INTECH ENGINEERS

Surveying & GIS Mapping Consultant

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Welcome to INTECH ENGINEERS

INTECH ENGINEERS was established in 2004 with a view to provide professional services with latest technology and precise work in the field of Land Surveying and GIS Mapping. During the last years, we have provided services of Topographical Survey, Lay-out Survey, Demarcation Survey, Contour Survey and Hydrological Survey etc. in various sectors such as Highways, Railways, Solar Power Projects, Farming, Revenue, Urban Development, and Irrigation etc. by DGPS/Total Station/Drone (Survey Instruments). We are also providing service in the field of Architectural design.

Today, our consistent service approach has helped us to successfully meet the service demands of Development of infrastructure.

OUR EXPERTISE

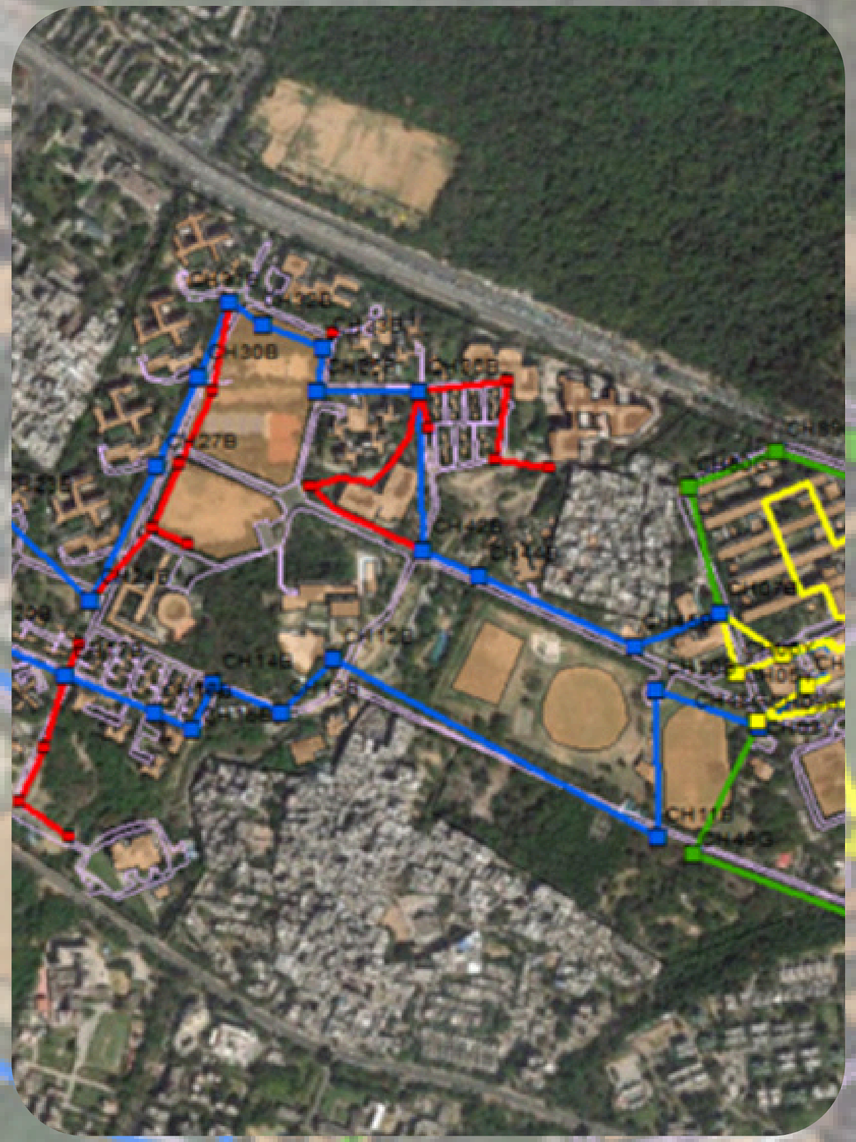
- TOPOGRAPHIC SURVEY
- DRONE SURVEY/ PHOTOGRAMMETRY
- DIGITAL SURVEY MAP
- LIDAR SURVEY
- ARCHITECTURAL/ INTERIOR DESIGN
- GPR (GROUND PENETRATING LIDAR) SURVEY
- BATHYMETRIC / HYDROGRAPHIC SURVEY
- GIS MAPPING & REMOTE SENSING

