

APPROVAL OF SERVICE SUPPLIERS

This is to certify that

Firetrace Safety Tec Pte. Ltd.

Singapore, Singapore

is granted acceptance for

**Inspection and maintenance of fire extinguishing equipment and systems.
Inspections and maintenance of self-contained breathing apparatus. In
accordance with Class Programme DNVGL-CP-0484.**

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

This Certificate is valid until **2022-11-24**.

Issued at **Certification of Materials - Singapore** on **2019-11-25**



for **DNV GL**

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

Ng, Ken Tong Ken
Principal Surveyor / Project Manager

This Certificate may be withdrawn if: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.

Certificate No: **AOSS0000G9E**

Application:

Following are the manufacturer authorisation.

Name of manufacturer	Equipment/Systems
SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD	EEBD, SELF-CONTAINED POSITIVE PRESSURE AIR BREATHING APPARATUS SCBA
ZHEJIANG YANING FIRE FIGHTING EQUIPMENT CO., LTD	PORTABLE FIRE EXTINGUISHER, FIXED CO2 FIRE EXTINGUISHER SYSTEM, FIXED WATER MIST SYSTEM, FIXED DRY POWDER SYSTEM, FIXED DECK FOAM FIRE FIGHTING SYSTEM, FM 200 FIRE FIGHTING SYSTEM AND SPARE PARTS

APPROVAL OF SERVICE SUPPLIERS

Certificate No:
AOSS0000G9F
Revision No:
1

This is to certify that

Firetrace Safety Tec Pte. Ltd.

Singapore, Singapore

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 DNVGL-CP-0484.

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

This Certificate is valid until **2022-11-24**.

Issued at **Certification of Materials - Singapore** on **2020-06-09**



for **DNV GL**

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

Ng, Ken Tong Ken
Principal Surveyor / Project Manager

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Certificate No: **AOSS0000G9F**

Revision No: **1**

Application:

Following are manufacturer authorisation

No.	Maker	Type	Model
1	JIANGYINSHI BEIHAILSA 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, JYB52FF/FC, JYB66FF/FC, JYB75FF/FC.
		HOOKE:	JYBHK-20N, JYBHK-30N, JYBHK-40NA, JYBHK-40D, JYBHK-56F, JYBHK-60N, JYBHK-60D, JYBHK-85N, JYBHK-100.
		DAVITS:	SAC15, SA21/SAC21, SA21-A, SAC25, 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, PD50, PD85, PD115, PD145, PD175, FRH27, FRH27B, FRH50, FRH50N, EHRD18, EHRD30, SRH27, BHGP65, BHGP90, BHGP120, RB75-H, HB30, HB90, HB120, HDC2-10, HDC3-10, ESAD25, SM21.
		WINCHES:	D21Z, D21Z-A, D25Z, D30Z, D30Z-A, D35S/Z, D50S/Z, DW50S/Z, D63S/Z, D100S/Z, DW100S/Z, DW110S/Z, HW30, HW50, JYBW45L/R, JYBW53L/R, FFW25, FFW40.

No.	Maker	Type	Model
2	WUXI DONGWU MARINE EQUIPMENT CO., LTD.	GRAVITY LUFFING ARM DAVIT:	18KN, 25KN, 40KN, 50KN, 60KN, 60KN, 85KN, 110KN, T2.5, SK50.
		GRAVITY SLIDING TRACK DAVIT:	25KN, 30KN.
		FREE-FALL LIFEBOAT LAUNCHING APPLIANCE:	F55, F70, NPT100F.
		RESCUE BOAT/LIFERAFTS LAUNCHING APPLIANCES:	21KN (MANUAL) 21KN (ELECTRICAL) 21KN (ELECTRICAL/HYDRAULIC) 25KN (ELECTRICAL/HYDRAULIC) 35KN (ELECTRICAL/HYDRAULIC).
		ELECTRICAL BOAT WINCH:	DZY/Z21, DS*ZY25, DZ*ZY25, DS*ZY40, DZ*ZY40, D50S/Z, DS*ZY63, DZ*ZY63, D63S/Z, 80KN.
		RESCUE BOATS LAUNCHING APPLIANCES:	A30, H35.

Certificate No: **AOSS0000G9F**Revision No: **1**


No.	Maker	Type	Model
3	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	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, JY-HE95, JY-HE120, JY-HE155.
		TELESCOPIC BOOM TYPE DAVIT:	JY-TBD120, JY-TBD215, 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.

No.	Maker	Type	Model
4	WUXI MINGZI MACHINERY MANUFACTURING CO., LTD.	LIFEBOAT HOOK RELEASE MECHANISM:	HK40, WHK40, WHK65.
		DAVIT-LAUNCHED RESCUE BOAT MANUAL RELEASE HOOK:	15KN, 21-25KN.
		LIFERAFT/RESCUE BOAT MANUAL/AUTOMATIC RELEASE HOOK:	31-37KN.

No.	Maker	Type	Model
5	WUXI WENJIAO G.F.R.P FACTORY	TOTALLY ENCLOSED LIFE/RESCUE BOAT:	WJB50F, WJB50C, WJ57F, WJ57C, WJ58F, WJ58C, WJ57F, WJ75C.
		FREE-FALL LIFEBOAT:	WJ59FF, WJ59FC, WJ67FF, WJ67FC.
		RESCUE BOAT:	WJ40R, WJ45KR, WJ45D3, WJ45D, WJ55D, WJ60RA, WJ60RB.
		LIFEBOAT:	WJ45D, BJ55, BJ60, BJ65, BJ70, BJ75, BJ80, BJ85.
		RELEASE GEAR:	WJHK40, WJ30HK, WJ63HK.

Remarks:

The first job onboard a DNV GL class vessel to be arranged for practical demonstration. DNV GL to be informed for making necessary arrangement.



Certificate No: **AOSS0000G9F**
Revision No: **1**