

Welcome to Survtech Pvt. Ltd.

We are **specialized in surveying**, which is the technique and science of **accurately determining the terrestrial or three-dimensional space position of points and the distances and angles between them**. These points are usually, but not exclusively, associated with positions on the surface of the Earth, and are often used to establish land maps and boundaries for ownership or governmental purposes. In order to accomplish these objectives, surveyors use elements of geometry, engineering, trigonometry, mathematics, physics, and law.



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Survtech Pvt. Ltd. conducts **topographical and contour survey** by making a wide use of total station, **DGPS** and **GPS**. **Hydrographic survey** we made mainly includes the **study of the quantities, distribution, circulation and physical properties** of water bodies. Our aim is to provide an understanding of the local groundwater system for onsite wastewater disposal for future management of water. In addition, our expertise also includes **Route surveying** which is related to the layout and construction of relatively **large scale linear and sub linear engineered systems** such as **fluid pipelines, electric transmission lines, rail lines and roadways**

Specialised Services Offered:

We offer specialised services in **Topographic Survey**, **Hydrographic Survey** and **Route Survey**.

Topographic Surveying



The **changes in topography** can have a **great influence on determining the nature of features in a geographical survey**. It is vital to produce a detailed and complete topographical survey as part of the field survey of any given site. **Survtech Pvt. Ltd. is highly qualified, experienced and technologically advanced in this area of expertise.**

We provide:

- **Topographic and Close Contour Survey** of sites and landscapes using total station.
- **Topographic and Close Contour Survey** of sites and landscapes using using DGPS.
- **Site gridding** using **GPS** and **DGPS**.

Hydrographic Surveying



The extraction of the river network from a digital elevation model (DEM) plays a fundamental role in modelling spatially distributed hydrological processes. In **hydrographic surveying**, we study the **quantities, distribution, circulation and physical properties of water bodies** and also to **provide an understanding of the local groundwater system** for onsite wastewater disposal for future management of water. We use **sophisticated instruments and techniques** like **Echosounders** to measure channel depth. Considerable water quality and level information is compiled, reviewed, and organized to assist in the documentation of local hydrogeologic conditions, wastewater practices, and evaluation of water quality. **We always generate detailed reports from the recorded data and send it to the client.**

Route Surveying



We offer **Route Surveying** which is **related to the layout and construction of relatively large scale linear and sub linear engineered systems such as fluid pipelines, electric transmission lines, rail lines and roadways**. Our **route surveying system** is generally associated with **highway design and construction**. Lot of importance is given for high level accuracy and

precision, and geodesic considerations become paramount to project objectives. The curvature of the Earth is factored into plane geometry and trigonometry. High accuracy levels become necessary due to magnetic, gravitational, atmospheric and elevation related effects to surveying methods. **Route surveying is done with the highest levels of skill and the applied technology.**

OUR PROJECTS :

- **Survey of 65 kms. of National Highway** for four laning between Beharampur and Farakka section of **NH-34 under Hindustan Construction Company (HCC) Pvt. Ltd.** The job involved detailed route survey with the **application of GIS Technology.**
- **Route Survey for 250 Kms under ICT Pvt. Ltd.** in various states of India including West **Bengal, Orissa, Rajasthan, Gujarat**, Etc. Our speed & accuracy in a very strict time schedule gained a lot of appreciation from our clients.
- Carrying out co-ordinated Topographical survey, showing all the topographical features by taking spot levels (**25M X 25M grid**) **with a contour interval of 0.5 M** of the entire area of **Bengal Shriram Hi- Tech City township** covering 314 acres at **Hindmotor, Hoogly.**
- **Carrying out Topographical Land Survey for 3x 660 MW Bijor thermal power project at Bijor, Madhya Pradesh.**The scope of work included carrying out **topographical survey & contour survey, mapping of surveyed areas, digitization of revenue maps** and submission of drawings.
- **Conducting Hydrographic survey of reservoir for NHPC Limited of Rangit Power Station.** This job included **Conducting Hydrographic & Topographical survey of the reservoir, preparation of cross_sections from Dam axis to the tail of the reservoir**, extending on both the banks 5 M above FRL including control survey. The spot levels were taken at an interval of **10 /5 M or less** as per change in ground profile.
- Deployment of survey team in **BALCO** smelter project for **precision checking of pre-concrete & post concrete stages** and assisting in day to day survey work. Overall scope included **setting out co-ordinates, establishment of benchmarks at various points** etc as per direction of engineer-in-charge.
- Confirmatory survey of **RCC bridges at different locations in Agartala, PWD(R&B) Tripura for SIMPLEX PROJECTS LTD.** The services included confirmatory topographical survey including cross-sections Long-sections, checking levels of TBM pillars, confirmation of HFL, survey of approach roads & proposed alignments.
- **Deployment of survey teams for general survey work of mining project at Lanjigarh Dist. Kalahandi, Orissa under VEDANTA ALUMINIUM LTD.** The work covered surveying, checking, demarcation of facilities area, crusher location & mining lease area.
- Survey of **2000 km of rural roads and pathways** under **PMGSY scheme in Tripura State for NBCC and HSCL.** The job involved about **1500 km of new alignment and 500 km of upgradation.** Days after days our surveyors worked in closed coordination with security personnel in remote areas coupled with adverse working conditions.

