

CERTIFICATE OF APPROVAL OF SERVICE SUPPLIER

CERTIFICATE NO. SSU009024XV

This is to certify that

GREEN OCEAN TECHNOLOGY AND SERVICE COMPANY

183C/5P Ton That Thuyet Street, Ward 4, District 4
Ho Chi Minh VIETNAM

*Has been approved in compliance with the
RINA "RULES FOR THE CERTIFICATION OF SERVICE SUPPLIERS"
for the supply of the following services to ships and other units classed by RINA:*

- E - Servicing of inflatable liferafts, inflatable lifejackets,
hydrostatic release units, marine evacuation systems**
- N - Maintenance, thorough examination, operational testing,
overhaul and repair of lifeboats and rescue boats, launching
appliances and release gear**
- D - Inspection and maintenance of fire extinguishing equipment
and systems**
- H - Inspection and maintenance of self-contained breathing
apparatus**

Date of the audit: **24 Sep 2024**

Issued in **SINGAPORE**

on **11 Oct 2024**

This Certificate is valid from the date of the audit until

23 Sep 2027

This certificate consists of this sheet plus an attachment.



This is an electronically signed document and does not require a handwritten signature.

Kwok Leung Tommy JEN

RINA Services S.p.A.



**ATTACHMENT TO
CERTIFICATE NO. SSU009024XV**

VALIDITY CONDITIONS

E - Servicing of inflatable liferafts, inflatable lifejackets, hydrostatic release units, marine evacuation systems

For Category E the approval is granted for the following equipment and manufacturers:

1. Inflatable liferaft:

- Shanghai Haian Lifesaving Equipment Co., Ltd. Model: HAF- A; HAF- D; HAF- K; HAF-ASR; HAF-DSR
- Jiangsu Haining Marine Equipment Co., Ltd. Model: HNF-A6/8/10/12/15/16/20/25/30; HNF-CR25/30/35/40/45/50/65; HNF-D15/20/25; HNF-DSR12/15/16/20/25/37; HNF-FJ50/55; HNF-HSC6/8/10/15/25/50/65; HNF-SR6/8/10/12/15/16/20/25/30/35/37/50/65
- Shanghai Huaxiang Dacheng Rubber & Plastic Co., Ltd. Model: All types of "SDR" "Hai Yan Pai" inflatable liferaft, including "HYF" and "QJF" series.
- Shanghai Youlong Rubber Products Co.,Ltd. Model: KHA-6/8/10/12/15/16/20/25/30/35; KHZ-6/10/15/20/25/30/35/50/65/100/110/125/130; KHA-6/8/10/12/15/16/20/25/30/35/(II); KHD-12/15/16/20/25/30/35; KHZD-15/16/20/25/30/35/37; KHR-6/10/25/30/50/65/100; KHK-6/10/25/30/50/65/100/152; KHY-4/6/8/10/12; KHYJ-4/6/8/10; KHY(SR)-4/6/8/10/12
- Shanghai Cunhong Marine Lifesaving Appliance Co., Ltd. Model: All types of "Cunhong" & "Safindo" inflatable life raft, including "CHF" & "SLR" series; All types of "Tokugawa" inflatable life raft, including "DLR" series.
- Shanghai Star Rubber Products Co., Ltd. Model: RAFT-A-6(II)/10(II)/15(II)/16(II)/20(II)/25(II); RAFT-D-12(II)/16(II)/20(II)/25(II); SMLR-A-6/8/10/12/15/16/20/25/32; SMLR-A-4/6/8/10/12/16/20/25(I); SMLR-D-12/16/20/25/32; RAFT-SR-6/10/15/20/25/50/55/65; RAFT-DSR-16/20/25/32/37; RAFT-R-6/15/25/30/50/65/66/66*2/72/100; STAR-SR-6/10/15/16/20/25/32/37; STAR-DSR-16/20/25/32/37
- Ningbo Neptune Lifesaving Equipment Co., Ltd. Model: ATOB-6/8/10/12/15/16/20/25/30/35; ADL-12/15/16/20/25; ASR-6/8/10/12/15/16/20/25/30/35/50/66/100; ADLSR-12/16/20/25/32/37/39; AOR-6/10/25/30/50/65/100/152; YSR-4/6/8/10/12; YT-4/6/8/10/12; YJT-4/6/8
- Huayang (HYF) Yantai Huayang Lifesaving Equipment Manufacturing Co., Ltd. Model: HYF-A: 6/8/10/12/15/16/20/25/30/35/36/37; HYA: 6/8/10/12/15/16/20/25/30/35; HYF-D: 10/12/15/16/20/25; HY-D: 6/8/10/12/15/16/20/25; HYF-U(I): 4/6/8/10/12; HYF-U(II): 4/6/8/10; HYF-Z: 6/10/12/15/16/20/25/30/35/37/50/65/100/100p/101/125; HYF-K: 6/10/15/20/25/30/35/50/65/100
- Ningbo Haifeng Lifesaving Appliance Manufacturing Co., Ltd. Model: A6,A10,A15,A20,A25,D12,D16,D20,D25,U6,U8,U10,U12,Z10,Z15,Z20,Z25,Z30,Z35,DZ16,DZ20,DZ25,K50,K65
- SG Safety Cooperation: All types.

