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Economic heavy minerals in the coastal area between Burg EL-Burullus and Baltim north of Nile Delta, Egypt

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Abstract : The study area between Burg EL-Burullus and Baltim contains many of geomorphologic units such as sand dunes, beaches, lagoon, and reclaimed lands. The heavy minerals are concentrated in the coastal sand dunes and the beaches of EL-Burg and Baltim. The heavy minerals in the study area are Opaques, Hornblende, Augite, Zircon, Epidote, Tourmaline, Garnet, Rutile, Monazite and Others (Staurolite +Biotite). The heavy minerals in the coastal sand dunes are higher than that in the beach of EL-Burg area. Higher density minerals are increase in sand dunes, while decrease in the beach, the lower density minerals increase in beaches and decrease in coastal sand dunes.

Keywords: Heavy minerals – Sand dunes – Shoreline – Nile Delta.

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