DEMOLITION

Introduction

- Deliberate destruction of structures and materials by means of

- Mechanical Equipments
- Explosives

Demolition of Building

STEPS BEFORE DEMOLITION

- Surveying
- Removal of hazardous materials
- Preparation of plan

SURVEYING

- Study of different parameters of the structure and its surroundings.
  - ✓ Record Drawings
  - ✓ The construction materials
  - ✓ Adjoining properties and site conditions
  - ✓ Available site area to demolition

REMOVAL OF HAZARDOUS MATERIALS

- Asbestos containing material
- Soil contamination material

PREPARATION OF PLAN

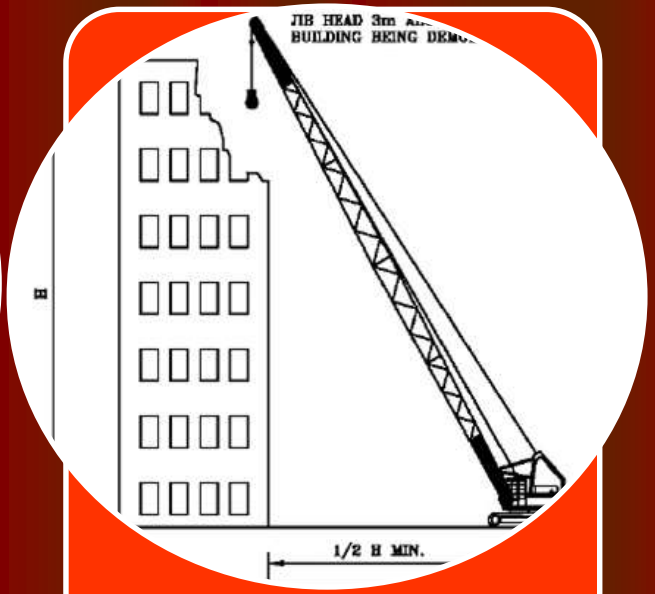
- The location of the building to be demolished
- A layout plan of all floors of the building to be demolished
- The structural support systems
- Time and frequency
- A temporary parking layout for mobile machines and trucks

