

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

पर्यावरण प्रबंधन — जीवन चक्र आकलन — सामान्यीकरण, भार और
व्याख्या के लिए सिद्धांत, अपेक्षाएं और दिशा-निर्देश

Draft Indian Standard

**ENVIRONMENTAL MANAGEMENT — LIFE CYCLE
ASSESSMENT — PRINCIPLES, REQUIREMENTS AND
GUIDELINES FOR NORMALIZATION, WEIGHTING AND
INTERPRETATION**

ICS 13.020.10, 13.020.60

Environmental Management Sectional Committee, CHD 34

Last date for Comments: 01 July 2024

NATIONAL FOREWORD

(Formal clause will be added later)

This standard specifies principles, requirements and guidelines for normalization, weighting and life cycle interpretation, in addition to those given in IS/ISO 14040 and IS/ISO 14044.

Normalization and weighting are optional elements of life cycle impact assessment (LCIA). These elements can support the interpretation of the assessed life cycle impact category indicator results, also known as the “LCIA profile”.

The Standard is applicable to any life cycle assessment (LCA) and footprint quantification study.

In particular, this document addresses:

- The use of normalization and its limitations;
- The use of weighting and its limitations;

- The selection or development of weighting factors;
- The generation of single scores;
- Requirements that relate to documentation and reporting.

This Standard does not specify the composition of panels for weighting nor does it specify multi-criteria decision analysis.

This Standard does not intend to recommend or require a specific weighting approach or method or any priority of one weighting approach or method over another as they are based on value choices. Organizations have the flexibility to implement LCA in accordance with the intended application and the requirements of the organization.

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

- a) Wherever the words 'International Standard' appears 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 Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalent for editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 14040 Environment management — Life cycle assessment — Principle and framework	IS/ISO 14040: 2006 Environmental management — Life cycle assessment — Principles and framework (First Revision)	Identical under single numbering
ISO 14044 Environment management — Life cycle assessment — Requirements and guidelines	IS/ISO 14044: 2006 Environmental management — Life cycle assessment — Requirements and guidelines	Identical under single numbering