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## **ON-STREET PARKING PROBLEMS IN CBD AREA & REMEDIEL MEASURES-A CASE STUDY OF GODHRA CITY**

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### **ABSTRACT**

*The unprecedented growth of vehicles has increased parking space demand into cities. It has a considerable effect on transportation development in the city. The availability of less space in urban areas has rising demand for parking space principally in central business district. Ill-effects of insufficient parking space in cities are many. Godhra is a well-known city of Panchmahal district in Gujarat which has a population of 1.62 lakh (2011). As the traffic on the existing road system in the Godhra city increases, congestion becomes serious problem. Thus, parking surveys have been carried out for collecting data about parking availability and requirement and its effect on present scenario. Fixed period sampling survey method is used for parking demand and Parking space inventory survey is carried out for parking supply at the study area. Analysis shows that peak demand and parking index are almost 1.5 times more of demand than supply and it is alarming stage for parking problem. Requirement of parking has been fulfilled by designing off-street parking facility for on street parking user so that they can park their vehicle safely and it is more helpful to transportation system by increasing utilization of carriage way width. Design of Multi level parking space has been done according to demand and supply available by using ParkCAD(5.0) and as per the SP-12(2015)Guidelines for parking facilities in urban area. Results help in reducing the congestion of on-street parking and diverge the demand to off-street parking.*

**Keyword:** On-street parking, Off-street parking, ParkCAD, Parking Demand, Parking supply

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