

**INTELLIGENT
FASTER
EFFICIENT**

MARUT
- DRONES -



**INDIA'S FIRST
MULTI UTILITY DGCA CERTIFIED
AGRICULTURAL DRONE
AG-365**



ONE DRONE FOR VARIOUS FARMING NEEDS



Spraying



*Fertiliser-
Granular Spreader*



*Crop Monitoring
Disease Diagnosis*

...MANY MORE

AG 365



- Night Vision
- Obstacle avoidance
- Rugged design
- Swappable payloads



- Emergency Fail Safe
- Terrain Following
- AI Enabled
- Completely Autonomous

USPs OF AG 365

7+ SOPS DEVELOPED

We have standard operating procedures developed for 7+ crops and have been working on developing 35+ crops in collaboration with renowned institutes and partners such as PJTSAU, ICRISAT, NIPHM.

22 MINUTES: INDIA'S HIGHEST ENDURANCE AGRICULTURAL DRONE

AG 365 has the longest flight time in the entire industry, once fully charged it can fly up to 22 minutes non stop.

FARM THROUGHOUT THE YEAR

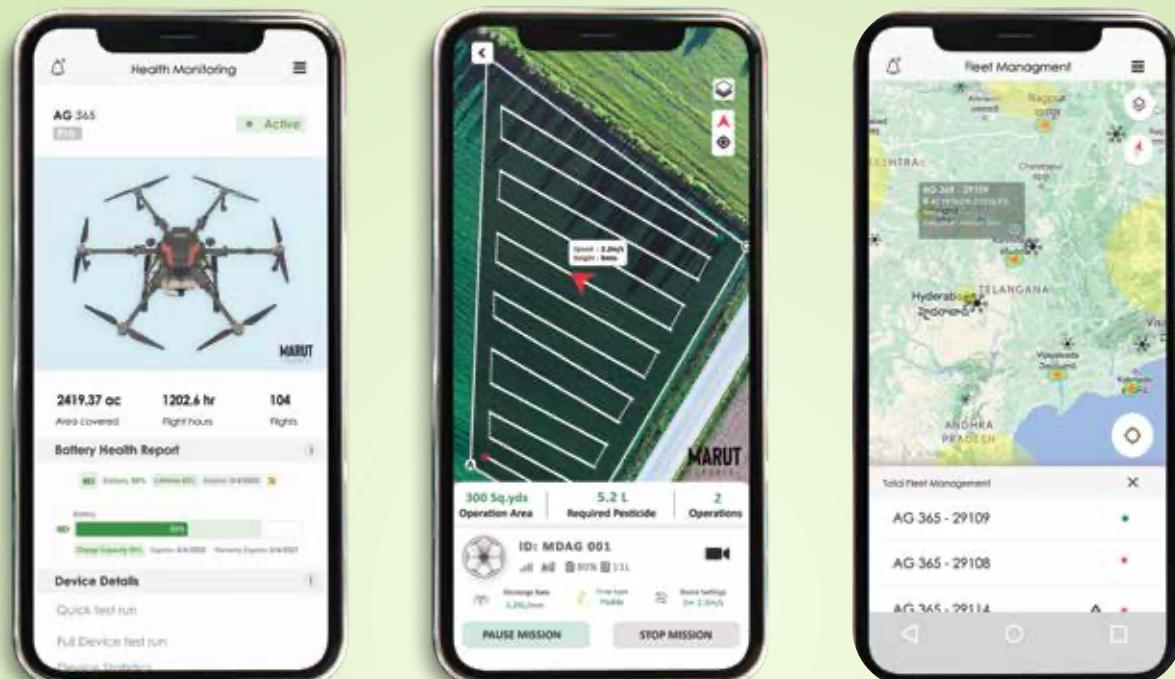
Marut AG 365 is not limited to spraying, it can perform various other tasks such as fogging, direct seeding, granular spreading, crop surveillance, and input delivery, etc

MARUT KNOWLEDGE BANK

Marut has a dedicated multimedia knowledge bank to fulfil the following purposes.

