ABSTRACT
This dissertation is an experimental research based on the problems of local potters. The research aims to provide correct and resolved knowledge from the existing practices to the local potters. The understanding of what type of kiln to use that would suit the climatic conditions of the region and a fuel that is sufficient and can help them cut down on their high cost of production and giving better firing results, minimizing the damage to the environment and their health. This document will start with analysis of different kinds of kilns used commonly by the local potters all over Pakistan and specially Sind, in the light of the analysis the decision of which type of kiln is most suitable for Karachi will be constructed at the
Kumbharwara. Then the research will move on to the different raw materials that can be used as fuel which are maximum eco-friendly, easily available to the potters and are most efficient. The materials used as fuel will be tested in a kiln that is built at the kumbharwara. Few alterations and firing techniques will be experimented so that better results can be achieved with low fuel consumption. There is some literature available on the different kinds of kilns used in Pakistan, but the main research and conclusion is on the basis of the experiments done at the kumbharwara which will determine the most efficient fuel for the local potters of Karachi that can minimize their cost of production and improve the quality of finished products.