

BUREAU OF INDIAN STANDARDS

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(आइ एस 9821 का पहला पुनरीक्षण)

Draft Indian Standard

FARM TRANSPORT EQUIPMENT – GLOSSARY

(First Revision of IS 9821)

ICS 65.060.10

Agricultural Machinery and
Equipment Sectional Committee,
FAD 11

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FOREWORD

(Formal clause will be added later)

With the increase usage and manufacturing of transport equipments in the farm, a need was felt to come up with a glossary of terms to provide authentic definition of various terms associated with this equipment. This standard was published in 1981. The first revision of the standard has been undertaken to incorporate necessary editorial corrections and to bring it in the latest style and format of Indian Standards.

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 a 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

FARM TRANSPORT EQUIPMENT — GLOSSARY

(First Revision of IS 9821)

1 SCOPE

This standard covers the definitions of various terms used in relation to farm transport equipment.

2 GENERAL TERM

2.1 Farm Transport — The process of carrying agricultural produce, articles and inputs for production and/or marketing.

3 TRACTOR TRAILER

3.1 Agricultural Trailer — A transport vehicle used for carrying articles and which according to its design is suited and intended for being coupled to an agricultural tractor.

3.1.1 Trailer Breaking Device — A combination of parts whose function is to reduce the speed of the trailer or to bring it to a halt or to keep it stationary if already halted. The device may consist of control, transmission and brakes themselves.

3.1.1.1 Over-run braking device — A braking device in which the energy needed to produce the, braking force is generated by movement of the towed vehicle towards the towing machine.

3.1.1.2 Parking braking device — Assembly of parts by means of which the trailer can be maintained at rest even on a slope and in the absence of the driver.

3.1.1.3 Service braking device — A device whose function is to reduce the speed of a moving trailer and to bring it to a halt.

3.1.2 Trailer Component

3.1.2.1 Tow eye — The hitching point of the drawbar of trailer which is attached to the towing tractor hitch point.

3.1.3 Trailer Dimensions

3.1.3.1 Ground clearance — The height of the lowest point of the trailer from a level supporting surface, the trailer being loaded to its pay load and tyres inflated to the recommended pressure.

3.1.3.2 Wheel base — The horizontal distance between front and rear wheels measured at the centre of ground contact.

NOTE — In case of trailers with more than two axles, the wheel bases between consecutive wheels is measured from the foremost to the rearmost wheel. The total wheel base for right or left is the sum of these distances.

3.1.3.3 Wheel track — The distance between the median planes of wheels on the same axle of the trailer measured at the point of ground contact. Where there are twin wheels, the track is the distance between two planes each being the median plane of the pair of the wheels.

NOTE — The median plane of the wheel is equidistant from the two planes containing the periphery of the rims at their outer edges.

3.1.4 Trailer Load and Mass

3.1.4.1 Axle load — The technically permissible axle load for each axle stated by the manufacturer.

3.1.4.2 Gross load — The sum of pay load and unladen mass of the trailer.

3.1.4.3 Pay load — The uniformly distributed maximum safe load which can be transported by the trailer.

3.1.4.4 Unladen mass — The mass of the trailer with all its usual fittings but without any load on it.

3.1.5 Trailer Type

3.1.5.1 Balanced trailer — An agricultural trailer whose total load is supported by its wheels when detached from the towing tractor. This is a double or multiple axle trailer.

3.1.5.2 Fixed platform trailer — An agricultural trailer in which the platform is fixed with the chassis.

3.1.5.3 Semi trailer — An agricultural trailer which while in use transfers a part of its total load on the towing tractor and carries the rest of the load in its axle(s).

3.1.5.4 Tipping-platform trailer — An agricultural trailer in which the platform can be tilted.

4 ANIMAL-DRAWN VEHICLES

4.1 Animal-Drawn Vehicle — A loading platform fitted with at least two wheels and pulled by animals.

4.1.1 Pneumatic-Wheel Vehicle — Animal drawn vehicles having pneumatic wheels.

4.1.2 Wooden Wheel — Animal drawn vehicles made of wooden wheels.