- Drone Technology Education
- Product-specific content to AG 365
- Updates on latest Drone Technologies
- Drones Loans, Subsidies & Schemes

SOFTWARE - AUTONOMOUS & SCALABLE

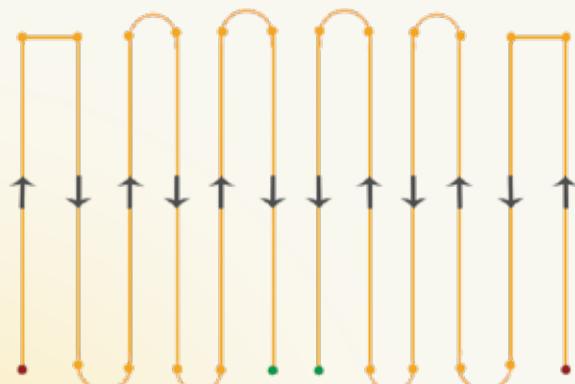
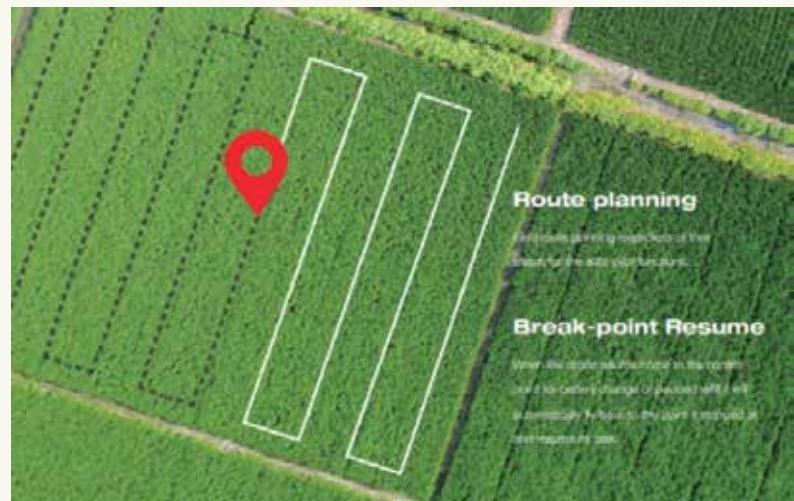


ADVANCED AND INTELLIGENT ONBOARD SYSTEMS

The on-board systems are tuned for the agricultural operations and are user friendly & do the job at their best. These systems are well advanced, secure & efficient. The systems are tuned to monitor every small parameter of the drone and get the job done effectively.



Using the ground station the user can select the operation area and set operation distance, flight speed, altitude and other information. The aircraft will automatically fly back and forth according to the specified distance and traverse the entire area to complete the work. The operations are made more convenient and takes less human effort.



