

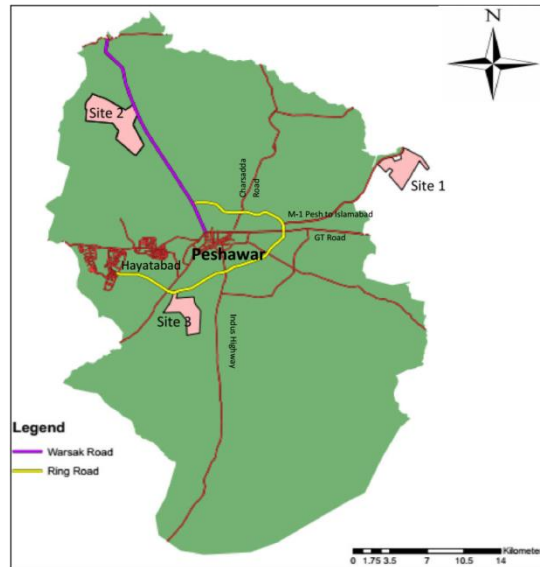
## **Post-CPEC Infrastructure requirements of Peshawar**

### **A case study of Residential areas**

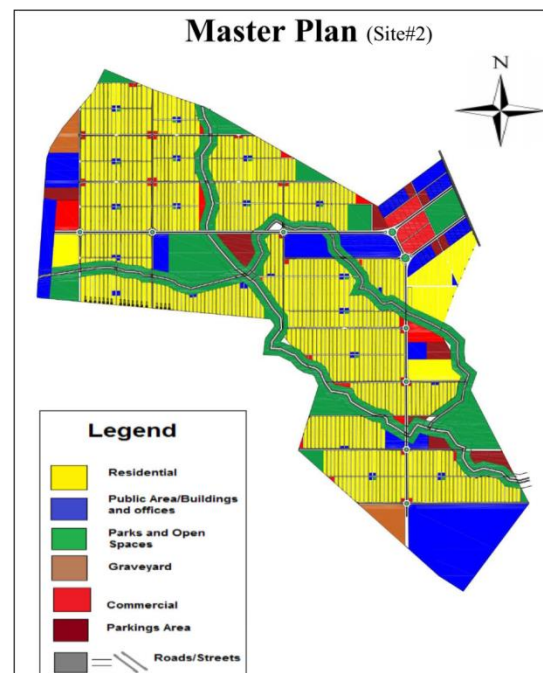
This research study addresses the problem of housing in the Peshawar district and provides guidelines for modern designed cities. The major residential areas of Peshawar which are well designed and can only fulfill demands of natural population growth rate. Whereas the housing demand will increase in future due to CPEC and related economic activities in Peshawar (defined as an economic node of CPEC by concern authorities).

The study was conducted to determine the population increase due to CPEC and Residential infrastructure demand for CPEC generated population. So, to fulfill the requirements of housing in Peshawar due to CPEC growth rate (considered as 0.05% annually and along with natural population growth rate it will become 2.75% annually). For this purpose, different locations were selected in Peshawar district (Fig.1) and were studied by comparing with ideal conditions and specification provided by National Reference Manual on Planning and Infrastructure of Pakistan. By visiting the concerned sites, elevations and other major features were observed and considered for designing infrastructure (Roads and Sewers). Master plan for site#2 (Fig.2) is illustrating land

use distribution according to National reference manual on Planning and Infrastructure. The roads were designed according to the design manual specified criteria and Combine Sewer system is designed for peak discharge for the concerned area.



**Figure 1 Feasible locations in Peshawar**



**Figure 2 Master Plan for Site#2**