



## Lloyd's Register Approved Service Supplier

<b>Supplier</b>	<b>BOS Engineering Ghana Ltd.</b>
<b>Address</b>	,P.O. Box. TD1304, Hos. No. PT79 Brasswood Lane, Baobab Avenue Windy Ridge, Takoradi, Ghana
<b>Contact Details</b>	E-mail : info@bosengineering.com
<b>Contact Number</b>	Tel. No. : +233 31 229 2369

The above company having been assessed hereby receives approval in accordance with the requirements of Lloyd's Register Procedures for Approval of Service Suppliers as Supplier from the address(es) listed above for the provision of

**Maintenance, thorough Examination, Operational Testing, Overhaul and Repair of Lifeboats and Rescue Boats, Launching Appliances and Release Gear**

This approval is restricted to personnel directly employed by the Service Supplier. It does not cover agents, subcontractors or subsidiaries.

Service Supplier's personnel are certified in accordance with a recognised national, international or industry standard - ISO23678 or a manufacturers certification programme for the equipment listed in the APPENDIX A.

This Service Supplier has been approved to service the equipment in accordance with IMO Resolution MSC.402(96), as amended.

Service engineers are to be provided with a valid Certificate, issued by this Approved Service Supplier, which defines their level of qualification and the scope of the certification (i.e. makes and types of equipment and specifically state which activities (e.g. annual thorough examination and operational tests; 5-year thorough examination, overhaul; overload operational tests; repairs) are covered by the certification). This Certificate should be made available when requested.

**Henry Cheta**

Graduate Surveyor - Nigeria to Lloyd's Register EMEA (Nigeria) Ltd Gte  
A member of the Lloyd's Register group

6th Floor, B Wing, Shippers Plaza, 4 Park Lane,  
Lagos, Apapa, Nigeria

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## Lloyd's Register Approved Service Supplier

<b>Surveys, Servicing And Testing Of Lifting Appliances</b>
Approved Make and Models: <b>1. DAVIT-COMPANY GERMANY</b> <b>2. ORIENTAL INSPECTION &amp; SERVICE CO., LTD</b> <b>3. CRALOG</b>
Personnel Certified for these services: 1. Prince Adu Kyei

  

<b>Servicing Of Inflatable Liferrafts, Inflatable Lifejackets, Hydrostatic Release Units, Marine Evacuation Systems</b>
Approved Make and Models: <b>1. SEA-AIR NINGBO NEPTUNE</b> 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
<b>2. LALIZAS</b> LALIZAS Inflatable Lifejackets LALIZAS OCEANO Davit-Launched LALIZAS OCEANO Open Reversible LALIZAS SOLAS OCEANO Davit-Launched Self-Righting LALIZAS SOLAS OCEANO Self-Righting LALIZAS SOLAS OCEANO Throw Over-board
Personnel for these services: 1. Prince Adu Kyei

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## Lloyd's Register Approved Service Supplier

<b>Service Of Immersion Suits, Thermal Protective Aids, And Chemical Protective Clothing</b>
Approved Make and Models: <b>1. LALIZAS</b> <b>2. DONGTAI CITY DONGFANG MARINE</b>
Personnel Certified for this service: 1. Prince Adu Kyei 2. Phillix Amoako 3. Prince Okyere

  

<b>Hydraulic Tests Of Low And High Pressure Cylinders</b>
Approved Make and Models: <b>1. VANZENTTI</b>
Personnel Certified for this service: 1. Prince Adu Kyei 2. Phillix Amoako

  

<b>Inspections And Maintenance Of Fire-Extinguishing Equipment And Systems</b>
Approved Make and Models: <b>1. DONGTAI CITY DONGFANG MARINE FITTING CO., LTD</b> <b>2. SRI</b> <b>3. SOLBERG ZHEJIANG YANING FIREFIGHTING EQUIPMENT CO., LTD</b>
Personnel certified for these services: 1. Prince Adu Kyei 2. Phillix Amoako 3. Prince Okyere

