

2. समृद्ध AGRA

2.1 PFR PROJECT- 10: CITY LOGISTIC HUB: ESTABLISHMENT OF CITY LOGISTIC HUB FOR EFFICIENT DISTRIBUTION OF INTER & INTRA URBAN FREIGHT AT AGRA

1.1.1. Background

The City logistic hub is highly specialized designed facility for a specific function and operating plan in terms of service standards it must meet, the area it serves and the volumes to be handled. It provides interface between

intercity and local transportation facilities and which handle the distribution and collection of goods within the city. The primary objective is to setup a logistic hub with modern facilities, which would be comprises of modern warehouse for storing goods, loading & unloading, weigh bridges (50 T & 100 T capacity), rest rooms, petrol pumps, firefighting system, solid waste management system, power supply & electrification, boundary wall, storm water system. The multimodal logistics hub will be an infrastructure that will have a positive impact on the efficiency of the supply chain of various industrial products and will also facilitate commercial wholesale markets.

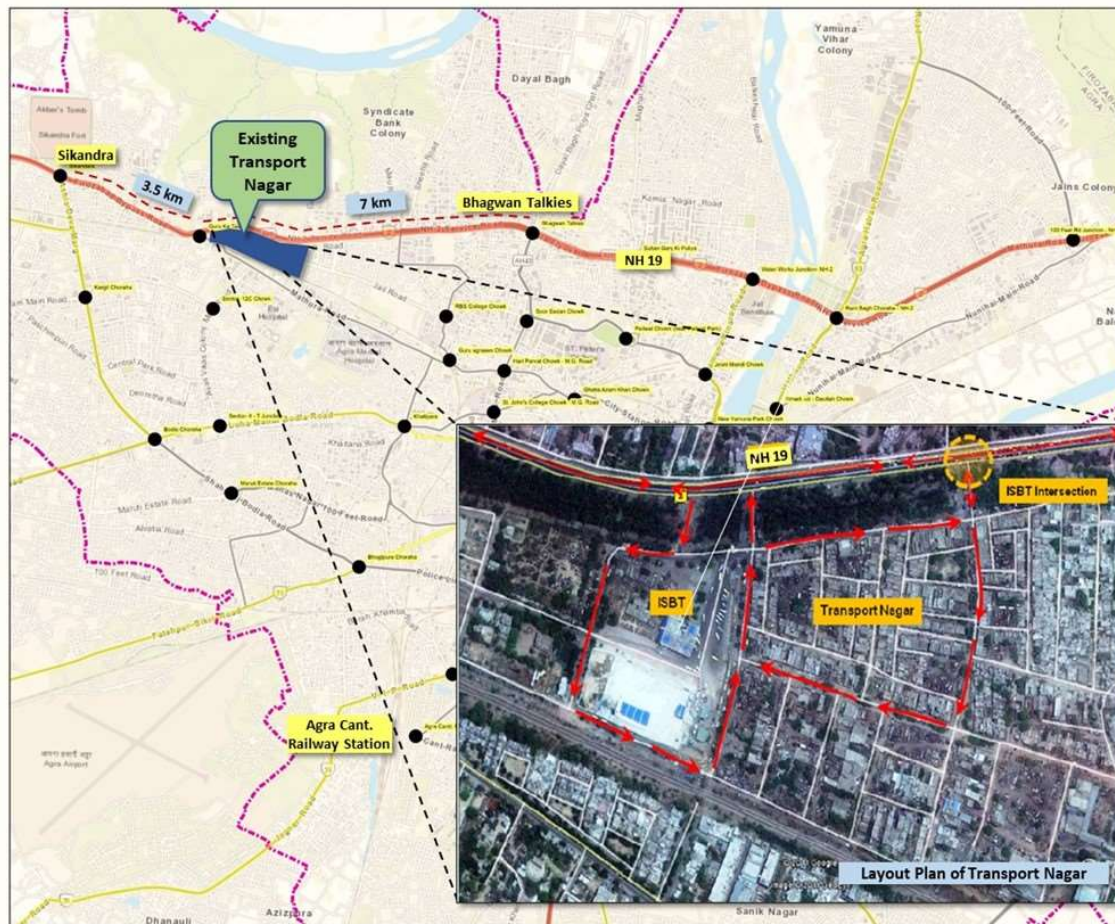


Figure 2-1 Location map of Transport Nagar, near Sikandra at Agra

1.1.2. Objectives

- To reduce parking, loading/unloading instances in CBD (Central Business District) area
- To provide more facilities to the operators like vehicle repairs, servicing, rest places, shops etc.
- To reorganise office and go-down space of transport companies
- To cater to intercity movements destined to operator’s godown and provide for idle parking for trucks waiting for return load.

