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BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

भारतीय मानक **मसौदा**

भवन निर्माण मशीनरी और उपकरण — कंक्रीट पम्प्स

भाग 1 वाणिज्यिक विशिष्टि

(पहला पुनरीक्षण)

(ISO 21573-1 का *अधिग्रहण*)

Draft *Indian Standard*

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT — CONCRETE PUMPS

PART 1 COMMERCIAL SPECIFICATIONS

(First Revision)

(*Adoption* of ISO 21573-1)

ICS 91.220; 01.040.91

Construction Plant and Machinery Sectional Committee, MED 18	Last date of receipt of comment: **27 June 2025**

NATIONAL FOREWORD
(*Adoption clause will be added later*)

This standard was originally published in 2018 and was identical with ISO 21573-1 : 2014 'Building contruction machinery and equipment — Concrete pumps: Part 1 Terminology and commercial specifications'. The first revision of this standard has been undertaken to align it with the latest version of ISO 21573-1 : 2024.

This standard is published in two parts. Other part of this series is:

Part 2 Procedure for Examination of Technical Parameters

The following major modifications have been incorporated in this revision of the standard:

a) In Clause 3:
   1) The definition for “maximum theoretical pumping output” has been updated;
   2) The definitions for the following terms have been added:
      i) Maximum delivery pressure;
      ii) Outrigger span;

b) In Table 1, the new classification “drive system” with the following sub-items has been added:
   1) Fuel engine driven;
   2) Electric power driven;
   3) Hybrid power driven;

c) In Table 1, the new type “crawler” with sub-item "crawler pump" has been added in the “Mode or frequency of transportation” row;

d) In Table 1, the new classification “Type of piston-type concrete pump valve system” with the following sub-items has been added:
   1) Swing valve;
   2) Gate valve;

e) In Clause 5, the following subclauses have been updated to match the content in ISO 21573-2:
   1) General characteristics (5.1);
   2) Dimensional characteristics (5.4);
   3) Distributing boom (5.6);
   4) Outrigger components (5.7);

f) In Annex A, Figure A.15 has been added.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standard. Attention is particularly drawn to the following:

a) Wherever the words ‘International Standard’ appear, referring to this standard, they should be read as ‘Indian Standard’.

b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standard for which Indian Standard also exist. The corresponding Indian Standard, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 11375 : 1998 Building construction machinery and equipment — Terms and definitions	IS/ISO 11375 : 1998 Building construction machinery and equipment — Terms and definitions	Identical under single numbering
ISO 21573-2 : 2020 Building construction machinery and equipment — Concrete pumps — Part 2: Procedure for examination of technical parameters	IS/ISO 21573 (Part 2) : 2020 Building construction machinery and equipment — Concrete pumps: Part 2 Procedure for examination of technical parameters (*first revision*)	Identical under single numbering

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.

NOTE: The technical content of the document has not been enclosed as these are identical with the corresponding ISO standard. For details, please refer the corresponding **ISO 21573-1 : 2024** or kindly contact:

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