

Planning, Designing & Estimation of Boys Hostel Building

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Abstract:

This Planning, Designing And Estimation Of Boys Hostel Civil Engineering Project Ideas is about design, estimation and plan of Hostel. In engineering studies all types of constructions made with proper planning and designing. The house construct without planning which will not stay long. Every construction has its own planning and design. Hence, this project also shows the planning and designing methods of Hostel construction. Everyone have its own choices of living styles. Student's want to live in own living style. Hence, to construct a Hostel engineers have to think and design the Hostel based on the requirement.

This project has been completed using technical thinks.

This project will give you a comprehensive overview of the subjects of civil engineering related to building design. Also, if you want to build a building you can use this project.

Keywords —**Building Planning, Building Design, Building Estimation, Building By Laws, Hostel Building.**

Introduction

This Planning, Designing And Estimation Of Boys Hostel Civil Engineering Project Ideas is about design, estimation and plan of Hostel. In engineering studies all types of constructions made with proper planning and designing. The house construct without planning which will not stay long. Every construction has its own planning and design. Hence, this project also shows the planning and designing methods of Hostel construction. Everyone have its own choices of living styles. Student's want to live in own living style. Hence, to construct a Hostel engineers have to think and design the Hostel based on the requirement.

The project requirement is for the separate Boy's & Girl's hostel, because of the facility of the hostel to the Boy's is provide on the institution building, there is not the considerations for hostel life, so the requirement of separate hostel is mandatory. So this project designs under the direction of staff member of civil engineering department.

This project provides the details of Hostel design. Depending on the requirements of the situation and environment of the site, the purposes for which constructed the building to be fit. Any construction of what so ever material and used for business education residential or other purposes is called building. There are 2 types of the building: – 1. Based on occupancy, 2. Based on type of construction. The specification site selection provides the details about level at the site, climate condition, sub-soil condition, availabilities of modern amenities, and availabilities of other facilities, surroundings.

The construction in this 21st century is becoming challenging day by day as in order to achieve more economy and efficiency. As in order to bring down these challenges and save time, computer-based software programs are used by engineers. In this project after having the theoretical knowledge about the analysis and design of building

we have attempted to G+1 Hostel building using this software also estimation using MS Excel. Our project involves most popular software's like AutoCad, and MS Excel.

I. AutoCad: - One of the main benefits of AutoCAD is that it allows you to draw to scale and accurately, Easy Layout and Viewing, we can make changes easily and reduce risk of error, identify design problems, calculate material quantities for production store and transfer data safely save time and money.

The ground and all floors plan were drawn using AutoCad. Also, column, footing plan was constructed in it

II. MS Excel: - It helps in maintaining bills, making graphs, scheduling things for a project, calculating sizes of beams and columns, etc for a civil engineer, in times of executing, quantity estimating, planning, contracts, budgeting, designing, quality controlling, quantity estimating etc. As stated, everyone uses Excel. The required calculations are one by MS Excel. You can store, replicate, modify the data; however, one might want. In our Project we have done Building Estimation and Costing and prepared quantity measurement and abstract sheet using MS Excel.

Literature Review

1) Harrow, J. Managing risk and delivering quality service South Bank University Business School, London, UK.

Managing risk and delivering quality services

This study shown about the quality services and the management system for build a building. The quality services and the management system include the quality of concepts and models, strong quality structure of service notions. As the Goddard et al. [22] document said the introduction of TQM to services for people with learning disabilities in Southampton, using quality circles and a pre-existing standards matrix.

2) Ezzat F. Guirguis. A Review of the Hostel Situation in County Down. Northern Ireland Queen Street Mental Health Centre, Toronto, Ontario, Canada.

A Review of the Hostel Situation in County Down

In this article, it shown about the hospital's situation. In 1972, the working party was set up to report on the hostel

situation in Co. Down, Northern Ireland, and to make recommendations regarding future needs. The hostels have been in existence in Co. Down since 1963 and have increased from four beds to 102 beds at the time of the report.

3) Dawn E. Stephen. December (2000). Young Women Construct Themselves: Social Identity, Self-concept and Psychosocial Well-being in Homeless Facilities. (pp 445 – 460). *Journal Youth Study*.

Young Women Construct Themselves: Social Identity, Self-concept and Psychosocial Well-being in Homeless Facilities

This book is about the previous study about the premise that the processable link between social being and social consciousness-lived experience-needs to be explored. As the example, the research done by sample of young women, 'feeling at home' was either a present state of pathos or a future aspiration, it was not something most associated with their pasts. By listening actively to what the young women had to say about their social identity, self-concept and psychosocial well-being, it is shown that hostel life is portrayed as a stage of transition between the structured limitations of the past and their aspirations for the future.

4) Smithey, P.N. (1999). Empower and participation: A contextual analysis of resident management in public housing, 150.

Empower and participation: A contextual analysis of resident management in public housing

A journal has been written by Smithey.P was discuss about a contextual analysis of resident management in public housing. Resident management is a policy that allow the

tenants of the apartment to act wise fully to settle the community problem, gain the support from the public and some funding. By using black empowerment cities as research, Smithey find that a suitable way to manage resident in public housing by using this journal as a reference, our can know what was needed in a apartment or hostel for student to live and what the requirement for a good resident.

5) Bowman, K. (2007). A new role for student housing, Revitalizing a mid-sized city core, 174.

A new role for student housing

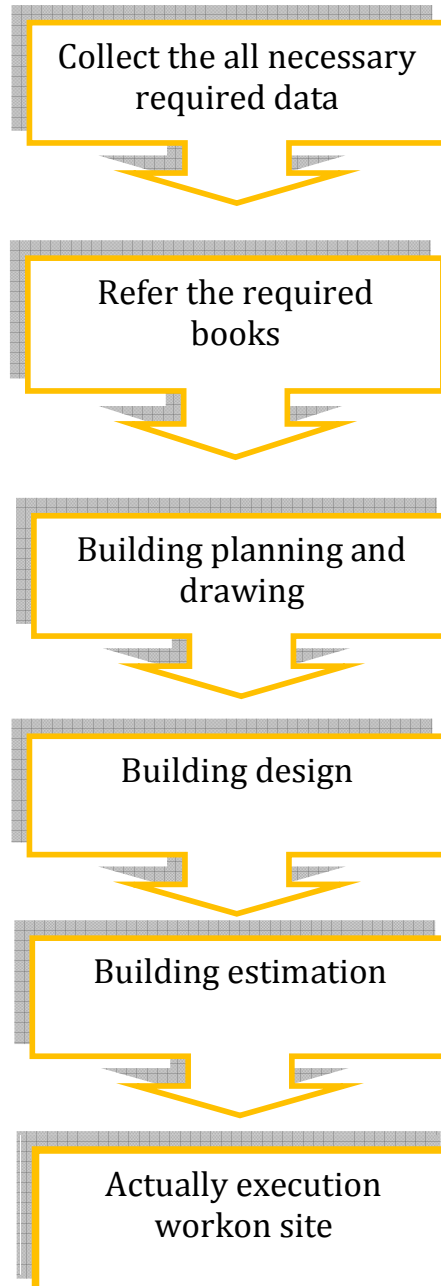
The journal has been written by Bowman.K. It was discuss about students residence. The survey from 380 respondents shows 1.6% expressed a desire to live in a Student Residence. Majority of the student response indicate that they want to choose their own living environment than dormitory standard space. The other results shows that they would like to add the parking lot, restaurants and grocery store as the additional facilities at their resident. The apartments that provided to the students has occupancy range from one to four people. The individual rooms organize suitable to the students activities in their rooms.

6) Pulvis C.L. (2008). The ecological footprint of hostel tourists in Ontario and Quebec, 164.

The ecological footprint of hostel tourists in Ontario and Quebec

This journal had been written by Pulvis C. And its discuss about hostels survey. This survey required the detailed information on sample hostels. The survey was designed appropriately to collect the information.

Methodology



Conclusion

1. This project includes planning, design and estimation of G+1 boys hostel building.
2. Manual design has been done for one of the different dimensions of the beam, column, stairs, footing and slab of the Hostel building as per the IS 456-2000.
3. Reinforcement details for each member (slab, beam, column and footing).
4. Estimation and costing done by using MS Excel to know the building approximate cost using long wall and short wall method.
5. Overall project helped to use to understand the building process and use

of different software for easy and timely completion of work.

References

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By Monojit Chakraborti (Book)
10. Tech max books