TOPOGRAPHIC SURVEYING

Our company specializes in high-precision topographic surveying services utilizing state-of-the-art Differential Global Positioning System (DGPS) and Total Station instruments. These technologies enable us to accurately map land surfaces, contours, and features with centimeter-level precision. DGPS is used for georeferencing and control point establishment over large areas, ensuring spatial accuracy and global coordinate referencing. Total Stations are employed for detailed data capture of site features including terrain elevations, boundaries, and built structures. Combined, these tools allow us to deliver reliable and detailed topographical maps and digital terrain models essential for engineering, construction, infrastructure planning, and land development projects.

DIGITAL SURVEY MAP

We provide high-accuracy Digital Survey Maps that represent land features, boundaries, and topography in a clear and easily accessible digital format. Using advanced surveying equipment like DGPS, Total Station, and GIS software, we capture precise field data and convert it into georeferenced digital maps. These maps are tailored to client requirements and can include contour lines, utilities, structures, and land use details. Delivered in formats such as AutoCAD (.dwg), GIS (.shp), or PDF, our digital survey maps support efficient planning, analysis, and decision-making across infrastructure, construction, and land development projects.



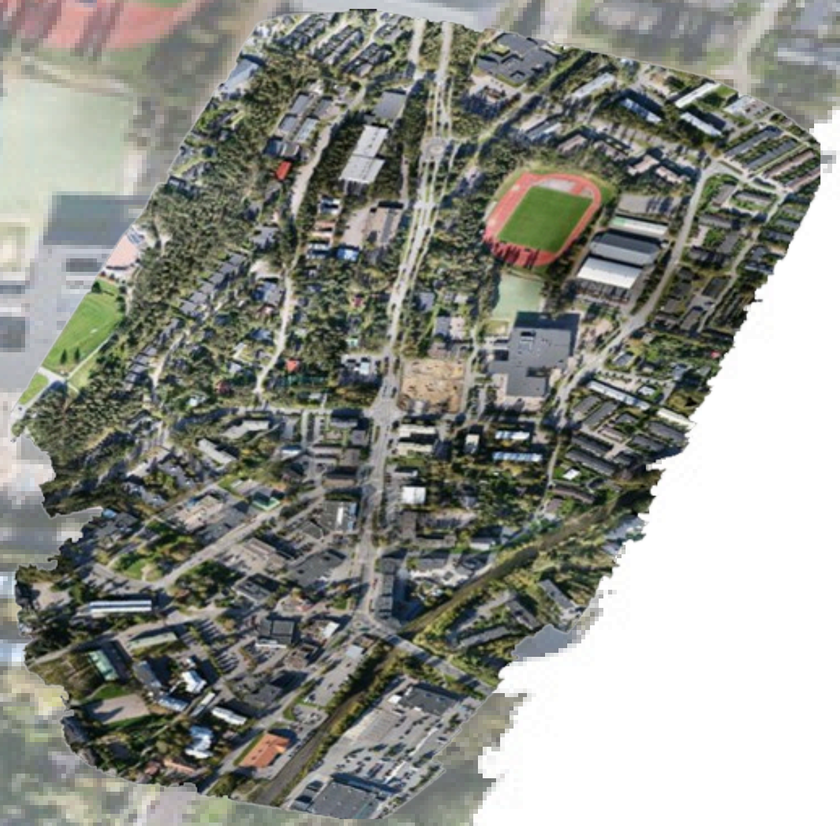
DRONE SURVEY/ PHOTOGRAMMETRY

We offer advanced Drone Surveying and Photogrammetry solutions to capture high-resolution aerial data for large and complex terrains. Using UAVs equipped with high-precision cameras and GPS systems, we conduct rapid and safe surveys with minimal ground disturbance. Through photogrammetric processing, we generate detailed 2D orthomosaic maps, 3D terrain models, point clouds, and contour maps with high spatial accuracy.

