NIPPON KAIJI KYOKAI

CERTIFICATE OF APPROVAL FOR FIRMS ENGAGED IN MAINTENANCE, THOROUGH EXAMINATION, OPERATIONAL TESTING, OVERHAUL AND REPAIR OF LIFEBOATS, RESCUE BOATS, FAST RESCUE BOATS, LAUNCHING APPLIANCES AND RELEASE GEAR

Certificate No. : **24TZ391**
Approval No. : **14LA031**

THIS IS TO CERTIFY that

TECHNO LIFEBOAT PTE LTD

127 UBI AVENUE 4, TONG XING COMPLEX, SINGAPORE

is approved as a firm engaged in the servicing and maintenance of lifeboats, launching appliances, on-load release gear and automatic release hooks under the Society's Rules for Approval of Manufacturers and Service Suppliers incorporating IACS UR Z17, as amended.
This certificate is valid until **2 September 2029** subject to periodical assessment.

Issued at Tokyo on 17 September 2024.

See the conditions on the reverse.

NIPPON KAIJI KYOKAI

(M. Inoue)
General Manager of Survey Department

ClassNK

This is to certify that the firm has been periodically or occasionally assessed in accordance with the regulations of Chapter 2, Part 1 of the Rules for Approval of Manufacturers and Service Suppliers.

Due Range of Periodical Assessment: *between 3 September 2026 and 2 September 2027*

Periodical Assessment	*Date*	_____
	Signature	_____
		Surveyor to NIPPON KAIJI KYOKAI
Occasional Assessment	*Date*	_____
	Signature	_____
		Surveyor to NIPPON KAIJI KYOKAI

Conditions for Approval:

1. This Certificate is valid subject to validity of certificate for personnel issued for each make and type of the equipment listed in the attachment.
2. This service supplier has been approved to service the equipment listed in the attachment in accordance with MSC. 402(96).
3. The service has been properly conducted and reported in accordance with the requirements of the Rules and the relevant Regulations.
4. Where there is any alteration to the service approved by this certificate, the Firm should notify immediately to the Society.

