



**BRAHMASHIRA ASTRA BHARAT**

BSAB DIVERSIFYING STRATEGIC TECHNOLOGIES



# BSAB\_Anti-Drones

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# PRODUCT

**DIVINE  
TANK**



**DIVINE  
MARITIME**



**DIVINE 350**

# Fields of activity

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Terrain



Facility



Urban



Mini/Macro UAV



Border security



Tactive and Operative UAV



**BRAHMASHIRA ASTRA BHARAT**

DIVERSIFYING STRATEGIC TECHNOLOGIES



# DIVIN 350

DRONE DETECTION AND  
NEUTRALIZATION SYSTEM

# DIVIN 350

## DRONE DETECTION AND NEUTRALIZATION SYSTEM



SYSTEM  
COMPONENTS



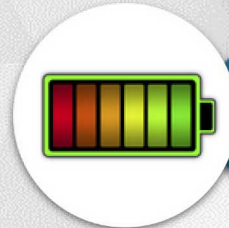
### Detection

RF Detection System  
DF System  
Protocol Based Detection System



### Jamming

Telemetry  
Video  
GNSS  
Spoofing



### Power

Mains  
Battery

# DIVIN 350

## DRONE DETECTION AND NEUTRALIZATION SYSTEM



1

Up to 30 threats, protocol based detection technology

2

RF and DF detection system between 400-6000 MHz on 10 channels

3

Omni and Directional Jamming and Spoofing between 400-6000 MHz on 12 channels

4

Directional jamming and spoofing system between 400-6000 MHz on 11 channels.

5

Jamming capability with extra 2 frequencies with 150 MHz bandwidth between 400-8000 MHz

6

Electronic and power unit of the system



# DIVIN 350

## DRONE DETECTION AND NEUTRALIZATION SYSTEM



### TECHNICAL FEATURES

<b>System</b>	Integrated single or multimode of operation
<b>Mode of Operation</b>	Automatic or manual
<b>Command Control Systems &amp; Sensors</b>	Central command and control ability to all sub
<b>Remote Upgrade</b>	The system can be upgraded remotely.
<b>Installation</b>	Less than 5 minutes with single operator.
<b>Operational</b>	7/24 uninterrupted at all weather conditions.
<b>Power1</b>	Mains 220 VAC
<b>Power2</b>	Battery(240 Ah)
<b>Weight</b>	Less than 750 kg

# DIVIN 350

## DRONE DETECTION AND NEUTRALIZATION SYSTEM



RF & DF  
DETECTION  
FEATURES

<b>Antenna Technology</b>	Directional
<b>Operating Frequency</b>	10 channels between 400 -6000 MHz
<b>Command and Control Signals</b>	Upto 5 km and DF with 90° sensitivity
<b>Digital Video Signals</b>	Upto 2 km and DF with 90° sensitivity
<b>Analog Video Signals</b>	Upto 10 km and DF with 90° sensitivity
<b>Detection Algorithm</b>	Correlation, comparision with database



