

FIRE DETECTION SYSTEM



The system is fitted with 2 nos. Fire Cum Smoke Detectors inside the Engine/ Generator Cabin. The Detectors are connected to the control Unit as Shown above.

The following are the constituent of the control panel.

1	SOUNDER CUM FLASHER BEACON
2	CONTROLLER

In case of Fire inside the Genset Cabin, the heat/smoke sensors will activate the Alarm system which will give a Audio Visual Alarm.

On Hearing/ seeing the Alarm, the trained attendant, should activate the High Pressure water mist suppression system as described in next section and **IMMEDIATELY LEAVE THE COACH AFTER THAT**

HIGH PRESSURE WATER MIST FIRE SUPPRESSION SYSTEM

The following are the constituent of the Water Mist Fire Suppression System.



1	NITROGEN CYLINDER 50 L AT 200 kg/cm ²
2	WATER CYLINDER 2 X 80 L EACH

OPERATING INSTRUCTION

1. On Hearing/Seeing the Fire Alarm make sure that everybody should leave the generator compartment.
2. Close the door of generator compartment.
3. Switch off the Gensets, exhaust and ventilation equipment.
4. Pull the pin of the operating handle as shown. (Fig A)
5. Push the operating handle as shown. (Fig B)
6. Once the High pressure water mist activate inside the press the reset button on the alarm system.



THIS SYSTEM ONLY TO BE ACTIVATED IN CASE OF REAL FIRE AND SYSTEM MUST BE OPERATED BY TRAINED PERSON ONLY AS PER USER GUIDELINES. FOR ANY QUERY AND TECHNICAL DETAILS PLEASE CONTACT :-

E-mail:-snaveen20@yahoo.com, rail.girish@gmail.com, engg.sanrok@gmail.com

Phone:-0129-4315197, 4071553, Fax:- 0129-4071554



Operating instructions for Fire & smoke detection & manual suppression system for LHB Generator coaches.



Control Panel Box

Audio
Visual
Alarm



Manual
Activation
Switch

Evaluation
Unit

- **Step-1:** In event of fire / smoke inside the generator room, audio-visual alarm will start indicating red light with siren sound on control panel.
- **Step-2:** Check & confirm inside the generator room for actual fire event.
- **Step-3:** In case of actual fire event, stop both the generators system & cut-off its fuel supply.
- **Step-4:** Lift the flap on the “Manual Actuation Switch” and press it (as shown above) provided on control panel.
- **Step-5:** Control system will activate the high pressure water mist suppression system & discharge will start through nozzles installed inside the generator room to suppress the fire.
- **Step-6:** After discharge of suppression system & fire suppression, the cylinders would be empty & required to be refilled with Nitrogen & demineralized water.
- **Step-7:** In the event of only smoke and no fire, the audio/visual alarm would be actuated. The same have to be resetted by opening the control box and pressing the reset button on evaluation unit for more than 5 seconds.
- **Step-8:** “Orange light” in any LED of evaluation unit, indicates fault in the system which needs correction.