



Atul Engineering
Consultancy Services Pvt. Ltd.



H i g h w a y s • B r i d g e s • T u n n e l s

About Us

AECSP – Atul Engineering Consultancy Services Pvt. Ltd. is Infrastructure Consultancy firm having experience in various sectors such as Road, Bridge, Tunnel, Railway & Metro, Water Supply & Drainage, Power, Port.

Established in 1995, the company has main vertical in **Roads. Bridges. Tunnels.** Since last 25 years, effort has been taken to provide entire range of services required for Road Network Development – right from Field Data Collection, Planning, Designing as well as Estimations, Feasibility studies and Project preliminaries such as Land Acquisition, Utility Shifting, Environment and Social Assessments etc.

We work at Pre-tender phase for preparing Feasibility and Detail Project Reports as well as in Post-tender phase as Design Director for preparing Good For Construction working design and drawings, Proof Consultants and in Project Management as Execution Experts and as Authority / Independent Engineer for Supervision.

With Pan India presence, our clientele includes Central and State Government bodies as well as BOT Entrepreneurs and EPC Contractors. Our wide range of services, establishments and expertise along with strong network of Associates provide comprehensive solutions to client for all technical, legal and financial aspects of project under one roof.

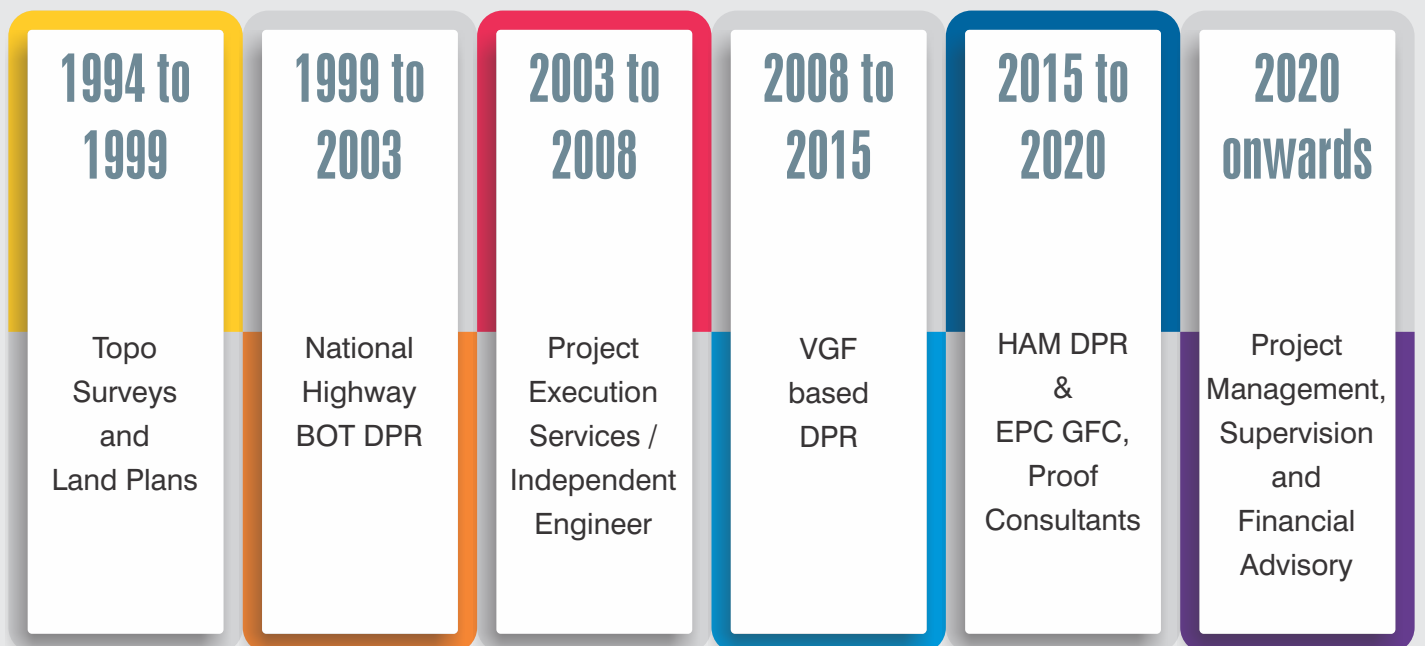
We have been known for our Value Engineering, strong credibility, pro-active behaviour, transparent and frank advice at very optimistic fee structure. We have been constantly updating our technical skill sets by grooming our selective talent pool and introducing innovative ideas and updated technologies.



Sectors



Addition in Services



Range of Services (Pre Tender)

Site

Title

Scale

Date

Draw

Check

Project No.

