

ICAR - National Meat Research Institute

Chengicherla, P.B. No. 19, Boduppal PO, Hyderabad-500 092, Telangana, India

(ISO 9001:2015 और FSSC 22000 प्रमाणित, ISO/IEC 17025:2017 NABL मान्यता प्राप्त, FSSAI रेफरल प्रयोगशाला)

Portable UV device for inactivation of *Bacillus anthracis* spores in soil samples

Inventor: Dr. Deepak B. Rawool, Dr. S. B. Barbuddhe, Dr Ramakrishna C., Dr Baswa Reddy, Dr. Laxman Chatlod, Dr. Yogesh Gadekar

Brief Description: The unique features of the developed device are

- The developed device (Portable UV cabinet and Portable battery-operated power supply) will be quite handy to inactivate *B. anthracis* spores in soil samples at field level.
- The portable UV Aluminum device is safe from operator point of view as UV radiation emitted by UV lamp are blocked by Aluminum device.
- At a time 6 soil samples can be processed for inactivation of *B. anthracis* spores.
- The fully charged portable battery-operated device can provide a power supply to portable UV Cabinet for at least 14 to 16 h.
- The inactivated *B. anthracis* spores using this device are quite safe to handle, transport and process in the laboratory for downstream applications such as its detection using molecular tools (PCR or RealTime PCR).

Cost of the technology: Rs 2.0 Lakh + GST

Photo



For further details please contact:

Director,

ICAR - National Meat Research Institute

Chengicherla, P.B. No. 19, Boduppal PO, Hyderabad-500 092, Telangana, India

Phone: 040-29801672/73/74; Email: director.nmri@icar.org.in; Website: <https://nmri.res>