



Structural Analysis Report.

Date:

1 Owner(s) information:

- a. Name.....
b. Plot No..... c. Thram No..... d. Location.....

2 Designer(s) information:

- a. Name.....
b. Name of last University.....
c. Graduation from the last university (month and year)
d. Experience in
designing.....
e. Type of software used.....

3 Type of structure (Tick) and specify the Grade applied in analysis

- ☐ RCC.....
☐ Steel.....
☐ Load-bearing wall
☐ Others (Please specify)

4 No. of the story.....

(Example (S or B/S+G+4+J)

B=Basement floor below lowest natural ground level

S=Stilt Floor above ground level

5 Modelled and analyzed the structure, incorporating all elements as specified in the architectural drawings, including projected slabs, verandas, rabseys, and staircases.

- ☐ Yes
☐ No

6 Types of imposed load applied to the external and internal walls, and specify its unit weight per meter.

- ☐ Brick wall
☐ Autoclaved Aerated Concrete (AAC block)
☐ Other (specify).....
• External wall load appliedKN/m
• Internal wall load applied.....KN/m

7 For a proposed water tank on the roof floor, specify the water tank capacity and applied unit weight.

- a. Capacity of water tank each..... Liters



- b. Water tank load applied.....KN/m²
- 8 If the roof trusses are not modelled with the structural members, what unit weight of the roof truss and CGI sheets has been applied to the structural model?**
- a. Total roof dead load.....KN/m²
or
b. Total point dead load.....KN
- 9 If the moment of inertia has been applied to columns and beams, specify its percentage below:**
- a. Column.....
b. Beam.....
- 10 Design base shears for the structure by applying static and dynamic methods. If vertical excitation/motion is applied, provide its value separately.**
- a. Design base shear for Static (VB) along X-axis principle (major/minor):KN
b. Design base shear for Dynamic (VB) along X-axis principle (major/minor):KN
- a. Design base shear for Static (VB) along Y-axis principle (major/minor):KN
b. Design base shear for Dynamic (VB) along Y-axis principle (major/minor):KN
- 11 Applied design base shear factor through dynamic analysis**
- a. Design base shear factor along X-axis principle (major/minor):KN
b. Design base shear factor along Y-axis principle (major/minor):KN
- 12 Have the IS Code provisions for earthquake resistance (1893-2016) and ductile detailing specified in IS 13920:2016, been applied during the structural design process?**
- ☐ Yes
☐ No
- 13 Under which category does the structure fall? (tick):**
- a. Under Plan irregularities:**
- ☐ Torsional irregularity (if the structure has an asymmetrical configuration, then check for Torsional is compulsory)
☐ Re-entrance Corner
☐ Floor slab having excessive cut-out or opening
☐ Out-of-Plane in offsets in vertical elements
☐ non-parallel lateral force system
- b. Under Vertical Irregularities:**
- ☐ Stiffness irregularity (soft story) (if the structure has stilt for parking, then check for the soft story is compulsory)



- ☐ Mass irregularity
- ☐ Vertical Geometric Irregularity
- ☐ In-plane discontinuity in Vertical Elements Resisting Lateral Force
- Structural Analysis Report Date:
- ☐ Strength Irregularity (Weak Story)
- ☐ Floating or Strut Column (avoid proposed)
- ☐ Irregular modes of Oscillation in two principal Plan Directions

14 Type of footing in the structural drawing (Tick):

- ☐ Isolated footing
- ☐ Combined footing
- ☐ Raft footing
- ☐ Other

15 Assumption made for settlement of soil under service loads while, analyzing and designing of any of the footings, if used any software or use other methods (hand calculation) (Tick):

- ☐ Isolated footing.....mm Or ☐ Other Method (hand calculation)
- ☐ Combined footing.....mm Or ☐ Other Method (hand calculation)
- ☐ Raft footing.....mm Or ☐ Othe Method (hand calculation)

16 Assumption made for soil bearing capacity while analyzing and designing of following the footings:

- ☐ Isolated footing.....mm
- ☐ Combined footing.....mm
- ☐ Raft footing.....mm

I, the undersigned, hereby declare that the above-furnished data and information are **true and accurate** as per the analysis report of the proposed building. I understand that any discrepancies or inaccuracies in the provided data may lead to structural failures or other issues.

In the event of such discrepancies, **I shall bear full liability and responsibility** for any consequences arising from the failure of the structure, provided that other factors such as **construction quality** and **supervision** are maintained as per the approved standards and guidelines

Legal Stamp:

Signature:

Date: