

APPROVAL OF SERVICE SUPPLIERS

This is to certify that

GREEN OCEAN TECHNOLOGY AND SERVICE COMPANY (GOTCO)

Ho Chi Minh City, Viet Nam

is granted acceptance for

Maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear , in accordance with Class Programme DNV-CP-0484 and IACS UR Z17 Annex 1 [13].

This service supplier certificate will be accepted for use with all rule sets published by DNV.
See the following page(s) for details regarding application.

This Certificate is valid from **2023-06-06** to (inclusive) **2026-06-05**.

This Certificate is issued on **2023-06-06**.



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signatures

Le, Quang Vinh
Surveyor

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Application:

Maker authorizations	Type of Equipment	Model
DUC THINH MARINE MECHANIC CO., LTD		All types of Lifeboat and Davit
DINH DO SHIPBUILDING EQUIPMENT AND TRADING JOINT STOCK COMPANY		All types of Davit
JIANGYIN WOLONG F.R.P BOAT CO., LTD	Totally Enclosed Lifeboat	- JY50C/F, JY50CA/FA, JY57C/F, JY60C/E/F, JY65C/F, JY70C/F, JY80C/F, JY80CA/FA, JY85C/F, JY85CA/FA, JY85CB/FB, JY93C/F, JY102/F, JY117C/F
	Free Fall Lifeboat	- JY49CF/FF, JY59CF/FF, JY67CF/FF, JY85CF/FF, JY109CF/FF
	Rescue Boat	- JY40KR, JY42KR, JY45DR, JY45KR, JY50R, JY54KR, JY60KR, JY65KR, JY75KR, JY85KR
	Partially Enclosed Lifeboat:	- JY70P, JY80P, JY85P
	Open Type Lifeboat:	- JY45KR, JY55K, JY65K, JY70K, JY75K, JY80K, JY85K
	Gravity Luffing Arm Type Davit:	- JY-LE65, JY-LE85, JY-LE100, JY-LE150
	Launching Appliance of Free-fall Lifeboat Davit	- JY-FH55, JY-FH70, JY-FH90, JY-FH155
	Platform Davit	- JY-PL70, JY-PL110, JY-PL150, JY-PL185, JY-PL215
	Single Arm Boat/ Raft Davit	- JY-SAF21, JY-SAF23, JY-SA23S, JY-SA37S, JY-SR33S, JY-SAF33, JY-HSR23/16, JY-HSR33/23, JY-FCR2066, JY-FCR2305
	Rescue Boat Davit:	- JY-PLR21, JY-LFR27, JY-LRHE30, JY-LRHE70, JY-LFR35, JY-SAP14, JY-SAP30

Maker authorizations	Type of Equipment	Model
	Gravity Overhead Rolling Type Davit	- JY-HE70, JY-HE95, JY-HE120, JY-HE155
	Telescopic Boom-Type Davit:	- JY-TBD 120, JY-TBD 215, JY-TBD35
	Hydraulic Luffing Arm Type Davit	- JY-GYE70, JY-GYE120, JY-GYE185
	Connecting Rod Type Davit:	- JY-GL70, JY-GL95, JY-GL120, JY-GL185
	Winch:	- JY-SAP14, JY-D23Z, JY-D23/16Z, JY-SAFC23, JY-D33/23Z, JY-SAF33, JY-LRHE30, JY-PLR21, JY-LFR27, JY-LRHE70, JY-D50S/Z, JY-D70S/Z, JY-D85S/Z, JY-D110S/Z, JY-DW125S, JY-DP110S/Z, JY-DP150/Z, JY-DP185, JY-DP215
BINH AN COLLECTIVE ENTERPRISE	Rescue Boat	- BA-XCC06
	Rescue Boat Launching Appliance	- BA-CXCC06
	Totally Enclosed Lifeboat - Rescue Boat	- BA-XCS28
	Lifeboat Launching Appliance	- CX-BA28A
	Lifeboat - Rescue Boat Launching Appliance	- CX-BA28B
QINGDAO BEIHAI BOATBUILDING BRANCH	Totally Enclosed Lifeboat	- BH-5,5A,5S,5SA, E500, E585,6,6A,6S, E670,7A,7B,8
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO., LTD	Free Fall Lifeboat	- BH-F6.0, F7.0A, F7.8, F8.1, F5.8, F6.8, F660, F670, F750, F900A

Maker authorizations	Type of Equipment	Model
	Rescue Boat	- BH-R4, R4S, R4SA, R5S
	Gravity Pivot Davit	- BD-PV50, PV60, PV60S, PV85, PV125
	Freefall launching Davit	- BD-FF55, 55A, 55R, FF80, 80A, 80R, 80B, FF65/66/67, FF85
	Single Arm Davit	- BD-SA14, 14A, 14B, SA21, 21A, SA23, SA30, 30A, SA33, SH23
	Winch	- BW-H(L/R)31, 50, 63,75; L(L/R)75,125; SC14; 21, YSB20-120
	Gravity Lifeboat Release Mechanism	- BG-3,3L, BG-7; BH-HOOK3, HOOK5, FS5, FS7
	Freefall Lifeboat Release Mechanism	- BG-3.5F, 4F, 4.5F, 4.5FL, 5F, 6F
	Rescue Boat Release Mechanism	- BG-2R, 15KNXS, 25KNXS, 35KNXS
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD	Free fall lifeboat	- JY-FN-4.9/JY-FF-4.9/JY-FN-5.8/JY-FF-5.8 JYM-FN-6.65/JYM-FF-6.65/JY-FN-6.8/JY-FF-6.8 JY-FN-7.5/JY-FF-7.5/ JY-FN-8.5/JY-FF-8.5/JY-FN/FF-9.5
	Rescue boat	- GJ4.2/GJ4.25/GJ4.5/GJ5.0/GJ5.25/GJ6.0B-1/GJ6.10 GJ7.50/GJ8.0Q-2/GJ8.5Q-2
	Totally enclosed lifeboat	- JY-QFP/N-5.0/JY-QFP/N-5.25/JY-QFP/N-5.6/JY-QFP/N-6.0A - JY-QFP/N-6.50/JY-QFP/N-7.0/JY-QFP/N-7.5/JY-QFP/N-7.50A - JY-QFP/N-8.00/JY-QFP/N-8.50/JY-QFP/N-8.50X - JY-QFP/N-9.35/JY-QFP/N-10.90A
	Hook	- JX and JXN Series

