

# Conditional Report (Fire Alarm System)-Annex-7

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## 1-Fire alarm system

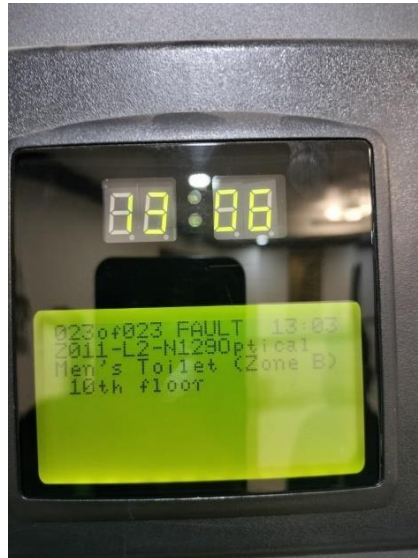
- Model: GST N200 Addressable 2 loop panel (*Picture 1*)
- Total of 23 Faults were detected (*Picture 2*)
  - Detector fault – 22 nos
  - 6<sup>th</sup> floor inside men's toilet – 1 nos
  - 7<sup>th</sup> floor Asst secretary general room inside – 2 nos
  - 9<sup>th</sup> floor corridor area – 3 nos
  - 10<sup>th</sup> floor lift lobby area – 2 nos
  - 11<sup>th</sup> floor female prayer room inside – 1 nos
  - 12<sup>th</sup> floor Future expansion area, Men's changing room, Lounge and toilet – 13 nos
  - Battery's fault – 1 no (*Picture 3*)
- Both batteries are faulty
  - Batteries are not suitable for the addressable panel.
  - Batteries present (improper): 12V 7.5A x 2 nos
  - Batteries recommended (proper): 12V 18A x 2 nos
- Faults could be due to various reasons.
  1. Faulty detector
  2. Low voltage – in loop
  3. Loose/faulty connections
  4. Improper programming

## 1.2- Recommendation

- Need to change the faulty detectors
- Need to do reprogramming for the new installed detectors
- Need to change the fire panel batteries
- Clean all devices by wiping with dry cloth (quarterly)
- Arrange quarterly inspection of the system



Picture 1



Picture 2



Picture 3

## 2-Fire Extinguishers

- Fire extinguishers are generally in good condition
- Missing extinguishers at multiple locations
- All extinguishers were expired
  - Need to undergo thorough inspection and required servicing

## 3-CO2 Suppression System

- Detectors were not fix on the ceiling
- System not active
  - Panel not in operating mode
  - Need to undergo thorough inspection

## ***4-Hose reel system***

- 2nd floor zone B hose reel delivery nozzle damaged
- 3rd floor zone B hose reel water leakage issue observed
- 5th floor, 4th floor, 3rd floor B zone side door locked
- 6th floor hose reel water leakage issue observed
- 7th floor hose reel delivery nozzle damaged

### ***4.1 Recommendation***

- Need to arrange the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> floor B zone hose reel door keys.
  - Doors accessing fire safety equipment should always be kept unlocked and easily accessible.
  - Multiple locations need repair or replacement of hose reel nozzle, drum and/or pipeline.
  - Clean all the hose reel system by wiping with cloth (quarterly)
  - Arrange quarterly inspection of the system.
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