AB POINT AUTOMATIC CONTROL

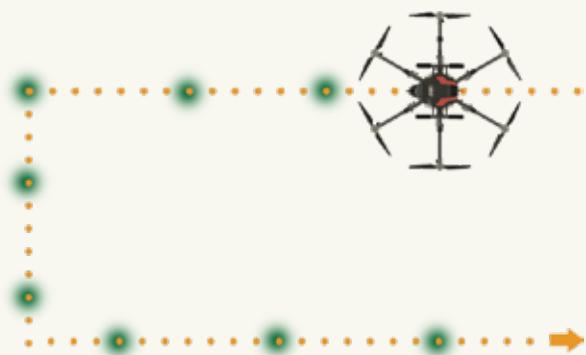
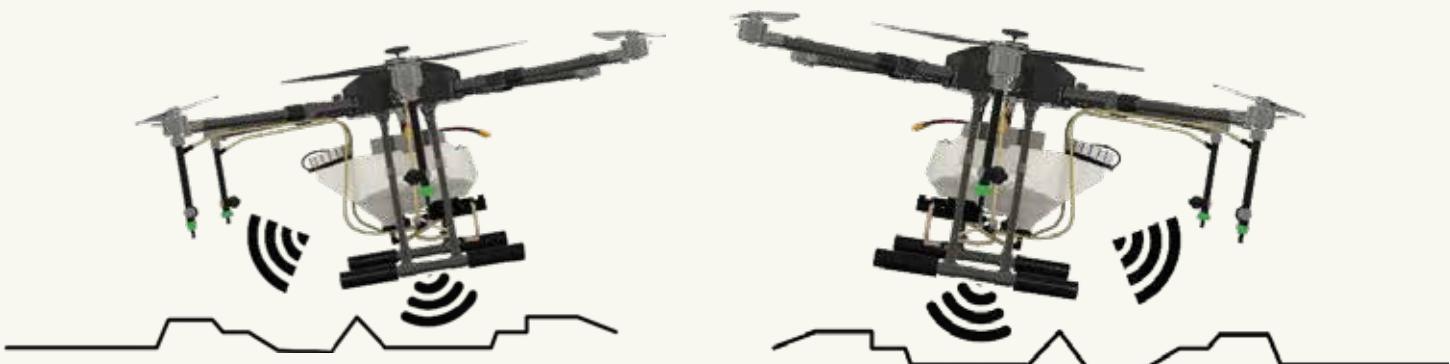
In the AB point control, the drone can automatically spray pesticides in accordance with the established route, which is suitable for large regular trees

TERRAIN FOLLOWING AND OBSTACLE AVOIDANCE RADAR

The on-board flight control systems are integrated with the terrain following radar modules for farmland irregularities. According to the real-time data obtained from the terrain following module, the onboard systems can adjust the flying height of UAV in real time and ensure the relative flying height between UAV and the crops. UAV can avoid heavy and Leakage Spray caused by uneven terrain, however can also improve the efficiency of plant protection.



Obstacle & Terrain Radar



PRECISE SPRAY:

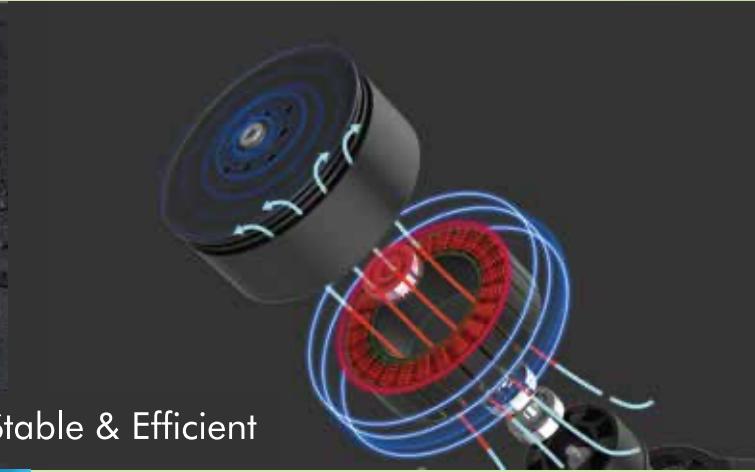
You can set the spraying range, waypoint planning, drone height, speed & flow rate. The function of intelligent spraying flow can be controlled which is associated with the flight speed. The precise spraying reduces the excessive usage of Chemicals and water.

WATERPROOF AND DUSTPROOF INDUSTRIAL DESIGN

After conducting extensive drop testing the all-round gimbal protection and industrial case design is ready to withstand tough conditions. Custom waterproof silicon caps ensure interruption free operation in even the harshest of environments.