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## Lloyd's Register Approved Service Supplier

Inspections And Maintenance Of Self-Contained Breathing Apparatus
Approved Make and Models: <b>1. LALIZAS</b> <b>2. DONGTAI CITY DONGFANG MARINE FITTING CO. LTD</b>
Personnel certified for these services: 1. Prince Adu Kyei 2. Phillix Amoako 3. Prince Okyere

This approval is conditional upon the Supplier maintaining the documented scheme as audited by any member of the Lloyd's Register Group and hereby approved; and notifying Lloyd's Register in writing of any change to that scheme including any change in personnel, equipment or procedures. This certificate is issued to the Supplier and, subject to the Supplier complying with the necessary conditions, is valid to the date referred to above.





## Appendix A

Office: **Lagos**

Date: **03 September 2024**

This Certificate is issued to BOS Engineering Ghana Limited

The service supplier has been approved to service the following equipment in accordance with MSC 402 (96).

	<b>Maker</b>	<b>Model/Series</b>
<b>1</b>	BADA HEAVY INDUSTRIES (Ex D.R.M)	<p><b>DAVIT:</b> SERIES OF DRM, DRBD, BDH, BDTD, BDHP, BDTW, BDRW, BDM, BFOD, HDL, BHR, FF, HDFL, HDF, BDF, BDFD, BDR, BDH, BDA, BDFA, BDL, BDR, BLR &amp; BHI</p> <p><b>WINCH:</b> SERIES OF DRM, DRBW, HLDF, BAW, BDF, BDFD, HDFL, HDF, BHI, BLR, BLW, BMW, BRW, BWL, BWR &amp; FHW</p> <p><b>RELEASE MECHANISM:</b> SERIES OF BDR, BHA &amp; BHR</p>
<b>2</b>	DAVIT COMPANY	<p><b>DAVIT:</b> LT, MP, 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, FDA, FF, FFH, FME, FPG, JYF, MOB, NPD, NPDL, NPDS, NRD, OPD, ORD, PFH, PNOT, PRHE</p>
<b>3</b>	HLB (Ex HYUNDAI LIFEBOAT) CO., LTD	<p><b>LIFEBOAT AND RESCUE BOAT</b> SERIES OF HD, HT, HDL, HLB, HDF, HDFL, HDFN, HDR &amp; HDFR</p> <p><b>RELEASE MECHANISM</b> SERIES OF THP, TITAN, TALON &amp; TALON II</p>
<b>4</b>	NINGBO ASIA F.R.P BOAT MANUFACTURING CO., LTD	<p><b>RESCUE BOAT</b> - YZ4.5, YZ4.5S, YZ4.5SA, YZ60RB</p> <p><b>TOTALLY ENCLOSED LIFEBOAT/ RESCUE BOAT</b> – YZ50C, YZ50F, YZ65C, YZ65F, YZ65CS, YZ65FS, YZ75C, YZ75F</p> <p><b>FREE FALL BOAT</b> – YZ49FC, YZ49FF, YZ59FC, YZ59FF, YZ60FC, YZ60FF, YZ675FC, YZ675FF</p> <p><b>GRAVITY LUFFING ARM DAVIT</b> – L25, L50, YZL-55, L65, L65S, LE85-1</p> <p><b>ELECTRIC LIFEBOAT/RESCUE BOAT WINCH</b> – DS25, DZ25, DS40, DS/Z40, YZD-42S, YZD-42Z, DS58, DZ58, D50S, D50Z, D63S, D63Z</p> <p><b>SINGLE ARM RESCUE BOAT/LIFERAFTS BOAT LUNCHING APPLIANCES &amp; CRANE</b> – ZF21/15 DZ14, ZF21 DZ14 ZF23/15 DZ14, ZF23 DZ14 ZF33 DZ25, B21/14, B21/14-2.5</p> <p><b>FREE FALL LIFEBOAT LUNCHING APPLIANCES</b>-YZF55, YZF70</p> <p><b>RELEASE MECHANISM</b>- HK40, HK40B, YZHK40, YZHK40S</p>

