

## ABSTRACT

Pakistan is a developing country with a high population growth every year. Therefore, increase in population arises the issue of accommodating the people. Low cost and affordable housing isn't a new concept in Pakistan, but it hasn't been much successful either. Also the increasing energy crisis in Pakistan call for some immediate measures to be taken in the new housing schemes.

Recently an initiative has been undertaken by Prime Minister of Pakistan, Mr Imran Khan, by the name of 'Naya Pakistan Housing Scheme'. Based on this scheme, our project focuses on the provision of low cost and affordable housing to the middle and lower income groups. An extensive research work was done in this context in different regions of the world as well as the previously undertaken schemes in Pakistan. Machar Colony is one of the biggest irregularised area of Karachi and its condition is deteriorating with each passing day. Machar Colony was selected as the study area, from population statistics of family and population, 3 housing categories were developed for the residents, which are 60 sq.yds, 80 sq.yds and 120 sq.yds, for 25%, 40% and 35% of the population respectively. All the categories have G+3 floors with 4 units on each floor except for 120 sq.yds which has 2 units on each floor.

The design of each house is based on the use of locally available materials so as to reduce material cost. Also, we have used the pre-fab technology for the construction which not only reduces construction time but also reduces the long run conventional cost. It was concluded that the findings of this report would provide quite useful references in regard of low cost and affordable housing.