

Water and Irrigation



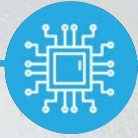
SATPALDA has been working on various **domestic and international** geospatial projects spanning **60+ different countries**. We provide satellite and drone-based high resolution imagery and photogrammetry services to our clients globally.

We are well-equipped with data input from **LiDAR, GPR, Drone and Satellites** to address the issues of managing water resources both domestically and internationally. To address nearly all facets of **water resource management**, we have competence in **geographic data storage and management, hydrologic management, modeling of groundwater, quality analysis of water, and water supply management**. The USP of SATPALDA's services is the **unique blend of technical knowledge and cost-effective quality solutions** delivered on time.

Technologies



LIDAR Survey
(Mobile/Terrestrial
/Airborne)



Electronic Total
Station Survey
/Digital Level



GPS/DGPS
Survey



Echo sounder



Radar Survey

Deliverables



High Resolution
Imagery
(Drone/Satellite)



Digital Terrain
Models
(DTM/DEM)



Engineering
Grade 3D
Topographical
Maps



Ground Water
Analysis Report



Watershed Maps
(Hydrographic
features)



Contours with
various CI



Orthophoto

Services

Engineering Support Services

- Area Drainage & Flood Studies
- Land Asset Inventory Management
- Alignment Studies, PET, DPR, Design
- 3D Visualization & Simulation

Drought Monitoring

- Drought Prone Zone Identification
- Drought Prediction
- Surface Temperature Estimation
- Soil Moisture Estimation

Flood Modelling

- Flood Plain Mapping
- Flood Level Assessment
- Flood Routing, Prevention & Protection Plans (EPP)
- Flood Risk Assessment
- Flood Inundation Mapping
- Flood Damage Assessment
- Flood Risk Zone Mapping
- Flood Forecasting

Agriculture & Irrigation

- Survey By ETS, Satellite & Drone
- Watershed/Catchment Delineation
- Submergence Area Analysis
- Water Availability Studies
- GIS Mapping of Water User Land
- Crop Health Assessment
- Crop Disease Monitoring
- Water Stress Monitoring
- Check Dam Planning

Hydrological Modelling

- Drainage Mapping
- Impact of Land Use/Land Cover Change
- Hydrologic Simulation
- Hydrographic Survey Using Echosounder

Drinking & Waste Water Mapping

- Water Distribution Network /Asset GIS Mapping
- Consumer Mapping
- Pipeline Alignment Studies
- Sewage System Mapping
- Storm Water Drain

Global Presence

Since 2002, SATPALDA has been working on various international geospatial projects spanning across 60 different countries. The company rose to the need for satellite-based products from various industry verticals such as Oil & Gas, Mining, Urban Planning, Infrastructure, Environment, Telecommunication, Agriculture, Water resources, etc. It was a time when satellite-based high-resolution data market was in its infancy. The company has successfully endeavoured to facilitate its users of public and private sectors through awareness and education campaigns. With innovation and quality as guiding principles, SATPALDA uses advanced technologies and ISO 9001:2015 certified quality system mandates to expand the traditional mapping and GIS applications.

Our Clients



Contact Us

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