1.1.3. Existing Situation Analysis at Transport Nagar, near Sikandra

- **Existing Transport facility available at:** Transport Nagar, along NH 19

- **Located in an area:** 150 acres (approx.)
- **Connectivity:** NH 19
- **No of Plots:** 2414 plots
- **Truck Entry restriction in Agra city:** 5 AM to 11 PM
- **Existing Transport Terminals/Nagar:** 59.56 (Hectares)
- **Current handling capacity:** Number of trucks Parking Demand at Transport Nagar (Truck Garage 1 &2): 306+263 = 569 ECS
- **Trucks unload cargo at these terminals:** Yes, trucks unload at Transport Nagar majorly leather items, parcels, mechanical spare parts, household goods. (*Operators survey)
- 2-axle: 20-25 tonnes
- 3-axle: 25-30 tonnes
- MAV: 35- 45 tonnes
- **Unloaded goods carried into the city using smaller trucks:** Yes, Mini-LCV, tata magic will distribute within the Agra city (*Operator Survey)





Figure 2-2 On-street parking of the commercial vehicles at Transport Nagar

1.1.4. Issues at Transport Nagar

- Presence of Inter-State Bus Terminal at Transport Nagar
- On-street parking of the commercial vehicles
- Auto & 2-wheeler parking at ISBT
- Night time safety issue between fast/slow moving vehicles

- Average journey speed in city: 21-30 km/hr
- Yearly 3% of Commercial vehicles registered in Agra
- Nearly 6220 PCUs are observed at peak hour traffic along the NH 19.

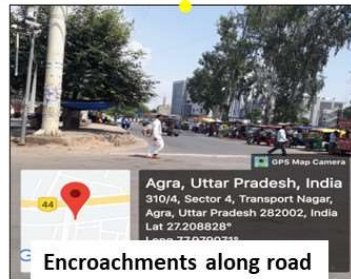


Figure 2-3 Existing Issues at Transport Nagar

1.1.5. SWOT Analysis

Strength

- Location near to National Highway – Location being in proximity to major Highway leads in easy accessibility to the project. This will enhance the feasibility of

- the project as the facility can be easily located by in-transit vehicles also.
- Land Availability – The land available for the site is sufficient enough to cater all the facilities and requirement of a Trucking Hub.

Weakness

- Divided Land Parcel – Land available for the project is divided on either side of the road connecting the highway. Suitable measures shall be taken in planning of the project but will allow cross movements of trucks.
- Presence of Electric Lines – Existing 33 KVHT and 11 KV power lines are passing from the site. Suitable provisions have to be taken for avoiding any conflict between building and power lines.

Opportunity

- Economic Benefit – Major opportunity with such type of facility is to give thrust to local economy by providing ease in transshipment activity ultimately boosting the overall performance of the truckers.

- Promote Investment – These type of facility helps in promoting the investment from other potential investors.
- Low Maintenance of Road Network – Development of such type of facility results in Low investment in road infrastructure and low accidents as mostly the heavy onside truck parking promotes damage in roads and creates probability for accidents.

Threat

- Capacity Building of Existing facilities – Major threat to this facility prevails if nearby existing facilities enhances their parking facilities or promotes to create their parking facility.
- Development of similar Facility – With the increase demand of industries and storage facilities there is possibility for demand of development of similar facility in hinterland.

1.1.6. Market Analysis for Integrated Logistics Hub



<ul style="list-style-type: none"> • Location: Hyderabad, Telangana • Area: 40 acres • Connectivity: Outer Ring Road • Total Parking facility for trucks: 500 trucks • Cold Storage: 10,000 metric tones • Additional Facility: Warehousing, automobile, service centres, fuel stations, provision of cold storage, public health centre, dormitories and restaurants. 	<ul style="list-style-type: none"> • Location: Sukurhuttu, Ranchi, Jharkhand • Area: 40 acres • Connectivity: Ring Road • Parking Facility: 424 trucks • Integrated Building: 180 dormitories • Additional Facility: Two warehouses, fuel station, recreational space, food court, retail shops, health care facilities, pharmacy, toilets, police check post.
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<ul style="list-style-type: none"> • Employment: 800 to 1000 people • Mode of Development: PPP mode • Cost: 40 crores (approx.) 	<ul style="list-style-type: none"> • Construction cost: 113.24 crores
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1.1.7. Proposed Location for Logistics Hub in Agra

Proposed Location

Sl. No.	Proposed Location	National Highway Connectivity	Nearest Railway Station	Distance from Agra
1	Raibha	Inner Ring Road	Near Raibha Railway Station	21 km
2	Bhandai	Inner Ring Road	Near Bhandai Jn Railway Station	16 km
3	Poiya	NH 509	Near Yamuna Expressway	13 km

