



जीव विज्ञान अनुसंधान बोर्ड
रक्षा अनुसंधान एवं विकास संगठन मुख्यालय
सुदीय बल, डी अर डी ओ भवन
कमरा नं 399/04 नई दिल्ली 110011
टेली फैक्स - 011-23012652
टेलीफोन 011-23007894/23007895
Email : lsrb@hq.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
Tele : 011-23007894/23007895
Email : lsrb@hq.drdo.in

No. O/o DG (TM)/81/48222/LSRB-323/BTB/2017

Date: 27.04.2018

To,

The Registrar
Pt Ravishankar Shukla University
Raipur-492010, Chhattisgarh

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 30,94,087/- (Rupees Thirty lakh ninety four thousand and eighty seven only)

Project Title and No:

Title : "Bacterial Bio-Reporters for Detection of Landmines Vapors"

No : LSRB-323/BTB/2017

PI : Dr Keshav Kant Sahu
Professor
School of Studies in Biotechnology
Pt Ravishankar Shukla University
Raipur-492010, Chhattisgarh
Ph: 0771-2263022
Mob: 09425228966
Email: skeshavkant@gmail.com

Co-PI: Dr S K Jadhav
Professor
School of Studies in Biotechnology
Pt Ravishankar Shukla University
Raipur-492010, Chhattisgarh
Ph: 0771-2263022
Mob: 09827114218
Email: jadhav9862@gmail.com

PDC : 03 Years

Cost : Rs 30,94,087/- (Rupees Thirty lakh ninety four thousand and eighty seven only)

LSRB.....

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COST BREAK-UP

Grants	1 st year IC	2 nd year IC	3 rd Year IC	Line total
(a). Research Staff (JRF- 01)	3,24,000	3,24,000	3,62,880	10,10,880
(b). Non-expandable equipment and stores Microscope Sonicator & Refrigerated High speed centrifuge	9,90,000	NIL	NIL	9,90,000
(c) Expendable stores, Chemicals etc	2,30,000	1,80,000	1,30,000	5,40,000
(d). Contingencies (Not more than 3%)	48,420	17,220	16,286	81,926
(e). TA/DA (including TA/DA of specialist/ monitors for the project)	70,000	70,000	50,000	1,90,000
(f). Overhead charges	1,66,242	59,122	55,917	2,81,281
Total	18,28,662	6,50,342	6,15,083	30,94,087

Grand Total: Rs 30,94,087/- (Rupees Thirty lakh ninety four thousand and eighty seven 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 by **The Registrar, Pt Ravishakar Shukla University, Raipur-492010, Chhattisgarh** and interest earned thereon would accrue to LSRB. In case of interests not accrue under the project the reason for the same may be incorporated in utilization certificate for audit purpose. Unspent balance, on completion of the project should be sent by the grantee institution through a Draft in favour of CDA (R&D), New Delhi to LSRB Secretariat for depositing the amount back in Govt. accounts.
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 Vijai Pal, Sc 'E', DRDE, Gwalior, will be the facilitator. He will be visiting the Institute for periodical monitoring of the project.

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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 as per annexure III (refer website) will be submitted within three months with all necessary certificates and financial information. It should give sufficient technical details of project, achievements in relation to the originally stated objectives of the project and utilization of results.
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. 18,28,662/- (Rupees Eighteen lakh twenty eight thousand six hundred and sixty two 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 1940/0093 dt 26.04.2018.
20. The sanction code is DGTM/TM/LSRB/GIA/18-19/0017 dt 27.04.2018
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 Keshav Kant Sahu**
Professor
School of Studies in Biotechnology
Pt Ravishankar Shukla University
Raipur-492010, Chhattisgarh

Copy to:

- (vii) Chairman Spl Panel BTB and Director, DRDE, Gwalior
(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

No. O/o DG (TM)/81/48222/LSRB-323/BTB/2017

Date: 18.09.2019

CORRIGENDUM : Project No. LSRB-323

Under provisions of GOI, MoD letter No. DBAS/48222/RD-81/784/D(R&D) dt 06 Mar 1998 and S.No.3.1 of GOI, MoD letter No. DFMM/II/GP/0000118/M, dt 28.06.2018, the following amendment is made to LSRB sanction letter No. O/o DG(TM)/81/48222/LSRB-323/BTB /2017 dated 27.04.2018 regarding project entitled "Bacterial Bio-reporters for detection of Landmines vapors"(LSRB-323) for re-appropriation under heads with revised project cost due to enhancement of Research fellow salary.

Cost Break-up

Grants	1st Year IC	2nd Year IC	3rd Year IC	Line Total
(a) Research Staff (JRF-01)	3,24,000	3,24,000	3,62,880	10,10,880
(b) Non-expandable equipment and stores Microscope Sonicator & Refrigerated High Speed Centrifuge	9,90,000	NIL	NIL	9,90,000
(c) Expendable stores, chemicals etc.	2,30,000	1,80,000	1,30,000	5,40,000
(d) Contingencies (Not more than 3%)	48,420	17,220	16,286	81,926
(e) TA/DA (including TA/DA of specialist/monitors for the project)	70,000	70,000	50,000	1,90,000
(f) Overhead charges	1,66,242	59,122	55,917	2,81,281
Total	18,28,662	6,50,342	6,15,083	30,94,087

Grand Total : Rs 30,94,087/- (Rupees Thirty lakh ninety four thousand and eighty seven only)

Read

Revised Break-up of cost

Grants	1st Year IC	2nd Year IC	3rd Year IC	Line Total
(a) Research Staff (JRF-01)	3,49,056	4,01,760	4,53,600	12,04,416
(b) Non-expandable equipment and stores Microscope Sonicator & Refrigerated High Speed Centrifuge	990000	-	-	990000
(c) Expendable stores, chemicals etc.	230000	180000	130000	540000
(d) Contingencies (Not more than 3%)	48420	17220	16286	81926
(e) TA/DA (including TA/DA of specialist/monitors for the project)	70000	70000	50000	190000
(f) Overhead charges	166242	59122	55917	281281
Total	1853718	728102	705803	3287623

Grand Total: Rs 32,87,623/- (Rupees Thirty two lakh eighty seven thousand six hundred and twenty three only)

This issues with the concurrence of IFA (R&D), New Delhi vide their U.O. No. IFA/R&D/0031/LSRB/2019/VOL-1/081 dt 12.09.2019.

3. The sanction code No. is DGTM/LSRB/GIA/19-20/0193 dt. 18/09/2019.



(Dr. RP Bhatt)
Member Secretary, LSRB

To

Registrar
Pt. Ravisankar Shukla University, Raipur-492010, Chhattisgarh

COPIES TO (INK SIGNED COPIES)

- (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) DS & DG (LS), DRDO Bhawan, New Delhi-110011
- (v) OS & DG (TM), DRDO Bhawan, New Delhi-110011
- (vi) Dr. Keshav Kant Lahu, PI, Pt RS University, School of Studies, Raipur, Chhattisgarh-492010