Certificate No: LR2407516TA
Issue Date: 06/02/2024
Expiry Date: 05/02/2029

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	**HGTEK CO., Ltd.**
Address	76-6 Okcheon-ro Saha-gu, Busan, 49367, South Korea
Place of Production	HGTEK CO., Ltd. 76-6 Okcheon-ro Saha-gu, Busan, 49367, South Korea
Type	Washwater Monitoring System
Description	Sox Scrubber Water Monitoring System
Trade Name	HGWMS-1000
Application	Marine and offshore applications for use in environmental category ENV2 in the “General Power Distribution Zones” as defined in LR Type Approval System Test Specification No. 1-2021 where the Test Specifications satisfactory for the intended operation.
Specified Standard	Manufacture design specification, MEPC.340(77),Ch. 10.2 “Discharge water monitoring”
Ratings	refer to Appendix

Downloaded Copy

Gyung-Hwan Lee

Electrical & Control - Lead Specialist to
Lloyd's Register Asia
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

Additional Tests	Ingress Protection (IP44)
Other Conditions	Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rule and Regulations. If he specified standards are amend during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standard apply. (in case of applications other than marine) The application of the type approval certificate will be limited to the relevant scope of the specified standard and acceptance thereof by the local authorities.

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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2407516TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.