

FIRE FIGHTING SYSTEM AS PER NBC :

The building comprises of 2 Basements, ground ,first floor and 24 upper floors as described earlier. Height of the building is more than 60.0m. Fire Fighting System to the proposed building is designed based on the recommendations of NBC part IV table 23. 2005.

Following are the requirements:

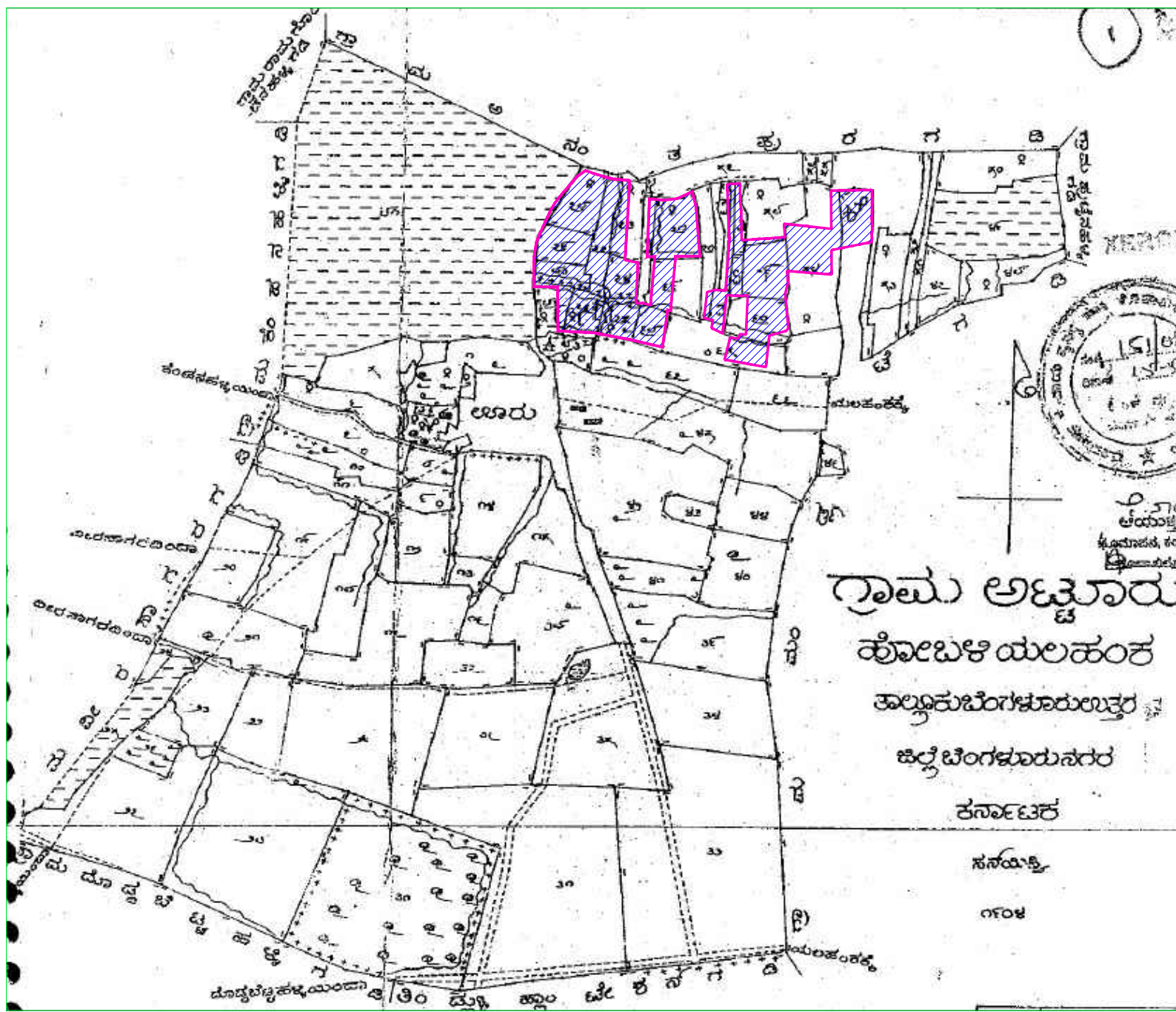
1. An exclusive UGR of capacity 100,000 Lts below Basement and OHT of 25,000 lts 2 Nos capacity at the terrace level shall be provided.
- Electrical driven pump 1 No multistage 2280 lpm @ 100 m head for low pressure multiple outlet 2280 lpm @ 140 m head for high pressure
- Disel engine driven pump 1 No multistage 2280 lpm @ 100 m head for low pressure multiple outlet 2280 lpm @ 140 m head for high pressure
- Sprinkler pump 1 No multistage 2280 lpm @ 100 m head for low pressure multiple outlet 2280 lpm @ 140 m head for high pressure
- Jockey pump 2 Nos multistage 2280 lpm @ 100 m head for low pressure multiple outlet 180 lpm @ 140 m head for high pressure.
- Booster pumps are also provided.

d) Common requirement for the blocks are as follows

1. 1No. Wet riser of 150 mm dia is provided for every 1000 m² of floor area.
2. FHC is envisaged with twin hydrant valve and hose reel at each stair case landing level

3. Portable fire extinguishers are proposed to be placed at strategic locations
4. Yard hydrants @ 60.0 m c/c of building peripheral length is provided
5. Sprinkler System, Automatic fire detection & Alarm system is envisaged for the entire building.
6. Installation Control Valve is envisaged for sprinkler system- for every 1000 Sprinkler.
7. **Foam type** extinguisher System is envisaged for Helipad at terrace level.
8. **FIRE ALARM SYSTEM:**
The building is also provided with manually operated (conventional system) Fire alarm and smoke detection system. This comprises of smoke detectors, manual call points, push button break glass type located on all landing levels in the Building. The system operates by giving out a siren the moment any MCP glass is broken.
9. **PUBLIC ADDRESS SYSTEM:**
A two-way communication system is envisaged for the project enabling proper communication from different floors to the control room. Two-way speakers are installed at all floors landing and strategic locations connected with the P.A Console at the Ground Floor lobby / Security.
10. **Stair Cases-** In ground floor staircase has to be staggered and Separate entry from ground floor to basement, separate entry from ground floor to upper floors to be envisaged. Minimum of two staircases in each tower would be connected at Terrace level.
11. **Fire tender drive way-** Fire driveway of width 10.0m is envisaged all-round the building as per Requirements.
12. **Travel Distance-**maximum permissible travel distance as per requirement is 33.75mts.


13. **Types of system proposed-** Fire Hydrant System, portable Extinguishers and automatic fire detection & alarm system.
14. **Fire hydrant system-**
- a) Internal system-Wet riser.
 - b) External system – External yard hydrants are required as per NBC.
15. **Fire Extinguisher system-** Includes Multipurpose ABC type, fire buckets.
- ABC powder Extinguisher -5 Kgs provided in transformer yard electrical room and same providing for every 8 car parks.
 - Carbon Dioxide Type-2 kgs provided in kitchen area and lift area.
 - Fire buckets-Capacity 9 lts where 2 buckets kept in a common stand.
 - Multipurpose ABC type-Provided at each stair case landing.
 - One water type Gas cartridge extinguisher of 9 lts capacity should be provided on each staircase landing.



North



Legend

Site Boundary Shown thus..... 

Title

**VILLAGE MAP SUPERIMPOSITION FOR
SY. NO. OF ATTUR VILAGE,
YELAHANKA HOBLI, BANGALORE NORTH**

Surveyed & Mapped By

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