



Minimum Requirement for Structural Jury Presentation

1) Cover page General Information

- a) Occupancy Type of the proposed building
- b) Owner name,
- c) Location with ward number,
- d) Structural Designer name & mobile no,
- e) NEC no.
- f) Architectural Designer name
- g) Consultancy Name if any

2) Content, objective & scope

3) Location in Google map

4) Architect Drawing

- a) Site Plan with surrounding neighbor's facilities,
- b) Floor Plan, Section, Elevation, 3D if any
- c) Total height of the building
- d) Height of Basement if any

5) Minimum Geometrical size of structural elements as per IS 456:2000 & NBC 105:2025

6) Structural System of super structure & sub structure

7) Structural layout plan preferably orthogonal connection in both directions

8) Analytical Model

- a) Analysis modeling Software & version for superstructure & sub structure
- b) 3D model, Building Dimension with aspect ratio (L, B, H, L/B, H/B etc.)
- c) Analytical Analysis Method

9) Define Materials, Section Properties and Load Assign

- a) Dead Load, Live Load, Staircase Load, Lift Load, water tank Load, soil Pressure Load etc. utility load if any, facade element's load if any

(Signature)

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10) Seismic codes and Parameters Code, Calculations: NBC 105:2025

11) Load Combinations

12) Crack Section analysis for SLS and ULS

13) Structural Analysis Output check

- a) Static and dynamic Horizontal Base shear
- b) Scale factors
- c) Model Participating Mass Ratio (Table)
- d) No of mode & frequency
- e) Story Drift Ratio Check (Table)
- f) Story stiffness check (Table)
- g) Torsion Irregularity check (Table)
- h) Mass Irregularity check (Table)
- i) Soft story check (Table)
- j) Eccentricity check (Table)
- k) Stability Indices for checking P- Δ (Table)
- l) Seismic gap calculation (if any)
- m) Dual system Check (if any)

14) Reinforced concrete Design Check

- a) Verify all Member Passed (if any, submit manual calculations)
- b) Percentage of reinforcement
- c) Column/Beam Capacity with the provided reinforcement
- d) Required and Provides Column Reinforcement Table
- e) Shear Reinforcement in Column, Beam and Wall
- f) Seismic gap calculation if required
- g) Ductile Detailing Check: Horizontal development length, shear reinforcement, special confinement rebar

15) Comparative chart of the reinforcement of the structural elements between analyzed and provided in the beam, slab & column

16) Structural Drawings

- a) Structural layout plan, Columns with details section, Beam with detailing, Shear Wall, Slab, Staircase etc., ductile detailing,

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17) Soil Test Data

- Location with ward number
- Site with Surrounding area's photo
- Depth and number of borehole calculations.
- Soil Profile
- Soil Bearing Capacity & Its calculation method
- Modulus of Subgrade Reaction
- N-Value Table
- Soil Test Conclusions and Recommendations
- Vs30 calculation and soil type if more than 40 m high building
- Settlement considerations in soil test for SBC,
- Site photos

18) Footing Analysis

- Foundation layout plan, section,
- Pile layout plan, section if any
- Punching Shear Capacity
- Soil Pressure Diagram
- Settlement of raft.
- Mat Rebar Detail
- Footing drawings
- Foundation Pile design and details if required.
- Remedy for liquefaction if required
- Pile raft ratio calculation if used piled-raft foundation
- Differential settlement check
- Soil type recommendation for superstructure analysis design & foundation design

19) Site Protection Design & Drawings with the detailing of the surrounding neighbors' facilities with sectional profile

Note:

- The following documents must be uploaded to the EBPS system prior to the publication of the structural jury presentation list (Minimum Requirements)

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- Complete architectural and structural drawing in AutoCAD in lower version format (AutoCAD 2016 or earlier)
 - Design Files (ETABS/SAP/EDB/E2K, etc) for both ULS and SLS in lower version format
 - Structural Analysis Report
 - Soil Test Report along with Site protection Design.
 - Structural and Geotechnical Presentation Files
- b. These requirements can be used as reference for Non-Jury Files too.**

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