

Please use snapshots of software, analysis etc when applicable.

Contents

1. Analysis and design group members with Roll No.
2. Summary of the project deliverables
3. Load application
 - a. Summary of load according to IS codes
 - b. Load combinations
 - c. Loading calculation
 - d. Loading application considerations on the model
4. Analysis (Analysis group)
 - a. Structure modelling, along with preliminary dimensions taken and selected structural members.
 - b. Application of correct boundary conditions.
 - c. Elements (Beam, Truss etc.) and nodal joints used (Rigid, Pinned Joints).
 - d. Load application for different load cases on the analysis model
 - e. Load cases/combinations used in the analysis
 - f. Structural analysis response for different load cases and envelope for all combinations. A sample of member forces, moments, deflections will be included in the final report.
 - i. Deformed shape, Deflections
 - ii. Section forces, moments for different types of members
 - iii. Base reactions
5. Design (Design group)
 - a. Structural analysis of structure using software for at least one load case
 - b. Report should have the correct formulas etc used by the code provisions and software for at the selected load case
 - i. Design of compression elements
 - ii. Design of tension elements
 - iii. Design of beam elements ...(if applicable)
 - iv.
 - c. Discussion of design of connections that have been assigned
 - d. Preliminary design of structural design using Stadd
 - i. Use of specified code
 - ii. Stadd reports
 - iii. Designed members
 - iv.
 - e. Preliminary design of connection design using Osdag
 - i. Modelling and design in Osdag
 - ii. Connection designs as specified by deliverables
 - iii. Snapshots, summary of Osdag report
 - iv. Final design
6. Conclusion and Future work
 - a. List of work for the final evaluation