



Consultants -Transport Systems & Electric Mobility

Location: Mumbai & Pune

The Organisation

The Institute for Transportation and Development Policy (ITDP) works with cities worldwide to promote transport solutions that reduce traffic congestion, air pollution, and greenhouse emissions while improving urban livability and economic opportunity. ITDP is a not-for-profit organisation headquartered in New York City with offices in China, Brazil, India, Indonesia, East Africa, Mexico, and the United States.

Since 2021, ITDP is represented in India by ITDP Pvt. Ltd. and has worked with governments, multilateral agencies, and civil society to make visible, on-the-ground improvements by providing technical expertise, policy solutions, research publications, and training programmes.

More information about ITDP India can be found at www.itdp.in.

About the Position

ITDP India is looking for an Consultant – Transport Systems & Electric Mobility, with the position based flexibly in Mumbai and Pune, to support its work on public transport planning, sustainable mobility, transport electrification, and EV charging infrastructure across Maharashtra and at the national level.

We are looking for two candidates for this one-year consultancy - one to be based in Mumbai and the other to be based in Pune. Basic proficiency in speaking Marathi is required for the role.

The Consultant will support ITDP India's city-level transport planning engagements across Pune, Pimpri-Chinchwad, Nashik, Nagpur, Mumbai and other cities in Maharashtra, while also contributing to state- and national-level electric mobility programmes.

The role will combine technical planning, data and GIS analysis, financial and economic assessment, research, policy support, government engagement, advocacy, and implementation assistance.

S/he will work closely with Urban Local Bodies (ULBs), State Transport Undertakings (STUs), transport departments, public transport authorities, metro and development agencies,

electricity-sector institutions, central government agencies, consultants, industry stakeholders, and other partners.

Roles and responsibilities

1. Public Transport Planning and Analysis

- Support technical assessments of existing public transport systems, bus networks, routes, operations, and services.
- Undertake route, network, fleet, service, and operational analysis to identify opportunities for improving public transport coverage, reliability, accessibility, efficiency, and service quality.
- Support preparation of public transport plans, city bus strategies, route rationalisation plans, service improvement plans, and implementation roadmaps.
- Analyse ridership, schedules, frequencies, fleet utilisation, route performance, operating kilometres, service levels, and other public transport indicators.
- Support assessments of public transport requirements including fleet gaps, service gaps, network expansion, and infrastructure needs.
- Undertake assessments related to integration between bus systems, metro, IPT, walking, cycling, and other modes.
- Support planning for bus priority measures, interchange facilities, terminals, depots, bus stops, and other public transport infrastructure.
- Support government agencies and public transport authorities in translating technical recommendations into implementable projects and programmes.

2. GIS and Data Analysis

- Undertake GIS-based analysis of public transport networks, population, employment, land use, accessibility, and service gaps.
- Map existing and proposed public transport routes and infrastructure.
- Undertake spatial accessibility assessments, including People Near Transit and similar public transport accessibility analyses.
- Support GIS-based assessments for identifying priority areas and locations for public transport and EV charging infrastructure.
- Collect, clean, process, and analyse transport, demographic, vehicle, spatial, operational, financial, and survey datasets.
- Develop maps, dashboards, graphics, and analytical outputs to communicate findings effectively.

3. Electric Mobility and E-Bus Planning

- Support city, state, and national programmes related to transport electrification and electric mobility.
- Undertake technical assessments for electric bus deployment and public transport electrification.
- Support analysis of e-bus routes, fleet requirements, vehicle utilisation, operational requirements, depot requirements, and charging strategies.
- Analyse existing bus operations and identify opportunities and requirements for transition to electric buses.
- Support development of e-bus transition strategies, implementation roadmaps, procurement frameworks, and operating models.
- Undertake analysis of Gross Cost Contracts, public procurement, leasing, and other models for deployment of electric buses.
- Support broader fleet-electrification assessments across relevant public and shared transport vehicle segments.
- Track technological, policy, financial, and institutional developments in electric mobility and assess their relevance to ITDP's work.

4. EV Charging Infrastructure

- Support planning and implementation of public EV charging infrastructure and charging infrastructure for electric public transport.
- Undertake charging demand and infrastructure-gap assessments.
- Analyse charger utilisation, vehicle requirements, land availability, power requirements, infrastructure availability, and future charging demand.
- Support identification and prioritisation of suitable locations for charging infrastructure through GIS and transport data analysis.
- Support planning of charging infrastructure at bus depots, terminals, public transport facilities, public parking areas, and other strategic locations.
- Assess charging technologies, deployment strategies, operating models, and institutional arrangements.
- Support development of city- and state-level charging infrastructure strategies, guidelines, implementation plans, and investment roadmaps.
- Coordinate with electricity distribution companies, charging point operators, STUs, transport departments, ULBs, land-owning agencies, and other relevant stakeholders.

5. Financial and Economic Assessment

- Undertake financial and economic analysis of public transport, electric mobility, and charging infrastructure interventions.

