



CERTIFICATE OF APPROVAL OF SERVICE SUPPLIER

No. : HDOLS-0047-22

This is to certify that

Techno Fibre Middle East Marine Services FZE - Dubai Branch

Address : P.O.Box 122090, W106, Dubai Maritime City, Dubai, United Arab Emirates

is approved as a service supplier to provide the following service under Guidance for Approval of Service Suppliers and the relevant requirement of the society rule.

Scope of service

**The servicing Inflatable liferafts, Inflatable lifejackets, Hydrostatic release units,
Inflatable rescue boats
Maintenance, thorough examination, operational testing, overhaul and repair of
Lifeboats, Rescue boats, Launching appliances, Release gear**

This certificate is valid until **2025.09.02**

Issued at **Busan** on **2022.09.08**

See the appendix for details regarding manufacturer authorizations, etc



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No.(ME22027393242) and certificate No.(HDOLS004722).



KOREAN REGISTER

General Manager of
Survey Team

TERMS AND CONDITIONS

A. The Responsibility and Duty of the Registered Company

- (1) The operator who carries out the service shall possess the appropriate license issued by the Government or have equivalent qualifications.
- (2) The registered company shall be responsible for ensuring the safety of the operator from any danger which can arise during operation.
- (3) The registered company shall check the equipment to ensure the proper functioning of the equipment before operation.
- (4) The registered company, if necessary, shall have the equipment calibrated by authorized organizations in order to maintain the required accuracy within the period prescribed in the standard, and have the contents recorded and maintained.
- (5) The registered company shall keep a copy of the service report submitted to this Society and applicant for at least 5 years.
- (6) The registered company shall notify this society immediately of any alterations of the condition at the time of the approval, including changes of staff and of any entries on this certificate.

B. Confidentiality

The detail information acquired during the job shall not be disclosed or released to third party without permission of the applicant or this Society.

C. Scope and Limitation

The extent of engagement is limited to the scope stated on this Certificate unless attached otherwise.

D. Renewal of the Approval

Renewal audit should be carried out within 3 months before the expiry date of Certificate. However, the validity of new Certificate will be started from the next day of expiry date of previous Certificate.

E. Cancellation of Approval

The approval may be cancelled in cases:

- (1) Where the service provided is improperly carried out or the results are improperly reported.
- (2) Where the Society's surveyor has found major deviations in the operating system of the firm.
- (3) Where the supplier fails to inform of any alteration to the operation system to this Society.
- (4) Where occasional audit, when deemed necessary by this Society, has not been carried out.
- (5) Where wilful acts or omissions are ascertained.
- (6) Where the approval fees are not paid.

The service supplier has been certified or licensed to service the particular makes and models of equipment listed in the appendix.

A. Manufacturer(s) of Inflatable Liferrafts & Life Jacket

a) Inflatable Liferrafts

- SHANGHAI STAR RUBBER PRODUCTS CO.,LTD (CSM)
- SHANGHAI YOULONG RUBBER PRODUCTS CO.,LTD
- JIANGSU HAINING MARINE EQUIPMENT CO.,LTD

b) Inflatable Life Jacket

- SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD

B. Manufacturer(s) of Lifeboats, Rescue boats, Launching appliances, Release gear / Type

The service supplier has been certified or licensed to conduct maintenance, thorough examination, operational testing, overhaul and repair for the particular makes and models of equipment, as follow, in accordance with Res.MSC.402(96)

- IKNOW MACHINERY CO., LTD. (ex. TSUJI HEAVY IND.) /

Series of Davit : H, T, TC

Series of Winch : EB, TC, OAP

- SEKIGAHARA SEISAKUSHO LTD. /

Gravity type davit : SH, SFB, SHS, STS, SSS

Free-fall lifeboat davit : SFS, SFA, SFB, SFC, SFD

Rescue boat davit : SJS, SJR

- CSSC LUZHOU ZHENJIANG MARINE AUXILIARY MACHINERY CO., LTD. /

Gravity davit: ,LE55-1,LE65-1,LE85-1,LE100-1,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

Launching appliance davit: FH55,FH70,FH75,FH85,FH100

Single arm davit and crane :

SAF14,SAF21,SAFC21,SAFC25,SA21,SA32,HDCL2-6.5,HDCL3-6,HDCL3-10,LA25,LA35,DH30

Off-shore davit: PL65,PL85,PL100,PL110,PL120,PL138,PL150,PL180,PL200,PL230

Fastrescue boat davit:

