Improvement in circulating area of Amritsar station and its integration with BRTS station for better pedestrian access

## **LUTP-6 Programme**

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## Background

- Amritsar
  - an important city of North India
  - a place of extreme pilgrimage and tourist importance
  - Golden temple, Durgiana temple, Wagha border, Jaliawalan Bagh, Ram Tirath temple
- Area **139** sq. km
- Population = **1.241 mn** (2016 estimates)
- Population growth 1.55% per annum
- Total road length 525 km

## Background

- A-1 category station : annual earnings 228 crores
- 116 trains per day
- Per day footfall at station : 55,000
- Per day tourist arrival in city : 1,50,269
- Share > Road : Rail : Air ??



## **Mode distribution of passengers**



### **Review of existing literature**

- Data of Ferozepur Division, Northern railway; 2017
- "District Census 2011"; Censusindia.gov.in
- Comprehensive mobility plan for various cities of Punjab: Amritsar; Punjab Municipal Infrastructure Development Company; 2012
- *Survey on Tourism Statistics in Punjab* Ministry of Tourism, 2010
- Guidelines For The Design And Construction Of Railroad Overpasses And Underpasses. ftp://ftp.dot.state.tx.us/pub/txdot-info/brg/kcsr\_guidelines.pdf
- Manual For Standards And Specifications For Railway Stations; Ministry of Railways.
- Indian Railway Works Manual; Ministry of Railways

## **Study area appreciation**

- Car parking- 1039 sq. m. (52 cars)
  2-wheeler parking- 2240 sq. m.
- 2 parking lanes
- 2 drop & go lanes
- Entry road width : **6.3 m 9.5 m**
- Exit road width : 7.2 m 9.1 m

**Conflicting exits** 





### Approach and Methodology

- Approach
  - Detailed analysis of existing circulation plan of Amritsar station
  - Analysis of pedestrian movement (existing)
  - Analysis of pedestrian movement through BRTS
  - No. and types of vehicles plying at Amritsar station
  - Existing parking set-up
  - Conflicts

#### Data Collected

- Demographic data
- Tourist inflow in Amritsar city
- Footfall at Amritsar station
- No. of vehicles as per their type
- No. of trains and no. of coaches of different class
- No. of pedestrians
- Data of mode distribution

#### **Conceptual proposal**

- To suggest a **low cost** immediate solution
- To **integrate** the circulating area with BRTS station
- To propose **better placed signages**
- To reduce conflicting movement
- To suggest long term integrated solution with BRTS to PF and vice versa smooth movement

## Requirements

- Redesigning entire circulating area
- Strategically placed parking lots
- Ease of accessibility for senior citizens and women
- Synergistic vehicular movement vis-à-vis pedestrians
- Segregation of paid and unpaid passengers

#### **Immediate solution**



#### Long Term Solution

**BRTS** station

Railway Rd

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Proposed overpasses

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Amritsar Jn

## Way forward

- Study of BRTS traffic projection
- Impact of commencement of movement through **Bhandari bridge**.
- Who's requirement is this ?
- Project cost....??
- Funding ????
- Municipal Corporation or railways ???

# Thank You