Key Deliverables Include:

- Orthomosaic Images (Geo-referenced)
- Digital Elevation Models (DEM/DTM)
- 3D Point Clouds
- Contour Maps
- Volumetric Analysis Reports
- Site Progress Monitoring Visuals
- CAD & GIS-compatible files (e.g., .dwg, .shp)

LIDAR SURVEY



We provide cutting-edge LiDAR Drone Surveying services for accurate and detailed 3D mapping of terrain and structures, even in densely vegetated or inaccessible areas. Using drones equipped with Light Detection and Ranging (LiDAR) sensors, we collect high-density point cloud data with exceptional precision and speed. This technology is ideal for large-scale topographic mapping, corridor surveys, infrastructure planning, and environmental analysis.

BATHYMETRIC/ HYDROGRAPHIC SURVEY

We offer precise Bathymetric and Hydrographic Surveying services to map underwater terrain and analyze water bodies such as rivers, lakes, reservoirs, and coastal areas. Using advanced equipment like Single Beam and Multi-Beam Echo Sounders, GNSS, and RTK systems, we accurately measure water depths, detect submerged features, and generate underwater topographic maps.

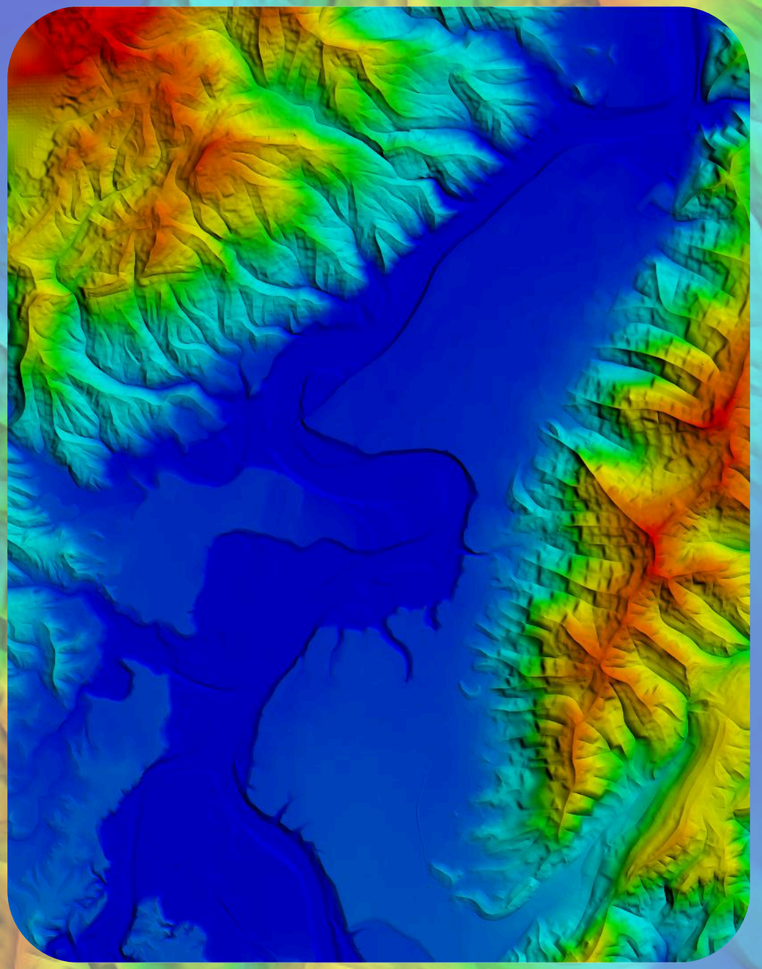
These surveys are essential for navigation safety, dredging, flood risk assessment, bridge and dam construction, and inland waterway development.

