

■ Sensor Data:

300
30
200
1
150
45

■ Bot:

Condition Identified:

Fog condition became TRUE because the Air Quality Sensor MQ135 value is 200, which is greater than the threshold of 200 ppm. This triggers the fog condition flag, as per the FOG CONDITION RULE.

Recommendations for Drivers:

- Reduce speed and maintain a safe following distance to account for reduced visibility (Ref: IRC:SP-042-2014, Clause 2.3)
- Use fog lights and ensure all vehicle lights are functional to enhance visibility (Ref: MoRTH Guidelines on Road Safety, Section 4.2)

Recommendations for Road Safety Auditors:

- Ensure proper placement and functionality of fog warning signs and speed limit indicators in fog-prone areas (Ref: IRC:SP-042-2014, Clause 3.4)
- Verify that road markings and reflective devices are adequate to guide drivers during low visibility conditions (Ref: MoRTH Guidelines on Road Safety, Section 5.1)

Reasoning:

The identified fog condition necessitates immediate actions to mitigate risks associated with reduced visibility. Drivers must adhere to safe driving practices, as outlined in IRC:SP-042-2014, to prevent accidents. Road Safety Auditors should ensure that infrastructure and signage comply with MoRTH guidelines to effectively manage fog-related hazards.

References:

- IRC:SP-042-2014, Clause 2.3 and 3.4
- MoRTH Guidelines on Road Safety, Sections 4.2 and 5.1
- Fog condition identified based on Air Quality Sensor MQ135 value exceeding 200 ppm (FOG CONDITION RULE)
- Official website reference: <https://morth.nic.in/hi/node/120>

■■■ User Query:

What are the common safety risks at a 4-lane undivided highway near a school?

■ Sensor Data:

300
30
200
1
150
45

■ Bot:

Condition Identified:

No specific condition became TRUE based on the provided sensor data and query. The sensor data does not meet the thresholds for any of the predefined conditions (e.g., Fog, Motion, Object/Pothole, Lane Transition, Turning Risk, Sharp Turn Overspeed). However, the user query mentions a "4-lane undivided highway near a school," which implies a potential risk scenario due to the presence of pedestrians, especially children, and the lack of physical separation between traffic directions.

Recommendations for Drivers:

- Reduce speed and exercise extreme caution, especially during school hours, to ensure the safety of pedestrians and other road users. (Ref: IRC: SP-41, Clause 3.2)