Abstract

This paper reviews the possible use of agricultural wastes as aggregate in the concrete industry. Large volumes of natural resources and raw materials are being used for concrete
production around the world in laboratory. To reduce or minimize the undesirable environmental effect of the concrete industry and promote environmental sustainability of the industry, the use of wastes from industry as materials for concrete construction is considered as an alternative solution for preventing the excessive usage of raw materials. It aims to support the notion of using these wastes by explaining their engineering properties. This review of existing knowledge about the successful use of agricultural wastes in the concrete industry helps to identify other existing waste products for use in concrete manufacturing. Recycling of such wastes and using them in construction materials appears to be feasible solution not only to the pollution problem but also an economical option in construction. In this constructed environment, the intensifying cost of building construction materials is the factor of immense concern. In this paper, the use of coconut shell as a coarse aggregate has been discussed based on the results obtained from wide-ranging review of literature. The coconut shell is a material which can be a replacement of aggregates. The intention of this paper is to increase knowledge about the use of coconut shell as a construction material in civil engineering.

References

- Siti Aminah Binti Tukiman and Sabarudin Bin Mohd &quot;Investigate the combination of coconut shell and grained palm kernel to replace aggregate in concrete: A technical review&quot; National Conference on Postgraduate Research

Index Terms

Computer Science

Applied Sciences
Keywords
Agricultural Waste  Coconut Shell  Design Mix Concrete  Etc.