



TRAFFIC



HIGHWAY



REHABILITATION



For **Good Services** to
Build a **Good Nation**



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Introducing SVSLS Engineering Private Limited

SVSLS is the next-generation engineering surveying company headquartered in Hyderabad which uniquely delivers End-To-End Engineering and Business Related Solutions.

Our journey began as a survey consulting service in 2015, with our capabilities and expertise in commissioning engineering projects. We had our transition as a limited entity in the year 2017, and subsequently renamed as a SVSLS Engineering Private Limited, and transformed as an "Incorporated Entity"



Our accolades

"Our accolades have always been the true reflection of the sustained hard work since inception". Our services have accelerated business outcomes for our clients and through our expert engineering services. We initiate our services through a structured engineering consulting. The expertise solutions have truly transformed businesses not only for a better today, but well planned solutions for a better future.

The core Areas that we work upon

The company has been the service provider for public agencies and private sector companies across PAN India. The company along with a strong and efficient team specialise in the following three major verticals: Traffic Engineering Services, Highway Engineering Services, Rehabilitation & Resettlement Services

Our Deliverables

At SVSLS, we combine innovative ideas with deep understanding of the engineering services and business knowledge by integrating the global technology to deliver tomorrow's business solutions today. We are an amalgamation of innovators, designers, developers and strategists who are passionate enough to transform the traffic, highway services holistically.

The commitment that talks about our finest workmanship

Our work speaks for itself: SVSLS Engineering emphasises to build a foundation for sustained growth through a result-oriented team who are persistently empowered to execute the growth strategies. The seasoned professionals take up responsibility and exhibit high levels of ethical standards to constantly maintain the company's credibility to the "Clients, Business Partners and Shareholders" Our employees are entrusted to perform the task with high ethical standards in order to maintain the credibility to the clients and business partners. The central theme of work has always been towards working as a team which brings in trust and confidence amongst their colleagues, superiors and subordinates holistically.

The deliverables that makes us unique in the marketplace

We offer the most reasonable quote for clients who seek our service Our services persistently delight the client towards delivering beyond the expectations The team always have an emphasis to complete the task assigned well before the speculated time.



Management Team



Mr. Rangachari-Founder & Managing Director M/s. SVSLS Engineering Private Limited

Mr. Rangachari is the Founder and Managing Director of SVSLS Engineering Pvt Ltd, a limited company which bears the credit of conducting traffic surveys. Mr. Rangachari has always acknowledged to having coordinated

- 70 Traffic related surveys,
- 15 Engineering related surveys
- 3 Rehabilitation related surveys in is career spanning 14 years

Academically, Mr Rangachari holds a Postgraduate Degree in Human Resource Management (HRM) and is being credited for playing a major role in consulting and conducting public meetings at sites such as FMB's and Adnangal's (Land Record) collection for Detailed Project Report (DPR), collection of village maps for DPR etc.

He has participated in Baseline Surveys, Socio-Economic Surveys, Social Assessment and Social Impact Assessment exercise which were conducted as a part of the R & R Project.

- He has involved in pre-construction activities, such as fixing and right of way (ROW), preparation of land plan schedules, traffic surveys, structural evaluation and land acquisition.
- Has participated in joint inspection along with Govt. departments such as Revenue, Road & Building (R & B), Forest, Electrical, Rural Water Supply, Irrigation, Endowment, Horticultural and BSNL.
- He holds the management at the site office for the maintenance of establishment, agreements of site vehicles and other important tasks. He participated in the preparation of R & R project report.

AARVEE Associates Engineers & Consultants Pvt., Ltd

Mr. Rangachari began his professional as a field assistant at AARVEE Associates Engineers & Consultants Pvt Ltd, Hyderabad from November 2005-January 2011.

In the capacity of field assistant his deliverables were:

- Conducting public consulting meeting at site such as FMBs and Adangal Pahani collection for DPE, collection of village maps for DPR etc.
- Participated in Baseline Surveys, Socio - Economic Surveys, Social Assessment and Social Impact Assessment Exercise, which were conducted as part of R & R Project.
- He involved in the pre-construction activities, such as Fixing of Right of Way (ROW), preparation of land plan schedules, traffic surveys, structural evaluation, and land acquisition.
- He participated in joint inspection along with Govt. Departments like Revenue, R & B, Forest, Electrical, Rural Water Supply, Irrigation, Endowment, Horticultura land BSNL.
- He holds the management at the site office for the maintenance of Establishment, Agreements of site vehicles and other important tasks. He participated in the preparation of R & R Project report.