Attachment to
Certificate Number 24TZ391

Make	Type
Jiangsu Huayan Marine Equipment Co., Ltd.	**Rescue Boat** - 420RIRB
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-LE14, JY-LE65, JY-LE85, JY-LE100, JY-LE150 **Launching Appliance of Free-Fall Lifeboat** - 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 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 **Release Mechanism of Lifeboat/Rescue Boat** - HK40, HK40A, HK50B, HK50A, FHK70, HK70, HK115, LB60MR, LB80MR, LB120MR, FHK80, FHK90, LB35MRS, LB70MRS
JIANGYINSHI BEIHAI LSA CO., LTD.	**Boats** - SC45KR, SC45K, JYB40R, JYB55KR, JYB45Q, JYB50K, JYB60K, JYB70K, JYB75K, JYB80K, JYB65Q, JYB78Q, JYB60G, JYB65G, JYB65GA, JYB65GW, JYB65W, JYB78W, JYB65FW, JYB65FG, JYB65FGA, JYB75G, JYB78FG, JYB85FG, JYB85B, JYB99B, JYB50F/C, JYB57F/C, JYB65F/C, JYB75F/C, JYB80F/C, JYB85F/C, JYB99F/C, JYB125F/C, JYB52FF/FC, JYB66FF/FC, JYB75FF/FC **Hooks** - JYBHK-20N, JYBHK-25, JYBHK-30N, JYBHK-40NA, JYBHK-40D, JYBHK-40G, JYBHK-40, JYBHK-40S, JYBHK-56F, JYBHK-60N, JYBHK-60D, JYBHK-60, JYBHK-85N, JYBHK-100, JYBHK-150 - HK-20N, HK-25, HK-30N, HK-40D, HK-40G, HK-40NA, HK-40, HK-56, HK-60D, HK-60N, HK-60, HK-85N, HK-150 **Davits** - SAC15, SA21/SAC21, SA21-A, SA25/SAC25, SAC25-A, SA30/SAC30, SA35, FA65, FA75, FA100, LB14-H, LB30-H, LB45-H, LB50-H, LB60-H, LB65-H, LA65, LB90-H, LB120-H, BHGH65, BHGH90, BHGH120, BHGH170, BHGH230, PD50, PD85, PD115, PD145, PD175, FRH27, FRH27A, FRH27B, FRH30, FRH50, FRH50N, EHRD18, EHRD30, SRH27, SRH30, SRH45, BHGP65, BHGP90, BHGP120, RB75-H, HB30, HB90, HB90-H, HB120, HB120H, HDC2-10, HDC3-10, ESAD25, SM21, SMRF21, BGP65, GLR30, GLR35, BHSA45, LBS14 **Winches** - D21Z, D21Z-A, D25S/Z, D30S/Z, D30Z-A, D35S/Z, D50S/Z, DW50S/Z, D63S/Z, D100S/Z, DW100S/Z, DW110S/Z, HW30, HW50, HW80, HW120, JYBW45L/R, JYBW53L/R, FFW25, FFW40, BHEW130
Ningbo Asia F.R.P Boat Manufaturing Co., Ltd.	**Rescue Boat** - YZ4.5, YZ4.5S, YZ4.5SA, YZ60RB, BJ-4.5, 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 **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/Liferafts Boat Launching Appliance & Crane** - ZF21/15 DZ14, ZF21 DZ14, ZF23/15 DZ14, ZF23 DZ14, ZF33 DZ25, B21/14, B21/14-2.5 **Free Fall Lifeboats Launching Appliance** - YZF55, YZF70 **A Type Davit** - YZ-A30, YZ-A30D **Release Mechanism** - HK40, HK40B, YZHK40, YZHK40S
Qingdao Beihai Boatbuilding Co., Ltd. (Ex. Boatbuilding Branch Qingdao Beihai Shipbuilding Heavy Industry Co., Ltd)	**Totally Enclosed Lifeboat** - BH-5, 6, 7, 8, 9, 10 series, BH-E series **Freefall Lifeboat** - BH-F series **Rescue Boat** - BH-R series, BH-HR series **Gravity Pivot Davit** - BD-PV series, BD-AR series **Offshore Davit** - BD-PL series **Single Arm Davit** - BD-SA series, BD-SH series, FA36, RBD966 **Freefall Launching Davit** - BD-FF series **Winch** - BW-H(L/R) series, L(L/R) series, SC series, YSB/INI/BJM hydraulic winch series **Gravity Lifeboat Release Mechanism** - BG-3, 3S, 3R, 3L, 7, 10, BH-HOOK3, 5, FS5, 7, 10, 13 **Freefall Lifeboat Release Mechanism** - BG-3F, 3.5F, 4F, 4.5F, 4.5FL, 5F, 6F **Rescue Boat Release Mechanism** - BG-2R, Wuxi XS series, Jimo CS series
Wuxi Hai Hong Boat Making Co., Ltd.	**Totally Enclosed Life/Rescue Boat** - HH70C/HH70T(QFP7.0/QFN7.0), HH85CS/HH85TS(QFP8.5/QFN8.5), HH65CS/HH65TS(QFP6.5/QFN6.5), HH75CS/HH75TS(QFP7.5/QFN7.5), HH80CS/HH80TS(QFP8.0/QFN8.0), HH65C/HH65T (QFP(H)6.5/QFN(H)6.5), HH50C/HH50T, HH53C/HH53T(QFP(H)5.3), HH75C(QFP(H)7.5), HH85C/HH85T, HH57C/HH57T **Freefall Lifeboat** - HH59FC/HH59FF, HH76FC/HH76FF **Rescue Boat**

