



जैव विज्ञान अनुसंधान बोर्ड
रक्षा अनुसंधान एवं विकास संगठन मुख्यालय
तृतीय तल, डी आर डी ओ भवन
कमरा न 399/04 नई दिल्ली 110011
टेली फैक्स - 011-23012652
टेलीफोन 011-23007894/23007895
Email : lsrb@hqr.drdo.in

Life Sciences Research Board
Defence Res. & Dev. Organisation HQ
3rd Floor, DRDO Bhawan
Room No. 399/04, New Delhi – 110011
Tele Fax : 011-23012652
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Email : lsrb@hqr.drdo.in

No. O/o DG (TM)/81/48222/LSRB-317/SH&DD/2017

Date: 13.06.2018

To,

The Director
University of Delhi South Campus,
New Delhi-110021

Sub : GRANTS IN AID SCHEME OF LIFE SCIENCES RESEARCH BOARD

In exercise of powers vested in the Life Sciences Research Board vide Govt. of India, Ministry of Defence letters No. DBAS/48222/RD-81/784/D(R&D) dt 06 Mar 1998 and subsequent amendment made vide letter No.CC R&D (TM)/01/01/Research Boards/247/D (R&D) dated 03rd Feb 2014 and DRDO/ DBFA/FA/83226/M/01/2031/D(R&D) dated 30 Jul 2010, para 3.1, as amended from time to time, I hereby convey the sanction of the Board for the following project at the cost of Rs 65,43,392/- (Rupees sixty five lakh forty three thousand three hundred and ninety two only)

Project Title and No:

Title : "Development of Hemoglobin based artificial oxygen carrier engineering recombinant and packaged hemoglobin"

No : LSRB-317/SH&DD/2017

PI : Dr Suman Kundu
Professor
Department of Biochemistry
University of Delhi South Campus
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Co-PI: Dr Alo Nag
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PDC : 03 Years

Cost : Rs 65,43,392/- (Rupees sixty five lakh forty three thousand three hundred and ninety two only)

LSRB.....

..... Securing health and promoting performance of our Services

COST BREAK-UP

Grants	1 st year IC	2 nd year IC	3 rd Year IC	Line total
(a). Research Staff (SRF- 02)	8,33,280	8,33,280	8,33,280	24,99,840
(b) Lab Attendant	2,40,000	2,40,000	2,40,000	7,20,000
(b).Non-expandable equipment and stores:- Laser flash photolysis accessories	11,25,000	NIL	NIL	11,25,000
(c) Expendable stores, Chemicals etc	6,30,000	5,40,000	1,80,000	13,50,000
(d). Contingencies	86,348	49,898	39,098	1,75,344
(e). TA/DA (including TA/DA of specialist/ monitors for the project)	50,000	50,000	50,000	1,50,000
(f). Overhead charges	2,44,500	1,71,318	1,07,390	5,23,208
Total	32,09,128	18,84,496	14,49,768	65,43,392

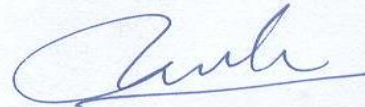
Grand Total: Rs 65,43,392/- (Rupees sixty five lakh forty three thousand three hundred and ninety two only)

2. The research staff is only for the duration of the project. DRDO holds no responsibility for further employment/absorption of the staff. The staff will be recruited as per rules & procedure of the grantee institution.
3. Statements of account duly certified by the executive financial authority of the institution are also required to be submitted along with the annual reports. **Excess expenditure, beyond the yearly sanction, unless authorised by LSRB in writing, shall be the responsibility of the grantee institution.**
4. The annual statement of Expenditure & utilization certificate should be in accordance with the **General Financial Rule-19 (GFR-19)**.
5. The duration of the project is **03 Years**. The date of issue of this letter would be reckoned as the commencement date of the project.
6. PI to ensure that the laboratory guidelines for genetic engineering, animal experimentation and medical ethics issued by DBT, Animal Welfare Division (CPCSEA) and Ministry of Health & Family Welfare, Govt. of India, respectively and any other statutory issues related to the experiments are adhered to.
7. A separate saving bank account for the grant would be maintained and interest earned thereon would be accrued in the project account by the Institute. **Interest earned to be refunded to LSRB in the form of DD / Cheque addressed to PCDA (R&D) New Delhi** along with contingent bill for the release of next year grant. On completion of the project, the grantee institute should send the unspent money to Member Secretary, LSRB through DD / Cheque in favour of PCDA (R&D), New Delhi.
8. A list of inventory of equipment purchased out of LSRB grant shall be intimated along with annual report/closure report, giving item-wise cost, date of purchase and source of procurement to LSRB Sectt. The equipment should be stamped LSRB Project number and each item should be serially numbered. The photocopy of the stock registers maintained by the institute/university for the non-expendable and expendable stores may be submitted duly audited with a **certificate** from the audit authorities that **"the necessary check has been made and the inventory is found to be in order"**. For further details, kindly refer the website of DRDO/LSRB i.e. <http://www.drdo.gov.in/drdo/English/indexCorpDir.jsp?pg=home.jsp&dir=LSRB>
9. **On completion of the project, the grantee institution would forward the consolidated audited list of equipments and expendable items, if any, with request for retention of equipment for another project or in house R&D, with due recommendations of their executive authority.**
10. **Dr Amit Tyagi, Sc 'E', from INMAS, Delhi, will be the facilitator.** He will be visiting the Institute for periodical monitoring of the project.

