

Krishi PS-1925® - Drone for Climate-Smart Agriculture and Precision Spraying

APPLICATION

Crop Protection Drone for Climate-Smart Agriculture and Precision Spraying – “Krishi PS-1925®”.

COMPANY NAME

Droaerody Pvt Ltd

TECHNOLOGY READINESS LEVEL (TRL)

TRL: 5 (Currently under the field trials & optimization stage)

INTELLECTUAL PROPERTY

Indian Patent Application No: 202111018129

FOUNDERS' NAME

Paawan Kumar

PROBLEM ADDRESSED

Around 36,000 million US Dollars of annual crop yield loss is witnessed in India due to pest attacks. Farmers do not get labor on time due to which the crop productivity is significantly affected. Farmers also face health issues due to prolonged exposure to crop protection chemicals. Also, due to uninformed decisions, farmers over-utilize tons of crop protection chemicals and water. For these 4 problems, we have 1 solution – “Krishi PS-1925” – Drone for climate-smart agriculture and precision spraying.

ABOUT THE TECHNOLOGY

- AI-based optimized drone technology solution for pesticide spraying and variable rate application.
- Optimal pesticide dispersal system parameters (based on experimentation).
- Calibration of the designed aerial application equipment) capable of precision spraying and which can reduce drift and off-target drift movement

FUNDS RAISED/ACHIEVEMENTS

- Boeing University Innovation Leadership Development (BUILD) Program 2019 - \$10,000 USD
- Cisco Global Problem Solver (GPS) Challenge 2020 - \$10,000 USD
- Funded PoC for Filaha Innovation Program, powered by AgriEdge & the OCP Group, in Morocco.
- BIRAC BIG Call 19 Grant Awardee – INR 50 Lakhs
- NIDHI EIR Fellowship Awardee support of INR 7 Lakhs
- Facebook Small Business Grant –INR 1 lakh
- Canada-India Acceleration Program 2018 – Top 10

PRODUCT IMAGE



USP

- Modular Drone for Multi-Crop Application and Multi-purpose application (nutrients, fertilizers, seeds, and pesticides).
- Modular Drone with lightweight structure.
- Sturdy drone tested with High Altitude Drop Test (HADT)
- IP67 Protection

END USERS/CUSTOMERS

- Large (>10 ha), Medium (5-10 ha), Semi-Medium (1-5 ha) Landholding Farmers – Direct Sales (B2C)
- Govt. agencies/agriculture institutes/stakeholders – Tenders (B2G)
- Agri Inputs Manufacturing Companies (B2B)