Era Infra Engineering

During his stint in Era Infra Engineering Limited, Hyderabad, played a key role of handling the grievance in the management and maintained a harmonious relations in between management and employees in order to provide better working conditions.

His deliverables at Era Infra Engineering. He had a reputation of handling the General Administration, Facility, Management. He has also handled the Site Office Management which includes establishment, arrangement of vehicle agreements in an efficient manner.

He has monitored security arrangements, housekeeping activities and attendance records of employees. Handled recruitment and organised employee engagement activities as and when time demanded

VR TECHNICHE Consultants Pvt Ltd

In the capacity of manager, he played a key role in planning & coordination, supervising and monitoring of all investigations, related to traffic studies-(Manual Traffic Surveys, Video Based Traffic Surveys)

- Manual Traffic Surveys
- Video Based Traffic Surveys
- Origin Destination (O-D Survey)
- Axle Load Surveys
- Coding
- Highway Inventories
- Benkelman Beam Deflection (BBD Surveys)
- Field Investigations
- Site Office Management

Mrs. Sharanya-Director

M/s SVSLS Engineering Private Limited

Mrs. Sharanya is the Director of SVSLS Engineering Private Limited, an engineering consulting firm and has been proactively involved in the company's growth since the last 4 years. Her area of work includes the overall administration of the company. She has a Experience in Civil Engineering.





Executive Core Team

The core executive team at SVSLS has been driven with arendt philosophy and qualities of compassion, foresight, wisdom, punctuality and single-minded concentration. The team follows the **Strengths, Weaknesses, Opportunities and Threats (SWOT)** as part of our project implementation and execution. SVSLS Engineering have specifically hand-picked the technical workforce who bring in the technical expertise and experience in specific areas of traffic engineering.



Mr. Ramesh.B (Assistant Transportation Planner)

Mr.B. Ramesh is an alumnus from National Institute of Technology, Warangal and holds an M.Tech in Transportation Engineering. He is in the capacity of an Assistant Transportation Planner at SVSLS Engineering.

Responsibilities & Deliverables:

- He does the multitasking at SVSLS Engineering by being both Team Leader and Business Development Executive (BDE).
- As a strategic move, he is responsible for traffic related data for planning.



Mr. Venu .T (Sr.Engineer)

Mr. Venu.T is an alumnus from Jawaharlal Nehru Technological University (JNTU), Hyderabad and holds an M.Tech in Protection Engineering. In his current capacity, he serves as a Team Leader for the site.

Responsibilities & Deliverables

- He is good in coordinating with the clients and staff
- Identifying the training needs
- Developing training programs to ensure constant learning and development of employees
- Establishing a proper organization structure



Mr.Kranthi Kumar.K (Post Graduate Trainee Engineer-PGTE)

Mr. Kranthi Kumar is an alumnus from Jawaharlal Nehru Technological University (JNTU), Hyderabad. He holds an M.Tech in Protection Engineering. In his current capacity, he is the coordinator with the clients and staff.

Responsibilities & Deliverables

- Identifying training needs
- Developing Training programs to ensure constant learning and development of employees
- Establishing a proper organization structure.



Mr. Malla Ashish (Sr.Site Engineer)

Mr. M. Ashish is a Diploma in Civil Engineering from MATS University of Engineering and Information, Raipur, Chattisgarh. He had his expertise of being a site engineer at Raipur in 2015. In his current capacity, he assumes the role of Sr. Site engineer.

Responsibilities & Deliverables

- He coordinates with clients and team members as a site supervisor.
- He gets involved in frequent site visiting.
- He is good in coordinating with the clients and staff
- Having Worked with GKC Projects Pvt Ltd for the past 3 years.



Mr.Ramesh.B (Data Co-Ordinator)

Mr. B.Ramesh is an alumnus from Jawaharlal Nehru Technological University (JNTU), Hyderabad. He holds an M.Tech in Power Engineering. He has worked with VR TECHNICHE PVT LTD as a executive supervisor.