	- GJ4.5B/GJ4.5B1 **High Speed Rescue Boat** - GJ618A/GJ618B **Release Gear** - HH76/HH43/HH30/HH20
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Co., Ltd	**Gravity Davit** - LE45-1/55-1/65-1/85-1/100-1/138-1/170-1, HE65/85/100/138, H170, RE50/60/80/100, SRH65/85/100/120/150/170/200/230, GL65/85/110/138/165, TG65/85/110/150/170/200/230, HT80/100/150/210, LC400, RC60-EB **Launching Appliance Davit** - FH55/70/75/85/100 **Single Arm Davit and Crane** - SAF14/21, SAFC21/25, SA21/32, HDCL2-6.5/3-6/3-10, LA25/35, SH-21, DH30 **Off-Shore Davit** - PL65/85/100/110/120/138/150/180/200/230 **Fastrescue Boat Davit** - LFR30/35/55, LFRH30/60, LEFR50, DH30, SAWH30/45/60 **Boat Winch** - D21KN, D25KN, D32KN, D35KN, D48KN, D63KN, D65KN, D80KN, D100KN, D120KN, DP65KN, DP85KN, D100PKN, DP110KN, DP120KN, DP138KN, DP150, DP180KN **Totally Enclosed Lifeboat** - YH5.0QFP/QFN, YH6.5QFP/QFN, YH8.5QFP/QFN/QFP-A/QFN-A, YH10.3QFP/QFN, YH9.5QFP/QFN, YH12.0QFP/QFN, YH9.9BFP, YH12.5BFP, ZZHG-BF-12.5 **Free Fall Lifeboat** - YH5.9FP/FN, YH6.7FP/FN, YH7.5FP/FN, YH8.5FP/FN **Fast Rescue Boat** - YH6.0FRA/FRB, YH6.5FRA/FRB **Rescue Boat** - YH4.5R/4.5DR/7.5 **Hook** - HK25/25B/40/40C/65, SH55/70/85, Handle release hook 15KN, Automatic release hook 21KN, 23KN, 25KN, 35KN
Wuxi Wenjiao G. F. R. P. Factory	**Totally Enclosed Life/Rescue Boat** - WJB50F, WJB50C, WJ57F, WJ57C, WJ58F, WJ58C, WJ75F, WJ75C **Free Fall Lifeboats** - WJ59FF, WJ59FC, WJ67FF, WJ67FC **Rescue Boat** - WJ40R, WJ45KR, WJ45D3, WJ45D, WJ55D, WJ60RA, WJ60RB, WJJZ45

	Life Boat - WJ45D, BJ55, BJ60, BJ65, BJ70, BJ75, BJ80, BJ85 **Release Hook** - WJHK40, WJ30HK, WJHK55, WJ63HKC, WJ67HK, WJ40
Jiangsu Huaiyin Marine Machinery Co., Ltd.	**Gravity Luffing Arm Davit** - 15KN, 20KN, 25KN, 40KN, 50KN, 65KN **Electrical Lifeboat/Rescue boat Winch** - DSA40, DSA50, DSB63, DZ14, DZ25, DZ50, DZ63 **Single-Arm Rescue Boat/Life Rafts Boat Launching Appliance & Crane** - ZPQ21/6 **Free-fall Lifeboat Launching Appliance** - FH55
Oriental Precision & Engineering Co., Ltd.	**Hinged Gravity Type Davit & Winch** - Davit: HGD series, HGK series, SHS series, RTD series, DHA series, DMA series - Winch: BWE series, SWE series, WL series **Free Fall Davit & Winch** - FD series, WL series **Rescue/Liferaft Davit & Winch** - RD series, RDW series
Sheyang Saifute Marine Auxiliary Machinery Plant Jiangsu	**Ele. Rescue Boat Winch** - 14KN, 25KN 40KN, 63KN **Ele. Lifeboat Winch** - 25KN 40KN, 63KN, E70L **Ele. Lifeboat/Rescue Boat Winch** - D50S/Z, E100L/R, D100S/Z **Gravity Luffing Arm Davit** - 14KN, 25KN, 50KN, 60KN, 70KN, 90KN, 100KN, 120KN **Gravity Sliding Track Davit** - 15KN, 40KN **Goss Deck Gravity Sliding Track Davit** - 30KN, 110KN **Platform Davit** - 48KN, 110KN **Single Arm Launching Appliances for Rescue Boat** - 14KN **Single Arm Launching Appliances for Rescue Boat /Raft** - 21KN **Single Arm Rescue Boat/Raft Launching Appliances & Provisions Crane** - 21KN **Liferaft Launching Appliance** - 21KN, 25KN
SHEYANG VICTOR MARINE AUXILIARIES	**Electric Lifeboat/Rescue Boat Winch** - WLT/DZA14, WLT/DSA25, WLT/DZA25, WLT/DS.Z36, WLT/DSA40, WLT/DZA40, WLT/DS.Z48, WLT/DS/ZA50, WLT/DS.Z55, WLT/DZA70(P), WLT/DS.Z70, WLT/DSZ90,