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5	ORIENTAL INSPECTION SERVICE LIMITED	<b>HINGE GRAVITY TYPE DAVITY AND WINCH</b> DAVIT - HGD series, HGK SERIES, SHS SERIES, RTD SERIES, DHA SERIES, DMA SERIES WINCH – BWE SERIES, SWE SERIES, WL SERIES <b>FREE FALL DAVIT AND WINCH</b> FD SERIES, WL SERIES <b>RESCUE/LIFERAFT DAVIT AND WINCH</b> RD SERIES, RDW SERIES
6	VANGUARDE PTE LTD.	<b>LIFEBOAT and RESCUE BOAT</b> VG / VG-FF/FC / KR / DB / DRS / DR4 / HLB / HLBLR / FRK / FRW <b>HOOK (LRRS) - C-SAFE/ SPEARHEAD/ HK/SHF</b> <b>DAVIT - LVD / PL / A / PLR / SRH / LR / VA / VAE / VAH / VL / VL-G/ VS / VF</b> <b>WINCH - DW/D / DW/S / SLR / DWP / HW / PRH / VWL / VW/S / VW/Z</b>
7	WEST MARINE ENGINEERING PTE LTD	-
8	ZHENJIANG HD MARINE EQUIPMENT CO., LTD	DAVIT – FFH, HSD, LPLG, LE, MSD, PR, PRH, SGL WINCHES – DW, WME
9	<b>CRALOG</b>	<b>Service supplier personnels are certified in accordance with a recognised national, international or industry standard – ISO 23678</b> <b>Make and model/series as per below</b>
<b>DAVIT</b>		
	<b>MAKE</b>	<b>MODEL</b>
	ABAS	KDE-series, MDE-series
	ACEBI	A-, AF, PF, PFR, GRA, SPG, RRP, TPC, TPU, TPF
	ACTA	DR-series, HSC-series, MOB- series
	ALEXANDER RYAN	BH-series
	ARIM	AHA, ARPV-series
	BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	BDF, BDR, BDH - series
	BIANCHI & CHECCHI	PE-series, PET-series
	DAVIT INTERNATIONAL	D-FH, D-FO, D-NP, DTTSP, D-RT, D-NPS.SP SERIES
	DENIZSAN	DSFDD, DSFRB, DSRBD series
	DONGNAM MARINE CRANE CO., LTD.	DHGD, DSAD- series
	DSB ENGINEERING CO LTD	DSBDF, DSBARH, DSBDP, DSBDR, DSB DYL, DSB DL, DSB DTL, DSB23DR-series
	FASSMER	FHD, FPD-series
	GLOBAL DAVIT	FHS, GLRFP, GLPMP, GSPFP, GSPMP, GLPRT, GLPFLH, GLRFPH, GSPFLH, GSP.FPH, LMS, RMS, RHL, RHP, RHS, RHS, RHPHC-series
	GREBEN	FOD, GD-PD, GR-RTD, HD, HFF, RLC, SAR, SPG-series
	GURDESAN	GD-FFD, GD-KHK, GD-RSS-series
	HARDING	LA, SA, SRR, ORD, SPG - series
	IKNOW MACHINARY (TSUJI)	HD-series

JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	JYF, JYP, JYR, JYGR, JYHG-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	NPT- series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	JY-FH, JYPL, JYSA, JYPL, JYHE, JY-LFR-series
JIANGYINSHI BEIHAI	FA, FRH, PD, SA, SAC, SMR- series
MACGREGOR	HMD-series
MANSEI	ABD, AH, AV, EH, EM, FE, GRA, M, SAR--series
NED-DECK MARINE (PALFINGER)	FPG, PFH, PRH, PRHE, SCH, SCM, SCT, SEC-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	L, YZF, ZFDZ-series
NMF	BPK-series
NOR DAVIT	PL, SDP-series
NOREQ	NPD, NRD-series
ORIENTAL PRECISION	FD, FF, RD, SHS-series
PALFINGER	FF, FPG, NPD, NPT, PFH, SCH-R, SCM-L, SCM -R-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	BD-AR
REDROCK	RDA, RDT-series
SEKIGAHARA	AT,SF, SFA, SFB, SFP, SHS, STS-series
SEZAMOR	ZZ-ZOL-series, ZZ-ZOT-series
SHIN MYUNG TECH	SMRBD-SD, SMRB/LRD-series,
SURVIVAL SYSTEMS INT	PL-series
TSUJI HEAVY INDUSTRIES	H, RP, TC, T83 - series
VANGUARDE	DH, HS, LE, MS, PFH, PL, PRH, SRH, VL, VS
VERHOEF	FL-series
VIKING (NORSAFE)	A, C, D, E, HD, LH, NDA, NRB, SW
WELIN LAMBIE	LRW-series
WUXI DONGWU	Twin Fall Gravity Pivoting / Luffing(18KN-110KN), Twin Fall Gravity Roller Davit (25KN -30KN)
WUXI HUAHAI	HMB, HMDA, HMD, PD-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	PL-series
<b>RELEASE GEAR</b>	
<b>MAKE</b>	<b>MODEL</b>
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	BHA, BHA, BHR series
Balden	BD-LBH, BDHR series
BC SERVICE	U HOOK-series
DAVIT INTERNATIONAL	OLH, RH series
FASSMER	Duplex > 6t, Duplex - < 6.6 series
GLOBAL DAVIT	HR, HRN series

GREBEN	NLH-series
HARDING (UMO SCHAT HARDING)	ARH, FFH, RRH series
HATECKE	Duplex - > 6t, Duplex -<6t
HENRIKSEN	HCH, HMK-series
HLB (HYUNDAI LIFEBOATS)	Talon Mk 1, Talon Mk 2 series
HOI SENPAKU CO LTD	HS-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	JX 2, JXN3, series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	PNHKG series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	FHK, HK series
MANSEI	RH3-series
NED-DECK MARINE (PALFINGER)	CAR 35-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	HK-series
NISHI-F CO., LTD, (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	HIM/ 12 /13 series
PALFINGER	CAR35F, FFH, KISS, LHR Mk 1, LHR Mk 2, RRH series
SEZAMOR	HS series
SHIGI SHIPBUILDING CO. LTD.	SRS, SZK5, SZK30, series
SSI	SURESAFE, TRIPLE 5, TRIPLE 5 LX-series
SURVITEC	SAFELAUNCH-series
VANGUARDE	S, C-safe series
VERHOEF	Twist lock series
VIKING (NORSAFE)	GES, K4, Tor Mk1, Mk 2, Nadiro DIB series
WILLIAM MILLS	Titan series
WUXI XINGSHENG	XS series

#### **SURVIVAL CRAFT & RESCUE BOATS**

<b>MAKE</b>	<b>MODEL</b>
ACEBI	TELB, PELB series
AVON	RB, SR series
BALDEN	BD-FF, BD-LB series
DAFER (NARWHAL)	SV-series
DSB DEUTSCHE SCHLAUCHBOOTE	IRB series
DSB ENGINEERING CO LTD	DSBC, DSBF, DSBRFA, DSBFC, DSBFF series
FASSMER	CFL, CL, CL-P, CLR, CLX, DRAGON, GAR, GMR, SEL, PLL, PLT, RR series
GEPA	FFF, G-FK, G-FYK, G-RB series
GREBEN	FFL, RB, TEL series
HARDING (UMO SCHAT HARDING)	FF, MCB series
HATECKE	GFF, GSL, PEL, RB series
HLB (HYUNDAI LIFEBOATS)	HDL, HDR, HDFN, HLB, series
HOI SENPAKU CO LTD	HS-series
JAPAN MARINE UNITED CORP	GF, GTR series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	JY, GJ, GZ, JYFF, JYQF series