Responsibilities & Deliverables

- He is responsible for traffic related data for planning and foresees traffic data collection from videos with VTCC (Video Based Traffic Counter & Classifier), Data backup.
- He is also involved in road side interview, Origin-Destination (O-D) and other travel related information.

Our Services

SVSLS Engineering Private Limited is persistently able to deliver engineering services across in all over India and the World clients.

As part of the service offerings, we deliver three core service deliverables: **Traffic Engineering, Highway Engineering and Rehabilitation and Resettlement Surveys**, which are comprehensively customized as per the challenges and needs of our valued clients.

Traffic Engineering

Traffic Engineering helps in the highway development process and takes you through the process of traffic studies which helps the land owners, developers in order to provide safe and efficient transportation systems for the users.

Traffic related data for planning and analysis was traditionally obtained by conducting traffic surveys manually through regional transport authorities. To standardize the process of data collection and creating of central data repository, Ministry of Road Transport and Highways (MORTH) envisaged to conducting traffic surveys on National Highways using portable automatic traffic counter and classifier (ATCC) systems.

SVSLS Engineering has been working on various tools and techniques for the design of roadways, freeways, traffic interchanges, intersections, traffic signalization in concert with the roadway intersection geometry. These techniques help us to provide adequate



Manual Traffic Volume Count

Traffic volume count is referred to as the counting system of number of vehicles that has passed through a road over a period of time and is usually expressed in terms of Passenger Car Unit (PCU).

The PCU is measured to calculate the following:

- Level of service of the road
- Attributes such as congestion, carrying capacity of the road
- V/C ratio, identification of peak hours or extended peak hours

In simple terms, traffic data collection becomes the basic requirement for transport planning and hence becomes an integral component in transport policy for the movement of passengers and goods by both government and private sectors.

Traffic Counting From Videos Using VTCC

Video Based Traffic Counter Classifier is a technology which helps in collecting real-time data which is reliable and used to analyze the precise traffic flow information. The traffic data helps in the crucial Traffic Management and conduct holistically. The Traffic Counter Classifier is software that saves time and efforts. It provides fast and automatic processing of video. SVSLS Engineering is involved in Traffic Video Recording (TVR), processing and data generation. Through TVR, we are able to achieve the following:

- Consideration of the calculate level of service of the road. Attributes like congestion
- Vehicle carrying capacity
- V/C ratio, identification of peak hour or extended peak hours
- Establishing the use of the road network by vehicles of different categories



- **Wayside Amenities Survey**

Travelers on National Highways often face lack of structured way side amenities like clean toilets, hygienic restaurants, dhabas, vehicle repair shops, ATM etc. Many a time the facilities even if available, do not meet the diverse requirements of different categories of road users. The lack of required facilities not only causes inconvenience but also sometimes results in insufficient rest and consequent lack of attention among drivers, which is a serious road safety issue.

- **Spot Vehicle Speed Testing Surveys on Highways (Horizontal Curves and Vertical Curve using Radar Gun).**

When we measure the traffic parameter over a short distance, we generally measure the spot speed. A spot speed is made by measuring the individual speeds of a sample of the vehicle passing a given a spot on a street or highway. Spot speed studies are used to determine the speed distribution of a traffic stream at a specific location.

The data gathered in a spot speed studies are used to determine vehicle speed percentiles, which are used in making many speed-related decisions.

- **Turning Movement Count Survey (TMC)**

This survey involves capturing vehicle-turning movements and its composition in an intersection. This information is vital for all strategic junction improvements, signaling, planning the pedestrian crossing. It provides the peak hour turning movement information.

- **Multi-level Car Parking Survey**

Multi-storied car parking survey will help in parking large number of vehicles in a smaller area. This automatic car parking system enables the parking of vehicles, floor after floor and thus reducing the space used. Also automating will help in less manual intervention and thus will lead to fewer problems. Parking analysis is a mandatory process, when a new structure development is planned in a new site.

- **Pedestrian Survey**

Pedestrian Surveys are also referred to as the pedestrian movement surveys which analyses the movement of the pedestrians during the selected observation periods. The purpose of the survey brings the record of total number of pedestrian movement and their specific interaction with vehicles.

