

INTRODUCTION

Balaji Geotrak Technowizard (p) Ltd.. (a subsidiary of Balaji GeoTRAK Surveying (P) Ltd..) is an IT-enabled services company. Our expertise is in the field of GIS (Geographical Information Systems). We provides software and re-engineering services in the areas of Geographical information systems, Automated mapping (AM), Facilities Management (FM), Computer aided design (CAD), Digital Cartography, Business GIS and Executive Information System.

Our focus and area of expertise is to integrate precision survey data collected through latest survey equipments and integrating the same with latest satellite data and bring them on a GIS platform which will work for various applications as a Decision Support System.

We at GEOTRAK are committed to ISO and CMM quality standards. Our objective to provide solutions for all GIS related problems.

SERVICES***Consultancy***

GEOTRAK offers complete turnkey project consultancy in GIS and IT related areas or in specific phase of the project. We have offered our services to BSES., TATA POWER, JVVNL,CMC, NDPL, IIT Delhi, CPCB, DDA, Roorkee University to name few. GEOTRAK is committed to provide world-class solutions in the area of GIS and SURVEY.

Data Conversion Services

Our Strength lies in converting large volumes of paper maps, drawing and documents with fast turn around time. We have ability to manage complex conversion projects, which require conversion of data from multiple scales and quality.

We have expertise to handle combinations of topographic maps, CAD drawings, Satellite imageries, Aerial photographs or Data collected through advance field survey equipment.

Our integrated process for conversion includes scanning, digitizing, data layering, geo-positioning and QA/QC to get the final output.

- Digitization
- ScanConversion
- Format Conversion

Digital Terrain Modeling and Digital Elevation Model (DTM & DEM)

In-house software development and customization for generating accurate 3-D models of the ground surface for optimizing applications in Transport, infrastructure, Map Evaluation, Telecom Networking, Geology and Civil Engineering.

Land Information System (LIS)

- Land Use Planning
- Landscape Modeling
- Forestry and Bio-Diversity Management
- Environmental Monitoring & Survey

Computer Aided Design (CAD) and Software Development

- Generation of Profiles and Plans for Spatial Database
- Networking Planning

Remote Sensing

Satellite imageries to update digital maps obtained from paper maps which are old and do not contain useful information.

Scanning and Hardcopy Facilities

Our Solutions incorporate the methods to integrate, store & analyse different types of data, including raster images. Scanner technology & its associated raster to vector conversion technology have many applications for dramatically changing the ways in which GIS database are captured. We offer the latest colour plotting which can print A4-A0 size maps or drawing with any numbers of themes in vector or raster mode.

Business GIS

GEOTRAK also provides digital maps of cities, states and countries in variety of data formats with associated software suitable for specific business applications. Besides this, We intend to provide off-the-shelf information system with complete spatial and non-spatial database of major Indian cities for ***Sales & Marketing, Logistics Management, Urban Planning, Law enforcement, Insurance, Banking, Site Analysis & solutions, Dealer Network, Detailed Executive information network, Road network, Courier & Cargo management supporting network, Better market penetration, Rural Marketing, Target Marketing, Sales analysis, Distribution logistics, Market segment analysis, Territory planning analysis, Plantation Management and Merchandise planning.***

Field Surveys (DGPS/GPS & TSS)

We also undertake jobs pertaining to the areas of Civil Engineering, Field and Physical surveys, e.g. land surveys, alignment studies. We are using latest surveying techniques for making ground corrections. This includes taking highly specialized services of Differential Global Positioning System (DGPS). We have adequate infrastructure and equipments like Global Positioning System (Garmin) and Total Survey Stations (Topcon & Geodimeter).

We utilise Differential Global Positioning System (DGPS) to establish GPS control points based on WGS-84 co-ordinate system. Further, Total Station traverse control is carried out between DGPS co-ordinates, to establish co-ordinates of all turning points, intermediate points and the flag control points, so that all co-ordinates are in terms of WGS-84 coordinate system.

We deploy Total Station for all survey measurements, readings required for planimetry, information and feature capturing, and levels. All level shall be with respect to Mean Sea Level. The system shall be capable of integrating with advanced computer software for data capturing, down loading and preparation of engineering drawings and alignment sheets. With the data captured, it should be feasible to create a Digitised Terrain Model through the use of engineering software.

Data Processing

We have the capability to deliver 4-5 lacs data entries per day. We have dedicated and experienced manpower to carryout these operations.

OUR TEAM

GEOTRAK's greatest asset is its people.

GEOTRAK provides friendly informal environment where knowledge transfer is actively passed. A participative management style helps in information flow.

GEOTRAK places great emphasis on the training of its personnel both formal & Informal.

