

AMENDMENT NO. 1 NOVEMBER 2024

TO

**IS 11877: 2019 Automotive Vehicles — Maximum Speed of  
Automotive Vehicles — Method of Evaluation**  
( *First Revision* )

(Page 6, *Clause 4.4.1*) — Substitute following for the existing clause:

**4.4.1 Air Density**

The air density at the time of the test, calculated as set out below, shall not vary by more than 7.5 percent from the air density in the reference conditions.

The air density shall be calculated by the formula:

$$d_t = \frac{d_o \times P_t \times T_o}{P_o \times T_T}$$

Where,

- $d_t$  = Air density at test site expressed, in kg/m<sup>3</sup>;
- $d_o$  = Air density at reference conditions = 1.168 kg/m<sup>3</sup>;
- $P_t$  = Atmospheric pressure at test site, in kPa;
- $P_o$  = Atmospheric pressure at reference condition = 100 kPa;
- $T_t$  = Ambient temperature at test site K; and
- $T_o$  = Ambient temperature at reference condition = 300 K;

Alternatively, air density may be directly measured by any suitable device.'