

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

Not to be reproduced without permission of BIS or use as Standard

Doc No.: PGD 13 (24941) WC

February 2024

भारतीय मानक मसौदा

**यांत्रिक कंपन — सक्रिय चुंबकीय बियरिंग्स वाली घूर्णन मशीनरी का कंपन —
भाग 4 तकनीकी दिशानिर्देश**

Draft Indian Standard

**Mechanical Vibration — Vibration of Rotating Machinery
Equipped with Active Magnetic Bearings —
Part 4 Technical Guidelines**

ICS 17.160

Bearings Sectional Committee, PGD 13

Last date for Comment: 30/04/2024

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 14839-4 : 2012 ‘Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings — Part 4 Technical guidelines’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Bearings Sectional Committee and approval of the Production and General Engineering Division Council.

Other parts in this series are:

- Part 1 Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings — Part 1 Vocabulary
- Part 2 Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings — Part 2 Evaluation of vibration
- Part 3 Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings — Part 3 Evaluation of stability margin
- Part 5 Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings — Part 5 Touch Down Bearings

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’ 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 the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 1940-1 Mechanical vibration — Balance quality requirements for rotors in a constant (rigid) state — Part 1: Specification and verification of balance tolerances	IS/ISO 21940-11 : 2016 Mechanical vibration — Rotor balancing: Part 11 procedures and tolerances for rotors with rigid behaviour	Identical
ISO 14839-1 Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings Part 1: Vocabulary	Doc. No. PGD 13 (24932) Mechanical vibration — Vibration of rotating machinery equipped with active magnetic bearings: Part 1 Vocabulary	Identical

**Doc No.: PGD 13 (24941) WC
February 2024**

For more information or copy of ISO standard please write to us at pgd@bis.gov.in