa College, University Of Delhi, North Campus, Delhi, Delhi, Delhi-110007 and by Dr. Laxmi Narula Na, Associate Professor, Zoology, SGTB Khalsa College, University Of Delhi and by Dr. Surinder Kaur Walia, Associate Professor, Botany, SGTB Khalsa College, University Of Delhi and by Prof. Rup Lal, Professor, Zoology, University Of Delhi, North Campus - Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned project at a total cost of **Rs. 6326840/-** (Rs. Sixty Three Lakh Twenty Six Thousand Eight Hundred and Forty Only) with break-up of **Rs. 998000/- under Capital (Non-recurring) head** and **Rs. 5328840/- under General (Recurring) head** for a duration of three years. The items of expenditure for which the total allocation of **Rs. 6326840/-** has been approved are given below:

The following budget may be considered for **SGTB Khalsa College, University Of Delhi, SGTB Khalsa College, University Of Delhi, North Campus, Delhi**

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Conductivity meter -> 5 KVA Green Silent Diesel Generator -> Air Conditioner (split) 1.5 ton with stabilizer -> Digital Camera -> BOD Incubator with stabilizer -> Camera and SW Kit for DIC Microscope -> Computing System -> Deep Freezer -20 degrees, 265 l -> Dissolved Oxygen meter -> Halogen lamps for DIC Microscope -> Turbidity meter -> Refrigerated Centrifuge 20000 rpm with R 248 rotors	998000
A'	Total (Non-Recurring)	998000
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - A : ( Manpower, Consumables, Travel, Contingencies)	4753840
2	Recurring - B : (Overhead Charges)	575000
B'	Total (Recurring)	5328840
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>6326840</b>

2. Sanction of the **SERB** is also accorded to the payment of  
**Rs. 998000/-** (Rupees Nine Lakh Ninety Eight Thousand only) under 'Grants for creation of capital assets'  
and **Rs. 1775000/-** (Rupees Seventeen Lakh Seventy Five Thousand only) under 'Grants-in-aid General' to  
**Principal, SGTB Khalsa College, University Of Delhi, SGTB Khalsa College, University Of Delhi, North Campus, Delhi**  
being the first installment of the grant for the year 2016-2017 for implementation of the said research



Block 2, 8<sup>th</sup> Floor  
CGO Complex, Lodhi Road  
New Delhi 110 003  
Dated: 28 March, 2016

**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 alternative sustainable fish feeds to promote human health using novel non-conventional indigenous ingredients**" under DBT-BBSRC-DFID joint call of proposals on "Developing aquaculture for food security, development and poverty reduction in developing countries" with Indian investigators as detailed in Para 2.2. Indian components of the project is sanctioned at a total cost of **Rs. 300.696 lakhs (Rupees Three Crore Sixty Nine Thousand and Six Hundred Only)** for a period of 3 years on the terms and conditions as detailed here under:

**2.0 The Project :**

**2.1 Project Title :** "Development of alternative sustainable fish feeds to promote human health using novel non-conventional indigenous ingredients".

**2.2 Investigators :**

**A. Indian Investigators:**

University of Delhi, Delhi:

a. Prof Rina Chakrabati, Department of Zoology, University of Delhi, Delhi -PI and coordinator

Goa University, Goa:

a. Prof. Ramaballav Roy, Department of Zoology, Goa University, Goa-PI

b. Prof. Savita Kerkar, Department of Biotechnology, Goa University, Goa-CO-PI

Kerala University of Fisheries and Ocean Studies, Kochi:

a. Dr. K. Padma kumar, Kerala University of Fisheries and Ocean Studies, Kochi- PI

b. Dr. S. Shyama, School of Aquaculture and Biotechnology, Kerala University of Fisheries and Ocean Studies, Kochi- CO-PI

Delhi Technological University, Delhi:

a. Dr. J. G. Sharma, Department of Zoology and Applied Aquaculture, Barkathullah University, Bhopal- PI

**B. UK Investigators:**

a. Professor Douglas Tocher, Institute of Aquaculture, University of Stirling, UK.