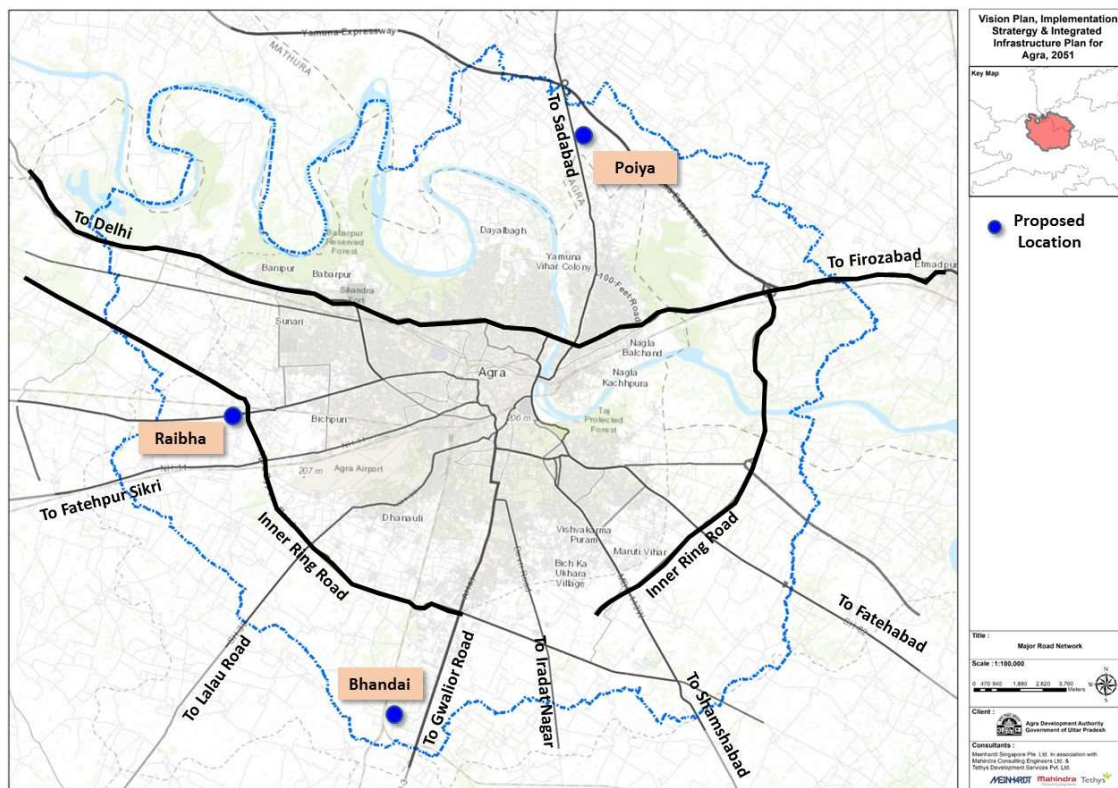


Figure 2-4 Location map of proposed Logistic Hub

1.1.8. Features at City Logistics Park

- **Advantage:** Connectivity with nearest Railway station and NH 19
- **Area required:** 30 to 40 acres
- **Parking space:** 500 to 1000 Trucks parking space
- **Additional parking space:** 50 - Car & 100 two-wheeler parking
- **Warehouse & Cold Storage:** 5000 MT
- **Other Infrastructure:** Warehouse for Storing goods, Loading and unloading, weighbridges (50 T & 100 T Capacity), rest rooms and Petrol Pumps.
- **Mode of Selection/setup:** PPP basis
- **Estimated Cost:** 250 to 300 Cr (Approx.)
- **Functioning of Truck Hub:** Parking lot, Warehousing and support facilities, Storage Location, commercial Complex, Boundary Wall, Road Network, Water

Supply & Distribution system, Storm Water Drain system, Sewerage system, Power Supply & Electrification, Firefighting system, Solid Waste management system, Landscaping, Social Infrastructure (Restaurant, Public Convenience), Bank, Transport Agencies, Circulation, Toilets, Administrative Office, Fire Station, Dispensary, Electric Sub-station, Spare Parts shop.

