Certificate No: LR26434323LCS
Issue Date: 08/09/2026
Expiry Date: 07/09/2029

Certificate of General Approval

This is to certify that the undernoted Loading Computer Software has been examined in accordance with the relevant Classification Rules and Procedures, and the applicable Statutory Regulations and is approved for the functions stated below and detailed on the Supplement attached hereto.

Company	**21 Knots Design & Consulting Pvt Ltd**
Address	,Kolshet Road, Unit no 1101, Lodha Supremus, B Wing, Lodha Business Park II, Thane, 400607, India
Software Name	21 Knots
Software ID/Version Number	1.8
Minimum Hardware Specifications	Processor: Intel® Xeon® CPU, 2.40 GHz or above RAM: 4 GB or above
Operating System	Microsoft Windows 7 or above
User's Operations Manual ID	-
Approved Functions	☒ Strength ☐ IACS UR L 5 Type 1 - Intact Stability ☐ IACS UR L 5 Type 2 - Damage Stability (Limiting Curves) ☐ IACS UR L 5 Type 3 - Damage Stability (Direct Calculaltions) ☐ IACS UR L 5 Type 4 - Damage Stability (Safe Return to Port)
Strength Design Appraisal Document	TSO-24-020200-H-02
Stability Design Appraisal Document	-

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Des Fong

Ship Structure - Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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

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Supplement

Strength Features

Bulkhead Shear Force Correction Factors – Ship rules	Yes
Bulkhead Shear Force Correction Factors - CSR Before 1st July 2015	No
Bulkhead Shear Force Correction Factors - CSR From 1st July 2015	No
Permissible Cargo Torque	No
Strength With Any Single Hold Flooded (URS17)	Yes
Local Double Bottom Strength (URS1A)	Yes
Permissible Shear Forces and Bending moments	Single & Multiple

Intact Stability Features

Hydrostatic Data	No
Tank capacity Data	No
Cross curve Data	No
Down-flooding Data	No
General Criteria Check	No
Weather Criteria	No
Windage Data	No
Timber Criteria Check	No
Timber Cargo Water Absorption	No
Ice Accumulation	No
Inland Waterways (ADN) (1)	No
Free Surface Moment calculation	No
GZ Curve Calculation	No
Free Surface Select Options for Each Tank	No
Grain Stability	No
Limiting KG/GM Curves	No

Damage Stability Features

Limiting KG/GM Curves	No
Direct Calculations	No
Operational Information for Safe Return to Port	No

(1) Type C Tank Ships, Tank Width > 0.7B
(2) Applicable to Type 3 functionality only

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