

DRONE RANGERS INDIA PRIVATE LIMITED

Drone Lab, Poornima University, Ramchandrapura P.O. Vidhani Vatika Road Sitapura,
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DGPS SURVEY & MAPPING SERVICES

Drone Rangers India Pvt. Ltd. is a leading geospatial services company offering advanced land survey, mapping, and inspection services using cutting-edge drone and GNSS technology. We specialize in high-accuracy data capture using DGPS (Differential Global Positioning System), RTK, Static, and GCP-based techniques for infrastructure, land records, planning, and development projects.

Overview: DGPS Survey & Mapping

Our DGPS surveying provides high-precision geolocation data using advanced RTK and Static methods. It is ideal for land boundary mapping, georeferencing, and infrastructure layout planning. We establish accurate Ground Control Points (GCPs) and control networks to support drone surveys, GIS systems, and engineering designs.

DGPS Survey & Mapping Services Offered

RTK Survey (Real-Time Kinematic)

Real-time, centimeter-level accurate GPS positioning using base and rover units. Use: Fast and accurate land mapping, boundary surveys, road layouts.

Static Survey

High-accuracy GNSS data collected over longer durations for control points. Use: Geodetic networks, project base stations.

Ground Control Points (GCPs) Establishment

GCPs are marked on ground with accurate GNSS positions to georeference drone or satellite imagery. Use: Drone mapping, 3D modeling, GIS alignment.

Cadastral Survey

Legally accurate land parcel measurement and mapping based on government records. Use: Land ownership records, property digitization.

Topographic Mapping Using DGPS

Collection of terrain elevation and feature data with GNSS positioning. Use: Roads, pipelines, site development planning.

Road & Corridor Alignment Survey

DGPS mapping of road alignments, curves, and cross-sections. Use: Highway design, widening projects, feasibility studies.

Canal, River & Drain Alignment Survey

Mapping of water channel alignments and topography using GPS coordinates. Use: Irrigation projects, flood studies.

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Utility Mapping (Overhead & Underground)

Positioning of electric poles, pipelines, manholes, and telecom lines with GNSS tools. Use: Urban planning, smart city infrastructure.

Control Network Establishment

Creation of permanent GPS-based control points across a large site. Use: Baseline control for drone, TS, and construction layout.

Why Choose Drone Rangers?

- Latest GNSS instruments with RTK & Static capability
- Experienced and DGCA/Survey-trained team
- Precise positioning for all types of terrain
- Full support for drone mapping, GIS, and infrastructure layouts
- Quick turnaround time and quality-controlled data

Deliverables Provided

- Control Point Coordinates (CSV, Shapefiles)
- GCP Reports with Photographs & Accuracy Levels
- Topographic Maps with Elevation Data
- Cadastral Plots with Boundary Coordinates
- KML/KMZ files for Google Earth Overlay
- Georeferenced Base Maps for GIS/Drone Data

Contact Us

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