Major works done for our parent organization, C. E. Testing Co Pvt. Ltd:

- Conducting **land survey, Zirat Survey and preparation of LAP for 109 Kms** in connection with construction of **New BG line from Byrnihat to Shillong under N.F. Railway**. Being one of the most challenging jobs, it includes high precision for **mapping land acquisition data** and maintaining formal procedures of approval in the rugged terrain of **Meghalaya**.
- **Detailed Survey and Soil Investigation of 618 Kms in North-Eastern Region** including the States of Assam, Meghalaya, Arunachal Pradesh **under CES(India) Pvt. Ltd.** by using Modern Survey Techniques like **Satellite Imageries, Total Stations, GPS** etc. for various Transmission lines associated with "Comprehensive Scheme for Transmission System Strengthening in North Eastern Region". It included **fixation of preliminary route alignment extensive detailing, BOQ preparation and DPR submission**.
- **Gas Pipe Line survey** for about **30km** of length **under Oil and Natural Gas Corporation Limited (ONGC), Tripura** was carried out by our experienced survey engineers where the shortest route was clearly demarcated within a short span of time and was highly appreciated by our clients. In this project, **digitization and super imposition of our drawings on the cadastral maps** was a special task for preparation of land acquisition plan which was completed quiet smoothly .
- **Topographical survey of "SASAN POWER PLANT"** in **Madhya Pradesh under Reliance**. It covered an area of about **4500 Hect. in four parts namely Main Plant, Township, Ash Pond, R&R Colony**. Survey has been carried out with **DGPS, Total Station, and Digital Auto Level**.
- Survey of **1200 km rural roads and pathways under P.M.G.S.Y scheme in Bihar for IL&FS for new connectivity**. These projects provide **connectivity across 10 districts in Bihar**. Our survey team **earned huge reputations for speedy and accurate completion of the job and timely delivery**.
- Survey of **165 km state highways in Assam under S.M.E.C. Pty. Ltd.** It covered 6 packages expanding across 4 districts like **Udalguri, Goalpara**, etc. The job involved making **Bench Mark with DGPS** followed by Level transfer and thereafter detailing with **Total Station**.
- Survey of **225 km state highway in Arunachal Pradesh**. It provided connectivity across areas like **Passighat, Pangin, Koyu, Ego**, etc. It was a **challenging opportunity to work in rugged terrain & hostile environment**.
- **Coal conveyor route surveying** of about 100 km in **Lanjigarh & Sasan under Vedanta & Reliance**.
- **Survey of cities located in Agartala, Imphal and Dimapur**. These surveys were carried out for **development of drainage and sewerage disposal system** and details of all roads were incorporated. Conducting survey in these regions were a challenge as it was located in the densely populated regions of North East recording very heavy rainfall. **Extensive use of GPS** was made for **transferring the levels and coordinates** on each road at an interval of about 200m.
- **Topographical survey of closed power plant at Tanda, U.P. under NTPC**. The aim was to **prepare the existing plant and colony drawing** before expansion by NTPC is taken up. The site was also a learning ground for our engineer with respect to plant survey.

Equipments for Survey/Drawing

Survey

- Electronic Total Station - 25 sets
- D.G.P.S. - 01 set
- G.P.S. - 01 sets
- Hand G.P.S. - 12 sets
- Auto Level(digital) - 01 set
- Auto Level - 13 sets
- Echo-Sounder - 05 sets
- Current Meter - 03 sets
- Computer- 13

Drawing

- AutoCAD 2000, AutoCAD 2004, AutoCAD 2008
- MX Road
- Auto civil 3D 2009
- Auto plotter
- PLS Cad

Clients

Name of our few Esteemed Clients:

- **NBCC:** National Buildings Construction Corporation Ltd.
- **HSCL:** Hindustan Steelworks Construction Ltd.
- **HCC:** Hindustan Construction company Ltd
- **BALCO:** Bharat Aluminium Company Ltd
- **VEDANTA:** Vedanta Aluminium Ltd, Vedanta university Project
- **SIMPLEX:** Simplex Projects Ltd.
- **ICT:** ICT Pvt. Ltd
- **BENGAL SHRIRAM :** Bengal Shriram Hi Tech City Pvt. Ltd
- **GMR:** GMR energy Ltd.
- **NHPC:** NHPC Limited
- **NF Rly:** North Frontier Railway
- **SPL:** Sasan Power Ltd
- **MES:** Military engineering services

Clients we are associated with while working for our parent organization:

- **NTPC:** National Thermal Power Corporation Ltd.
- **MECON:** Mecon Limited
- **EPIL:** Engineering Projects India Ltd.
- **GAIL:** GAIL(India) Limited
- **BHEL:** Bharat Heavy Electricals Ltd.
- **HPCL:** Hindustan Petroleum Corporation Ltd.

