

HAKISURVEY PLOTS LTD – Services

Land & Property Solutions

- Land & Property Brokerage
- Land Verification
- Land Documentation & Title Deed Processing Support
- Real Estate Mapping & Property Development Support

Surveying Specialties

- Cadastral Surveying (property boundary definition)
- Topographical Surveying (planning, construction & development)
- Boundary Demarcation
- Building & Engineering Surveys (site layout, monitoring, as-built verification)
- Bathymetric Surveys (underwater terrain mapping for dams, lakes, rivers & oceans)
- Resource Mapping (forests, tree cover, agriculture, natural resources)

Aerial & Drone Surveying

- Drone Surveying & Aerial Mapping (high-resolution imagery)
- Construction Monitoring (real-time site visuals)
- Environmental Monitoring (ecological change & conservation)
- Agricultural Mapping (multispectral crop & farm data)
- 3D Modeling (photorealistic terrain & structures)
- Infrastructure Planning (route design, utilities, smart layouts)
- Digital Terrain Models (DTMs) & Digital Elevation Models (DEMs)
- Volumetric Calculations (stockpiles, cut & fill, earthworks)
- Disaster Assessment (emergency response & damage mapping)

Engineering & Geospatial Services

- Highway Surveys (route alignment & planning)
- As-Built Surveys (verification against design)
- Volumetric Surveys (3D modeling & material computations)
- BIM & Digital Twins (integration of geospatial data with BIM workflows)
- Indoor Mapping (large facilities, complex spaces)
- Site Engineering (construction setting out & monitoring)
- Mapping & GIS Services (spatial analysis & data integration)
- Land Data Analysis & Spatial Data Management

Consultancy & Environmental Services

- Geomatics Consultancy
- Environmental Impact Assessments (EIA)
- Environmental Monitoring & Sustainable Development Support

Technology & Innovation

- Survey Equipment & Technology Supply
- Advanced GIS Software & Remote Sensing Integration

Land & Property Solutions

1. **Land & Property Brokerage**
Helping clients buy, sell, and lease land or property. We connect buyers with sellers, ensuring transparency, fair pricing, and smooth transactions.
 2. **Land Verification**
Checking land ownership, authenticity of documents, and confirming boundaries before purchase or development to protect clients from fraud.
 3. **Land Documentation & Title Deed Processing Support**
Assisting clients in navigating the complex documentation process, including title deed transfers, registrations, subdivisions, and compliance with land laws.
 4. **Real Estate Mapping & Property Development Support**
Preparing accurate maps for real estate projects, assisting developers with planning, layouts, and feasibility studies.
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Surveying Specialties

5. **Cadastral Surveying**
Establishing and defining property boundaries legally and precisely. These surveys support land ownership, title registration, and dispute resolution.
 6. **Topographical Surveying**
Measuring natural and man-made features on land (slopes, elevations, rivers, roads, buildings) to create contour maps useful in planning, design, and engineering projects.
 7. **Boundary Demarcation**
Physically marking boundaries of land parcels with beacons or markers to avoid disputes between neighbors, institutions, or developers.
 8. **Building & Engineering Surveys**
Supporting construction projects with layout surveys, as-built verification, and progress monitoring. Ensures structures are built exactly as designed.
 9. **Bathymetric Surveys**
Mapping underwater terrain using sonar, GPS, and echo-sounders. Essential for dams, rivers, lakes, ports, and ocean-related projects like dredging and flood control.
 10. **Resource Mapping**
Identifying and mapping natural resources such as forests, tree cover, minerals, and agricultural areas to support environmental management and resource planning.
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Aerial & Drone Surveying

11. Drone Surveying & Aerial Mapping

Using drones to capture high-resolution aerial imagery for large-scale mapping, land planning, and documentation faster and more cost-effectively than ground surveys.

12. Construction Monitoring

Regular drone flights to capture progress images/videos of construction sites. Helps developers monitor timelines, identify issues, and provide real-time project updates.

13. Environmental Monitoring

Tracking ecological changes such as deforestation, erosion, and wetland loss. Supports conservation projects and sustainable land management.

14. Agricultural Mapping

Using multispectral drone sensors to monitor crop health, irrigation, and farm productivity. Farmers use this data to improve yields and reduce costs.

15. 3D Modeling

Creating photorealistic 3D models of land, terrain, or structures for planning, inspections, and visualizations. Useful for architects, engineers, and developers.

16. Infrastructure Planning

Supporting design and planning of roads, pipelines, and utilities with drone-based terrain data to optimize routes and minimize costs.

17. Digital Terrain Models (DTMs) & Digital Elevation Models (DEMs)

Drone and GIS-generated models that represent ground surfaces and elevation. Vital for hydrology, civil engineering, flood modeling, and urban planning.

18. Volumetric Calculations

Using drone photogrammetry to calculate stockpile volumes (sand, gravel, soil) and earthworks (cut & fill). Helps in resource management and project costing.

19. Disaster Assessment

Rapid drone deployment after natural disasters (floods, landslides, earthquakes) to map affected areas for rescue, recovery, and damage evaluation.

Engineering & Geospatial Services

20. Highway Surveys

Carrying out alignment, route planning, and preliminary design surveys for road networks using GNSS and GIS tools. Ensures accurate planning of new transport infrastructure.

21. As-Built Surveys

Measuring completed works (roads, buildings, utilities) and comparing them to original design plans. Ensures compliance and quality control.

22. Volumetric Surveys

Detailed ground-based or drone-based calculations for excavation, filling, and stockpile management. Common in construction and mining.

23. BIM & Digital Twins

Integrating spatial survey data into Building Information Models (BIM). Digital Twins allow engineers to simulate, monitor, and manage buildings and infrastructure virtually.

24. Indoor Mapping

Creating accurate maps and navigation data for large, complex indoor spaces like factories, malls, airports, and warehouses.

25. Site Engineering (Construction Setting Out & Monitoring)

Precisely positioning structures on the ground according to design plans. Includes regular monitoring to ensure accuracy during the construction process.

26. Mapping & GIS Services

Collecting, analyzing, and visualizing geographic data for smarter planning and decision-making. Applications range from land management to utilities and urban planning.

27. Land Data Analysis & Spatial Data Management

Organizing and analyzing spatial datasets (land use, population, environment) to support informed decisions for government, developers, and investors.

Consultancy & Environmental Services

28. Geomatics Consultancy

Offering expert advice on survey technology, GIS implementation, land management, and spatial data integration for institutions and private developers.

29. Environmental Impact Assessments (EIA)

Evaluating potential environmental effects of projects (social, ecological, economic) before approval. Ensures compliance with environmental laws and sustainable development.

30. Environmental Monitoring & Sustainable Development Support

Long-term tracking of environmental changes to support conservation, land rehabilitation, and sustainable planning.

Technology & Innovation

31. Survey Equipment & Technology Supply

Providing and supporting modern tools like drones, GNSS systems, total stations, echo sounders, and GIS software. Ensures clients and surveyors achieve maximum precision.

32. Advanced GIS Software & Remote Sensing Integration

Using high-tech GIS platforms, satellite imagery, and remote sensing for large-scale mapping, land monitoring, and decision-making.