

BUREAU OF INDIAN STANDARDS
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मसौदा भारतीय मानक
सूचना प्रौद्योगिकी — कृत्रिम बुद्धिमत्ता (एआई) —
एआई प्रणालियों के पर्यावरणीय संधारणीयता (सस्टेनेबिलिटी) पहलू

Draft Indian Standard
Information technology —
Artificial intelligence (AI) —
Environmental sustainability aspects of AI systems

ICS 35.020

Artificial Intelligence Sectional Committee,
LITD 30

Last Date for Comments: 30 Nov 2025

NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard which is identical to “ISO/IEC TR 20226: 2025 Information technology — Artificial intelligence — Environmental sustainability aspects of AI systems” issued by the International Organization Standardization (ISO) and International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards (BIS) on the recommendations of Artificial Intelligence Sectional Committee and approval of the Electronics and Information Technology Division Council.

The text of ISO/IEC Standard may be approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. 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’, and
- 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 Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standards	Corresponding Indian Standard	Degree of Equivalence
ISO/IEC 22989: 2022, Information technology — Artificial intelligence — Artificial intelligence concepts and terminology	IS/ISO/IEC 22989: 2022 Information technology — Artificial intelligence — Artificial intelligence concepts and terminology	Identical with ISO/IEC 22989: 2022

Scope of ISO/IEC 20226: 2025 is as follows:

“This document provides an overview of the environmental sustainability aspects (e.g. workload, resource and asset utilization, carbon impact, pollution, waste, transportation, location) of AI systems during their life cycle, and related potential metrics.

NOTE 1 This document does not identify opportunities on how AI, AI applications and AI systems can improve environmental, social or economic sustainability outcomes.

NOTE 2 This document can help other projects related to AI system environmental sustainability.”

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details please refer to ISO/IEC TR 20226:2025 or kindly contact

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