

Plastic Fibre Reinforced Soil Blocks as a Sustainable Building Material

C. K. Subramania Prasad¹, E. K. Kunhamadan Nambiar², Benny Mathews Abraham³

^{1,2}School of Engineering, CUSAT, Kochi, India, ³N S S College of Engineering, Palakkad, India, ekk.nambiar@yahoo.com

ABSTRACT

Solid waste management, especially the huge quantity of waste plastics, is one of the major environmental concerns nowadays. Their employability in block making in the form of fibres, as one of the methods of waste management, can be investigated through a fundamental research. This paper highlights the salient observations from a systematic investigation on the effect of embedded fibre from plastic waste on the performance of stabilized mud blocks. Stabilization of the soil was done by adding cement, lime and their combination. Plastic fibre in chopped form from carry bags and mineral water bottles were added (0.1% & 0.2% by weight of soil) as reinforcement. The blocks were tested for density, and compressive strength, and observed failure patterns were analysed. Blocks with 0.1% of plastic fibres showed an increase in strength of about 3 to 10%. From the observations of failure pattern it can be concluded that benefits of fibre reinforcement includes both improved ductility in comparison with non blocks and inhibition of crack propagation after its initial formation.

Keywords: Sustainable building materials, plastic fibres, stabilized blocks, density, compressive strength

1 INTRODUCTION

Earth as mud bricks has been used in the construction of shelters for thousands of years. Approximately 30% of the world's population still lives in earthen structures [1]. Compressed soil masonry blocks formed using moist soil compacted mechanically to improve physical characteristics have gained popularity recently. Benefits of earth in this manner include improved strength and durability as compared to adobe while maintaining significantly low embodied energy levels than alternative materials. However problems arise from the materials low tensile strength, brittle behaviour and deterioration in the presence of water [2]. Stabilization by a hydraulic binder such as cement or lime or a combination of the two can significantly improve water resistance and strength to some extent [3], [4], [5], [6]. Also natural fibres have been used in adobe and other traditional forms of earthen construction for many thousands of years to reduce shrinkage cracking, to improve tensile strength, durability and ductility in tension [1], [2], [7], [8], [9], [10], [11], [12], [13]. Apart from that baking of composite bricks with natural fibres and grain leaves a porous structure which consequently enhances thermal and acoustical insulation of the finished products [10], [12]. Theoretical models were also developed on composite soil blocks reinforced with fibres subjected to shear [8]. In almost all of the above studies the fibres used are sisal fibres, coconut fibres, vegetable fibres, straw, palm fibre.

Solid waste management, especially the huge quantity of waste plastics, is one of the major environmental concerns nowadays. Their employability in block making in the form of fibres (plastic fibre- mud blocks), as one of the methods of waste management, can be investigated through a fundamental research. Also, as mentioned above, the review of the existing literature shows that most studies on natural fibres are focussed on cellulose based/ vegetable fibres obtained from renewable plant resources except in one case - animal fibre [13], and in another case - plastic fibre and polystyrene fabric

[9].

In this context, for the plastic fibre-mud blocks to be more widely applicable a systematic quantification of the relevant physical and mechanical properties is crucial; to enable an objective evaluation of the composite material's response to actual field condition. This paper highlights the salient observations from the preliminary investigation of a systematic study on the effect of embedded fibre made of plastic waste on the performance of stabilized mud blocks.

2 MATERIALS AND METHODS

For the soil collected for block making, standard soil classification tests were carried out and a summary of the test results are as follows: (i) Sand = 52.0%; (ii) Silt = 43.5%; (iii) Clay = 4.5%; (iv) Specific gravity = 2.68; (v) OMC = 18%; (vi) Dry density = 1.84 g/cc. The grain size distribution of the soil sample is shown in Fig. 1. Stabilization of the soil was done by adding cement, lime and their combination. The quantity of cement and lime added was 8% & 10%, and 2% & 4% by weight of soil respectively after many trials. Similar observations regarding the quantity of stabiliser (2.5% of cement and 2% lime) were made by Jagadeesh, 2007 [6]. It actually depends on the type of soil [14]. Combinations of these stabilisers were also tried. Plastic fibre of length 20 mm, chopped form carry bags (aspect ratio = 125) and mineral water bottles (aspect ratio = 84) were also added (0.1% & 0.2% by weight of soil) during block making (Fig. 2). The mixture composition is shown in Table 1. Blocks of size 300mm x 140mm x 100mm were made by pressing the prepared soil at OMC using ASTRA block making machine developed in IISc, Bangalore (Fig. 3). The blocks were cured by gently sprinkling water on straw and gunny bag which are used to cover the stack of blocks for curing. The blocks were tested for compressive strength after 3, 7, and 28

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