CO., LTD.	WLT/DS/ZA100, WLT/DS/ZA100(P) **Gravity Luffing Arm Type Davit** - WLT/LA25, WLT/AS33, WLT/LA40, WLT/LZA50, WLT/LA50, WLT/LA56, WLT/R60, WLT/LA60, WLT/LA70, WLT/LA90, WLT/LA100, WLT/AS110, WLT/LA120 **A Type Davit** - WLT/LR36 **Platform Type Davit** - WLT/PL5, WLT/PL90, WLT/PL110 **Freefall Launching Appliance** - WLT/FH55, WLT/FH70 **Manual Crane** - WLT/SQ21-2 **Single Arm Boat/Raft & Provision Davit** - WLT/SA21/15 **Hydraulic Gravity Luffing Arm Type Davit** - WLT/SA25 **Boat/Raft Davit & Luffing Crane** - WLT/SA21, WLT/ESC23-6m **Multifunctional Hydraulic Telescopic Slewing Crane** - WLT/YESC3t **Hydraulic Crane and Boat/Raft Landing Device** - SWLTA21-3t-6m
Wuxi Xingsheng Gear Case Factory	**Release Hook** - 15KN, 21KN, 23KN, 25KN, 35KN
Wuxi Dongwu Marine Equipment Co., Ltd	**Gravity Luffing Arm Davit** - 18kN, 25kN, 40kN, 50kN, 60kN, 60kN(60L), 85kN, 110kN, T2.5, Sk50 **Gravity Sliding Track Davit** - 25kn, 30kN **Free-fall Lifeboat Launching Appliance** - F55, F70, NPT100F **Rescue Boats/liferafts Launching Appliances** - 21kN (manual), 21kN (Electrical), 21kN (Electrical/hydraulic), 25kN (Electrical/hydraulic), 35kN (Electrical/hydraulic), DWC210 **Life Boat Winch** - DS*ZY25, DS*ZY40, D48S, D50S, DS*ZY63,D63S, 80kN(life) **Life/rescue Boat Winch** - DZY/Z21, DZ*ZY25, DZ*ZY40, D48Z, D50Z, DZ*ZY63, D63Z, 80kN (rescue)
Wuxi Huahai Marine Equipment Factory	**Gravity Luffing Arm Davit** - HML60, HML85 **Free-fall Lifeboat Launching Appliance** - HMD55F, HMD70F

	Rescue Boats/liferafts Launching Appliances - 21kN manual, 21kN Electrical, 25kN Electrical, 21kN Electrical hydraulic, 25kN Electrical hydraulic, 32kN Electrical hydraulic **Electrical Boat Winch** - HMW21, HMW25, HMW50, HMW75, HMW100, HMW110, HMW140, HMW185 **Rescue Boats Launching Appliances** - HMD14A, HMD30A, HMD30A2
Zhenjiang DH Marine Equipment Co., Ltd.	**Davits** - FFH, HSD, LPLG, LE, MSD, PR, PRH, SGL **Winches** - DW, WME
Wuxi Mingzi Machinery Manufacturing Co., Ltd	**Lifeboat Hook Release Mechanism** - HK40, WHK40, WHK65 **Davit-launched Rescue Boat Manual Release Hook** - 15KN(150-T) **Davit-launched Life Raft Manual Release Hook** - 21-25KN(250-T) **Life Raft/Rescue Boat Manual/Automatically Release Hook** - 31-37KN(370-T)

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