- **Origin-Destination (O-D) Surveys**

Origin-Destination (O-D) surveys provide a detailed picture of the trip patterns and travel choices of a city's or region's residents. These surveys collect valuable data related to households, individuals and trips.

- **Vehicle Number Plate Registration Survey**

Registration Plate Survey (VNPR) The technique adopted was based on a number plate survey. This involves identifying vehicle movements by matching vehicle sightings at various survey locations using the number plate as the primary means of vehicle identification.



Highway Engineering

Highway Engineering has been a branch of civil engineering, where engineers work comprehensively onto planning, designing, construction and subsequent maintenance of highways and also to some extent get into the regulations and control of civil engineering equipment which are particularly deployed in highway traffic operations.

- **Axle Load Surveys (ALS)**

Axle load surveys provide invaluable and essential information that are required for cost effective pavement design and preservation of the existing roads.

- **Benkelman Beam Deflection (BBD Survey)**

The Benkelman Beam Deflection (BBD Survey) is a testing procedure which determines the rebound deflection of a pavement, under the static load of the rear axle of a standard truck. The BBD surveys would involve the dual wheels of the truck to be centered on the equipment and tested for deflections.

- **Endowment Surveys (Temples on Highways Survey)**

Endowment Surveys involves the usage of existing road construction which is often obstructed by a temple or any religious structures. We conduct the endowment survey and work on the Detailed Project Report (DPR).



- **Enumeration of Trees Survey**

Biodiversity of plant forms like trees and shrubs constitute the important component of the forest, as they contribute to the significant biomass which has got a higher scope than any other biotic forms. Above all, the trees and shrubs being perennial in nature, it is hence very important to enumerate the trees and shrubs in a particular area.

- **Materials Collection (Aggregate, Sand and Soil)**

Aggregate: Construction aggregate, or simply "aggregate", is a broad category of coarse to medium grained particulate material used in construction, including sand, gravel, crushed stone, slag, recycled concrete and geosynthetic aggregates.

Sand: Sand is used to provide bulk, strength, and other properties to construction materials like asphalt and concrete. It is also used as a decorative material in landscaping. Specific types of sand are used in the manufacture of glass and as a molding material for metal casting

Soil: Soil is the upper layer of earth in which plants grow, a black or dark brown material typically consisting of a mixture of organic remains, clay, and rock particles.

Pavement Condition Survey

Pavement Condition Surveys normally refers to the survey conducted towards the serviceability, physical conditions of the road pavements. SVSLS Engineering conducts the pavement condition surveys on a regular basis and ensures that the pavements are maintained properly and attention is given to the quickest restoration.

- **Road Inventory**

The road inventory that we undertake at SVSLS Engineering would involve a comprehensive study of the following:

- Type of roads
- Road and its pavement widths
- Street Lighting
- Luminosity
- Drain Types
- Encroachments



- **ROW Stones fixing for Highways**

The Right of Way (ROW) is the total land width required for the Project Highway, to accommodate the roadway (carriageway and shoulders), side drains, service roads, tree plantation, utilities, etc.

- **Sign Boards Fixing**

Sign board fixing becomes an important activity when during the road work, the normal function of a road gets suspended and a temporary traffic planning and execution becomes pro-active. SVSLS Engineering has been persistently working on the sign board fixing and helps to delineate each vehicle drivers to take the driving decisions.

- **Utility Survey**

There has been an increased necessity of buried services in the recent past, with underground pipes, cables, ducts and culverts. These underground services use a range of survey techniques such as GPR, electromagnetic detection. SVSLS Engineering has become prominent in conducting the utility surveys and services which could assist the civil engineers to undertake the vast range of utility services

- **Auto Leveling Survey**

Auto levelling survey is an optical instrument that we use at the site which helps to understand the rough distance measurement estimation. We mostly prefer this instrument at the construction site, as the Auto levelling survey that we use enables us to have accurate level data of the site which needs to be surveyed



Rehabilitation & Resettlement Surveys

- **Household Interview Survey**
A household survey is the process of collecting and analyzing data to help us understand the general situation and specific characteristics of individual household or all households in the population. As a part of the household survey; field sample are taken of all the households which form a part of the study area. The survey could include observation checklist and records of field discussions.
- **Socio-Economic Survey**
A socio-economic survey helps the organizations to have their validations done in business. The purpose of having socio-economic surveys would enable to fetch data with reference to social, political and economic aspects of the said territory. SVSLS has been conducting the socio-economic surveys and are able to achieve the business preposition quite diligently.