Propulsion System: Stable & Efficient



High life brushless water pump



Reliable communication and control redefined



LONG DISTANCE
LINK



ULTRA STABLE
LINK



SUPER LONG
ENDURANCE



COMPACT SIZE



SUPER
SCALABILITY



OPEN SOURCE
COMPATIBLE



USB



DIGITAL VIDEO
TRANSMISSION

BUILD

Certified
NABL accredited testing laboratories

Multi Utility

In various applications from seeding to harvest

Advanced Radars
For Height and Collision avoidance

Protection
Water and Dust proof enclosure

Safety
Intelligent drone with fail safe features

Rugged
High Strength Material to perform in agriculture fields



PERFORMANCE

22+ Minutes longest Flight Time

30+ Acres coverage in a day

24 Hours operations, Day and Night

22000 mAh High performance batteries

KEY BENEFITS



EXCELLENT CROP YIELD

- Timely crop protection
- Kills all pests
- No crop damage
- Higher profits



EFFICIENT SPRAYING

- Uniform spraying
- Lower pesticide residue
- Better crop quality
- Higher crop value



SUSTAINABLE OPERATIONS

- 100% operator safety
- No soil contamination
- Improved soil fertility
- Sustainable farms

TESTIMONIALS

“

Earlier my income was very variable, now I'm making anywhere between 50k to 60k on a monthly basis, apart from my farming income.

Mohan Ankush Chormale
Rural Agripreneur, Maharashtra

”

We have conducted extensive field trials with AG 365 drone and found it to be safe, efficient, and reliable in Agriculture crop protection. When compared to manual methods, pest control is great with lower residue leading to sustainable farms.

Dr Verma
Principal Scientist, PJTSAU

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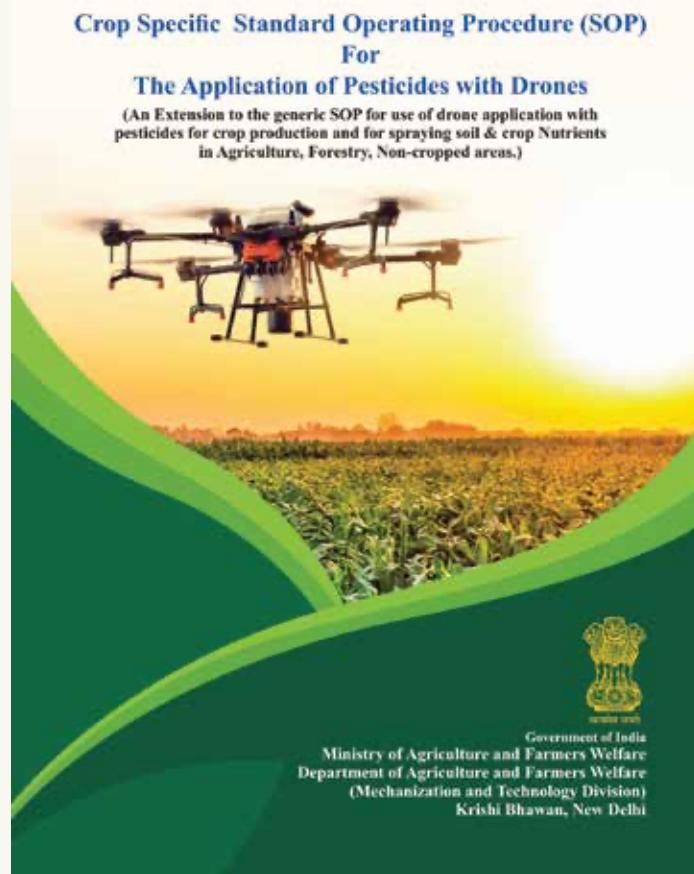
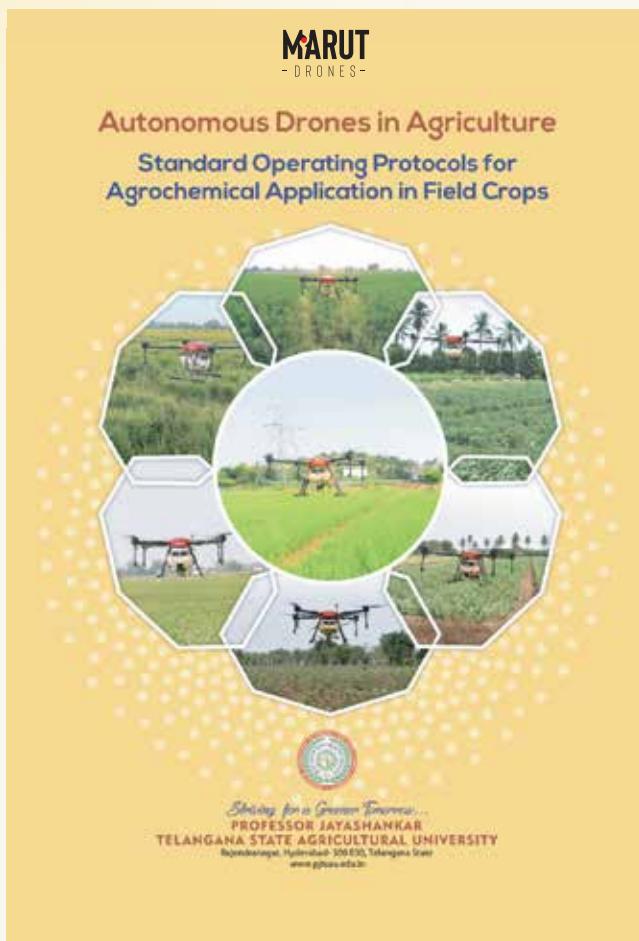
It costed us around 2000 rupees to get one acre sprayed manually, with drone the it cost us 3 times less, however it is faster and more effective.

