

T & T Consultants

Traffic Engineers & Transport Planners





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OUR STRENGTHS :

Experienced Core Team: Skilled Civil Engineers and Transport Planners from IITs and NITs dedicated to excellence.

Impressive Clientele: Trusted by industry leaders, a testament to our commitment.

Robust Survey Methodology: Years of field experience and tailored approaches for accuracy.

Industry Standard Softwares like Cube Voyager, VISSIM, Sidra, Synchro, R Studio.

Customized Solutions: Tailoring our approach to meet your project's unique goals and requirements.



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WHO WE ARE

- At T & T, we are the architects of tomorrow's transportation landscape. With an unwavering commitment to excellence and a distinguished team of civil engineers and transport planners, we have established ourselves as pioneers in the realm of transportation engineering.

OUR SERVICES :

- Harnessing industry standard software tools like Cube Voyager, VISSIM, QGIS, Sidra, Synchro and Rstudio, we specialize in:
 - Traffic Forecasting and Toll Revenue Estimation: Essential for BOT and TOT projects, ensuring precise planning and investment in road projects.
 - Passenger and Freight Demand Modeling for Railways: Expertly modeling rail transport, including high-speed and semi-high-speed trains.
 - Urban Transport Demand Modeling: Accurately predicting future transportation needs.
 - Transaction Advisory Services: Guiding OMT and BOT projects with expertise in financial planning.
 - Traffic Circulation Plan for Urban Transport Terminals: Optimizing vehicle and passenger flow.
 - Traffic Simulation and 3D Visualization Modeling: Visualizing and analyzing transportation scenarios.
 - Passenger and Traffic Surveys: Gathering critical data for informed decision-making.



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RECENT PROJECTS AND KEY ACHIEVEMENTS

Ganga Expressway (UP) - IRB Infrastructure Developers, Mumbai

Greenfield project BOT (Toll) project covering a substantial 594 kilometers, our team conducted a comprehensive traffic and revenue study for the challenging Ganga Expressway.

Access-Controlled Design: Meticulous planning was employed for the expressway's access-controlled design, featuring entry-exit tolling at 21 strategically located points divided into four groups.

Precise Revenue Insights: Our study delivered precise revenue insights, empowering informed financial decisions and strategies for the successful implementation and operation of this critical infrastructure project. We supported this DBFOT project with both the pre-bid and post-bid stage.

Delhi-Ahmedabad High-Speed Rail (HSR) - NHRCL, Delhi

Transport Demand Modeling and Revenue Assessment for the Delhi-Ahmedabad High-Speed Rail line, considering the diversion from highway traffic, conventional rail traffic and air traffic.

Impact of the Mumbai - Ahmedabad HSR line on the proposed corridor. Our insights aided NHRCL in making informed decisions, including fare structure and operation planning of HSR up to 2060, and traffic due diligence study for PPP projects in highways.





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TRAFFIC DUE DILIGENCE STUDY FOR HIGHWAYS IN PPP MODE

Allahabad Bypass (NH-19) - Highways Infrastructure Trust, Mumbai

Our study supported Highways Infrastructure Trust in assessing the current and future traffic and revenue potential of this asset, considering the impact of new expressways and freight corridors proposed in the vicinity of this asset.

Hyderabad-Karimnagar-Ramagundam Road (SH-1) – Highways Infrastructure Trust, Mumbai

Our study assessed traffic and revenue potential of this asset which had sizable and traffic and had an impact of upcoming expressways.

Indore-Gujarat/MP border section of NH-47 – Highways Infrastructure Trust, Mumbai

Our study assessed the importance of this highway link from eastern part of India to the western part India. We comprehensively covered all the aspects of traffic revenue potential of this highway link.

Handia-Rajatalab section of NH-19 – Highways Infrastructure Trust, Mumbai

The highway is an important link of golden quadrilateral. We developed the traffic and revenue model for assessing the viability of this TOT project.

Pukhrayan-Ghatampur-Bindki Section (SH-46), UP - IRB Infrastructure Developers, Mumbai

Our comprehensive study provided valuable insights for traffic growth and revenue potential for informed decision-making on this DBFOT project.

Palanpur-Samakhiyali Section (NH-27) - Adani Road Transport Ltd, Ahmedabad

Meticulous traffic and revenue study for assessing the traffic revenue potential and impact of the Dedicated Freight Corridor (DFC) and Kandla and Mundra ports. We supported Adani Road Transport Limited for the pre-bid and post-bid stages of this TOT project.

