Doc: TED 04 (20404) W
IS 14346 (Part 1): XXXX
October 2022

For BIS Use Only

भारतीय मानक प्रारूप

मोटर वाहन - यात्री कारें - चालक सत्यापन देखने का प्रत्यक्ष क्षेत्र
भाग 1 स्थिर माप के लिए वाहन की स्थिति

Draft Indian Standard

AUTOMOTIVE VEHICLES — PASSENGER CARS — VERIFICATION OF DRIVER'S DIRECT FIELD OF VIEW
PART 1 VEHICLE POSITIONING FOR STATIC MEASUREMENT

ICS: 43.100

Last date for receipt of comments is 16/12/2022

Automotive Braking Systems, Vehicle Testing, Steering and performance Evaluation Sectional Committee, TED 4

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Automotive Vehicles, Testing and Performance Evaluation Sectional Committee had been approved by the Transport Engineering Division Council.

This standard is in entire agreement with ISO 7397-1: 1993 'Passenger cars - Verification of driver's direct field of view: Part 1 Vehicle positioning for static measurement. Reference has also been made to EEC directive 77/649 Field of vision of motor vehicle drivers.

The composition of the Committee responsible for the formulation of this standard is given at **Annex A (will be added later)**

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Draft Indian Standard

AUTOMOTIVE VEHICLES — PASSENGER CARS — VERIFICATION OF DRIVER'S DIRECT FIELD OF VIEW PART 1 VEHICLE POSITIONING FOR STATIC MEASUREMENT

1 SCOPE

This standard (Part 1) prescribes the initial procedure for positioning of a passenger car relative to a three-dimensional reference system for the purposes of static measurements on the vehicle.

It enables verification of the driver's forward 180° field of view which is dealt with in IS 14346 (Part 2): 1996. However, the procedure shown may also be followed for checking other aspects of vehicle design.

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	*Title*
IS 14346 (Part 2) : 1996	Automotive vehicles Passenger cars - Verification of driver's direct field of view: Part 2 Test method is necessary adjunct to this standard.

3 DEFINITIONS

For the purpose of this standard the following definitions shall apply.

3.1 Fiducial Marks

Three or more physical points (holes, surfaces, marks or indentations), on the vehicle body, as defined by the manufacturer.

NOTES —

1) The fiducial marks are related to the three-dimensional reference system; and
2) Fiducial marks are sometimes referred to as 'primary reference marks'.

3.2 Direct Field of View

View capable of being seen by the driver without the aid of mirrors.

4 VEHICLE POSITIONING FOR STATIC MEASUREMENT

4.1 Equipment

Facilities for locating and securing the vehicle in space relative to a three-dimensional reference system tern are necessary, an example of such a system is:

a) A hard, flat, level test surface large enough to contain the vehicle the test equipment and the means of supporting the vehicle, for example, jacks; and

b) A three-dimensional system oriented to the test surface.

4.2 Positioning Vehicle

Position the vehicle relative to the three-dimensional system such that the fiducial marks defined by the manufacturer are aligned to ground dimensions for the vehicle attitude relevant to the static measurement envisaged.

ANNEX A
(*Foreword*)

COMMITTEE COMPOSITION

AUTOMOTIVE BRAKING SYSTEMS, VEHICLE TESTING, STEERING AND PERFORMANCE EVALUATION SECTIONAL COMMITTEE, TED 4

(Will be added later)