2. Inflatable Life jacket:

- Secumar: All types.
- Jiaxing Ronggui Trade Co., Ltd. Model: RSY-series.
- Jiaxing Rongsheng Trade Co., Ltd. Model: RSY-series.

3. Hydrostatic Release Unit:

- Jiaxing Ronggui Trade Co., Ltd. Model: JSQ-III
- Jiaxing Rongsheng Trade Co., Ltd. Model: JSQ-III

N - Maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear



RINA Services S.p.A.
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This service supplier is certified according to the 'RINA Rules for the Certification of Service Suppliers' to carry out maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear in accordance with SOLAS Regulation III/20 for the list of makes and models/series of equipment in the attached Annex N.

Note 1: For the purpose of application of IMO Resolution MSC.402(96), including Corr.1, the service supplier is to be authorized by the Flag Administration under which the ship is registered.

For Flag Administrations which have authorized RINA as their Recognized Organization and accept RINA 'Certificate of Approval of Service Supplier' as equivalent to their authorization document to the Service Provider, according to the IMO Resolution MSC.402(96), including Corr.1, this Certificate may be accepted also for statutory purpose, in lieu of the Flag's authorization document to the Service Provider, allowing the firm to provide their services on the makes and models/series of equipment listed in the Annex N to this Certificate.

Note 2: This certificate of approval is also issued on behalf of Italian Administration according to the Italian 'Executive Decree n. 321' dated 21st April 2020 and Circular NDS n. 22/2021.

Therefore, this Service Provider is authorized to provide their services on board ships flying Italian flag for the makes and types of equipment defined according to ISO/PAS 23678, listed in the table of Annex N to this Certificate, without prejudice to the particular requirements in the aforementioned Italian official documents.

General conditions for the approval

- a) *The initial conditions verified by RINA at the time of the approval are to be maintained*
- b) *Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessments*
- c) *RINA personnel are to be allowed to witness during the performance of activities, upon their request*
- d) *The activities are to be carried out in compliance with the RINA Rules and or other applicable rules*
- e) *RINA may revoke the approval at any moment in the case of modifications to requirements or conditions for the approval*



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Kwok Leung Tommy JEN

RINA Services S.p.A.