- Support Total Cost of Ownership and lifecycle-cost assessments for electric and conventional vehicle technologies.
- Analyse capital and operating costs, energy costs, financing requirements, revenues, subsidies, and other financial parameters.
- Support financial viability assessments for e-bus and charging infrastructure projects.
- Assess alternative procurement, financing, leasing, public-private partnership, and business models.
- Support analysis of fiscal incentives, funding mechanisms, subsidies, and other government interventions required to improve public transport and accelerate electrification.
- Translate financial and economic analysis into clear recommendations for government decision-makers.

6. Policy, Research, Reports and Publications

- Conduct research on public transport planning, bus operations, multimodal integration, electric mobility, e-buses, EV charging, transport electrification, financing, and sustainable mobility.
- Review national, state, and city-level policies, regulations, programmes, and institutional frameworks.
- Undertake policy and implementation gap assessments and develop evidence-based recommendations.
- Prepare high-quality technical reports, policy briefs, concept notes, guidelines, strategy documents, research publications, presentations, and technical documentation.
- Support preparation of Terms of Reference, feasibility assessments, technical specifications, and consultant briefs.
- Track national and international best practices and assess their applicability to the Indian context.
- Document lessons and best practices from ITDP's engagements and contribute to organisational publications and knowledge products.

7. Government Engagement and Advocacy

- Support ITDP's engagement with city governments, the Government of Maharashtra, STUs, ULBs, public transport authorities, metro and development agencies, electricity-sector institutions, and national government agencies.
- Participate in meetings and consultations with government officials and provide technical inputs on public transport and electric mobility planning and implementation.
- Present technical findings and recommendations in a clear, concise, and decision-oriented manner.

- Prepare briefing notes, presentations, technical notes, graphics, and advocacy materials for government stakeholders.
- Support advocacy for improved public transport, service delivery, transport electrification, charging infrastructure, financing mechanisms, and institutional reforms.
- Coordinate with consultants, operators, manufacturers, charging companies, financial institutions, research organisations, civil society organisations, and other stakeholders.
- Support stakeholder consultations, workshops, roundtables, and other engagement activities.

8. Project Coordination and Capacity Building

- Support development and implementation of project strategies, work plans, timelines, technical deliverables, and implementation frameworks.
- Independently undertake assigned technical workstreams and coordinate with internal and external teams.
- Coordinate data collection, field surveys, stakeholder consultations, and technical assessments.
- Coordinate with consultants and technical partners and review their analytical outputs.
- Track project activities and support timely completion of deliverables.
- Support workshops, training programmes, consultations, and capacity-building sessions for government officials and transport agencies.
- Work collaboratively with ITDP India's Transport Systems, Electric Mobility, Healthy Streets, Low Emission Zones, and Communications teams.

Qualification & Experience

- A Master's degree in Transport Planning, Transportation Engineering, Urban Transport Planning, or a closely related discipline, preferably an M.Plan or M.Tech specialising in transport/transportation planning.
- 1-2 years of relevant professional experience after completion of the master's degree.
- Experience or demonstrated academic/professional exposure to public transport planning, bus systems, electric mobility, electric buses, charging infrastructure, transport planning, or sustainable mobility.
- Understanding of public transport operations, route planning, service planning, fleet planning, and transport data analysis.
- Basic understanding of EV technologies, bus electrification, charging systems, infrastructure requirements, and implementation approaches.
- Experience or familiarity with financial and economic analysis of transport projects would be strongly preferred.

- Experience working with or supporting STUs, ULBs, public transport agencies, government departments, transport authorities, or other public-sector institutions would be strongly preferred.
- Strong analytical and quantitative skills.
- Strong written and spoken English.
- Basic proficiency in Marathi is mandatory, including the ability to communicate with government officials and local stakeholders.
- Strong report-writing, presentation, and visual communication skills.

Software and Technical Skills

- Microsoft Excel for data analysis and financial/quantitative assessments.
- GIS software such as QGIS or ArcGIS for spatial analysis and map preparation.
- AutoCAD.
- Microsoft PowerPoint and the ability to prepare high-quality technical and decision-oriented presentations.
- Microsoft Access or equivalent database/data-management tools.
- Knowledge of transport modelling software such as Emme or equivalent tools, data visualisation software, statistical packages, or programming languages would be an advantage
- Willingness to undertake fieldwork and travel frequently within Maharashtra and elsewhere in India as required.
- Commitment to advancing sustainable, equitable, accessible, and low-carbon transport.

How to apply

The interested candidates should submit two samples of their written work on sustainable mobility and resume to jobs.india@itdp.org and cc: adityarane.s@itdp.org, with the subject line “Consultant: TS & EM, MH” Our regular processing time is 3-5 weeks, and only shortlisted applicants will be contacted for an interview.

Remuneration

The consultancy fee for this scope of work is Rs. 50,000 – 60,000 per month. Fee shall be commensurate with experience and skills.