JIANGYIN NEPTUNE	NPT-C, NPT-F, FCA, NPT-F, NPTR, NPTRA, NPTRFA -series
JIANGYIN WOLONG F.R.P BOAT CO. LTD.	JYFA, JY-C, JY-CA, JYCF, JYP series
JIANGYIN XINGJANG	GJ-450, GJ-6.0. B, JY-FN series
JIANGYINSHI BEIHAI	JYB-C, JYB-FF, SC-KR series
MARE SAFETY	RB-series
MULDER EN RIJKE	TELB-series
NARWAL	SV-series
NED-DECK MARINE (PALFINGER)	NPT-series
NINGBO ASIA F.R.P BOAT MANUFACTURING CO LTD	BJ, YZ, YZC, YZFF series
NISHI-F CO., LTD, (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	FF, EML, PML, series
NOREQ	LBF, LBT, RRB series
PALFINGER	CTL, FF, MPC, NPT, RSQ series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD	BH, BH-R, BH-HR, BH-F series
SHIGI SHIPBUILDING CO. LTD.	FEL, SZPR, VOX46 series
SURVITEC	FF, SC series
SURVIVAL SYSTEMS INT	CA series
TSUNEISHI	TL series
VANGUARDE	VG-C, VG-F, VG-HLB, VG-KR series
VIKING (NORSAFE)	GES, JYN, Maud, Maggie, Maxima, Minima, Miram, series
WATERMAN OY	351, 377, 393 series
WUXI HAIHONG BOAT MAKING CO., LTD	HH-C/ S, HH-FC / FC, HH-T/S, JG series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	YH-FRA, YH-FRB, YH-DR, YH-QFP, YH-R series

**WINCH**

<b>MAKE</b>	<b>MODEL</b>
ACEBI	TBE-series
ALEXANDER WELIN	AIW-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	BA, BDF, BLW, BM, BMW, BRW, PWD series
DAVIT INTERNATIONAL	01, 02, 04, 40 series
FASSMER	FFWH-series
GLOBAL DAVIT	01, 02, 04, 08, 10, 14, 20, 26 series
GREBEN	EW, HW-series
GURDESAN	GD-FLW, GD-HC-A-series
HARDING (UMO SCHAT HARDING)	BE, CW, HD, MW, W-series
HATECKE	FFA-series
HYDRALIFT	SP-series
IKNOW MACHINERY	EB-series
JAPAN MARINE UNTIED CORP	MU-series
JIANGYINSHI BEIHAI	DW-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P CO. LTD)	JYWP-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	DS, DW-series
JIANGYIN WOLONG F.R.P BOAT CO. LTD	JYD-series

MANSEI	CMW, FW, MW, SW, 06 series
NED-DECK MARINE (PALFINGER)	04, HWCT, 15-series
NOR DAVIT	SP-series
ORIENTAL PRECISION	BWE, SWE-series
PALFINGER	CW, W-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	BW-HL, BW-LL-series
SEC	WL-series
SEKIGAHARA	SNW-series, SWE-series
SURVIVAL SYSTEMS INT.	W-series
TSUJI HEAVY INDUSTRIES	EB, TC-series
VERHOEF	FL 50-series
WELIN LAMBIE	53, 55, 97, 5619, 9502 series
WUXI DONGWU	DS/Z-series, DZ-series
WUXI HUAHAI	HMW-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	DP-series
ZOLLERN	ZR-series

This Appendix shall be attached to the Service Supplier certificate LR24122934AS, and no signature required as this is issued electronically.

Henry Cheta  
Surveyor to Lloyd's Register West Africa Limited

a member of the Lloyd's Register group.