GPR (GROUND PENETRATING LIDAR) SURVEY

We provide specialized Ground Penetrating Radar (GPR) Survey services for non-destructive subsurface investigation. GPR uses high-frequency electromagnetic waves to detect and map underground features such as utilities, voids, pipelines, rebar, buried structures, and soil layers. It is highly effective in urban infrastructure, geotechnical studies, archaeology, and pavement analysis.

Our skilled team uses advanced GPR systems with real-time data processing to deliver accurate and reliable subsurface imaging without excavation or damage.

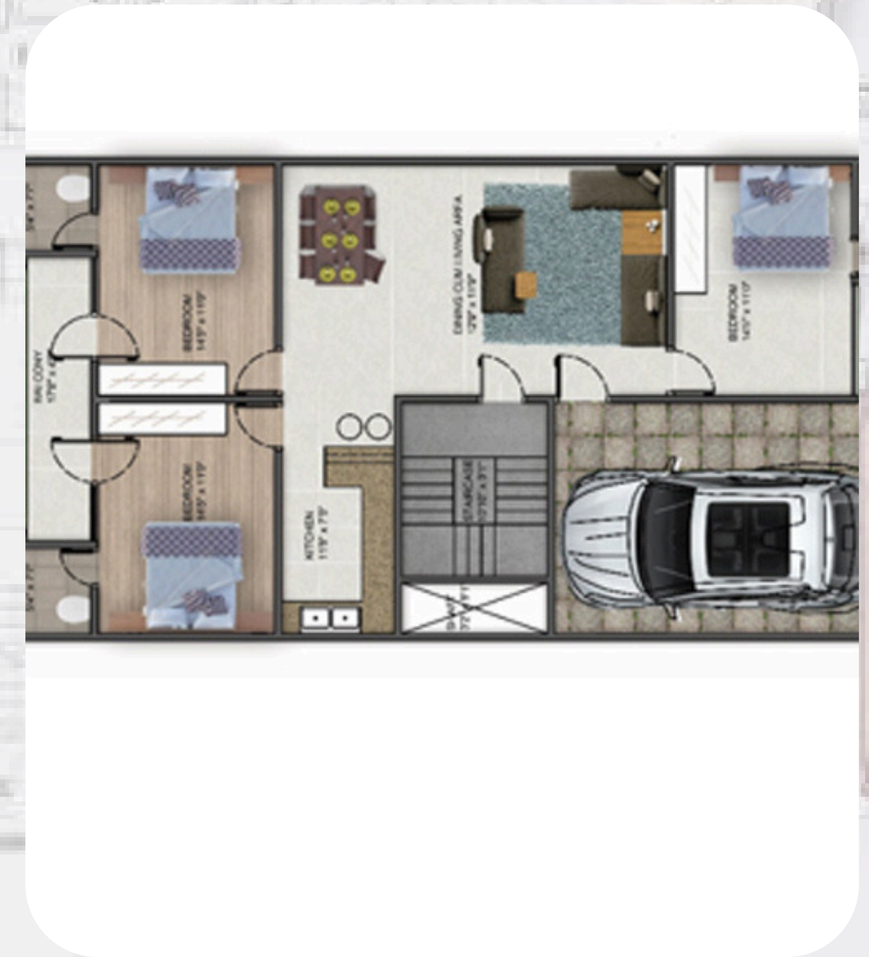
GIS MAPPING & REMOTE SENSING



We provide professional GIS (Geographic Information System) Mapping and Remote Sensing services that combine spatial data analysis with advanced imagery to support planning, development, and monitoring across multiple sectors. Utilizing high-resolution satellite data, UAV imagery, and field survey inputs, we deliver precise and actionable geographic insights.

Our experts leverage industry-leading software such as ArcGIS, QGIS, ERDAS Imagine, and Google Earth Engine to process, analyze, and visualize geospatial data for a wide range of applications.