# DIVIN 350



## DRONE DETECTION AND NEUTRALIZATION SYSTEM



JAMMING & SPOOFING  
FEATURES

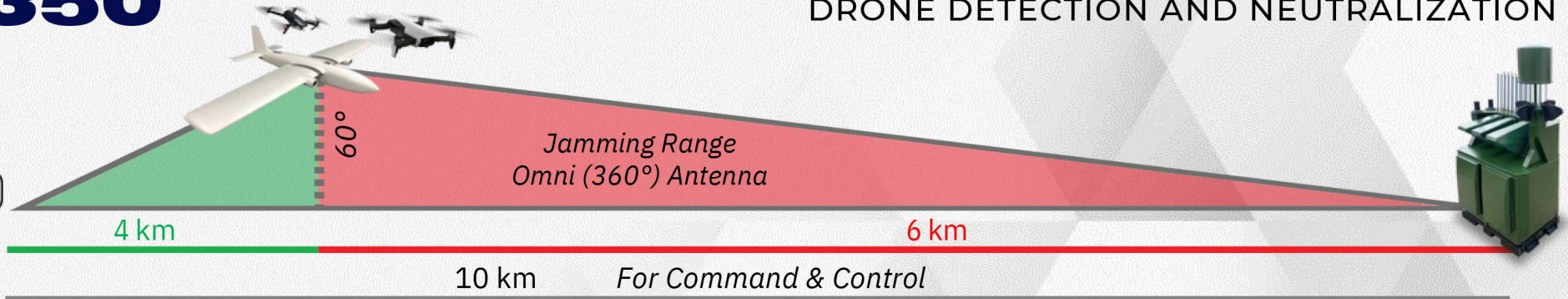
<b>Jammer Controller</b>	Fully digital control
<b>Jammer Frequency</b>	14 channels between 400 - 8000 MHz
<b>Profile</b>	Single or multi channel jamming simultaneously
<b>Emergency</b>	All channels start to jamming with a single button
<b>Antenna Technology</b>	Directional or Omni Directional (selectable via user interface)
<b>Type of Beam</b>	Directional (Elevation: 60° Azimuth: 90°) Omni Directional (Elevation: 0-60° Azimuth: 360°)
<b>RF Output Power</b>	Adjustable up to 1000 watt
<b>Spoofing</b>	Generate a fake location at any user-specified coordinate

# DIVIN 350



## DRONE DETECTION AND NEUTRALIZATION SYSTEM

Remote Control



Remote Control



Multi GNSS: 6 km - Universal Receiver: 10 km

Omni (360°) Antenna GNSS Jamming Range



Multi GNSS: 8 km - Universal Receiver: 15-20 km

Directional (90°) Antenna GNSS Jamming Range

# DIVIN 350

## DRONE DETECTION AND NEUTRALIZATION SYSTEM



### DIVIN 350 KEY FEATURES

- Protocol based detection technology
- Passive RF detection
- Distinguishing friend and foe according to drone ID
- Detection of remote control and drone location info and positioning on the map
- Drone information tracking, displaying past track records
- Extendible library with AI
- Polygon definition on the map (Critical area)
- ADS-B Feature