Guda Mahendra Reddy
Farmer, Adilabad

TECHNICAL SPECIFICATIONS

NAVIGATION	Type	Hexacopter (Multicopter with 6 rotors)
	Features	Aerospace grade, Rugged design, Foldable and easy to transport
	Protection	Waterproof and Dustproof body
	Add Ons	Collision avoidance, Strobe lights for night operations
PERFORMANCE	Max Payload	11 Kg
	Flight Time	22 Minutes
	Time for acre	4 Minutes
	Acres per day	30 Acres in Daytime
BATTERY	Duration	Supports Day and Night operations
	Capacity	Higher 22000 mAH LiPo batteries
	Charger	High capacity LiPo fast charger
	Cycles	Upto 300 cycles
SPRAYING SYSTEM	Nozzles	4 Nos; High pressure Flat Fan Type
	Droplets	Fine / 106-235 Microns
	Spray coverage	Uniform spray
NAVIGATION	Software - Mobile and Web	Simple to use with advanced features
	Flight mode	Manual / Semi-Autonomous / Autonomous
	Accuracy	Dual GPS and height radars
	Safety	Critical alerts, Return to Home, Detect and Avoid
	Detect and Avoid	Detects trees, poles etc in Autonomous mode and avoids
EXCELLENCE	Terrain Following	Maintains constant spray height on crop canopy even in hilly areas
	Tested	For 1.5 lakh acres
	Partnerships	Premier agriculture institutes
	Safety and Reliability	Developed crop specific Standard Operating Procedures Tested pan India

SOPs & PARTNERS



SOPs DEVELOPED INHOUSE ON AG365
IN COLLABORATION WITH PJSTAU

"COMPATIBLE WITH GOVT OF INDIA SOP

TRUSTED BY



MULTIPLE CROPS

Spraying with Drones is not limited to rice crop,
AG 365 can spray on all the major crops

