ABSTRACT

This project involves an experimental study on the behaviour of eco-friendly brick through mix of waste organic and in-organic material and clay soil. Waste organic and in organic materials are the wastes obtained from industry can be used in the manufacturing brick which leads to an economic building material. Thus, organic and in-organic wastes was incorporated as a replacement of clay soil in bricks. The physical properties of each material were tested and recorded in the project. The mix ratio between waste organic and in-organic materials and clay soil was varied as 0%, 5%, 10%, 15% and 20%. The performance of incorporating organic and in-organic materials into the mix was tested by evaluating properties such as compressive strength, water absorption, efflorescence, soundness and hardness of bricks as recommended by the relevant Indian standard codes. Result obtained in this study will be helpful to brick industry for commercial production of organic and in-organic wastes incorporated bricks leading to sustainable use of resources.