

1.0 INTRODUCTION

This report is the result of a study of alternative justifications for Plant Layout and Site Selection.

The purpose of the study is to evaluate the different methods of deciding on Plant Site and Plant Layout and subsequently to arrive at the best way of approaching the problem of site selection. As a result the literature survey will indicate references to the problems of Plant Design in addition to that of Plant Site Selection and Plant Layout Design. This is primarily because the layout problem is seen to be an integral part of the Plant Design problem and any attempt to concentrate solely on any one limits its proper and total analysis.

The problems of Plant Layout and Site Selection have been approached in many different ways and in fact there are many books written on these subjects. Since the objective is not to rewrite any book or section but rather to present and evaluate the methods used it will be noted that discussion of the various criteria and methods are limited and discussion of any particular topic has been kept as short as possible.

The literature survey encompasses the problems of site selection, site development, layout types, objectives/principles of a good layout, methods of selecting and developing layout alternatives and Materials Handling and Ergonomic considerations involved in layout types.

2.0 SUMMARY

The approach to the Alternative Justifications of Plant Layout and Site Selection has been systematic in that the problem is taken up at the stage of considering the factors affecting Site Selection and ends where the fine points of the layout are being resolved. Subsequent to the literature survey the recommended method of approaching the Site Selection problem is discussed.

Although discussion has been limited every attempt has been made to mention current methods and approaches relevant to the topic. The literature survey encompasses the problems of site selection, site development, layout types, objectives/principles of a good layout, methods of selecting and developing layout alternatives and Materials Handling and Ergonomic considerations involved in layout types.