NOT JUST RICE



Cotton



Bengal gram



Onion



Paddy



Sunflower



Sugarcane



Maize



Groundnut



Chilly



Redgram



Soyabean



Safflower



Sesame



Watermelon



Custard Apple



Wheat



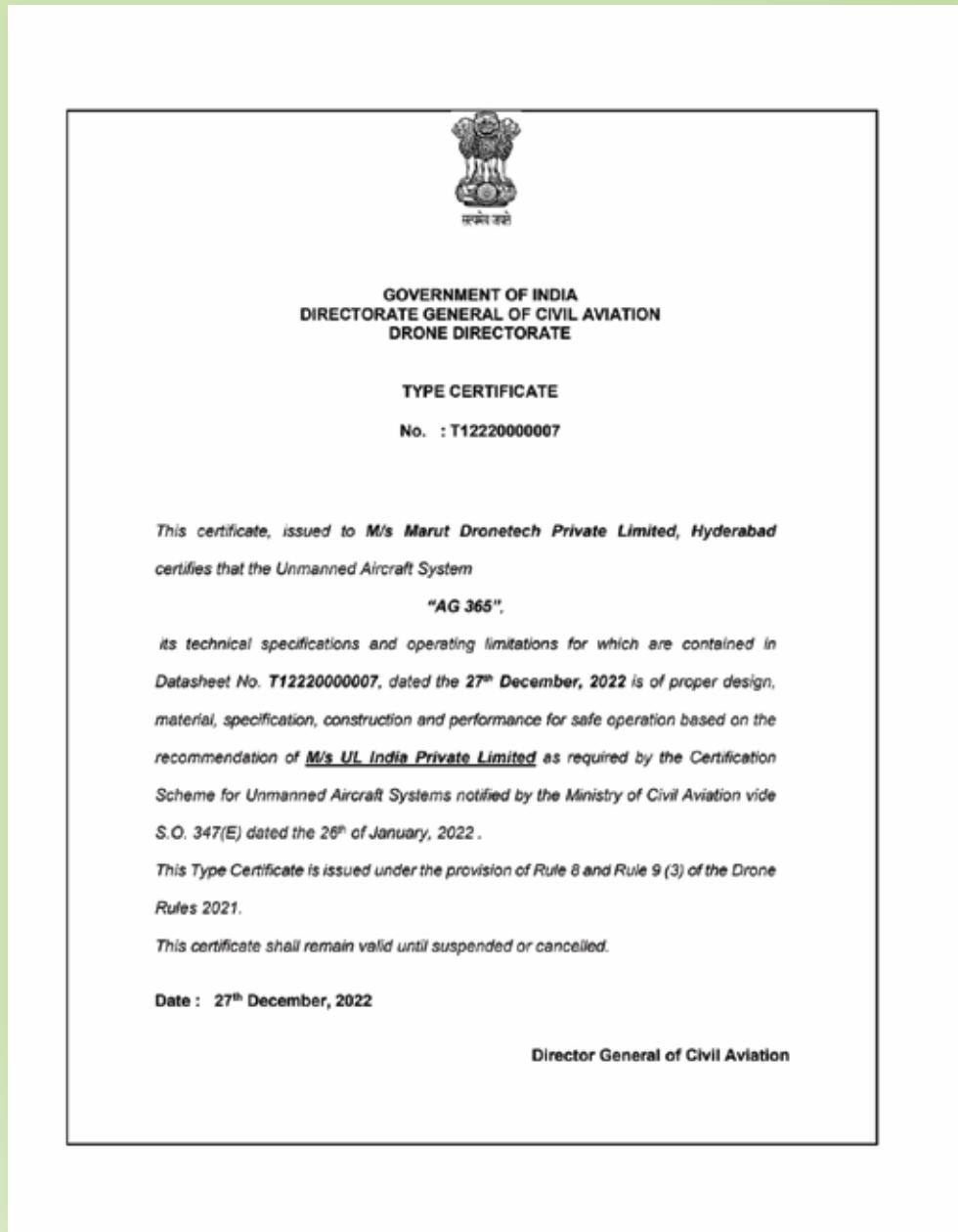
Tobacco



Broccoli

...And More

DGCA CERTIFICATION



AG 365 IS DGCA CERTIFIED

Avail Loan, subsidy, and insurance with ease



• Easy bank loans at interest rates
as low as 4%



• Comprehensive insurance with
minimal documentation



• Subsidies under various
government schemes



• DGCA Certified Pilot Training
with both on field and virtual
training programmes.



