

**BUREAU OF INDIAN STANDARDS**  
**DRAFT FOR COMMENTS ONLY**

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*Draft Indian Standard*

**MARINE ENERGY – WAVE, TIDAL AND OTHER WATER CURRENT CONVERTERS**  
**Part 10 : Assessment of mooring system for marine energy converters (MECS)**  
(ICS 27.140)

Marine Energy Conversion Systems  
Sectional Committee, ETD 54

Last date for Comments – 02/03/2024

**FOREWORD**

(Formal clauses will be added later)

This Draft Standard which is identical with IEC 62600-10-2021 ‘Marine Energy – wave tidal and other water current converters Part 10 : Assessment of mooring system for marine energy converters (MECS)’ issued by the International Electrotechnical Commission (IEC) is proposed to be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Installation Sectional Committee and approval of the Electrotechnical Division Council.

The text of the IEC 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.

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
IEC TS 62600-1: 2020	Marine energy – Wave, tidal and other water current converters – Part 1: Vocabulary
IEC TS 62600-2:2019	Marine energy - Wave, tidal and other water current converters - Part 2: Marine energy systems - Design requirements
IEC TS 62600-4:2020	Marine energy – Wave, tidal and other water current converters – Part 4: Specification for establishing qualification of new technology

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, 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.

## Scope

The purpose of this standard is to provide uniform methodologies for the design and assessment of mooring systems for floating Marine Energy Converters (MECs) (as defined in the TC 114 scope). It is intended to be applied at various stages, from mooring system assessment to design, installation and maintenance of floating Marine Energy Converters plants.

This standard is applicable to mooring systems for floating Marine Energy Converters units of any size or type in any open water conditions. Some aspects of the mooring system design process are more detailed in existing and well-established mooring standards. The intent of this document is to highlight the different requirements of Marine Energy Converters and not duplicate existing standards or processes.

While requirements for anchor holding capacity are indicated, detailed geotechnical analysis and design of anchors are beyond the scope of this document.

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Note — The technical content of their document has not been enclosed as there are identical with the corresponding IEC standards for details, please refer the corresponding IEC 62600-10-2021 or kindly contact:

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