



AMRUT Centre of Urban Planning  
for Capacity Building  
**A-CUPCB-SPAV**



AMRUT CENTRE OF URBAN PLANNING FOR CAPACITY BUILDING SPA VIJAYAWADA

Targeted Urban Research

## **OPERATIONAL PLAN FOR VIP VEHICULAR MOVEMENT IN VIJAYAWADA**

### **1. PROJECT OVERVIEW**

The need for a short-term traffic management plan for VIP vehicular movement in capital cities arises from the unique challenges of ensuring efficient mobility and security for VIPs. Capital cities worldwide serve as focal points for political, economic, and cultural activities, necessitating effective traffic management strategies to maintain operational continuity and public safety amidst VIP vehicular movements. VIP vehicular movements often disrupt regular traffic flow due to security protocols and the need for fast, uninterrupted commutes. This disruption affects daily commuters traveling along these routes. Consequently, there is a critical need to devise short-term traffic management plans that balance VIP security imperatives with minimizing disruptions to daily commuters and ensuring road safety, thereby maximizing the use of existing road facilities and expanding current road capacities.

Effective traffic management plans for VIP movements typically involve temporary road closures, designated VIP routes with heightened security measures, and coordinated communication strategies to inform the public about alternate routes and potential delays. Additionally, implementing technology-driven solutions can also optimize traffic flow and mitigate congestion during VIP movements. This optimization is crucial for maintaining order, safety, and accessibility in urban areas.

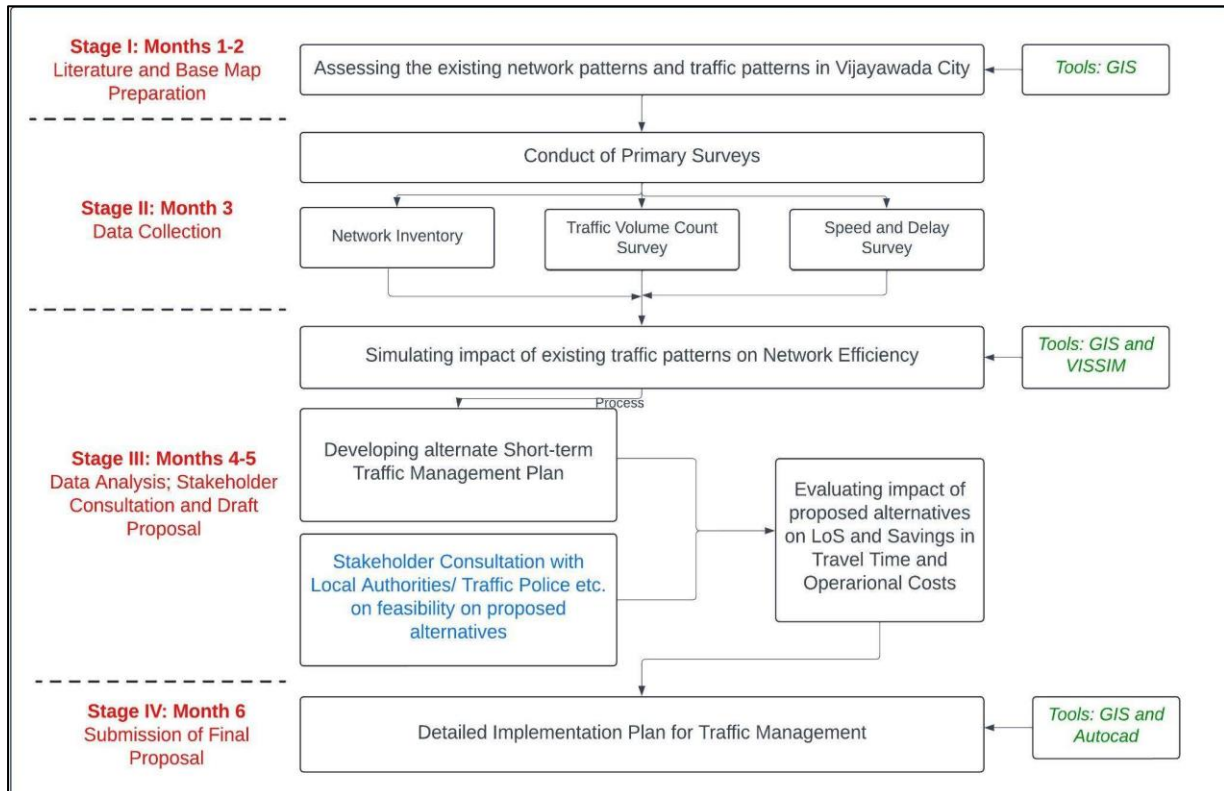
Therefore, there is a crucial need to develop a short-term traffic management plan for Vijayawada, specifically linking Gannavaram Airport with Amravati and major administrative offices in the city. Currently, these areas have good connectivity via primary roads but experience heavy traffic, resulting in significant delays for VIP vehicles and disrupting daily commuter traffic.

Developing an operational plan during VIP movements will ensure that both daily commuters and VIP vehicles benefit from smoother traffic flow and improved transportation efficiency in the city.

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## 2. Project Methodology and Milestones

*(Timeline: December 2024 to September 2024)*



## 3. Study Area

The short-term traffic management plan will focus on Vijayawada's primary networks, crucially linking Gannavaram Airport with Amravati and major administrative offices. These routes experience heavy traffic, causing significant delays for VIP vehicles and disrupting daily commuter traffic. Developing a traffic management plan and ensuring awareness among commuters can optimize journey planning, enhance travel reliability, and mitigate congestion issues. By implementing targeted measures and informing the public proactively, both daily commuters and VIP vehicles will benefit from smoother traffic flow and improved overall transportation efficiency in the city.

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#### 4. Tools & Techniques

Software and Statistical Tools and Techniques to be used include, (but not limited to) are as follows:

- **VISSUM:** This software will be employed to simulate traffic conditions and assess the impact of various transportation strategies.
- **SPSS, AMOS, or XLSTAT:** These tools will be used for conducting advanced statistical analysis.
- **QGIS or ArcGIS:** This tool will be utilized for spatial mapping and spatial analysis.

#### 5. Deliverables and Outcomes:

- Develop a comprehensive TMP that outlines how traffic will be managed during the VIP movement, considering factors such as road closures, diversions, and alternative routes and ensure coordination with local law enforcement.
- Modeling and quantifying benefits of feasible strategies such as optimized traffic signals timings, lane configurations, and parking restrictions, rerouting, temporary road closures, or adjusting traffic patterns on the overall efficiency of vehicular movement on the primary routes.
- Specify the roles and responsibilities of traffic controllers and relevant personnel.
- Knowledge dissemination on preparation of Short-Term Traffic Management Plan.

#### Project Team:

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