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Govt of India  
Ministry of Defence  
Defence Res & Dev Organization  
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Date: 16.12.2022

### CIRCULAR

Life Sciences laboratories of DRDO are working on development of various cutting-edge technologies to enhance the combat efficiency of Armed Forces operating in difficult terrains of the country.

Life Sciences Research Board (LSRB) of DRDO was established to support and strengthen research base in the area of life sciences through projects under **grant-in-aid scheme** in order to harness and nurture research talent in the academic institutions of the country.

Food, Agriculture & Bio-prospecting (FAB) Specialist Panel of LSRB is organizing a **Webinar on Research verticals on 22<sup>nd</sup> December from 1000-1300 hrs.**

#### **Indicative Research verticals of the panel are listed below-**

1. Personal protection systems for soldiers during jungle operations
2. Soldier assist system for combat efficiency enhancement during jungle operations
3. Human waste management at high altitudes and low temperature areas
4. Novel energy storage technologies and products (Liquid metal battery/ Novel battery technology for cold climate)
5. Low air speed capable small wind turbine
6. Wireless power transfer (long distance)
7. Wireless agro sensor network and AI based management
8. Flexible solar panels and Agri-voltaics
9. Simulation of gut and modelling
10. Biosensors for quality monitoring of foods
11. Alternative proteins
12. Meat/fish/egg analogues including lab grown meat
13. Microbial technologies for organic waste decomposition & soil health
14. Plant physiology (abiotic & biotic) for crop production
15. Nanotechnology for shelf-life extension of vegetables & fruits
16. Gut microbiome for animal growth, adaption & endurance

The weblink for registration is given below. Selected registered participants will be sent weblink to attend the webinar.

<https://forms.gle/mFQCN4RNRPeq9UZZT9>

This has the approval of Director, DRL.

**(Dr. Ajitabh Bora)**  
Sc-E & Member Secy  
FAB Spl Panel LSRB  
DRL-DRDO, Tezpur