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## EXPERIMENTAL STUDY TO DETERMINE ATMOSPHERIC CORROSION RATE OF MILD STEEL AT BEIDA CITY-LIBYA

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### ABSTRACT

The aim of this study is to determine the atmospheric corrosion rate of carbon steel (0.114% C), in specific area Beida city, Libya. No study has been conducted to find the corrosion rate of any kind of steel in this area. The study was carried out using steel sheets produced by Musrata factory located in Libya. This steel is the common material in the local market used for different metal structures. The weight loss method was used to find the corrosion rate of the steel samples over a period of 8 months. The corrosion rate was found as 0.6 mpy (0.015 mmy), which is considered as very low according to standards.

**Keywords:** Atmospheric corrosion, carbon steel, corrosion rate, weight loss, Beida city, Libya.