





OPTIVALUS TEK
CONSULTING

INDIA'S FIRST INTEGRATED AGRICULTURAL DRONE + AI SOFTWARE PLATFORM

Simultaneous Spray | Seed Dispersion | RGB Crop Analytics | AI-Driven Insights



MADE IN INDIA MADE IN

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www.optivaluetek.com

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Single-Drone Multi-Function Agricultural System with AI Software

India’s First Platform Combining:

- **Liquid spraying**
- **Seed spraying**
- **RGB crop monitoring**
- **AI-based data analytics**
- **All in one flight, one system**



About **OptiValue Tek**

OptiValue Tek is an Indian technology company developing next-generation agricultural drones integrated with advanced AI software.

The company’s focus is not only on flying drones, but on making drones easy to use, data-driven, and outcome-oriented for farmers, FPOs, and government institutions.



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INDUSTRY PROBLEM

Challenges in Current Agricultural Practices

- Manual spraying with low accuracy
- Multiple operations requiring multiple tools
- Lack of real-time crop health information
- No predictive insight into crop diseases
- Poor decision-making due to absence of analytics



visit our website:
www.optivaluetek.com

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SOLUTION

Drone + AI Software Ecosystem



OptiValue Tek offers a fully integrated solution where:

- A single drone performs multiple agricultural tasks
- AI software simplifies drone operation
- Fields are accurately mapped using data analytics
- Crop health insights are delivered at the right time





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INDIA'S FIRST INTEGRATED MODEL

National First Achievement

OptiValue Tek is India's first company to introduce:

- A single drone capable of:
  - Liquid spraying
  - Seed spraying
  - RGB crop data collection
- Combined with AI-based software analytics
- This integration is not available in any other Indian drone platform.

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FLIGHT & OPERATION PERFORMANCE

Real-World Field Capability

- Minimum Flight Time: > 25 minutes
- Liquid Tank Capacity: 10 Liters
- Spray Coverage: 1 acre per flight
- Battery Efficiency: Up to 3 acres per battery set
- Simultaneous Operations: Spray + seed + data capture



PRECISION SPRAY & SEED SYSTEM

High-Accuracy Field Application

- 4 to 5 interchangeable spray nozzles
- Intelligent flow-rate control
- Anti sea-bombing (set spray) technology
- Uniform spray and seed distribution
- Reduced chemical and seed wastage







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DUAL GPS & NAVIGATION

Accurate Field Mapping

- High-precision dual GPS system
- Accurate field boundary mapping
- Stable autonomous flight paths
- Repeatable and auditable missions
- Ideal for small and large farm plots





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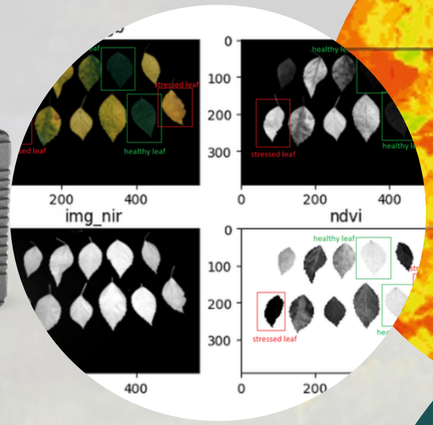
RGB CROP MONITORING

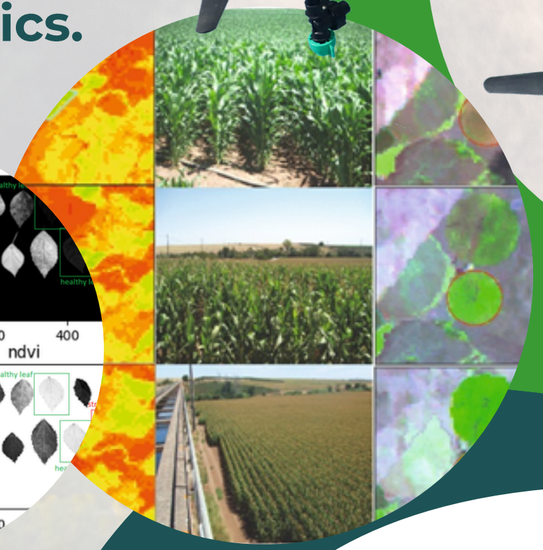
Continuous Crop Observation

- High-resolution RGB photography
- Geo-tagged crop images
- Pre-spray and post-spray documentation
- Seasonal and stage-wise crop records

RGB data forms the base layer for AI analytics.