- **IOCL:** Indian Oil Corporation Ltd.
- **M. N. Dastur & Company(P) Ltd.**
- **DCPL:** Development Consultants Pvt. Ltd.
- **EIL:** Engineers India Ltd
- **CES:** Consulting Engineering Services (India) Pvt. Ltd
- **BCCL:** Bharat Coking Coal Ltd.
- **SEPCO:**SEPCO ELECTRIC POWER CONSTRUCTION CORPORATION
- **JINDAL:** Jindal Power & Steel
- **Utkal Alumina**
- **Hindalco :** Hindalco Industries Ltd.
- **Sterlite :** Sterlite industries India Ltd.
- **BCPL:** Brahmaputra Cracker & Polymer Ltd.
- **IL&FS:** Infrastructure Leasing & Financial Services Ltd.
- **TFR:**Tata Robins Fraser Ltd.
- **GEL:** Gherzi Eastern Ltd

About Us

Survtech Pvt. Ltd. was founded in the year 2003. The **original mission of the company was associated with conducting route survey.** As a result of rapid growth and client demand, **Survtech** continued to diversify itself in areas of **topography and hydrographic surveying and mapping.** Today it serves a wide spectrum of clientele utilizing our **multi-disciplinary, professional capabilities in surveying, hydrogeology and engineering.**

Our Mission & Vision

Our mission is dedicated towards providing cost-effective turnkey multidiscipline professional and technical support for development interests, regulated industries, small business, and local, State and government entities. We utilize the scientific method approach and are committed to common sense problem solving through our diversified capabilities.

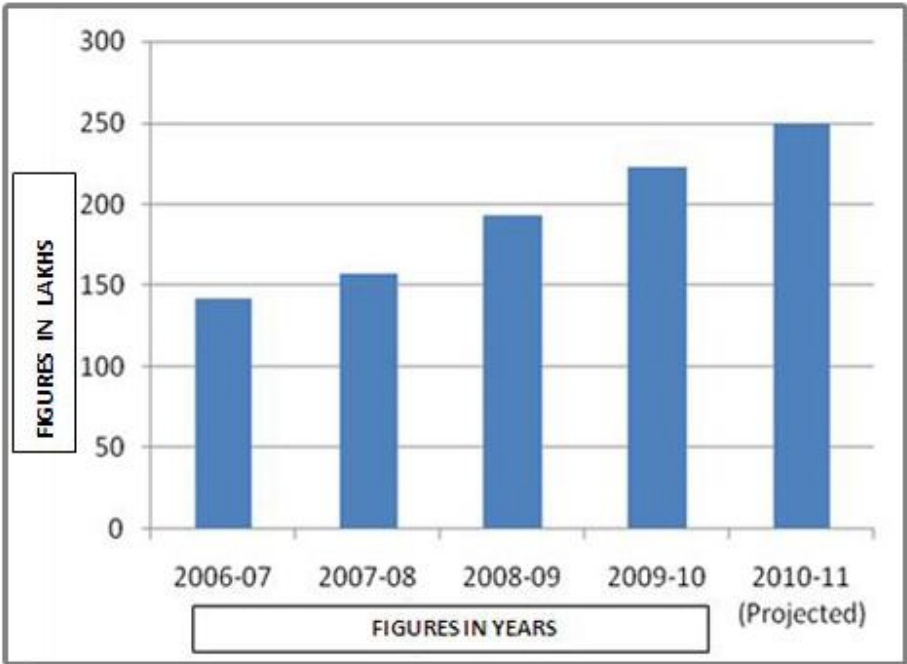
Our Speciality

100% of our survey work is produced under **Autocad 2009** and we can email soft copies to our clients within no time. This ensures that our **clients carry out their own design work in a far shorter period than that was possible in the past**. Our submissions are always easy to interpret with proper colour coded features and contours at required intervals. **The drawings are always customized to meet client specific requirements.**

Key Personnel

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Mr. Sk. Jakir Hosen
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Mr. S. Talukdar
Mr. B. Banerjee
Designation
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Advisor
Principal Survey Engineer
Sr. Manager (Operations)
Associate Consultant
Asst. Manager(Marketing)

OUR GROWTH:



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