**MECHANICAL CHARACTERIZATION OF WASTE-RUBBER MODIFIED RECYCLED AGGREGATE CONCRETE.**

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A literature survey was carried out in order to study the characteristics of waste-rubber-modified recycled-aggregate concrete (RMRAC) intended for road construction was produced by adding granulated waste rubber to recycled-aggregate concrete (RAC). A suitable approach for this situation is using waste crumb rubber obtained from airport runways and waste tyres as required materials for modification of recycled aggregate concrete. Crumb rubber is considered as waste with sustainability binding characteristic which can be used as a material instead of some conventional material for road or pavement construction.

This paper intends to investigate the application of crumb rubber as modified concrete in road or pavement construction and that how it can lead to sustainable development. It also mentions new technique for extracting fine crumb rubber from airport runways and some positive points of this material.

This report consists of characterization of waste rubber modified recycled aggregate concrete which can be used in pavement construction which has good enhanced strain rate and impact resisting properties than recycled aggregate concrete resulted from its mechanical characterization by split-Hopkinson pressure bar (SHPB) and other different test procedures.