

Sponsor: Godrej Storage Solutions, Chennai

## Description of the Test Structure

- Upright height of 6.3 m , Plan area 2.8 m x 1.0 m
- Total load of 8 ton load (2 ton at each level)
- Cold-formed steel with perforations

## Highlights & Challenges

- ✓ Seismic Qualification of Braced and Unbraced Racking System with both pushover and shake table tests
- ✓ Tall, slender, light structures but carry heavy live loads (many times larger than the dead load, opposite of usual civil engineering structures)
- ✓ Upright - thin-walled, open-section - prone to global, local and distortional buckling problems



**Pushover test**



**Shake table test**