

Estimating and Costing of Building using Revit

Mr. Satish P. Deore¹, Sapna P. Mohite², Sonal S. Barve³

Trupti V. Gavit⁴, Ashutosh S. More⁵, Sarthak S. Barde⁶

HOD, Department of Civil Engineering¹

Students, Department of Civil Engineering²⁻⁶

Mahavir Polytechnic, Nashik, India

Abstract: *This project, "Estimation and Costing of an RCC Building Using Revit Software," explains how to calculate the cost of building a G+4 residential structure using modern technology. Revit software helps in making the process faster and more accurate by automatically measuring materials and costs. The project covers different estimation methods, such as rate analysis and quantity surveying, to determine the required amounts of bricks, cement, sand, doors, and windows. It also includes cost calculations for important parts of the building, like the foundation, walls, and roof, to ensure proper budgeting. By using Revit, the project helps to avoid extra costs, plan materials properly, and complete construction within budget. It also teaches students how to use digital tools for cost estimation and project planning, making construction work more efficient and organized.*

Keywords: Estimation, Costing, RCC Building, Revit Software, Budgeting, Construction Planning, Quantity Surveying