

An Innovative Method of Voided Reinforced Concrete One-Way Slabs
Using Bundled Waste PET Bottled Tubes

Majid S Mohammed, Mohammed L Ahmed, Ziadoon M Ali, **Akram S
Mahmoud**

Abstract:

Sustainability in concrete structure has been developed rapidly for ensuring the requested for a new thinking about construction by concrete elements. This paper deals with using bundle using polyethylene terephthalate PET bottles and steel meshes for fabricating and modeling one way RC voided slab. That is very useful to reduce the weight of slab, also reduced the wastes in same time. For both the voided and solid ones, the load-displacement curves were almost identical from beginning until the load reaches ultimate stages, where the increasing in depth of voided slab showed higher strengths and lower displacement at same load level.