Emergency exit

- properly protected
- free of obstruction
- properly marked with exit signs

METHODS OF DEMOLITION

PIECEMEAL DEMOLITION



MECHANICAL METHOD

EXPLOSIVE DEMOLITION

EXPLOSIVE DEMOLITION

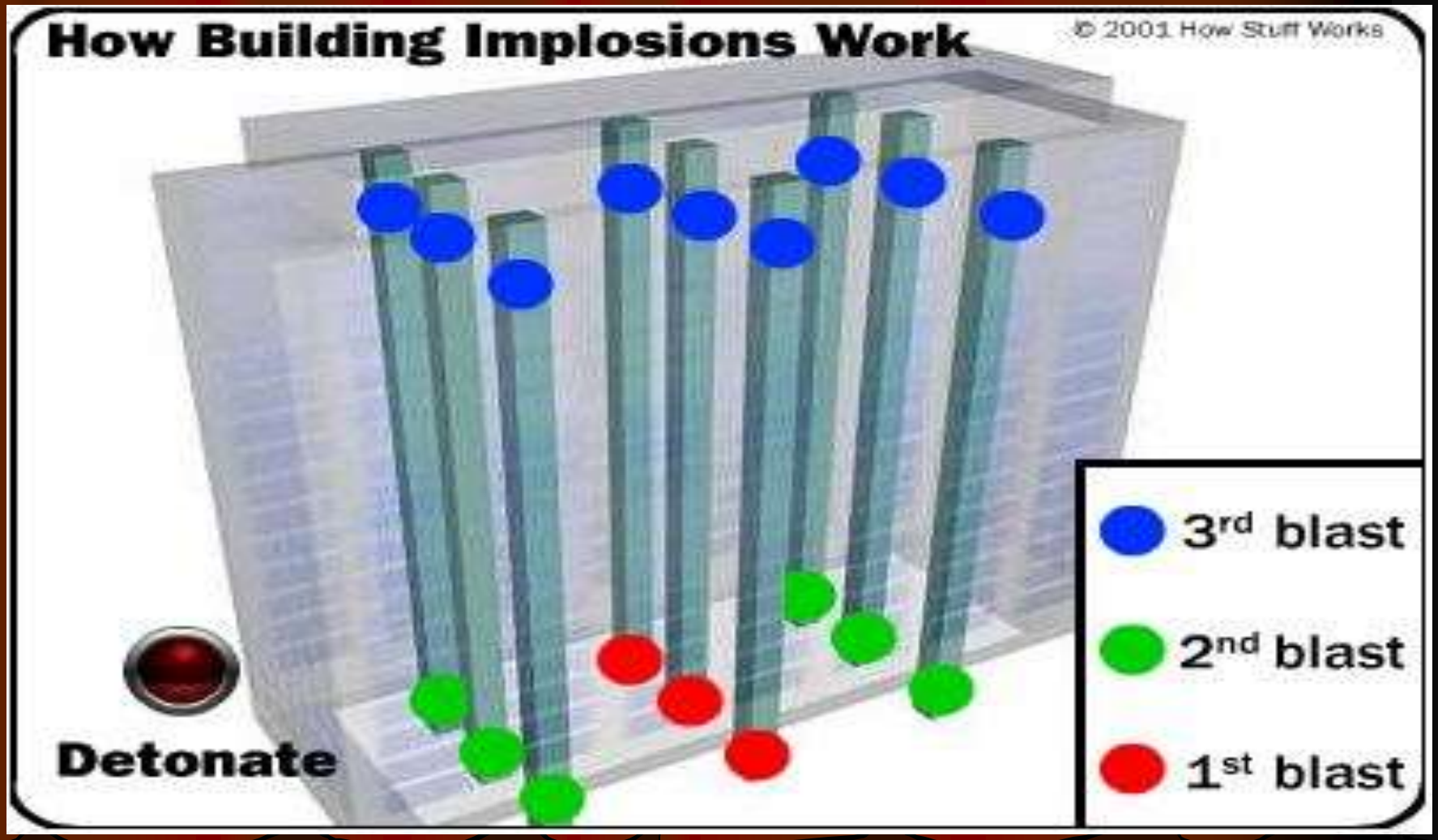
Blasting machines

Blasting cap or electrical detonator

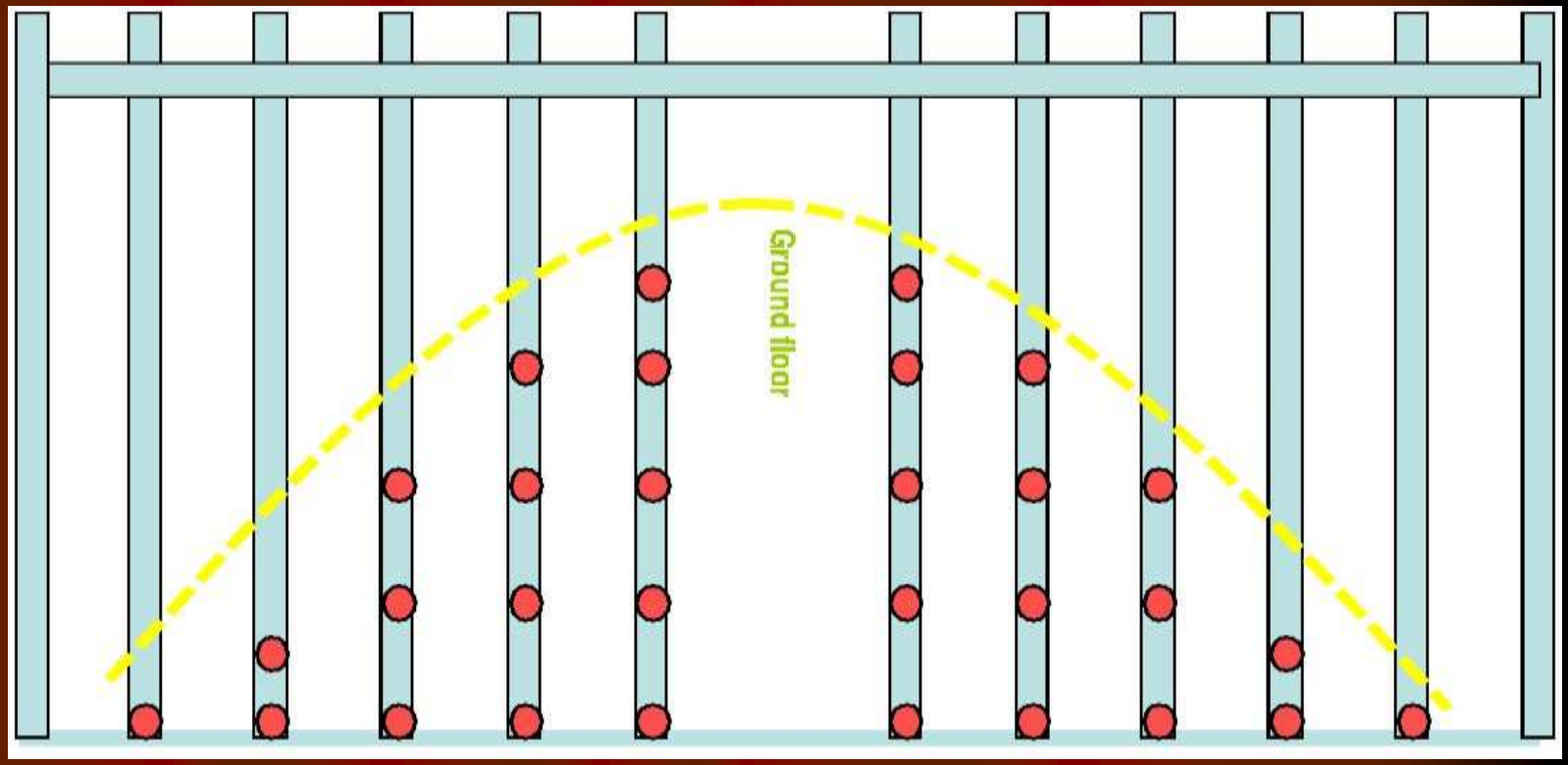
Advantages of EXPLOSIVE DEMOLITION :-

- Less expensive
- No ground vibrations
- Quickest method
- Suitable for multi-storyed / high piers, cabins, distressed piers etc.

How building implosion works??



Placing the Explosives



DEMOLITION

Concrete Columns

Steel Columns

Blasting the Explosives

- Use of blasting caps.
- Lead line.

Columns Fully Loaded with Explosives and Hooked up to Blasting caps

Test Blast

CONCLUSION

Demolition method applied in a structure depends upon various factors such as site condition, type of structures, age of building, height of building and economy and most important its location with presence of its surrounding with its structural stability. Controlled demolition of building is necessary to ensure safety of both the workers and the surroundings so as to cause least amount of injuries and accidents.

Thank you…