ARCHITECTURAL/ INTERIOR DESIGN



We provide comprehensive Architectural and Interior Design services tailored to meet the unique requirements of each client. Our design approach focuses on balancing aesthetics, functionality, and sustainability to create spaces that are visually engaging and purpose-driven.

Our multidisciplinary team specializes in a variety of design styles—modern, minimalist, traditional, contemporary, industrial, and luxury—to deliver innovative and efficient design solutions across diverse sectors.

Sectors Served:

- Residential (Villas, Apartments, Farmhouses)
- Commercial (Offices, Retail Stores, Showrooms)
- Hospitality (Hotels, Cafés, Restaurants)
- Institutional (Schools, Hospitals, Government Buildings)
- Industrial (Warehouses, Production Units)

LIST OF EQUIPMENTS & SENSORS WE USE

SP80 GNSS Receiver
DGPS (8 sets)

Total Station (5 sets)

MALÅ ground penetration radar (GPR) (2 Sets)

DJI Phantom 4 Pro
(1 set)

DJI Air 3 (1 set)

SDE-28S+ Single Frequency Digital Echo Sounder (3 sets)

Few Past Projects

- Topographical Survey of ITC Mughal Hotel, Agra
- Topographical Survey of ITC Narmada, Ahemdabad
- Topographical Survey of ITC Maratha, Mumbai
- Carrying out Bathymetry Survey of Supplementary Drain from RD 22471m to RD 16436m
- Topographical Survey of River Yamuna Near Palla by using UAV/Drone
- Carrying out bathymetric survey and T.S.M. Survey for calculation of quantity of siltation in drains under the jurisdiction of CD-XIII
- Carrying out Bathymetry Survey of Supplementary Drain from RD 0.00m to RD 16436m
- Carrying out Bathymetry Survey of Supplementary Drain from RD 34500m (Kakraula Regulator) to 22471m (Rohtak Road Bridge)
- Topographical Survey/Hydrographical Survey of all the drains area under the jurisdiction of Civil Division No. IV i.e. 1) Trunk Drain No. I (From RD 5260m to RD 13387m), 2) Bund Drain, 3) Karawal Nagar Drain, 4) Escape Drain No. I, 5) Escape Drain No. II, 6) Biharipur Drain and 7) Relief Drain
- Drone Aerial Topographical Survey work for Construction of Foundations, Substructure & Superstructure along with River Training/Protection Work, Earthwork & Allied Works in the States of Punjab & Himachal Pradesh, India Bilaspur Railway Line KM-16M TO KM 34KM
- Carrying out Bathymetry Survey at Ghazipur Drain and Shahdara Outfall Drain
- Drone Survey by Videography at 02 Times of all drains under Civil Divison-VII, Irrigation and Flood Control Department
- Topographical Survey/Hydrographical Survey by the latest Survey Instruments i.e. DGPS machine and Eco Sounder etc. under the jurisdiction of Civil Division No. III i.e. (1) Trunk Drain No. II (From RD 0m to RD 4550m) (2) Trunk Drain No. I (From RD 0m to RD 5260m) (3) Shahdara Link Drain (From RD 0m to RD 4545m).
- Digital mapping of the location and area of DDA vacant Land by conducting total station survey / DGPS Survey from NH-24 to Jaitpur Extension in Yamuna Rive Flood Plain Area as and when required (Specialized Work)
- Drone Aerial Topographical Survey work for Construction of Foundations, Substructure & Superstructure along with River Training/Protection Work, Earthwork & Allied Works in the States of Punjab & Himachal Pradesh, India Bilaspur Railway Line KM-0M TO KM 16KM
- Topographical survey of river Yamuna from Village Palla (Delhi Haryana Border) to Jaitpur
- Topographical Survey of 04 Nos Bridge at Mizoram
- Topographical survey of triangular plot having Hort. Nursery, TT Park Service Centre, DCP Traffic office, night shelter, D-Park at Tughlak road and Golf Link colony roads.

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