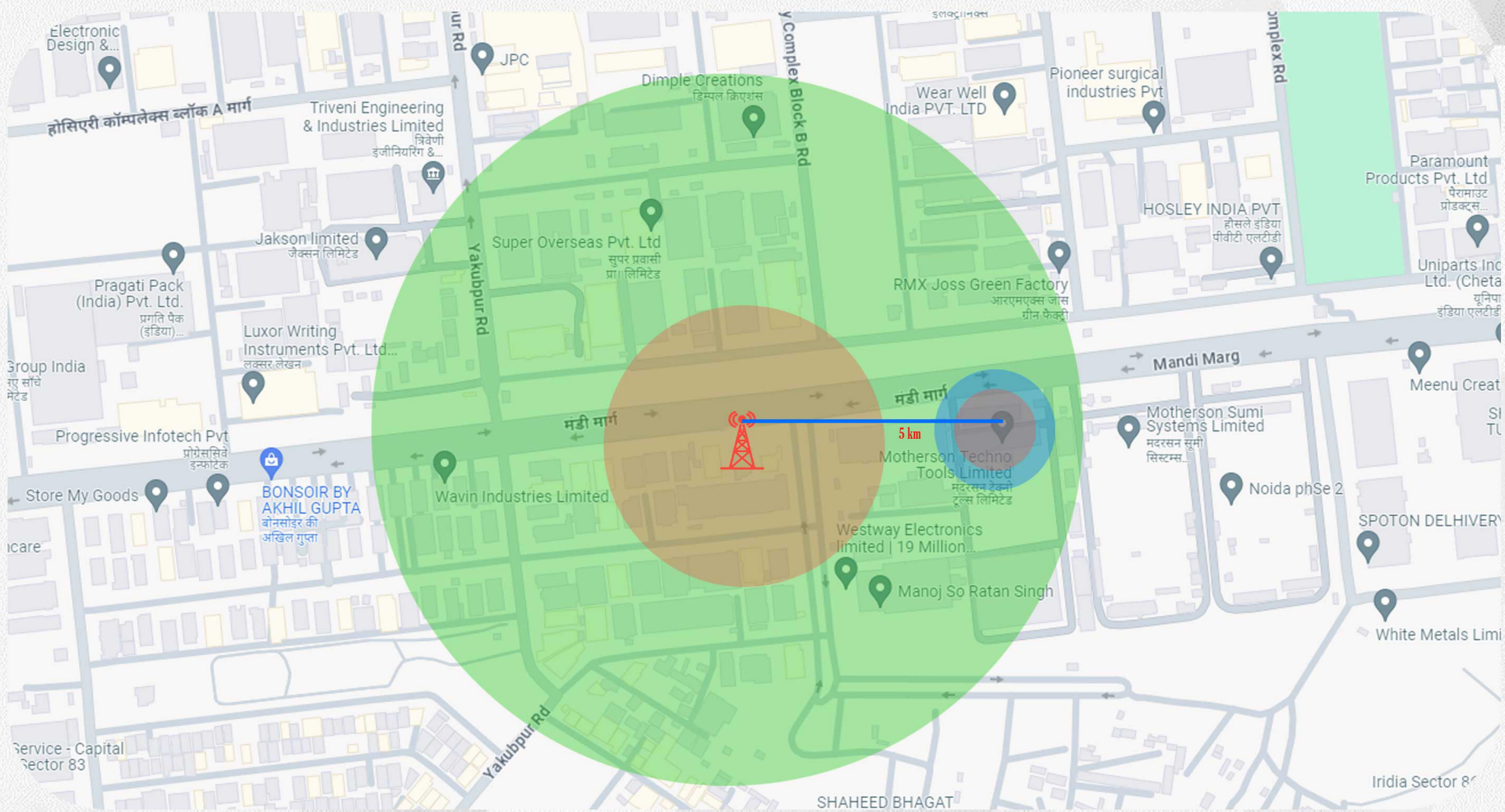
# DIVIN 350

## DRONE DETECTION AND NEUTRALIZATION SYSTEM



DIVIN 350  
DETECTION  
FEATURES

<b>Detection Frequencies</b>	Protocol-based detection between 400 - 6000 MHz range
<b>Detection Range</b>	Upto 5 km
<b>DF Sensivity</b>	5°
<b>Real Time Detection Number</b>	Up to 30
<b>Detection Coverage</b>	360°
<b>Type of Antenna</b>	Omni-Directional



