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**THE LINE-OF-BALANCE PROGRAMME
ON REPETITIVE WORKS:
CASE STUDY**

by :

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"May Allah Bless Them All"

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ABSTRACT

As if repetitive works might be construction of a housing project, in manufacturing of computer components' products and such that has identical unit, one powerful technique had being developed. This technique is known as Line-Of-Balance Method and can applied in various fields with repetitive works such been mentioned above. To fulfil the requirement for the degree of Bachelor In Engineering with Hons (Civil), thus the author will only emphasise on the construction industries. Undoubted, in construction industries , there are many repetitive works involve such as residential housing project, construction of prestressed beam, delivery of materials from plant to the site, construction of high rise building et cetera. Living in technology of information era now, everything is just on our fingers' tip, thanks to the computer and its software that available anywhere. In making the repetitive works done with more efficiently, effectively and reduce time cost, a computer programme has been developed based on the Line-of-Balance Method. The programme is developed interactively, as the user will feel conveniently to use it. The user is then being asked to open two files to restore all the data. Eventually, the output will then can be used for analysing, controlling and lastly can make comparison between the developed programme and progress of the project on the site.

CHAPTER 1

INTRODUCTION

1.1 GENERAL

Life without a plan, is not life at all. Everyone with an ambition must have their own planning. This is also applied for any work or project that has to be done. In construction industries, the project manager will play a main role in planning the project perfectly done and complete on time as best as he can be. Any manager who does not plan is not a manager, it is a long established principal that planning is one of the major managerial functions. Thus, in construction there are tool kits that are available that can be helpful to project manager. The most commonly and widely which used in construction industries are bar charts, network analysis, and line-of-balance.

The bar chart is everybody's favourite. It is easy to draw, to understand, and not too searching of managerial skill, it is best used for straight forward, well-understood construction work, and with simple relationship between the activities. This graphical technique still forms the basis for most resources scheduling.