QUOTATION

Quotation No: AINSR012536

To,

Sr. DSC RPF

ECO RAILWAY,

WALTAIR

SUB: Quotation for Surveillance Robot & AI

Sl. No	Item Description	Quantity	Unit Price (INR)	Total Price (INR)
1	Surveillance Robot with Hardware Integration & Autonomous Navigation	1 Unit	₹ 15,00,000	₹ 15,00,000
2	Advanced AI-enabled software suite	1 License	₹ 10,00,000	₹ 10,00,000
3	Standard Software License	1 License	₹ 5,00,000	₹ 5,00,000
	Subtotal			₹ 30,00,000
	GST @ 18%			₹ 5,40,000
	Total Payable Amount (Incl. GST)			₹ 35,40,000

Terms & Conditions:

1. Delivery Timeline: 45Days from the Date of Order

2. Payment Terms: 50% on order and 50% before delivery

3. Warranty & Support: 1 Year warranty & 3 Years Guarantee

4. Taxes: 18% GST included in the final amount

I. Surveillance Robot with Hardware Integration & Autonomous Navigation

ANVI Robotics is known for developing advanced robotic systems designed for various applications, including surveillance, monitoring, and security.

1. Surveillance and Monitoring

a) 360-Degree Camera System: Equipped with high-resolution cameras for panoramic surveillance, ensuring no blind spots.

b) Night Vision and Thermal Imaging: Capable of operating in low-light or no-light conditions using infrared and thermal imaging technology.

c) Real-Time Video Streaming: Live video feed transmitted to a control center or mobile devices for remote monitoring.

d) AI-Powered Object Detection: Automatically detects and classifies objects, people, and vehicles in the environment.

e) Environmental Sensors: Includes sensors for temperature, humidity, and other environmental factors for comprehensive monitoring.

2. Face Recognition

a) Advanced Facial Recognition Algorithms: Utilizes AI and machine learning to identify individuals in real-time, even in crowded environments.

b) Database Integration: Matches faces against a pre-loaded database of individuals (e.g., suspects, employees, or VIPs).

II. Advanced AI-enabled software suite

1. Face Recognition**

a) Disguise and Mask Detection: Capable of recognizing individuals even when wearing masks, glasses, or other disguises.

b) Real-Time Alerts: Sends instant notifications when a recognized face matches a person of interest.

2. Crowd Control

a) Crowd Density Analysis: Monitors and analyzes crowd size and movement to detect potential overcrowding or unsafe conditions.

b) Automated Alerts: Issues warnings or alerts to authorities if crowd behavior becomes unruly or dangerous.

c) Dynamic Path Planning: Navigates through crowds autonomously while avoiding obstacles.

3. Target Lock for Track and Follow

a) Object Tracking: Locks onto a specific target (person or vehicle) and follows it autonomously.

b) GPS and Geofencing: Tracks targets within a defined geographical area and alerts if the target moves outside the designated zone.

c) Multi-Target Tracking: Capable of tracking multiple targets simultaneously.

d) Stealth Mode: Operates discreetly to avoid detection while tracking.

4. Incident Response

a) Rapid Deployment: Can be quickly deployed to the scene of an incident for real-time assessment.

b) Two-Way Communication: Features a microphone and speaker for communication between responders and individuals at the scene.

c) Emergency Alerts: Automatically notifies authorities and provides live footage during emergencies.

5. Patrolling and Alert

a) Autonomous Navigation: Uses LiDAR, GPS, and SLAM (Simultaneous Localization and Mapping) for autonomous patrolling in predefined or dynamic routes.

b) Obstacle Avoidance: Detects and navigates around obstacles in real-time.

c) Intrusion Detection: Identifies unauthorized entry or suspicious activity and sends alerts.

d) Scheduled Patrols: Can be programmed to patrol specific areas at designated times.

6. Training and Awareness

a) Simulation Mode: Provides an environment for training operators in various scenarios.

b) User-Friendly Interface: Intuitive controls and dashboards for easy operation and monitoring.

c) Customizable Scenarios: Allows users to create and simulate specific scenarios for training purposes.

d) Data Analytics: Collects and analyzes data from patrols and incidents to improve future operations.

7. Sound Source Localization

a) Microphone Array: Equipped with multiple high-sensitivity microphones arranged in a specific pattern to capture sound from all directions.

b) AI-Based Sound Analysis: Uses machine learning algorithms to identify and classify different types of sounds (e.g., gunshots, screams, breaking glass, animal noises).

c) Directional Accuracy: Pinpoints the exact location of a sound source with high precision, even in noisy environments.

d) Real-Time Alerts: Sends immediate notifications when specific sounds (e.g., gunfire or distress calls) are detected.

e) Noise Filtering: Filters out background noise to focus on relevant sounds.

f) Integration with Visual Tracking: Combines sound localization with camera systems to visually confirm and track the source of the sound.

8. Reptile Detection

1. AI-Powered Image Recognition: Utilizes deep learning models trained to identify various reptile species based on visual characteristics.

2. Motion Detection: Detects movement patterns typical of reptiles, such as slithering or crawling.

3. Alert System: Notifies operators or nearby personnel when a reptile is detected, especially in areas where they pose a danger.

4. Data Logging: Records data on detected reptiles, including species, location, and time, for research or conservation purposes.

III. Additional Features

1. Durability and Weather Resistance: Built to operate in harsh environments, including rain, snow, and extreme temperatures.

2. Long Battery Life: Equipped with high-capacity batteries for extended operation, often with solar charging options.

3. Modular Design: Allows for easy upgrades and customization based on mission requirements.

IV. Standard Software License

1. This includes the dashboard, web & Tab based, which will help the users to track, monitor, and operate the robot from anywhere.
2. Internal Server setup is also included in this.