



रक्षा अनुसंधान एवं विकास संगठन मुख्यालय

महानिदेशक कार्यालय (टी. एम.)

जैव विज्ञान अनुसंधान बोर्ड

कमरा नं 399/04, तृतीय तल,

डी आर डी ओ भवन, राजा जी मार्ग,

नई दिल्ली - 110011

फोन : 011-23007894

फैक्स : 011-23012652

ईमेल : [lsrb@hqr.drdo.in](mailto:lsrb@hqr.drdo.in)

Defence Res. & Dev. Organisation HQ

O/o Director General (TM)

Life Sciences Research Board

Room No. 399/04, 3rd Floor,

DRDO Bhawan, Rajaji Marg,

New Delhi - 110011

Ph : 011-23007894

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Email : [lsrb@hqr.drdo.in](mailto:lsrb@hqr.drdo.in)

No.O/o DG (TM)/81/48222/LSRB-348/FSH&ABB/2019

Date : 10.06.2019

To,

**Vice Chancellor**

Sathyabama Institute of Science and Technology,

Deemed to be University,

Jeppiaar Nagar, Rajiv Gandhi Salai,

**Chennai-600119**

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, as amended from time to time in terms of SL No 3.1, and GoI, MoD letter No DRDO/DFMM/PL/83226/M/01/1174/D (R&D) dt 28.06.2018. I hereby convey the sanction of the Board for the following project at the cost of **Rs.32,37,070/- (Rupees Thirty two lakh thirty seven thousand and seventy only)**

**Project Title and No:**

**Title :** "Design and development of natural hepato protective churnam for army personnel working in extreme conditions"

**No :** LSRB-348/FSH&ABB/2019

**PI :** **Dr. Y Swarnalatha**  
Professor  
Department of Biotechnology,  
Sathyabama University,  
Jeppiaar Nagar, **Chennai-600119**  
Mob : 09710431945  
Email: [lokiswarna@gmail.com](mailto:lokiswarna@gmail.com)

**Co-PI :** **Dr. S. Sivakkumar**  
Dept. of Gunapadam,  
National Institute of Siddha,  
Tambaram Sanatorium,  
**Chennai-600047**  
Ph : 09962528338  
Email : [ssknis@gmail.com](mailto:ssknis@gmail.com)

**PDC :** 03 Years

**Cost :** Rs.32,37,070/- (Rupees Thirty two lakh thirty seven thousand and seventy only)

## Break-up of the cost:

| Grants                                                                                      | 1 <sup>st</sup> Yr IC | 2 <sup>nd</sup> Yr IC | 3 <sup>rd</sup> Yr IC | Line total       |
|---------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|
| (a). Research Staff : JRF – 01                                                              | 3,72,000              | 3,72,000              | 4,16,640              | 11,60,640        |
| (b).Non-expandable equipment and stores                                                     | -                     | 2,37,000              | -                     | 2,37,000         |
| (i) Homogenizer                                                                             |                       |                       |                       |                  |
| (ii) Refrigerated centrifuge                                                                |                       |                       |                       |                  |
| (c) Expendable stores, Chemicals etc                                                        | 2,80,000              | 4,30,000              | 2,80,000              | 9,90,000         |
| (d) Others                                                                                  |                       |                       |                       |                  |
| (i) cultivate plant – manure, seedling, watering charges and gardener chares                |                       |                       |                       |                  |
| (ii) Purification and characterization of 4 active compounds to carry out animal experiment | 1,83,500              | 1,25,000              | 1,30,800              | 4,39,300         |
| (d). Contingencies                                                                          | 28,000                | 40,000                | 27,000                | 95,000           |
| (e). TA/DA (including TA/DA of specialist/ monitors for the project)                        | 30,000                | 30,000                | 10,000                | 70,000           |
| (f). Overhead charges                                                                       | 75,000                | 1,00,130              | 70,000                | 2,45,130         |
| <b>Total</b>                                                                                | <b>9,68,500</b>       | <b>13,34,130</b>      | <b>9,34,440</b>       | <b>32,37,070</b> |

**Grant Total = Rs.32,37,070/- (Rupees Thirty two lakh thirty seven thousand and seventy 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. All Interests or other earnings against Grants – in – aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances should not be allowed to be adjusted against future releases.

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

<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.

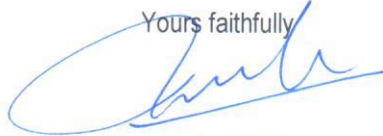
10. **Dr. Illaiyaraja N., Sc-‘D’, DFRL, Mysore** will be the facilitator. He will be visiting the Institute for periodical monitoring of the project.

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.9,68,500/- (Rupees nine lakh sixty eight thousand and five hundred 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.IFA/R&D/0031/LSRB/2019/Vol./0278, dt 29.05.2019
20. The sanction code is DGTM/LSRB/GIA/19-20/0074, dt 06.06.2019.
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) OS & DG (LS), DRDO Bhawan, New Delhi-110011
- (vi) **Dr. Y Swarnalatha**  
Professor  
Department of Biotechnology,  
Sathyabama University, Jeppiar Nagar,  
**Chennai-600119**

Copy to:

- (vii) Chairman Spl Panel FSH&ABB and Director, DFRL, Mysore
- (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