1.1.9. Truck Terminal Parking

- **Parking Space requirement for Truck:** 55-60 sqm.
- **Truck parking Size:** 7.1 m x 2.6 m
- **Equivalent Car Space (Truck):** 2.50

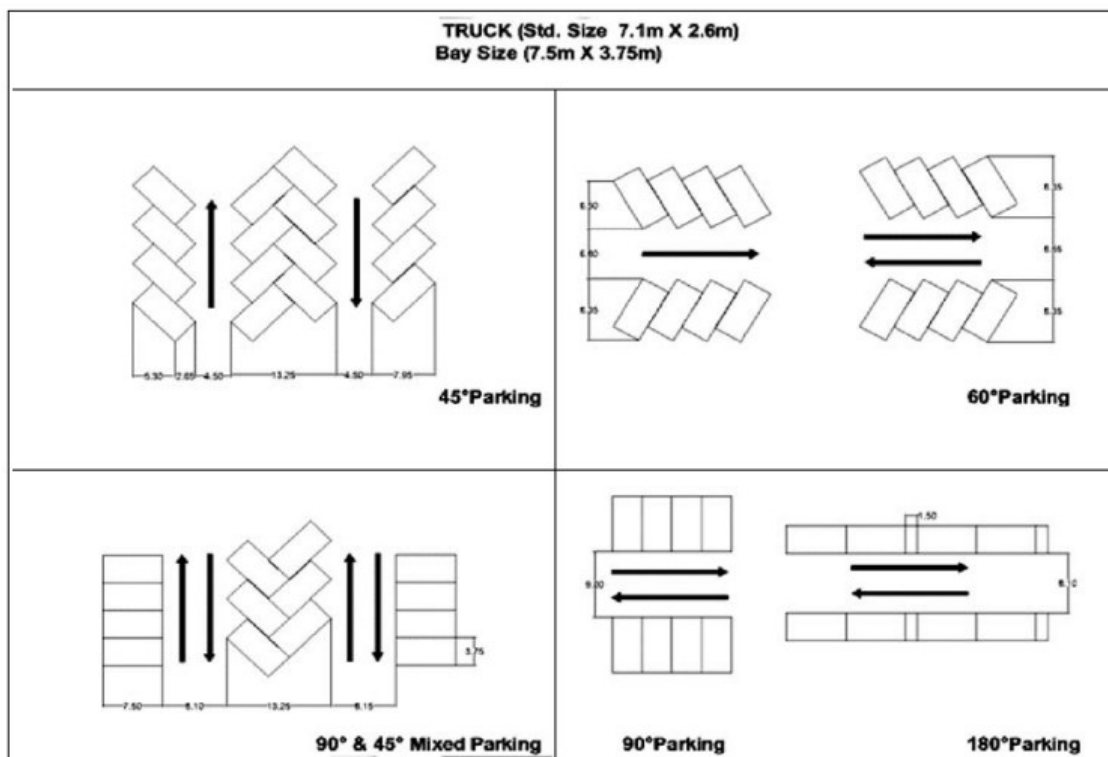


Figure 2-5 Parking Layout Design for Trucks

1.1.10. Approach and Methodology for Assessing Demand

Estimating Demand for the proposed project comprises assessing movement of trucks in the city

- Studying the key industries and truck movement
- Assessment of similar and upcoming facilities
- Assessing truck movement routes and nearness of the proposed trucking hub
- SWOT Analysis of site-Assessing condition

1.1.11. Gap Assessment

- **Type of Industries in Agra:** Leather footwear, Engineer Goods, Spare parts, Food Products, Medical Goods, Diesel Engine & Generators, Wooden Products, Paper printing
- **Area of Transport Nagar:** 150 acres
- **Parking Demand at Transport Nagar (Truck Garage 1 &2):** 306+263 = 569 ECS
- **Truck parking Size:** 7.1 m x 2.6 m
- **Proposed City Logistic Hub:** 30 to 40 acres

- **Proposed Idle Parking provision at each location for city Logistic Hub as per URDPFI Guidelines: 29138 sqm**

1.1.12. Projected Traffic and Parking Area Requirements

Table 2-1 Projected Traffic and Parking Area Requirements till 2051

Particulars	2022	2031	2041	2051
Parking Demand at Transport Nagar (ECS)	1,360	5,812	29,169	1,46,329
Area requires for Truck Parking at Logistic Hub (sqm)	28,560	1,22,052	6,12,549	30,72,909

Source: Consultant's Analysis

1.1.13. Scope of Services

For the above deliverables the following tasks has to be undertaken;

- Conducting Feasibility of the Project
- Compiling traffic surveys studies from (CMP/Other transport reports)
- Preparation of Pre-feasibility study
- Preliminary cost estimates for the project

1.1.14. List of Stakeholders

- ADA,
- AMC,
- PWD,
- NHAI,
- UPSWC

1.1.15. Financial Analysis

- Estimated Cost: 150 to 200 Cr/location
- Mode of Selection: PPP Basis

1.1.16. Project Time-line

The proposed city logistic hub at Agra city with construction time: 3-4 years

