

APPROVAL OF SERVICE SUPPLIERS

Certificate no.:
AOSS0000FG9
Revision no.:
4

This is to certify that

Bos Engineering Ghana Limited

Takoradi, Ghana

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 **2025-08-14** to (inclusive) **2028-08-13**.

This Certificate is issued on **2025-09-24**.



for **DNV**

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

Asamoah, Frederick

This Certificate may be withdrawn if: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 USD 300 000.

Application:

The approval is granted for maintenance, though examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear in accordance with **IMO MSC. 402(96)**. For limitations, refer to Remarks.

Remarks:

This certificate is approved for the servicing of LSA for annual and renewal maintenance for the following OEMs ONLY;

	Maker	Equipment type	Model Type specification
1	VANGUARDE	Lifeboats & Rescue Boat	VG/VG-FF/FC/KR/DB/DRS/DR4/HLB/HLB/FRK/FRW VG4.O, VG4.5, VG6.OFRK, VG6.OFRW
		Hook (LRRS)	C-SAFE/SPEARHEAD/HK/SHF
		Davit	LVD/PL/A/PLR/SHR/LR/VA/VAE/VAH/VL/VL-G/VS/VF/HSD
		Winch	DW/D/ DW/S/ SLR/DWP/ HW/PRH/ VW/S/ VW/Z
2	ZHENJIANG DH MARINE EQUIPMENT CO., LTD	Davit	FFH, HSD, LPLG, LE, MSD, PR, PRH, SGL
		Winch	DW, WME
3	NINGBO ASIA F.R.P BOAT MANUFACTURING CO., LTD	Rescue boat	YZ4.5, YZ4.5S, YZ4.5SA, Y260RB
		Totally Enclosed lifeboat/Rescueboat	Y25OC, YZ5OF, 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, L65S, LE8501
		Electrical lifeboat/rescueboat winch	DS25, DZ25, DS40,DS/Z40, YZD-42S, YZD-42Z, DS58, DZ58, DS50S, D50Z, D63S, D63S,D63Z,
		Single Arm rescue boat/liferaft boat launching appliance & crane	ZF21/15 DZ14, ZF21 DZ14, ZF23/15 DZ14, ZF23/15 DZ14, ZF23 DZ14, DF33 DZ25, B21/14, B21/14-2.5
Freefall lifeboat launching appliance	YZF55, YZF70, Release mechanism HK40, HK40B, YZHK40, YZHK40S		
4	ORIENTAL INSPECTION & SERVICE CO., LTD	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
5	WEST MARINE ENGINEERING PTE LTD	SINGLE-ARM DAVIT	WME- SAD14
		SINGLE-ARM MANUAL	WME- SAD23
		SINGLE-ARM DAVIT	WME- SAD30

		A-FRAME DAVIT-SEMI HYDRAULIC SYSTEM	WME- LR30
		A-FRAME DAVIT FULLY HYDRAULIC SYSTEM	WME- LRH35
		A-FRAME DAVIT FULLY HYDRAULIC SYSTEM	WME- LRH75
		CONVENTIONAL DAVIT	WME- MGD 185
		BOAT RAFT DAVIT	WME- HTD30
6	Qingdao Bheihai Boatbuilding co., Ltd	LIFEBOAT:	
		Total enclosed	BH-5,6,7,8,9,10 series, BH-E series
		Free fall	BH series
		Rescue boat	BH-R series, BH-HR series
		WINCH	BW-H(L/R);L(L/R);SC series; YSB/INI/BJM/HNY12 hydraulic winch series
		DAVIT:	
		Gravity pivot	
		Offshore	BD-PV series, BD-AR series
		Single arm	BD-PL series
		Freefall launching	BD-SA series, BD-SH series, FA36, RBD966
			BD-FF series
		RELEASE MECHANISM:	
Gravity lifeboat	BG-3/3R/3L/7/10;BH-HOOK3/5, FS5/7/10/13		
Freefall lifeboat	BG-3F3, 3.5F,4F,4.5F,4.5FL,5F,6F		
Rescue boat	BG-2R, Wuxi XS series,Jimo CS series		
7	HYUNDAI LIFEBOAT NETWORKS CO., LTD	DAVIT	HD,HT,HDL,HLB,HDF,HDFN,HDR & HDFR;
		WINCH	DRM, DRBD, BDH, BDTD, BDHP, BDTW, BDRW, BDM, BFOD, HDL, BHR, FF, HDFL, HDF, BDF, BDFD, BDR BDH, BDA, BDFA, BDL, BDR, BLR & BHI
		Release Mechanism series	DRM, DRBW, HLDF, BAW, BDF, BDFD, HDFL, HDF, BHI, BLR, BLW, BMW, BRW, BWL, BWR & FHW
8	DAVIT-COMPANY	Davits	LT, MP, NT, NT, SAP,ST,LA,LAR,PD,RSD,SPLCH,SPLDH, SRR,21/14,UDSP,UNIC,UDR,GT, HT,HP MT,MS,VIP, SA,SB,SCM,SCT,SPB,SPFRM, SPG,SPMOB,DR, SPR, FDS,FF,FFH,FME,FPG,JYF, MOB,NPD, NPDL, NPDS, NRD,OPD,ORD,PFH,PIVOT,PRHE
		WINCH	04,08,15,16,2,22,3,8, BE, BO, W,CW,LA,LW,TW,EB,EW,WP,WL,FB,FME,NP,NW



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		HOOKS	ARH, RRH,LRH,TITAN, TOR
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