Annex N

List of makes and types of equipment

Attached to Certificate No. SSU009024XV

The Service Supplier is approved by RINA for performing services such as maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear, in accordance with SOLAS Reg. III/20, for the following equipment:

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
Boatbuilding Branch, Qingdao Beihai Shipbuilding Heavy Industry Co., Ltd.	Totally Enclosed Lifeboat	BH-5,5A,5S,5SA, E500, E585,6,6A,6S, E670,7A,7B,8
	Free Fall Lifeboat	BH-F6.0, F7.0A, F7.8, F8.1, F5.8, F6.8, F660, F670, F750, F900A
	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
Vanguard	Lifeboat & rescue boat	VG / VG-FF/FC / KR / DB / DRS / DR4 / HLB / HLBLR / FRK / FRW
	Hook (LRRS)	C-SAFE / SPEARHEAD / HK / SHF
	Davit	LVD / PL / A / PLR / SRH / LR / VA / VAE / VAH / VL / VL-G / VS / VF / HSD
	Winch	DW/D / DW/S / SLR / DWP / HW / PRH / VWL / VW/S / VW/Z
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, Y85CA/FA, JY85CB/FB, JY93C/F, JY102/F, JY117C/F



Phan Thuc Suong
Marine Surveyor
RINA Vietnam
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List of makes and types of equipment

	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-LE14, 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-LRHE18, JY-LRHE30, JY-LRHE70, JY-LFR35, JY-SAP14, JY-SAP30
	Gravity Overhead Rolling Type	JY-HE70, JY-HE95, JY-HE120, JY-HE155
	Davit	JY-TBD120, JY-TBD215, JY-TBD35
	Telescopic Boom-Type Davit	JY-GYE70, JY-GYE120, JY-GYE185
	Hydraulic Luffing Arm Type Davit	JY-GL70, JY-GL95, JY-GL120, JY-GL185
	Connecting Rod Type Davit Crane/Raft Davit	JY-FCR23kN-5m, JY-FCR2066; JY-FCR3066; JY-FCR2385; JY-FCR3510
	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
Ningbo Asia F.R.P Boat Manufacturing Co., Ltd.	Rescue Boat	YZ4.5, YZ4.5S, YZ4.5SA, YZ60RB, YZ60RA
	Totally Enclosed Lifeboat/ Rescue Boat	YZ50C, YZ50F, YZ65C, YZ65F, YZ65CS, YZ65FS, YZ75C, YZ75F
	Free Fall Lifeboat	YZ49FC, YZ49FF, YZ59FC, YZ59FF, YZ60FC, YZ60FF, YZ675FC, YZ675FF

List of makes and types of equipment

	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
	Rescue boat Launching Appliance	YZ-A30D
	Free-Fall Lifeboat Launching Appliance	YZF55, YZF70
Ningbo New Marine Lifesaving Equipment Co., Ltd.	Rescue Boat & Fast Recue Boat	NM43R, 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/FF, NM59FC/FF, NM67FC/FF, NM50FC/FF, NM58FC/FF
	Open type Lifeboat	BJ5.50, BJ6.50, BJ7.50
	Single Arm Rescue Boat (Rafts) Davit (Crane)	NMSD14KN, NMD14KN, NMSD21KN, NMD21KN, NMSD23KN, NMD23KN, NMSD25KN, NMSC25KN, NMSD33KN, NMC25, NMC30
	Rescue Boat launching Appliance	NMAR30, NMAR30-1, NMAR60, NM30;
	Gravity Luffing Arm Davit	NMD25KN, NMD40KN, NMD45KN, NMD55KN, NMD60KN, NMD65KN, NMD85KN, NMD120KN;
	Launching Appliance of Free Fall Lifeboat	NMF55KN, NMF70KN;
	Platform Davit	PD50, PD70, PD85, PD120
	Hydraulic Gravity Luffing Davit	HLA85, HLA125, HLA210
	Electric Lifeboat/Rescue Boat Winch	NMW25KN, NMW42L/R, NMW50L/R, D63S/Z, D80S/Z, D125S/Z
Zhejiang Hengxin Ship Equipments Co., Ltd.	Lifeboat	BCC, BCF, BCFC, BCFF
	Rescue Boat	GJ, FRH, RH