GEOTRAK has a talent pool in following areas:

- Topographic Surveying
- Electrical Asset mapping
- Geo-technical Engineering
- Project Management
- CAD
- Environmental Sciences
- Software Engineering & Development
- Civil Engineering
- Cartography
- GIS Database Management

Due to vast experience and association with the industry, GEOTRAK is in a position to involve domain experts in the field of

- Electrical Engineering
- Remote Sensing & Satellite Imaging
- Forestry
- Environment Engineering
- Urban Planners & Architects

SKILL SETS

As a solution provider, we understand the need to supply right solution with right technology. We understand that particular project may require specific technical skills or platforms. Our skill set has comprehensive range of languages and technologies.

- **GIS – MapInfo, Map basic, ArcGIS, AutoCAD Map, Eradas Imagine.**
- **Database - Oracle 9i, SQL Server, DB2, MS Access**
- **OS platform - Windows 98, Windows NT, Windows XP, Windows CE**
- **Programming Languages - Java, C, C++, VC++, Visual Basic, Map Basic, LISP**

Survey Equipment

- Total survey stations (Topcon – 2 nos. Model 325 accuracy – 5 secs, Horizon – 2 nos. Model HT 352 accuracy – 2 secs)
- Auto Levels (5 Nos.)
- Optic Theodolite – NITD
- Trimble Epoch 10 DGPS
- Clinometre tangent
- Ranging rod, Binocular prismatic
- GPS (Garmin – 16 nos.),

OUR CLIENTLE LIST



Reliance Industries Ltd.



Indraprastha Gas Ltd.



Mahanagar Gas Ltd.



Oil & Natural Gas Commission



Delhi Metro Rail Corporation



CPWD



Power Grid Corporation of India Limited

TECHNICAL EXPERIENCE IN POWER SECTOR**PAST ELECTRICAL ASSET MAPPING**

S.No.	Description	Length	End client
1.	NDPL Electrical Asset Mapping	NORTH delhi	NDPL
2.	Electrical Asset mapping (REC)	892 villages Karnataka	Voyants
3.	Electrical asset mapping	Bhopal, Betul, Sarni	Voyants
4,	Electrical asset mapping	REC432 villages in UP	Voyants
5.	Electrical Asset Mapping	4 districts in Rajasthan	Mine code
6.			

S.No.	Description	Length	End client
1.	Reliance Gas Pipe Line	450 Km	Reliance
2.	Bidar city map	129 sq km.	DHV India
3.	DSSI Project	North Delhi	Navayuga
4,	Noida Drain Survey project	49 km	DHV India
5	Gas pipe line survey GAIL	22 km.	WTI (TCS)

PAST TRANSMISSION LINE EXPIRENCE

S.No.	Description	Length	End client
1.	Fatehpur-Agra (765 Kv)	272 Km	PGCIL
2.	Gurgaon-Agra (400 Kv)	188 Km	PGCIL
3.	Satana-Silwar CKT-1(765 Kv)	198 Km	PGCIL
4.	Satana-Silwar CKT-2(765 Kv)	200 Km	PGCIL
5.	Satana-Silwar CKT-3(765 Kv)	128 Km	PGCIL
6.	Recci Survey	1600 Km	PFC
7.	Recci Survey	800 Km	REC
8.	Ajmer-Didwana 400 kv	129 km	JSL
9.	Didwana-Bikaner 400 kv	167 km	JSL
10	Didwana - jhunu	37 km	JSL
11	Jhajjar - Sonipat	92 km	JSL
12	LILOOat Shujalpur PGCIL 400 kv	26 km	C&C
13	Check Survey	39 km	Isolux
14	Merrut PGCIL 400 kv	43 km	JSL

MANAGEMENT

■ **Mr. Ashutosh Shukla:** A 35 years old graduate a GIS professional, has about 17 years experience in the field of **Survey** and **GIS**. Started his career with **RMSI, New Delhi** as a Group leader for a **GIS** project (**GECC** flood project – USA), worked with **CE info systems (P) Ltd., New Delhi** as Sr. Technical Support Executive, **Sun Info Systems (P) Ltd., New Delhi** as Technical Head, **L & Q Surveys (P) Ltd., New Delhi** (one of the leading survey companies in Delhi) as a Technical Director, **Paridhi Technosoft (P) Ltd., New Delhi** as a working Director. Also he was associated with **World Bank** in the capacity of Asst. Consultant for World Bank funded National Highway project (**Survey and alignment studies**). Has also been a consultant to **Forest Survey of India, Forest Research Institute Dehradun, ONGC, Space Graphics (P) Ltd., New Delhi, Basemap India (P) Ltd., New Delhi, Pathfinder India (P) Ltd., New Delhi.**

■ **Mr Dheeraj Singh** A 35 years old graduate in civil engineering, has about 14 years experience in the field of survey and GIS . Started his career with **Kampsax India Ltd.** As technical manager. And worked with **Intec Infocomm (P) Ltd.** As Sr. GIS manager. Handled various important projects for **Reliance Industries, ABB, GTIL, Reliance Infocomm, NDPL** etc. He has worked for **GAIL, CMC, Indian Oil Corporation, IGL, SBI, ONGC, CPWD, NHAI, BSES** for different type of projects.