



Indian Register of Shipping

CERTIFICATE NO: 2023TAC062

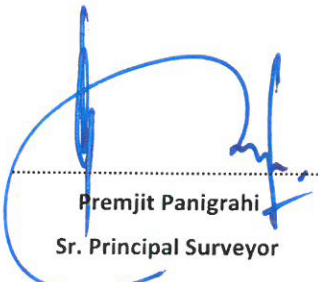
TYPE APPROVAL CERTIFICATE

*This is to certify that the product is in accordance with the applicable rules/standards/codes as described below. The product is considered to be suitable for use in marine applications and is **retained** in the list of approved products.*

MANUFACTURER	Trelleborg Sealing Solutions
REGISTERED OFFICE & WORKS	Bradmarsh Business Park, S60 1BX Rotherham, United Kingdom
PRODUCT NAME	MARINE BEARINGS
MODEL NO. / TRADE NAME	ORKOT TLM MARINE
PRODUCT DESCRIPTION	Synthetic Bearing Material for use in 1. Rudder stock and pintle bearings 2. Water lubricated stern tube bearing with a length to diameter ratio of not less than 2:1
APPLICABLE RULES/STANDARDS/CODES	IRS Rules and Regulations for the Construction and Classification of Steel Ships
CONDITIONS OF APPROVAL	See Annexure
VALIDITY	The Certificate is valid until 01/09/2028

ISSUE DATE: 23/08/2023

PLACE: MUMBAI


Premjit Panigrahi
Sr. Principal Surveyor

Previous Certificate No : 2018TAC057 dated : 20/08/2018

This Certificate is issued upon the following terms and conditions as laid down in the Society's Regulations:-

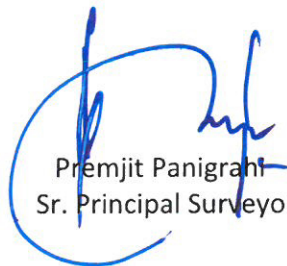
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ANNEXURE
TO CERT. NO. 2023TAC062 DATED 23RD AUGUST 2023
TERMS AND CONDITIONS

This approval is subject to following:

- 1) The properties of the materials used are to comply with the values as specified in Orkot "TLM Marine" Engineering manual and the product information brochure forming the basis of approval. Any changes there to is to be communicated to IRS.
- 2) The installation of the bearings is to be in accordance with the manufacturer's instructions, IRS Rules and to the satisfaction of the attending surveyor.
- 3) The nominal bearing pressure is not to exceed the following:
 - a) for stern tube bearing - 0.55 N/mm²
 - b) for rudder stock and pintle bearing - 5.5 N/mm² (Steel against synthetic material with no lubrication)
 - c) for rudder stock and pintle bearing - 10 N/mm² (Steel against synthetic material with water or grease/oil lubrication)
- 4) Satisfactory in-service performance of the bearing.


Premjit Panigrahi
Sr. Principal Surveyor