11. Following **policy on the Intellectual Properties** generated under the scheme will be taken care of:-
- a) All Foreground Information and Foreground Intellectual Property, created during the performance of the Project, whether or not legally protected, shall be owned jointly by DRDO and Grantee Institution. DRDO and Grantee Institution shall be deemed to have a royalty-free license to use such joint Foreground Information and Foreground Intellectual Property Rights for their own R&D purposes.
 - b) Grantee Institution shall not publish any research paper covering Foreground Information generated during the performance of the Project before seeking written consent from DRDO to assure that no proprietary information is released and no legal rights covering Foreground Information are jeopardized. Normally, such decision for publication shall be provided by DRDO within 30 days of receipt of such request from Grantee Institution.
 - c) Grantee Institute shall promptly report to DRDO about any Intellectual Property generated during the performance of the Project. DRDO and Grantee Institution shall confer and consult each other regarding preparation, filing, prosecution, maintenance of Intellectual Property Rights applications including patent applications covering Foreground Information, generated during the performance of the project. DRDO shall be responsible for filing, prosecution, grant and maintenance of such Intellectual Property Applications including patent applications and Grantee Institute shall render all possible help to DRDO regarding the same. DRDO shall also bear all expenses related to filing, prosecution, grant and maintenance of such Intellectual Property Applications including patent applications.
 - d) Grantee Institution may commercially exploit any Foreground Information and Foreground Intellectual Property Rights, generated during the performance of the Project, whether or not legally protected, for purposes other than Government Applications upon conclusion of the separate agreements to be negotiated between Grantee Institution and DRDO. Grantee Institution shall maintain an account of its incomes arising out of such commercial use and any royalty income shall be shared equally between DRDO and Grantee Institution.
 - e) Notwithstanding any provisions mentioned above or any future licensing agreements, DRDO shall be deemed to have all rights including a nonexclusive, irrevocable, royalty-free, world-wide perpetual license for the unlimited commercial development, series production, continuing engineering support, product improvement, or have developed, any Foreground Information and Foreground Intellectual Property, generated during the performance of the Project, whether or not legally protected, for the purposes of Government Applications including armed forces and paramilitary forces.
 - f) Whenever DRDO informs Grantee Institution that the interest of national security requires Grantee Institution to refrain from commercially supplying product/process based upon any Foreground Information and Foreground Intellectual Property, generated during the performance of project, whether or not legally protected, to any particular third parties, or stipulate conditions in such commercial sale, Grantee Institution shall abide by DRDO requirements.
 - g) DRDO shall not be responsible and shall not accept any liability for infringement, innocent or otherwise, by PI or the Grantee Institute of the Intellectual Property Rights of third parties.
 - h) The term of the above provisions shall survive the term of the Project.
12. If there is any legal issue/dispute, it shall be redressed within the jurisdiction of Delhi.
13. PCDA (R&D), DRDO Cell, West Block-V, RK Puram, New Delhi-110066 will make disbursement of money as sanctioned. Payment shall be released through e-payment system and physical cheques will not be issued. A mandate form is enclosed for filling up the required information and forwarding alongwith a blank cancelled cheque bearing account number.
14. In case of premature termination/closure of the project, the grantee institute is liable to refund the entire budget released to them alongwith interest.

15. **Closure report** – On completion / closure / termination of the project, three copies of the consolidated closure report (soft & hard copy) as per **ANNEXURE III** (refer website) should be submitted alongwith a certificate that objectives of the project have been achieved. The Executive Summary & unspent amount if any will also be submitted through DD/ Cheque in favour of PCDA (R&D) by PI within **3 months** of completion of the project.
16. Ensure about providing of reservation for Scheduled Castes and Scheduled Tribes or OBC in posts and services.
17. The expenditure will be debited to Major Head - 2080 (Defence Services) R&D Minor Head-004 Research & Development, Code Head 852/05 of the Defence Services Estimates.
18. Contingent bill (in triplicate) for the release of grant for first year i.e. **Rs. 32,09,128/- (Rupees Thirty two lakhs nine thousand one hundred and twenty eight only)** duly completed and signed on revenue stamp with official seal by the competent financial authority of the institute alongwith ECS mandate form may please be forwarded to us immediately for onward submission to PCDA for payment.
19. This issues with the concurrence of IFA (R&D), New Delhi vide their UO No 1940/0275 dt 12.06.2018
20. The sanction code is DGTM/TM/LSRB/GIA/18-19/0063 dt 13.06.2018
21. Kindly acknowledge receipt.

Yours faithfully



(Dr. Rajio Singh)
Member Secretary,
Life Science Research Board
O/o DG (TM)

Ink Signed Copy :

- (i) PCDA (R&D), DRDO Cell, West Block-V, R K Puram, New Delhi-110066
- (ii) IFA (R&D), DRDO Bhawan, New Delhi-110011
- (iii) DGADS, 'L-1' Block, Church Road, New Delhi-110011
- (iv) OS & DG (TM), DRDO Bhawan, New Delhi-110011
- (v) DS & DG (LS), DRDO Bhawan, New Delhi-110011
- (vi) **Dr Suman Kundu**
Professor
Department of Biochemistry
University of Delhi South Campus
Benito Juarez Road Dhuala Kuan
New Delhi-110021

Copy to:

- (vii) Chairman Spl Panel SH&DD & OS and Director, INMAS, Delhi
- (viii) Member Secretary, ARMREB, DRDO Bhawan, New Delhi-110011
- (ix) Member Secretary, AR&DB, DRDO Bhawan, New Delhi-110011
- (x) Member Secretary, NRB, DRDO Bhawan, New Delhi-110011
- (xi) DER&IPR, DRDO Bhawan, New Delhi-110011