**Subject of the Report**

This project study focuses mainly on the design of a **500** MW Coal-Fired Power Plant located at Brgy. Lumaniag, Lian, Batangas. This research includes the basic foundations and essential factors regarding the location of the plant as well as the design of the layout of the plant considering the codes and standards for Engineering, environmental and economic effects, health and safety issues, etc. The research involves critical operational conditioned-based criteria. The current plant profiles are evaluated as the reference data in order to establish the plant layout and location. The research will also include the financial evaluation for the design project cost overview, cost calculation and complete cost calculation of the power plant. The observation, conclusion and recommendation will also be included.