Maker authorizations	Type of Equipment	Model
	Gravity luffing arm type davit	- JYL52/JYL55/JYL65/JYL85/JYL105/JYL135
	Launching appliance	- JYF55/JYF75/JYF75-A/JYF75-B/JYF90
	Platform Davit	- JYP65/JYP85/JYP105/JYP135
	Single arm davit:	- JYR21/JYR21S-A/JYRC21/JYR14/JYRH14/JYRH21/JYR26/JYR30 JYR23
	Electric Boat Winch	- FW45/JYW42/JYW50/JYW70/JYW100/JYWP70/JYWP100 JYWP135/JYW35/JYRZ21
NINGBO ASIA R.F.P BOAT MANUFACTURING CO., LTD	Rescue Boat	- YZ4.5, YZ4.5S, YZ4.5SA, YZ60RB, YZ60RA, BJ-450
	Totally Enclosed Lifeboat/ Rescue Boat	- YZ50C, YZ50F, YZ65C, YZ65F, YZ65CS, YZ65FS, YZ75C, YZ75F
	Free Fall Lifeboat	- YZ49FC, YZ49FF, YZ59FC, YZ59FF, YZ60FC, YZ60FF, YZ675FC, YZ675FF
	Gravity Luffing Arm Davit	- L25, L50, YZL-55, L65, L65S, LE85-1
	Electrical Lifeboat/ Rescue Boat Winch	- DS25, DZ25, DS40, DS/Z40, YZD-42S, YZD-42Z, DS58, DZ58, D50S, D50Z, D63S, D63Z
	Single-Arm Rescue Boat/ Liferrafts Boat launching Appliance & Crane	- ZF21/15 DZ14, ZF21 DZ14 - ZF23/15 DZ14, ZF23 DZ14 - ZF33 DZ25, B21/14, B21/14-2.5, B21/14 21KN
	Rescue Boat Launching Appliance (Davit):	- YZ-A30D

Maker authorizations	Type of Equipment	Model
	Free-Fall Lifeboat Launching Appliance	- YZF55, YZF70
ZHENJIANG MARINE AUXILIARY MACHINERY CO., LTD		ALL TYPES of Lifeboat and Davit
VANGUARDE	<u>Lifeboat & rescue boat:</u>	- Series: VG / VG-FF/FC / KR / DB / DRS / DR4 / HLB / HLBLR / FRK / FRW
	<u>Hook (LRRS):</u>	- Series: C-SAFE / SPEARHEAD / HK / SHF
	<u>Davit:</u>	- Series: LVD / PL / A / PLR / SRH / LR / VA / VAE / VAH / VL / VL-G / VS / VF / HSD
	<u>Winch:</u>	- Series: DW/D / DW/S / SLR / DWP / HW / PRH / VWL / VW/S / VW/Z
NINGBO NEW MARINE LIFESAVING EQUIPMENT	Rescue Boat & Fast Rescue Boat	- NM43R(A), NM45R, NM45RB, NM60R
	Totally Enclosed Life / Rescue Boat	- NML50C, NM50C/F, NM57C/F, NM58C/F, NM65C/F, NM75C/F, NM85C/F, NM117C/F
	Free Fall Lifeboat	- NM52FC/NM52FF, NM59FC/FF, NM67FC/FF
	Single Arm Rescue Boat (Rafts) Davit (Crane)	- NM5D14KN, NM(S)D23KN, NM(S)D25KN, NMC25, NMC30, NM5D33KN
	Rescue Boat launching Appliance	- NMAR30(-1), NMAR60, NM30
	Gravity Luffing Arm Davit	- NMD25KN, NMD40KN, NMD45KN, NMD55KN, NMD60KN, NMD65KN, NMD85KN, NMD120KN

Maker authorizations	Type of Equipment	Model
	Launching Appliance of Free Fall Lifeboat	- NMF55KN, NMF70KN
	Platform Davit	- PD50, PD70, PD85, PD120
	Hydraulic Gravity Luffing Davit	- HLA85, HLA120, HLA 210
	Hydraulic Telescopic Davit	- HTA70, HTA120
	Electric Lifeboat/Rescue Boat Winch	- NMW42L/R, NMW50L/R, D63S/Z, D80S/Z, DW100S/Z, DW145/Z
ZHEJIANG HENGXIN SHIP EQUIPMENT CO., LTD	Lifeboat	- Series: BCC, BCF, BCFC, BCFF
	Rescue Boat	- Series: GJ, FRH, RH
	Release Mechanism	- Series: HK
	Davit	- Series: FH, SA, HDC, LFR, LR, HE, PD, SRH, LB, KN
BEN THUY SHIPYARD		All types of Davit

Remarks:

Flag approval for Service providers for Lifeboats, launching appliances and on-load release gear:

- Panama
- Liberia
- Bahamas