LFR30,LFR35,LFR55,LFRH30,LEFR50,LFRH60,DH30,SAWH30,SAWH45,SAWH60

Totally enclosed lifeboat:

YH5.0QFP,YH5.0QFN,YH6.5QFP,YH6.5QFN,YH8.5QFP,YH8.5QFN,YH8.5QFP-A,



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APPENDIX I

No. : HDOLS-0047-22

YH8.5QFN-A,YH10.3QFP,YH10.3QFN,YH9.5QFP,YH9.5QFN,YH12.0QFP,YH12.0QFN
YH9.9BFP,YH12.5BFP,ZZHG-BF-12.5
Free fall lifeboat : YH5.9FP,YH5.9FN,YH6.7FP,YH6.7FN,YH7.5FP,YH7.5FN,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

- SHIGI SHIP BUILDING CO., LTD. /

SZ series, FEL series, VOX series, GARS series, OPEN type, release gear

- NISHI-F CO., LTD. (ex. NISHI-NIPPON F.R.P. SHIPBUILDING CO.,LTD.) /

Lifeboat, Free-fall Lifeboat with Rescue boat and those Release gears : G-series, ML-series, F-series

- Oriental Precision and Engineering Co., Ltd. /

* HINGED GRAVITY TYPE DAVIT and 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 and WINCH : RD SERIES, RDW SERIES

- BOATBUILDING BRANCH QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO., LTD. /

Lifeboat Total enclosed : BH5,5A,5S,5SA,E500,E585,6,6A,6S,E670,7A,7B,8.

Lifeboat Freefall : BH-F6.0,F7.0A,F7.8,F8.1,F5.8,F6.8,F660,F670,F750,F900A

Rescue : BH-R4,R4S,R4SA,R5S

Davit Gravity Pivot : BD-PV50,PV60,PV60S,PV85,PV125

Davit Freefall launching : BD-FF55,55A,55R,FF80,80A,80R,80B,FF65,FF66,FF67,FF85

Davit Single arm : 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

Release Mechanism Gravity Lifeboat : BG-3,3L,BG-7;BH-HOOK3,HOOK5,FS5,FS7

Release Mechanism Freefall Lifeboat : BG-3,5F,4F,4.5F,4.5FL,5F,6F

Release Mechanism Rescue boat : BG-2R,15KNXS,25KNXS,35KNXS

- JIANGYINSHI BEIHAI LSA CO., LTD. /

BOAT : SERIES OF SC, JYB

HOOK : SERIES OF JYBHK

DAVIT: SERIES OF SAC,SA,FA,LA,BHGH,PD,FRH,EHRD,SRH,BHGP,RB,HB,HDC,ESAD

- HLB CO., LTD (ex. Hyundai Lifeboats) and BADA HEAVY INDUSTRIES (EX. D.R.M) CO., LTD. /



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No. : HDOLS-0047-22

*HLB Co., Ltd.

Lifeboat and Rescue Boat : Series of HD, HT, HDL, HLB; HDF, HDFL, HDFN; HDR & HDFR

Release Mechanism : Series of THP, Talon and Talon II

*BADA HI(ex, D.R.M) Co., Ltd.

Davit : Series of DRM, BDH, BDTD, BDHP, BDTW, BDRW, BDM and BFOD

Series of FF, HDFL, HDF, BDF; BDR, BDH, BDA, BDFA; BDL, BDR, BLR & BHI

Winch : Series of DRM, DRBW, BAW, BDF, BHI, BLR, BLW, BMW, BRW, BWL, BWR, FHW

Release Mechanism : Series of BDR, BHA and BHR

- Jiangyin Wolong F.R.P Boat Co., Ltd. /

LIFEBOAT & RESCUE:

Totally Enclosed lifeboat: JY5OC/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

DAVIT & WINCH:

Gravity Luffing arm Type Davit: 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-LRHE30, JY-LRHE70, JY-LFR35, JY-SAP14, JY-SAP30

Gravity Overhead rolling type davit: JY-HE70, JYHE95, 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, JYSAF33, JY-LRHE30, JY-PLR21, JY-LFR27, JY-LRHE70, JY-D50S/Z, JY-D70S/Z, JY-D85S/Z, JY-D110S/Z, JY-DW125S, JYDP110S/Z, JY-DP150/Z, JY-DP185, JY-DP215