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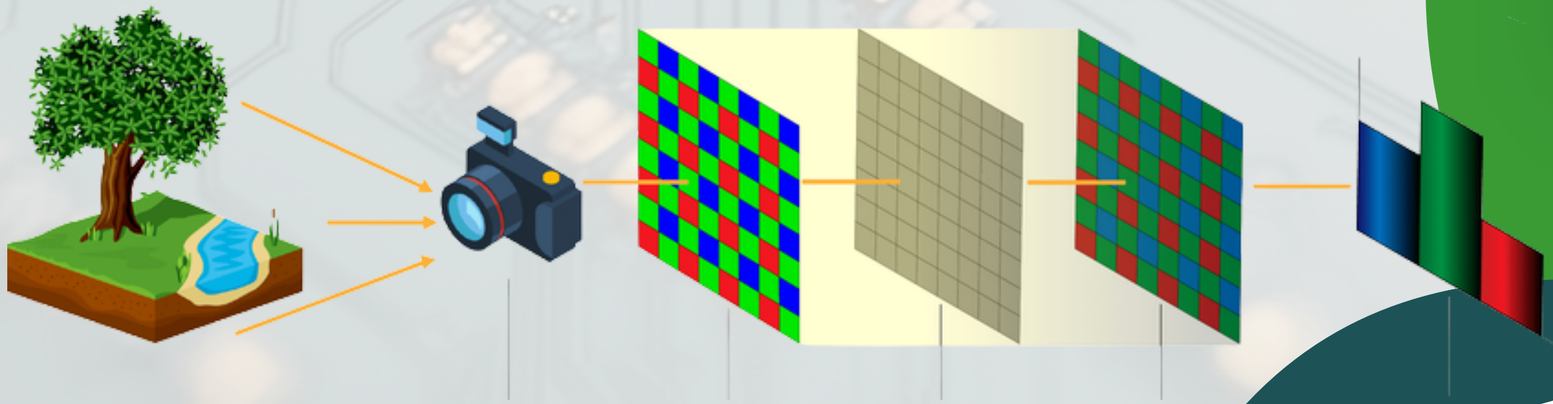
AI SOFTWARE PLATFORM (SPORT AI)

Intelligent Agricultural Software

OptiValue Tek uses SPORT AI software to make drone usage simple and intelligent.

The software:

- Simplifies mission planning
- Automates field mapping
- Processes RGB images
- Converts raw data into actionable insights





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FIELD MAPPING & DATA ANALYTICS

Accurate Digital Field Mapping

- Boundary detection using GPS and imagery
- Area calculation and zone segmentation
- Crop-wise and plot-wise analysis
- Historical field data storage

This ensures correct information for correct decisions.

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CROP GROWTH ANALYTICS

Understanding Crop Growth Using AI and RGB data, the software helps identify:

- Crop growth stage
- Canopy coverage percentage
- Growth speed and uniformity
- Underperforming crop zones



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CROP HEALTH & DISEASE PREDICTION

Early Warning Through AI
The AI software analyzes RGB patterns to:

- Detect early crop stress
- Identify signs of nutrient deficiency
- Predict possible disease occurrence
- Alert users before visible damage appears

This enables timely preventive action.



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TIME-BASED CROP HEALTH HISTORY

Crop Health at Any Given Time A unique feature of OptiValue Tek:

- View crop health at any past date
- Compare growth over time
- Monitor impact of spraying and seeding
- Create a digital crop health timeline

This capability is first of its kind in India using RGB analytics.





