

21. MULTI-LEVEL CAR PARKING – UDAIPUR

“Smart and resilient infrastructure”

– Vision of Udaipur, as expressed its Smart City Proposal (SCP)

CONTEXT

Udaipur is a major city in Rajasthan, which is rapidly urbanizing, with about half a million population and a decadal growth rate of 16%.

As cities in India are growing, there has been a large increase in vehicular traffic, especially cars. Most cities have inadequate parking facility for the increased number of cars. This leads to on-street parking, which narrows the transit space for vehicles and significantly contributes to traffic congestion/jams.

Parking of vehicles on the street is commonplace in Udaipur – the situation is particularly pronounced in marketplaces, commercial and office areas in the city. This has made travel through these areas difficult with slow movement of traffic, long travel time and significant vehicular pollution.

THE INTERVENTION

Project description

For providing well managed, off-street parking, five car-parking facilities have been planned for Udaipur. The facility at Municipal Corporation office precinct has been the first to be developed, with other planned car parking at various stages of implementation.

The car-parking at Municipal Corporation office precinct has been constructed using RCC framed structure. It provides two level parking space for cars and two-wheelers.

The key smart features of the multi-level car parking are:

- Variable Message Sign (VMS) display of available parking at the nearest road junctions
- Display of available parking spots at the entrance of the parking facility
- Sensors and guidance to vehicles for available parking spot

- Bicycle and walking facility integrated with bus shelter; integration with public transport facilities

Key outputs/ outcomes

The parking facility at Municipal Corporation office precinct provides:

- A dedicated and safe parking facility for cars and two-wheeler vehicles with 84 and 96 spaces respectively
- Easy locating of parking space and vehicle parking
- Option for commuters to use public transport, enabled through linkage with the public transport system

Impacts

The parking facilities in Udaipur is likely to help in restricting on-street vehicle parking. This should ease the traffic flow in key city areas, with reduction in travel time and lesser pollution on the streets.

Support and mobilized resources

The project/ initiatives are being financed through Smart City Mission (SCM) funds.



Parking facility for cars and two-wheelers in Udaipur