

## Summary

The purpose of this literature assignment was to make a detailed examination of dry bulk carriers and summarize the different categories of bulkers. Furthermore, one studied many factors which influence the berthing/deberthing of bulk carriers on dry bulk terminals. Also information about various loaders and unloaders as well as the comparison between these loading/unloading equipments has been searched. Finally, one had to provide data about systems for suppressing the dust during loading/unloading material handling.

In this report one has been collecting and re-organizing the information of the newest technologies. Different types of bulk carriers, which are differentiated by their capacity in deadweight tonnages, are elaborated. Then many different types of shiploaders and ship unloaders are worked out with care within detail and examined in order to note similarities and differences among them. At last, newest dust suppression technologies are worked out.

The data, which is collected, is new and helps other companies with their findings and starting or improving plans. The design of a dry bulk terminal concerns the efficiencies and capacity of material handling and loading/unloading materials. Different loading/unloading equipments can be selected and applied based on the requirements of material properties, handling capacities, etc. This report provides information required for making these choices.