Drawing No.

➤ Feasibility studies

- ▶ Mode of funding - BOT/ HAM/ EPC
- ▶ Financial feasibility on Toll [FIRR]
- ▶ Economic feasibility [EIRR]

➤ Detailed project report

- ▶ Technical design, drawings & estimates
- ▶ Preliminaries like Land Acquisition, utility shifting
- ▶ Environmental & Social assessments
- ▶ Bidding documents

➤ Technical Assistance for bidding

- ▶ Study of DPR, Bid documents and site
- ▶ Working out / cross-checking main BOQ
- ▶ Pointing out important / critical factors of bidding

- **Design Director**
 - ▶ Field data collection like topo, geo-tech etc.
 - ▶ Code compliant value engineered working drawings & BOQ
 - ▶ Specialized inputs in Techno-Legal matters like COS, EOT

- **Project Management**
 - ▶ Time & Resource Scheduling
 - ▶ Progress & problem reporting
 - ▶ Quality assurance planning

- **Supervision**
 - ▶ Quality control
 - ▶ Quantity certification
 - ▶ Contract monitoring
 - ▶ Operation & maintenance

- **Other services**
 - ▶ Proof consultancy for ensuring compliance of agreement and manual provisions
 - ▶ Safety consultancy for ensuring safety during design/ construction/ operation stage
 - ▶ Lender's Engineer and Fund raising assistance for appraisal
 - ▶ 3D modelling/ walkthrough for project visualization
 - ▶ BIM for project progress reporting



Stage Wise Activities

Field Data Collection



- DGPS controls, Total Station surveys for topography and hydrographic data
- Use of modern technologies like LiDAR and Drone surveys
- Soil investigations and sub-surface records using GPR
- Material testing for CBR and other parameters for Mix Design
- Traffic data collection using Automated Video Based surveys
- Axle load, Origin Destination, Speed Delay and turning movement surveys
- FWD / BBD tests for pavement inventory and evaluation
- Structural audits for repairs and rehabilitation, residual life estimation
- Conducting various tests for structures like non-destructive/ ultrasound/ load

Planning



- Master planning of road network in urban areas with town planning aspects
- Planning for bypasses around cities and towns
- Traffic modeling for monitoring and forecasting
- Accident analysis and safety audits with black spot removal planning
- Project execution and Work Zone planning

Design & Estimation



- Geometry: Improvement of existing and new road construction, hill roads
- Pavements: Flexible and rigid pavements, overlays, rehabilitation
- Structures: Major bridges, Flyovers, ROB/ RUB, Under/ Over passes
- Tunnels: Drilling, lining, lighting and ventilation
- Hydraulic: Cross drainage, storm water drains, river diversions
- Earthwork: High embankments, deep cutting, erosion and landslide control
- Facilities: Bus bays, Truck lay byes, Toll plaza, Road Safety and User Information

Documentation



- *Pre-Tender Stage:*
 - ▶ Defining bid process and preparing documents like RFP, RFQ
 - ▶ Bid evaluation Assistance to Government
 - ▶ Technical Assistance for Bidding to Bidders
- *Other*
 - ▶ 3D modeling and walkthrough for project visualization
 - ▶ BIM support
- *Post-Tender Stage:*
 - ▶ Change of Scope identification and support
 - ▶ Techno-Legal advisory for contract management

Project Preliminaries



- Land plan and acquisition process assistance
- Identification and shifting of existing utilities
- Environmental and Social Impact assessment and management
- Project funding / Financial closure assistance

Achievements till Date



- ▶ Detailed Project Reports for **1500+ km** road length
Costing **Rs. 4000+ Cr**

- ▶ Proof Consultancy of **200+ km** road length

- ▶ Design Director / Good For Construction design & Drawings **500+ km**
Costing **Rs. 3000+ Cr**

- ▶ Worked on City roads, State Highways, National Highways, Expressways.

- ▶ Clients include Municipal Corporations, State PWD's, MORT&H, NHAI, Multi National Consultants.

- ▶ Projects include 2-lane with paved shoulders, 4-laning, 6-laning, Elevated roads.

- ▶ Road Designed for Widening of existing roads, New alignments, Hill roads.

- ▶ Structure Design include Major Bridges across rivers, creeks, Flyovers and elevated roads with segmental construction.

- ▶ Traffic Tunnels with artificial lighting and ventilation.

- ▶ Majority staff more than 5 years with firm and Key personnel working more than 10 years with us.

- ▶ Associates working with us more than 8 years for various specialized services on various projects

- ▶ Many clients with repeated orders more than 2-3 projects and long lasted relationships more than 5 years.



Atul Engineering

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