Certificate No: LR25426020AS
Issue Date: 22/12/2025
Expiry Date: 21/12/2028

Lloyd's Register Approved Service Supplier

Supplier	**HANWHA OCEAN CO., LTD.**
Address	3370 Geoje-daero, Geoje-si, 53302, South Korea
Contact Details	E-mail: jhkim3314@hanwha.com
Contact Number	Tel: +82(0)55 735 5988

The above company having been assessed hereby receives approval in accordance with the requirements of Lloyd's Register Procedures for Approval of Service Suppliers as Supplier from the address(es) listed above for the provision of

Measurements for Determination of a Vessel's Underwater Radiated Noise

Remark:

To enhance measurement accuracy and quality, following measures are suggested:

- Extended Frequency Range: Measurements to include the 10 Hz 1/3-octave band for future assessments.
- Reporting Compliance: Service Suppliers are required to report data in accordance with Section 5 of our ShipRight procedure.
- Transmission Loss Correction: Please be advised that future versions of the LR procedure will reference ISO 17208-3 (released September 2025) for shallow water measurements. this standard specifies use of the SSCI method for calculating propagation losses.

This approval is conditional upon the Supplier maintaining the documented scheme as audited by any member of the Lloyd's Register Group and hereby approved; and notifying Lloyd's Register in writing of any change to that scheme including any change in personnel, equipment or procedures. This certificate is issued to the Supplier and, subject to the Supplier complying with the necessary conditions, is valid to the date referred to above.

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Jae-Eun Jung

Lead Surveyor to Lloyd's Register Asia
A member of the Lloyd's Register group

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