Up to 5 km  
Detection Region on radius

Only alarm is on when the  
UAV enters the blue zone in  
automatic mode

The UAV is jammed when it  
enters the red zone in  
automatic mode

# DIVIN 350



## RADAR FEATURES

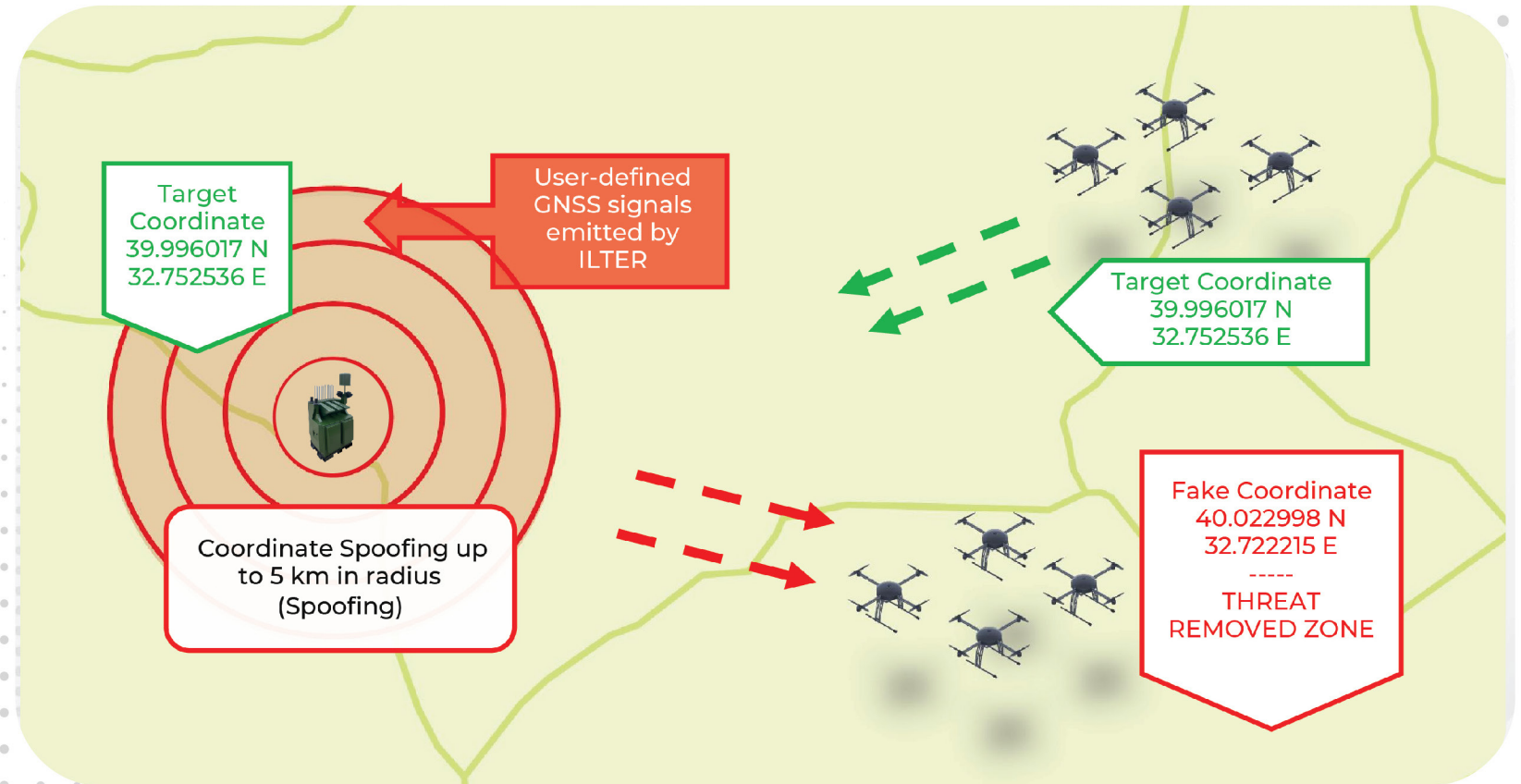
<b>Type/ Capability</b>	Phased Array Pulse Doppler RADAR/ Surveillance and Tracking			
<b>Detection Range</b>				
<b>Micro UAS</b>	<b>Fixed Wing UAV</b>	<b>Mini UAS</b>	<b>Small UAS</b>	<b>Vehicle</b>
5,5 km RCS 0,01 m <sup>2</sup>	10 km RCS 0,1 m <sup>2</sup>	10 km on RCS 0,5 m <sup>2</sup>	15-20 km on RCS 1 m <sup>2</sup>	15-20 km on RCS ≥ 2 m <sup>2</sup>
<b>Coverage</b>				
<b>Azimuth</b>			<b>Elevation</b>	
360°			-2 to 51°	
<b>Accuracy</b>				
<b>Range</b>	<b>Azimuth</b>	<b>Elevation</b>	<b>Velocity</b>	
≤ 15 m (RMS)	≤ 1° (RMS)	≤ 1° (RMS)	≤ 0,8 m/s	
<b>Resolution</b>				
<b>Range</b>	<b>Azimuth</b>	<b>Elevation</b>		
15 m	≤ 2° (RMS)	≤ 2° (RMS)		
<b>Probability of Detection</b>	80%(in lowtracking speed)			
<b>Track Capacity</b>	300 tracks			
<b>Update Rate</b>	2 Sec (30 RPM) / 4 Sec (15 RPM)			
<b>Antenna Technology</b>	Slotted Waveguide Antenna			
<b>Peak Power</b>	≤ 300 watt			
<b>Operating Frequency</b>	X Band			
<b>Type of Beam/ Rotation Rate</b>	Multiple Pencil Beams/ 1-30 Rpm			



