Certificate No: LR26245764TA
Issue Date: 19/04/2026
Expiry Date: 18/04/2031

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**DHMC Co Ltd**
Address	190 Yongang-ro Samho-eup Yeongam-gun, Jeollanam-do, 58453, South Korea
Type	Emergency Towing Systems
Description	Emergency Towing System and Single Point Mooring
Trade Name	SPM 5000-DHF & SPM 7000-DHF
Application	**SPM 5000-DHF** For emergency towing system : appropriate for tankers of 50,000 tonnes DWT and over For single point mooring : appropriate for tankers of over 100,000 tonnes DWT but not greater than 150,000 tons DWT (approx. 120,000 – 175,000 displacement) **SPM 7000-DHF** For emergency towing system : appropriate for tankers of 50,000 tonnes DWT and over For single point mooring : appropriate for tankers of over 150,000 tonnes DWT (approx. 175,000

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Jayakrishnan Harikumar
Mumbai SST - Specialist to Lloyd's Register Marine and Offshore India LLP
A member of the Lloyd's Register group

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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displacement)

Specified Standard

- IMO Resolution MSC 35(63)
- OCIMF Mooring Equipment Guidelines (MEG4) – Fourth Edition 2018
- Recommendations for Equipment Employed in the Bow Mooring of Conventional Tankers at Single Point Moorings (Fourth Edition May 2007)
- Part3, Chapter 13, Section 11 of Lloyd's Register's Rules and Regulations for the Classification of Ships (July 2020)

Ratings

SPM5000-DHF
For emergency towing system :
Minimum Safe Working Load (SWL) : 2,000kN (204 tonnes-f)
For single point mooring :
Minimum Safe Working Load (SWL) : 250 tonnes-f
Safety factor: min 2.0 SWL on the yield
Yield strength :
Bow chain stopper pawl/chain guide: min. 275 N/mm^2 (SCW480)
Bow chain stopper frame: min. 295 N/mm^2 (SM490A)
Bow chain stopper shaft: min. 834 N/mm^2 (SCM440)

SPM7000-DHF
For emergency towing system :
Minimum Safe Working Load (SWL) : 2,000kN (204 tonnes-f)
For single point mooring :
Minimum Safe Working Load (SWL) : 350 tonnes-f
Safety factor: min 2.0 SWL on the yield
Yield strength :
Bow chain stopper pawl/chain guide: min. 275 N/mm^2 (SCW480)
Bow chain stopper frame/pawl: min. 295 N/mm^2 (SM490A)
Bow chain stopper shaft: min. 834 N/mm^2(SCM440)

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Other Conditions

Where intended to be installed in a ship classed or intended to be classed with Lloyd's Register (LR), the following conditions are applicable:-

- Pennant, chaffing chains and their associated fittings should be manufactured and tested in accordance with the requirements of Chapter 10 of the Rules for the Manufacture, Testing and Certification of Materials.
- Emergency towing system and single point mooring are to be installed onboard the ship to the attending LR surveyor's satisfaction.
- This approval relates to the emergency towing system and single mooring only. Attachment to the ship structure should comply with the requirements of the Rules and Regulations for the Classification of Ships.
- With respect to single point mooring, the designs of the bow chain stoppers for SPM5000-DHF & SPM7000-DHF are found in compliance with LR Ship Rules, Part3, Chapter 13, Section 8.4.1 for Class notation SPM4 or DSPM4 specifying SWL, yield strength and safety factors and the bow fairleads for SPM5000-DHF & SPM7000-DHF are found incompliance with LR Ship Rules, Part3, Chapter 13, Section 8.4.1 for Class notation SPM4 or DSPM4 specifying SWL and safety factors.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21231507TA

The Design Appraisal Document LR26245764TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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