Arang-Sambalpur section (Old NH-6) – Highways Infrastructure Trust, Mumbai

Our study assessed traffic and revenue potential of this Highway and analyzed impact of all aspects of traffic generation of this central India highway.

Panipat-Jalandhar Section (NH-44) - ROADIS, Gurugram

Critical insights from our study contributed to understanding the current and future traffic and revenue potential on this crucial highway connecting North India, while also studying the impacts of the Dedicated Freight Corridor (DFC) and various upcoming expressways.

Kishangarh-Beawar Section (Old NH-8) - ROADIS, Gurugram

Our study supported ROADIS, India, in understanding the current and future traffic and revenue potential of this project, which lies in the vicinity of the Dedicated Freight Corridor (DFC) and the proposed High-Speed Rail Corridor.





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Pune-Satara Section (Old NH-4) – Reliance Infra, Mumbai.

Our study contributed to understanding impediments and new traffic generation potential of this highway, aiming to assess the future traffic revenue potential.

Vijayapura (Bijapur)-Solapur Section (NH-52) - Louis Berger, Mumbai

Our study contributed to the traffic revenue potential of this vital highway infrastructure, aligning with Louis Berger Group's international expertise for a comprehensive assessment of this asset.

Ganga Path – Reliance Infra, Mumbai

The project involved urban-Integrated Design: Overcoming the unique challenge of seamlessly integrating highway and urban traffic of Patna Urban Area, our team conducted a comprehensive traffic and revenue study for the Ganga Path project.

Entry-Exit Tolling: Meticulous planning and analysis were employed for the project's entry-exit tolling system, ensuring accurate revenue projections, and assessing the interaction between highway and urban traffic.

Bihar's Corridor Development – AECOM, Gurugram and BSRDCL

Strategic Alignment: Our team played a pivotal role in assessing traffic dynamics and revenue potential for the strategic alignment of Bihar's North-South and East-West Corridors.

Operation Maintenance & Transfer (OMT) Project – BSRDCL & BRPNNL

For a multifaceted project involving multiple highways (SH-70, SH-71, SH-73, SH-74, SH-75 & SH-77 and Arwal Sahar bridge), our strategic guidance provided network modeling inputs for traffic movements in multiple Highways. We provided a full suite of consultancy services from Traffic due diligence to Financial Modeling, overseeing the entire bidding process.





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URBAN TRANSPORT PROJECTS

Kalyan Railway Station Precinct Area - Tractebel India, Gurgaon

Seamless Traffic Movement: Our precise master plan ensured the effortless flow of goods and passengers within the Kalyan Railway Station precinct area.

Innovative Inter-Modal Interchange: We introduced an innovative inter-modal interchange, optimizing connectivity between various transportation modes for smooth transitions.

Advanced Microsimulation and Visualization Techniques: Employing advanced micro-simulation and visualization, we provided stakeholders with a comprehensive view of our design, bringing the master plan to life.

Hyderabad Airport Link Metro – Aarvee Associates and HMRL, Hyderabad.

Robust Travel Demand Model: Leveraging our expertise, we developed a robust travel demand model crucial for forecasting passenger traffic, revenue, and demand patterns, guiding informed planning.

Sophisticated Mode Choice Model: Our team engineered a sophisticated mode choice model, facilitating the analysis of transportation options and optimizing modal choices for commuter.

Transport Modeling of DMIDC node (Dighi Industrial Area) - Egis India Consulting Private Limited

We did a comprehensive trip generation, distribution, mode choice and traffic assignment for both urban passenger traffic and freight traffic of this proposed new DMIDC node.



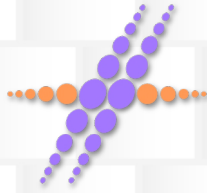
OTHER HIGH-SPEED AND SEMI-HIGH SPEED RAIL PROJECTS

Delhi-Mumbai High-Speed Rail Corridor - Lahmeyer International (India), Gurgaon

Our study included detailed Travel Demand Modeling, Traffic Forecasting, and Revenue Assessment, projecting trends up to 2050. Extensive Transportation Surveys at 24 locations on highways and nine airports and railway stations informed our comprehensive analysis.

Nagpur-Secunderabad Semi-High-Speed Rail - Aarvee Associates, Hyderabad

Contribution involved Transport Demand Modeling, Forecasting, and redistributing passenger and freight traffic among rail, road, and air modes. Our study facilitated informed decision-making for Aarvee Associates.



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Our Client's



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