

ABSTRACT

Building construction has become a complex problem today due to a number of factors like advancement in planning ideas, developments of new forms for architectural beauty of the building, techniques of construction, high rise structures in town and cities, wide range of materials and finishing's, demand for improved services and equipments tools and regulations of the statutory bodies and above all changes in the living standards of those persons for whom the building is proposed to be constructed.

The main aim of the project “CONSTRUCTION MANAGEMENT SYSTEM” is to develop software package for maintaining the administration taking place in “JAA CONSTRUCTION ”, Madurai.

This project is meant for maintaining administration of construction works going on different places at different stages, which deals with large amount of data.

This system has five main modules.

- Construction
- Material
- View
- Report
- and
- Exit

In first main module, consists of following options. They are

- New
- Payment Entry

- Expense
 - Labor
 - Material

In the second main module deals with purchasing and entering new construction materials for the company's requirements

- Product Entry
- Purchase

The third module is used for exposing the various information's for different constructions.

- Payment
- Labor Expense
- Material Expense
- Stock
- Total Expense
- Complete Purchase

The Report module is used for generating reports

- Material Expense
- Labor Expense
- Material Stock

The final option is for exiting from the software package

➤ Quit

The responsibilities of the architect has increased by many folds and one of the them being to provide a reliable assessment of the ultimate cost of the project to his client who does not expect that the architect will take him for a ride when ultimate cost shoots up his financial resources.

The importance of the subject of estimating can be well realized from the fact that in foreign countries professionals specialized in the job of quantity surveying are appointed for eliminating the cost of project, cost planning and for making up of interim and final accounts of the contractors.

It is a forecast of the cost of the project prior to the commencement of the job. It calls for skill, experience, foresight and good judgement besides one having a good knowledge of cost or materials and labor relating to construction works.

This company should prepare the drawings and details in such a manner that cost of element is not disturbed. This should not be done at the cost of producing cheap quality of constructions.

When tenders are invited, the tendered amount must be as close to the target amount as possible.

If the architect and engineer followed the main line of design as planned out, there will not be major variations from the amount set out in cost plan and cost checking.

1.2 PROJECT OVERVIEW

This project is developed for maintaining administration work regarding different

projects going on different places in, which deals with large amount of data. This system has five main modules.

- Construction
- Material
- View
- Report
- and
- Exit

In first main module, consists of following options. They are

- New
- Payment Entry
- Expense
 - Labor
 - Material

The **New** module in **Entry** module is designed for entering data related to new construction assignment such as party_name, address, advance_amount, type_of_building, construction_site etc.

The **Payment Entry** is developed for storing various parties giving various amounts for their constructions.

The **Expense** module has two sub modules, **Labor** and **Material**. The **Labor** module is used to add expenses occurred during construction of different projects and **Material** module is used to feed the expenses related to material like Cement, Iron rod etc for various projects.

In the second main module deals with purchasing and entering new construction materials for the company's requirements

- Product Entry

- Purchase

Since the “JAA CONSTRUCTION” itself will provide the materials required for constructions going under their management, the purchase and the corresponding products to be entered are dealt with the second main module.

The **Product Entry** module is used to feed data regarding various products they are utilizing and **Purchase** module is used for maintaining purchase of different materials from different companies.

The third module is used for displaying various information's of different constructions.

- Payment

- Labor Expense

- Material Expense

- Stock

- Total Expense

- Complete Purchase

The **Payment** module is used to view various payments made by the parties for their construction works.

Labor Expense module is used to view the labor expenses occurred during construction.

Material Expense module is used to view the material expenses occurred during construction.

Stock module is used to view the stock of the construction materials.

Total Expense module is used to get information's regarding amount, balance, total labour cost, and total material cost incurred for different projects.

Complete Purchase module is used to view complete purchases taken place for the company.

The Report module is used for generating reports of material expenses, labor expenses and material stock.

- Material Expense
- Labor Expense
- Material Stock

The **Material Expense** module is used to print out the material expenses occurred for various constructions.

The **Labour Expense** module is used to print out the labour expenses occurred for various constructions.

The **Material Stock** module is used to take print out the current stock of different materials.

The final option is for exiting from the software package

- ❖ Quit

This option is used to come-out from the software package.

