

## **Cement Raw Materials' Volumes Determination at East African Portland Cement Factory**

The East African Portland Cement Company in its endeavor to check and validate its raw materials in each year, commissions a quarterly stock taking exercise at its Athi River factory.

The 3rd Quarter Stock taking Project was undertaken at the East African Portland Cement Company's Athi River factory from 28<sup>th</sup> June 2013 to 30<sup>th</sup> June 2013 by the Geospatial and Space Technology Department. The Project was procured through the University of Nairobi Enterprise Service (UNES).

The Project was commissioned by the Stores Department at the EAPCC and its **objective was to determine the mass in tonnes, of all the cement raw materials eg. Limestone, Pozzolana, Gypsum, Bauxite, etc.** at the plant's storage yard as at 28<sup>th</sup> September, 2015 for Financial Reporting.

To be able to obtain the mass of the raw materials, volume measurements were carried out using two Survey techniques:

- Global Positioning System (GPS) operating on Real Time Kinematic mode
- Total Station operating both with a reflector, and in some instance on the reflector less mode.

MicroSurvey CAD and Arc GIS softwares were used in volume computations.