**2.3 Project Objectives:**

**i. University of Delhi, Delhi:**

- a. To screen the free floating macrophytes from various freshwater bodies and assessment of their application as aquafeed ingredients.
- b. To evaluate the proximate composition viz., moisture, crude protein, crude lipid, carbohydrates, fibres, ash, amino acids composition of selected macrophytes.
- c. Development of culture techniques for selected macrophytes in laboratory (outdoor cemented tanks) condition.
- d. To evaluate the composition (moisture, crude protein, crude lipid, carbohydrates, fibres, ash, amino acids) of prepared diets.
- e. *In vitro* digestibility study of prepared diets for *Cyprinus carpio* and *Oreochromis niloticus* using pH-Stat method.
- f. To formulate and prepare diets for *Cyprinus carpio* (common carp) and *Oreochromis niloticus* (tilapia).
- g. Evaluation of performance of fishes fed with prepared diets in laboratory condition.
- h. To disseminate knowledge and train farmers with culture techniques of freshwater macrophytes and selected fish species and preparation of diets.

*Swair*

Contd. 2/-

*RC*



DWS - 12

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**  
NATIONAL AGRICULTURAL SCIENCE FUND (NASF)  
KAB-I, New Delhi-110012

F.No. NFBSFARA/WQ-2023/2012-13

Dated: 27.05.2016

**Sub: Authorization for release of funds for two months (April-May, 2016) for the financial year 2016-17**

The following release of funds has been approved for the NFBSFARA as per details given below: -

1. Name of the Project/Programme/Activity: **"Bioremediation of agrochemicals and heavy metals present in Yamuna and drainage water used for irrigation in urban and peri-urban agricultural areas"**
2. Reference of Sanction letter: Letter No. NFBSFARA/WQ - 2023/2012-13
3. Name of the lead centre: **Delhi University, Delhi**
4. Name of the Cooperating centre(s): (a) IIT, Delhi, IARI, New Delhi
5. Scheme Code: NFBSFARA
6. Total sanctioned amount for the project: **Rs. 226.34604 lakhs**
7. Total sanctioned amount for the project for the current financial year 2016-17: **Rs. 3.8948 lakhs**
8. Total sanctioned amount for the project (DU, Delhi): **Rs. 97.1416 lakh**
9. Total sanctioned amount for the project (DU, Delhi) for the current financial year 2016-17: **Rs. 1.60160 lakh**
10. Fresh release for the financial year 2016-17: **Rs. 37665 lakhs**
11. Authorized to spent from saving of 2015-16: **Rs. 1.22495 lakhs**
12. Total release for the financial year 2016-17: **Rs. 1.60160 lakhs**
13. Year wise details of amount already authorized for released: Nil
14. Audit Utilization Certificate received up to (date): NA
15. Grant to be released in favour of: **The Registrar, University of Delhi, Delhi -110007**
16. Release under NEH/TSP/Other than NEH: **Other than NEH region and TSP**
17. The breakup of amount now authorized for payment is given overleaf in Table 1 (p2/3):

**IFSC Code: SBIN0001067, Bank Account No. 10851298650**

**(P.K.Agrawal)**  
**ADG (NASF)**

Section Dairy  
Section File No.

Date:  
Sl. No. of App. Ledger

Budget Allocation checked and found correct. Submitted and Budget Allocation Register and Remittance Register.

**F&AO (NASF)**

Pay Rs. (In words) \_\_\_\_\_

Finance & Accounts Officer (NASF)

Paid by Cheque No. \_\_\_\_\_ Date: \_\_\_\_\_

Cash Book Voucher No. \_\_\_\_\_ Date: \_\_\_\_\_



RL-6

No. BT/PR15118/BCE/8/1141/2015  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 01.02.2017

**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 "**Exploring Diversity, Functional Dynamics and Biotechnological Applications of Bacterial Communities Inhabiting Hot Water Spring Atop the Himalayan Ranges at Manikaran, Himachal Pradesh, India**" for a period of 3 Year 0 Month at a total cost of Rs. **5223200** (Rupees Fifty Two Lakhs Twenty Three Thousand Two Hundred Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title** Exploring Diversity, Functional Dynamics and Biotechnological Applications of Bacterial Communities Inhabiting Hot Water Spring Atop the Himalayan Ranges at Manikaran, Himachal Pradesh, India

**2.2 Details of the Investigators:**

**Prof. Rup Lal**

Professor  
Molecular Biology Laboratory,  
Department of Zoology,  
North Campus, University of Delhi, Delhi - 110007

**CO-PI:**

**Prof. Mallikarjun N Shakarad**

Associate Professor,  
Department of Zoology,  
Room No 205, North Campus,  
University of Delhi,  
Delhi- 110007

**Dr. Bharti Gaur**

Associate Professor,  
Department of Chemistry,  
National Institute of Technology,  
Hamirpur- 177005, Himachal Pradesh