# DIVIN 350

## Coordination Spoofing Specifications

Fake GNSS signals emitted to prevent autonomous flight threats.  
Removal of the threat from the protected area





BSAB

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DIVERSIFYING STRATEGIC TECHNOLOGIES

**DIVIN**

**MARITIME**

**DRONE NEUTRALIZATION SYSTEM**







The number of drone surveillance and attacks against ships is increasing day by day.



DIVIN Maritime provides comprehensive protection of ships operating in harbor or shallow waters against drone attacks.



DIVIN Maritime can be customized according to user needs, easily installed on board and provides 360° jamming of drones.



DIVIN Maritime can be integrated in ship's Combat Management System, and depending on the incoming threat, the user can choose the response method, including other weapon systems on board.



Identifies the brand and model of more than 99% of commercial drones.



Works 24/7 in all weather conditions.





## JAMMING

Jamming Range	Upto3 km
Frequencies	1.2 (GNSS) GHz, 1.4 GHz,1.5 (GNSS) GHz, 2.2 GHz, 2.4 GHz, 5.2 GHz, 5.8 GHz
Coverage	360°
Power	Upto400 Watt



Dimensions	Diameter 40 cm, height 40 cm
Priority Spare Parts	<ul style="list-style-type: none"> <li>▪ Unlimited support for spare parts</li> <li>▪ Stocked maintenance and repair parts</li> </ul>
<b>SUPPORT</b>	
Warranty	Minimum 1 year
Spare Parts Availability	Minimum 10 year
Software Update	1 year free of charge
<b>DOCUMENTATION</b>	
User Manual	1 electronic copy
Technical / Maintenance and Repair	1 electronic copy



**BRAHMASHIRA ASTRA BHARAT**

DIVERSIFYING STRATEGIC TECHNOLOGIES

# **DIVIN** TANK

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**DRONE DETECTION**

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The number of UAV surveillance and attacks against tanks are increasing day by day.



DIVIN TANK provides comprehensive protection of armoured vehicles including tanks operating battle field against UAV attacks.



DIVIN TANK can be customized according to user needs, easily installed on board and provides 360° jamming of UAVs.



DIVIN TANK can be integrated into the tank's command and control system.



Identifies the brand and model of more than 99% of commercial UAVs.



Works 24/7 in all weather conditions.





## JAMMING

### Jamming Range

Up to 3 km

### Frequencies

1.2 (GNSS) GHz, 1.4 GHz, 1.5 (GNSS) GHz,  
2.2 GHz, 2.4 GHz, 5.2 GHz, 5.8 GHz

### Coverage

360°

### Power

Up to 400 Watt





<b>Dimensions</b>	Diameter 40cm, height 40cm
<b>Priority Spare Parts</b>	<ul style="list-style-type: none"> <li>• Unlimited support for spare parts</li> <li>• stocked maintenance and repair parts</li> </ul>
<b>SUPPORT</b>	
<b>Warranty</b>	Minimum 1 year
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