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## STUDIES ON THE ASSESSMENT OF CEMENT PARAMETERS OF DIFFERENT BRANDS OF CEMENTS

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### Abstract

*This paper describes the comparison of quality of different brands of ordinary Portland cement selected from local traders. Various chemical constituents like calcium oxide, silica, magnesium oxide, iron oxide, aluminum oxide were determined based on standard specifications. Most of the samples have all the constituents in acceptable range with few exceptions. Properties like Lime saturation factor (LSF), Silica ratio(SR), Alumina ratio(AR) and Hydraulic Modulus(HM) were also calculated. The results of the tested parameters that not all cement samples are within the specified standard range. Parameter like HM of few samples are lesser than 1.7, and it indicates less possibility to attain target strength. Due to presence of free lime content in cement irrespective of other parameter basic binding properties of all cements was found to satisfactory.*

### Author Keywords

Ordinary Portland cement, properties, good quality, free lime content

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