DECISION SUPPORT DASHBOARD

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Actionable Intelligence

- Field-wise crop health reports
- Spray and seed operation records
- Growth trend charts
- Downloadable reports for government and FPOs
- Simple interface for non-technical users



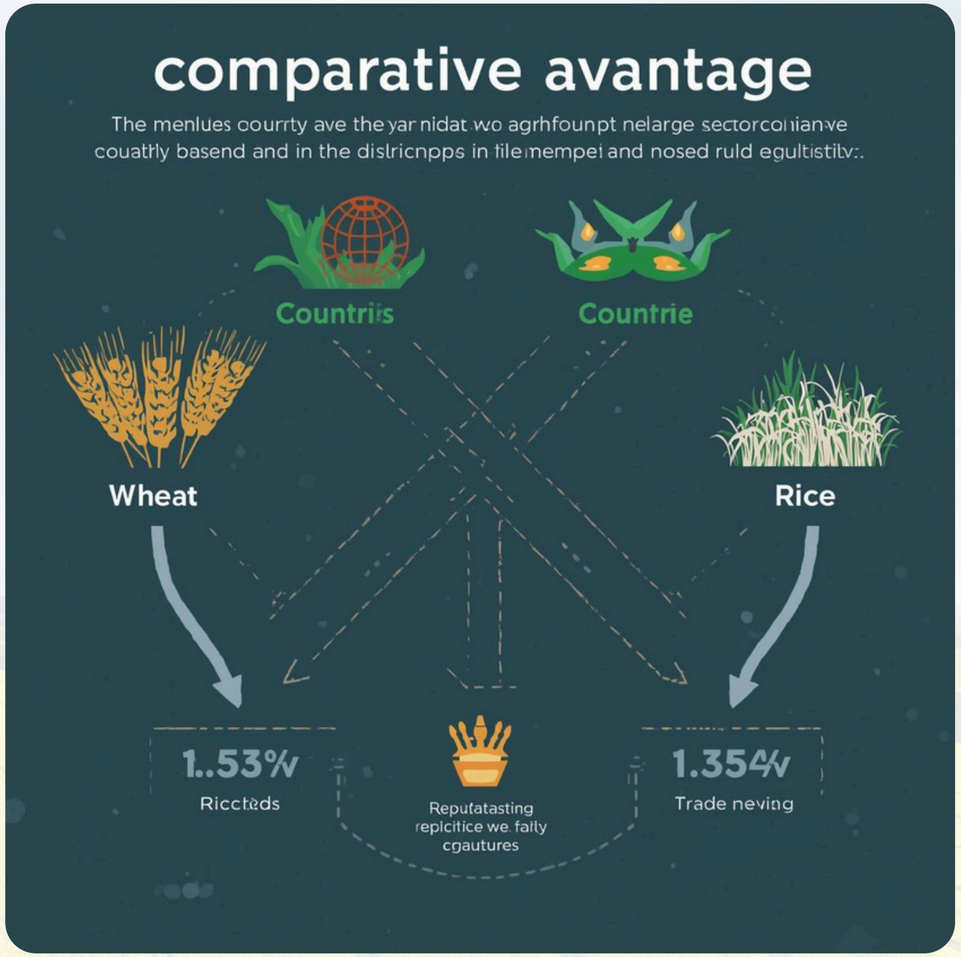


COMPARATIVE ADVANTAGE

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Why OptiValue Tek Is Different

Feature	Market Drones	OptiValue Tek
Spray	Yes	Yes
Seed Spray	Separate System	Same Drone
Crop Monitoring	Manual / Separate	Integrated
AI Analytics	Limited / None	Advanced
Software Ease	Complex	User-Friendly
Historical Crop Health	No	Yes



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BENEFITS & IMPACT

Value Delivered

- Reduced operational cost
- Timely and accurate crop information
- Improved yield and crop quality
- Early disease prevention
- Sustainable and data-driven farming

Automated Machinery

Drones

Renewable Energy

CONCLUSION

OptiValue Tek introduces India’s first truly integrated agricultural drone and AI software platform, enabling simultaneous field operations and intelligent crop monitoring with accurate, time-based data analytics.

This platform sets a new benchmark for precision agriculture in India.



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Thank You

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