

IS 11082: 2024 Agricultural Tractors for Use in Wet Land Cultivation — Technical Requirements (*First Revision*)

Wet land cultivation, popularly known as puddling, is an important tillage operation in cultivation of transplanted paddy. The agricultural tractors are increasingly used for wet land cultivation and the success of mechanized paddy cultivation with these tractors depends upon efficiency of waterproofing functions of critical assemblies. This standard was published in 1984 under the title ‘Agricultural tractors for wet land cultivation — Technical requirements’ to provide guidance to the manufacturers as well as users.

The revision of this standard incorporates water proofing test to measure the suitability of tractor for wetland cultivation. Apart from this, the standard has been brought out in the latest style and format of Indian Standards and reference of the Indian Standards wherever applicable have been updated.

In revision of this standard, assistance has been derived from OECD Code 2 ‘OECD standard code for the official testing of agricultural and forestry tractor performance’.

IS 16672 (Part 2): 2024 Refrigerated Display Cabinets Part 2 Classification, Requirements and Test Conditions (ISO 23953-2 : 2015, MOD) (*First Revision*)

This standard aligns with ISO 23953-2:2015, focusing on refrigerated display cabinets. This standard outlines the classification, requirements, and test conditions for refrigerated display cabinets used in retail food sales, excluding vending machines, catering storage, or non-retail applications. It includes details on construction, materials, thermal insulation, refrigerating systems, and operational characteristics.

The requirements ensure durability, proper insulation, and adherence to safety and energy efficiency. Specifications also include mandatory testing for temperature control, defrosting, energy consumption, and condensation resistance. Testing protocols are specified for stable operational conditions and precise measurements using calibrated instruments.

The standard incorporates modifications for Indian conditions while ensuring equivalence with international practices. It supersedes IS 1474:1959 and complements Part 1, which focuses on vocabulary. Compliance aids in achieving optimal performance, sustainability, and food safety in refrigerated retail environments.

IS 11538 : 2024 Design and Installation of Farm Drainage Pumping Plants — Code of Practice (*First Revision*)

This standard was first published in 1986 to provide principles and practices useful to engineers in the planning and design of pumping plants for drainage of farmland. In preparation of this standard, assistance was taken from ASAE EP 369-1974 ‘Design of agricultural drainage pumping plants,’ issued by the American Society of Agricultural Engineers, USA.

The revision of this standard has been brought out to update the standard with current technological practices. The following major modifications have been made:

- a) Different types of pumps which may be used in the pumping plants have been incorporated;
- b) For safe and efficient working of pumping plant, guidelines for usage of sensors and automatic shutoff mechanism along with methods of flow measurement have been added;
- c) Record keeping for operation and maintenance of pumping plant has also been added; and
- d) Necessary editorial changes have been made including updating of referred Indian Standards and schematic diagrams given in the standard.

In revising the standard considerable assistance has been derived from the inputs provided by Punjab Agricultural University, Ludhiana.