- Jiangsu Jiaoyan Marine Equipment Co., Ltd. (ex. Jiangyin Xinjiang F.R.P. 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-FF6.8/JY-FN-7.5/JY-FF-7.5/JY-FN-8.5/JY-FF-8.5/JY-FN-9.5/JY-FF-9.5

Rescue Boat : GJ4.2/GJ4.25/GJ4.5/GJ5.0/GJ5.25/GJ6.0B-1/GJ6.10/GJ7.50/GJ80Q-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



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Hook : JX and JXN Series

Gravity Luffing Arm Type Davit : JYL52/JYL55/JYL65/JYL68/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

- DONG WOO MACHINERY and ENGINEERING CO., LTD. /

Launching appliances : DWS Series, LRDS Series, RBDS Series, Hinged Gravity Boat Davit and Freefall davit, Rescue Davit, and Lifteraft Davit

- WUXI HAI HONG BOAT MAKING CO.,LTD. /

Totally enclosed life / rescue boat series :

HH50C/HH50T, HH53C/HH53T, HH57C/HH57T, HH65C/HH65T, HH65CS/HH65TS, HH70C/HH70T, HH75CS/HH75TS, HH75C, HH80CS/HH80TS, HH85C/HH85TS,

Freefall Lifeboat Series : HH59FC / HH59FF , HH76FC / HH76FF

Rescue Boat Series : GJ4.5B / GJ4.5B1

High Speed Rescue Boat : GJ618A / GJ618B

- WUXI WENJIAO G.F.R.P FACTORY /

Totally Enclosed Life/Rescue Boat : WJB50F, WJB50C, WJ57F, WJ57C, WJ58F, WJ58C, WJ75F, WJ75C

Free Fall Lifeboat : WJ59FF, WJ59FC, WJ67FF, WJ67FC

Rescue Boats : WJ40R, WJ45KR, WJ45D3, WJ45D, WJ55D, WJ60RA, WJ60RB

Lifeboat : WJ45D, BJ55, BJ60, BJ65, BJ70, BJ75, BJ80, BJ85

Release Gear : WJHK40, WJ30HK, WJ63HKC

- 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 Appliance :

21kN manual, 21kN Electrical, 21kN Electrical/hydraulic, 25kN Electrical/hydraulic, 35kN Electrical/hydraulic, DWC210

Rescue Boats Launching Appliance : A30, H35

Life Boat Winch : DS*ZY25, DS*ZY40, D50S, DS*ZY63, D63S, 80Kn(life)

Life/rescue boat winch : DZY/Z21, DZ*ZY25, DZ*ZY40, D50Z, DZ*ZY63, D63Z, 80Kn(rescue)

- ZHENJIANG WEST MARINE EQUIPMENT CO. LTD. /

Davit: WME-SAD 14/23/30, WME-LR 30, WME-LRH 35/75, WME-MGD 185, WME-HTD 30.



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Winch: WME-SAD 14/23/30, WME-LR 30, WME-LRH 35/75, WME-MGD 185, WME-HTD 30

- ZHENJIANG DH MARINE EQUIPMENT CO., LTD. /

HSD23 SINGLE ARM BOAT/RAFT DAVIT

HSD15 SINGLE ARM BOAT/RAFT DAVIT

PR30 RESCUE BOAT DAVIT

PRH35 RESCUE BOAT DAVIT

MSD23 LIFERAFT DAVIT

MSD33 SINGLE ARM LIFERAFT DAVIT

LE120 GRAVITY LUFFING ARM DAVIT

LE90 GRAVITY LUFFING ARM DAVIT

- VANGUARDE PTE LTD. /

Lifeboat & Rescue boat : VG/VG-FF/FC/KR/DB/DRS/DR4/HLB/HLBLR/FPK/FRW Series

Hook(LRRS) : C-SAFE/SPEARHEAD/HK/SHF Series, QRH35

Davit : LVD/PL/A/PLR/SRH/LR/VA/VAE/VL/VL-G/VS Series

Winch : DW/D/DW/S/SLR/DWP/HW/PRH/VWL/VW/S/VW/Z Series

- CRALOG

"The technicians below 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."

(Cralog Certified personnel)

Name : Dharmaraj Ravi

ID no. : 340

(Cralog Certified personnel)

Name : Sachin Gurudas Palienkar

ID no. : 352

(Cralog Certified personnel)

Name : Sanjeewa Dissanayake

ID no. : 364



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No. : HDOLS-0047-22

Company :

Address :

Tel :

Fax :

E-mail :

Country :

City :

KR-Branch :