**ABSTRACT**

The analysis was conducted to check the quality of crushed over burnt bricks as different coarse
aggregates for concrete production. Tests were conducted to work out the physical properties of the crushed over burnt bricks aggregates. The values of 22.8%, 28.2% and 4.4% were obtained for crushing aggregate value, aggregate impact value and aggregate water absorption severally. The different concrete mixes were prepared using crushed over burnt bricks as coarse aggregates at water – cement ratios of 0.40, 0.50, 0.55 and 0.60. Cubes of concrete were ready and tested to check the compressive strength. The results were compared with concrete mixed by river wash gravel as coarse aggregates that at present is that the solely coarse aggregate  in Makurdi, African nation and its geographic region. The results indicate that crushed over burnt bricks – sand concrete is medium light-weight weight concrete having a density between 2000-2200 kg/m3 and compressive strength of up to 29.5 N/mm2 compared to gravel – sand concrete having density between 2300-2400 kg/m3 and compressive strength of up to 30.8 N/mm2. It may be concluded that by decreasing the water-cement ratio from 0.60 to 0.40 the compressive strength of crushed over burnt bricks – sand concrete and gravel – sand concrete increase by over 30%. Use of broken over burnt bricks as coarse aggregate for structural concrete is usually recommended once natural aggregate is not simply available, high strength of concrete isn't needed and therefore the bearing capability of the soil is low.