Annex N

List of makes and types of equipment

	Release Mechanism	HK	
	Davit	FH, SA, HDC, LFR, LR, HE, PD, SRH, LB, KN	
	Winch	DZB, D, DW	
Zhenjiang Marine Auxiliary Machinery Co., Ltd	Gravity davit	LE45-1/LE55-1/LE65-1/LE85-1/LE 100-1/LE138-1/LE170-1/HE65/HE85/HE100/HE138/H170/RE50/RE60/RE80/RE100/SRH65/SRH85/SRH100/SRH120/SRH150/SRH170/SRH200/SRH230/GL65/GL85/GL110/GL138/GL165/TG65/TG85/TG110/TG150/TG170/TG200/TG230/HT80/HT100/HT150/HT210/LC400/RC60-EB	
	Launching appliance davit	FH55/FH170/FH75/FH85/FH100	
	Single arm davit and crane	SAF14/SAF21/SAFC21/SAFC25/SA21/SA32/HDCL2-6.5/HDCL3-6/HDCL3-10/LA25/LA35/SH-21 /DH130	
	Off-Shore davit	PL65/PL85/PL100/PL110/PL120/PL138/PL150/PL180/ PL200/ PL230	
	Fast rescue boat davit	LFR30/LFR35/LFR55/LFRH30/LEFR50/LFRH60/DH30/SAWH30/SA WH45/SAWH60	
	Boat Winch	D21KN/D25KN/D32KN/D35KN/D48KN/D63KN/D65KN/D80KN/D100KN/D120KN/DP65KN/D P85KN/DP100KN/DP110KN/DP120KN/DP138KN/DP150 /DP180KN	
	Totally Enclosed Lifeboat	YH5.0QFP/YH5.0QFN/YH6.5QFP/YH6.5QFN/YH8.5QFP /YH8.5QFN/YH8.5QFP-A /YH8.5QFN-A/YH10.3QFP/ YH10.3QFN/YH9.5QFP/YH9.5QFN/YH12.0QF P /YH12.0QFN /YH9.9BFP/YH12.5BFP/ZZHG-BF-12.5	
	Free Fall Lifeboat	YH5.9FP/YH5.9FN/YH6.7FP/YH6.7FN/YH7.5 FP/YH7.5 FN/YH8.5FP/YH8.5FN	
	Fast rescue boat	YH6.0FRA/YH6.0FRB/YH6.5FRA/YH6.5FRB	
	Rescue boat	YH4.5R/YH4.5DR/YH7.5	
	Hook		HK25/HK25B/HK40/HK40C/HK65/SH55/SH70 /SH85
			Handle release hook 15KN
		Automatic release hook 21KN/23KN/25KN/35KN	





Annex N

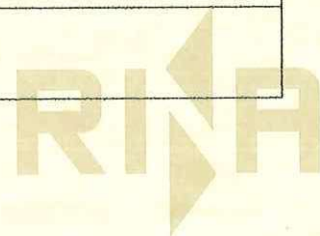
List of makes and types of equipment

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-8.50XJY-QFP/N-9.35/JY-QFP/N-10.90A
	Hook	JX and JXN Series
	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	
NARWHAL	All types	All models
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
Ben Thuy Shipyard	All types	All models
Duc Thinh Marine Mechanic Co., Ltd	All types	All models




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 Marine Surveyor
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Annex N

List of makes and types of equipment

Dinh Do Shipbuilding Equipment And Trading Joint Stock Company	All types	All models
<p>Certifying by CRALOG: The below technicians have been confirmed to be trained by CRALOG ACADEMY, so, it is possible to perform servicing as CRALOG's subcontractors with an employment order issued by CRALOG. But Owners, managers and service suppliers shall confirm with their flag administrations if any additional or special requirement apply.</p> <p>List of personnel certified by CRALOG:</p> <ol style="list-style-type: none">1. Name: Dang Minh Hung I.D No.: 4902. Name: To Quang Doan I.D No.: 491		




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