PROJECTS

SVSLS Engineering Private Ltd, has extensive expertise in commissioning the projects across India.

V R TECHNICHE CONSULTANTS PVT., LTD under the empanelment of IHMCL (Indian Highways Management Company Limited)



1. Has involved from 1st-6th rounds ATCC Based Survey and Video Based Survey in different location at Uttar Pradesh, Madhya Pradesh, Chhattisgarh.
2. We involved in O-D Survey for two toll plaza locations at NH 7 & 44 in Maharashtra
3. Involved for a day on Axle Load Survey (ALS) & Benkelman Beam Deflection (BBD) Survey for Trial Pits & Soil Testing on National Highway 7 in Karnataka
4. 7-days Video Based Traffic Survey for Wayside Amenities Project at 2 locations in Telangana and Karnataka on NH-44
5. Got involved in Video Based Traffic Survey and O-D surveys at Cuttack Chandikole section in Orissa, National Highway-16.
6. 7-days, Video Based Survey and O-D survey at Barwa Adda-Panagarh section of Jharkhand and West Bengal, National Highway-19
7. 7-days, Video Based Surveys and ATCC surveys at 6-locations in Tamil Nadu & Telangana for the project- Hybrid Electronic Toll Collection Project (HETC)
8. 7-days, Video Based Traffic Surveys and O-D surveys for the project covering the sections of Narketpally-Addanki-Medarametla in Telangana and Andhra Pradesh (State Highway-2) NAMEL Project

CUBE HIGHWAYS & INFRASTRUCTURE PRIVATE LIMITED

1. 20-months Video Based Traffic Survey at three Toll Plaza locations covering the sections of Narketpally -Addanki Medarametla (State Highway-2) NAMEL Project.
2. 2- months Video Based Traffic Survey and O-D surveys at Wadakkanchery Toll Plaza (Thrissur Expressway Ltd)
3. 40-days, Video Based Traffic Survey and O-D survey's at Angamaly Toll plaza-Thrissur-Kochi section in Kerala of NH-47



RUKY PROJECTS PRIVATE LIMITED

- 1. Manual Traffic Decoding from videos at Solapur-Bijapur section on NH-52 in Maharashtra and Karnataka
- 2. Manual Traffic Decoding from videos at Warangal-Mulugu section on NH-163 in Telangana
- 3. Manual Traffic Decoding from videos for the project in Tamil Nadu for Junction Count.
- 4. Manual Traffic Decoding from videos at Kanchi-Walajipeta section on NH-4, Tamil Nadu

CHOUDHARY AND CHAUDHARY COMPANY

- 1. 7-days Video Based Traffic Surveys at 3 locations in Duddeda-Vemulawada section in Telangana
- 2. 7-days Video Based Traffic Survey at Mumbra bypass in Maharashtra

HOLTEC CONSULTING PVT LTD

3- days Video Based Traffic Survey near Kotdwar in Uttarakhand

BHARI INFRA PRIVATE LTD

16-hours Video Based Traffic Surveys at 3 locations for Nampally Multi-level Car Parking (MLP) project at 3 locations in Hyderabad

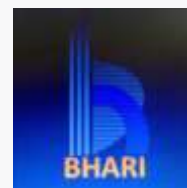
G GROUP ENGINEERING & ARCHITECTURE

Traffic Survey at various locations in Hyderabad for Foot Over Bridge (FOB) project.

The above mentioned project is a just a cumulative list of commissioned projects. SVSLS Engineering has been achieving its milestones to have commissioned 50-major and minor projects across Indian subcontinent. The team at SVSLS have been the impeccable testimony in the marketplace who are competent and expertized to handle multiple projects.



OUR CLIENTS



OUR TEAM



SVSLS Engineering Pvt Ltd

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