PILOT TRAINING

GET TRAINED TO FLY AND PAVE YOUR PATH TO NEW OPPORTUNITIES

4 RPTOS IN PARTNERSHIP:

with State of the Art Equipment and Modern Labs



drone academy
A Govt. of Telangana Enterprise



PJTSAU
Drone Academy



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BENEFITS:

- Become a DGCA certified pilot
- Get Trained from Pioneers of the Industry
- Well-Equipped Labs with a variety of Drones
- Certificate From Govt of Telangana FTO
- Hands on Experience in Flying Multiple Drones
- Both on Field & Virtual Training with Simulator

TRADITIONAL FARMING VS PRECISION FARMING WITH DRONES



Traditional Farming:

Heavily dependent on manual labor



Excessive use of fertilizers & pesticides



Longer Spraying time (covers an acre in 2 hrs)



Challenging to work in uneven and difficult terrains



Hazardous to the health of Farmers



Limited efficiency and Productivity



Precision Farming

Can be operated manual & autonomously.



Moderate use of fertilizers & pesticides



Lesser Spraying time (covers an acre in 7 mins)



Navigate difficult terrains with ease



Enhanced safety with minimized human risks



Increased efficiency and productivity



AWARDS & RECOGNITIONS



FICCI Award for Sustainable Agriculture 2022



SIBA Award for Emerging Technology and AI Mobile Retail 2022



Telangana Industry Award for Best Startup Bronze 2022



TIE Global TGS100 Award for Top 100 Emerging Startup



Emerging Technology Award



Forbes 30 under 30 Asia



Facebook India AI accelerator



Purdue University grant



RKVY RAFTAAR Manage

IN MEDIA

Hyderabad's Marut Drones, a Pioneer in Drone Industry Demonstrated Their Agri Multi Utility Drone Platform AG 365 to PM Mr Narendra Modi



