Certificate No: LR25167254TA
Issue Date: 11/06/2025
Expiry Date: 10/06/2030

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	**Shanghai Rongde Engineering Equipment Co., Ltd.**
Address	Room 1401, No.1 - 1695, Pudong Avenue, Shanghai, 200135, China
Place of Production	Shanghai Rongde Engineering Equipment Co., Ltd No. 268, Yangyue Road, Nanqiao Town, Fengxian District, Shanghai City, 201499, China
Type	Fire And Gas Detection Alarm And Control Systems
Description	Fire Alarm and Control Unit for RDFF Fixed Water-based Local Application Fire-Firefighting System Comprising of: - Main alarm panel: FAC-MCP Flame detectorRDFD-100 Local control box: FAC-LCB Manual operation panel: FAC-MOP Extension indication panel: FAC-EIP Visual and audible alarm device: FAC-LAD
Trade Name	RDFF-FAC
Application	Marine and offshore applications for use in environmental categories ENV2 on “bridge and deck zones”, as defined in LR Type Approval Test Specification No.1 July 2024, where the test specification is satisfactory for the intended operation.

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Ashwinikumar Mhamal

Electrical & Control Technical Manager - Africa, Middle East & India to Lloyd's Register Marine and Offshore India LLP

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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Specified Standard EN54-2, EN54-4, EN54-10
Manufacture's technical specification Doc. No.: 2410-201

Ratings Power supply:
Main supply: 220V AC/50Hz.
Back up supply: 24VDC

Other Conditions It is to be noted that any smoke detector is not included in this Type Approval Certificate although the manufacture's specification and test report mentioned smoke detector types" ORBIS-OP-42003" and "JTY-LZ-882".

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: LR2004245TA-02

The Design Appraisal Document TSO-25-030697-E-02 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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