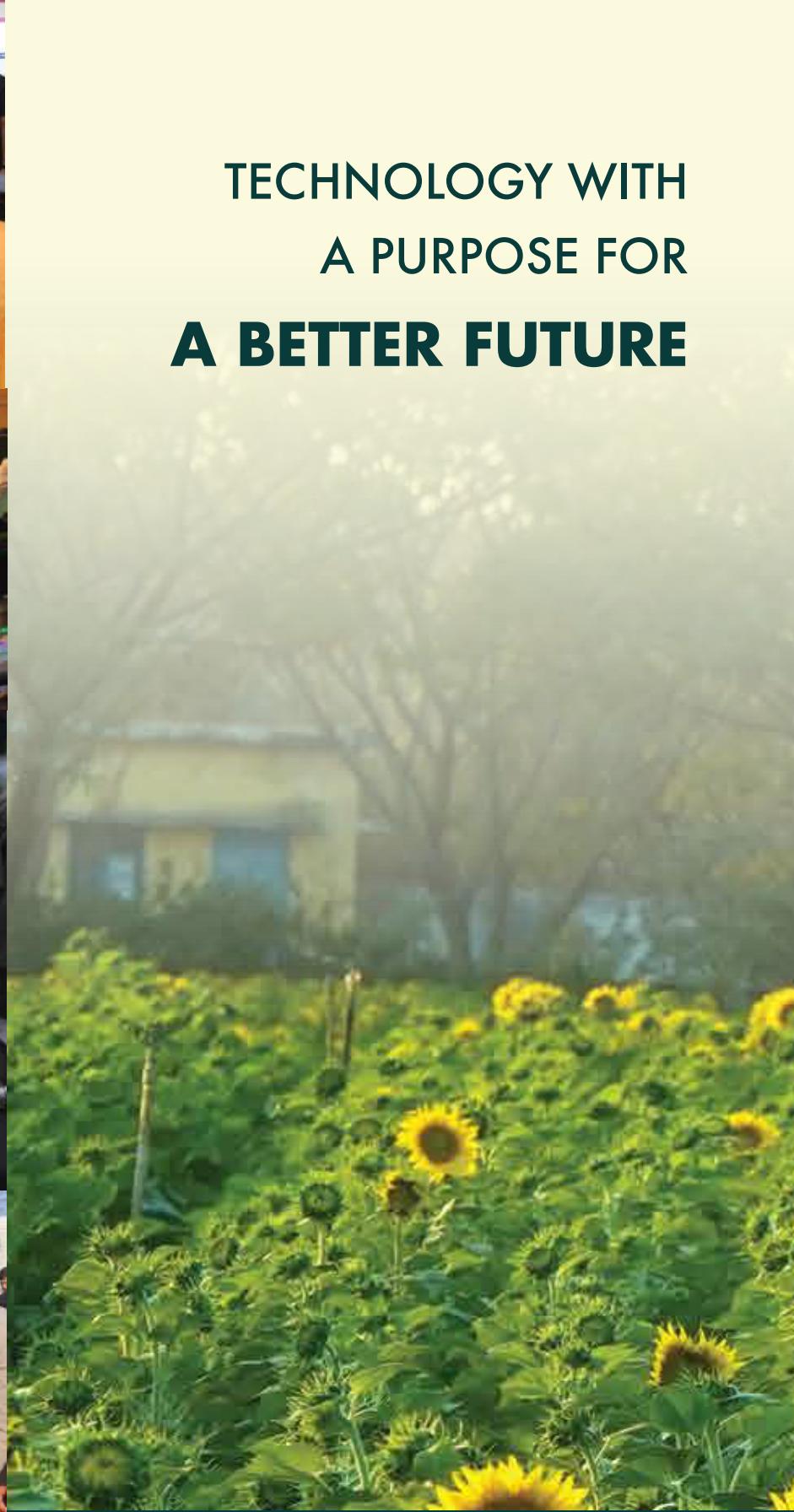
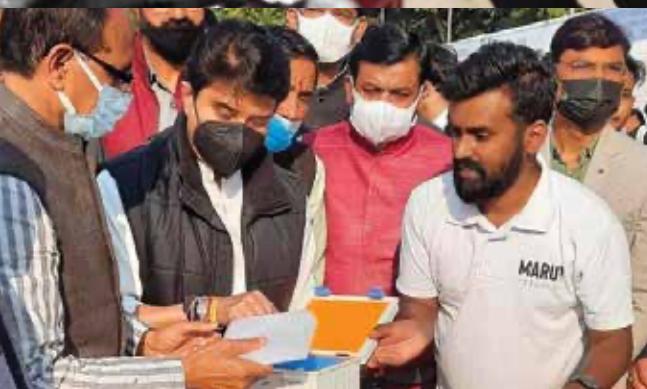
ANDHRA PRADESH
Marut's Kisan drone gets DGCA approval

AGRI-TECH DRONE
From left: Sri Kumar Chidambaram, Mr. Venkateshwaran, and Mr. Praveen Reddy.
Marut Drones and its Multi Utility Drone system AG 365 has been developed by the company to reduce crop losses due to pests, improve yields and save on costs. The company is currently working on its expansion across the country.



Marut Drones Conducts Farmer's Awareness Sessions on Artificial Intelligence and Drones

■ February 17, 2022 ■ 1 min read ■ Marut Drones



TECHNOLOGY WITH A PURPOSE FOR A BETTER FUTURE

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