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Certificate No: LR23244257AS Issue Date: 23/03/2023 Expiry Date: 22/03/2026

Lloyd's Register Approved Service Supplier

Supplier Mapamar Comercio e Serviços

Address Rua Ricardo Machado, 156 - A, CNPJ 02.708.090/0001-03, Rio De Janeiro, RJ,

20921-270, Brazil

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Contact Number +55 21 3295-2600

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 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.

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.

Ricardo Barreto

Senior Surveyor to Lloyd's Register Do Brasil Ltda

A member of the Lloyd's Register group

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Appendix A

Office: Rio de Janeiro

Date: 23 March 2023

This Certificate is issued to MAPAMAR COMÉRCIO E SERVIÇOS.

No.	Maker	Туре
1	HYUNDAI-BADA/HLB	Lifeboat/Rescue Boat: HD; HT; HDL; HLB; HDF; HDFL; HDFN; HDR; HDFR. HDFR. - Release Mech: THP; Talon; Talon II, BDR; BHA; BHR Davit: DRM; BDH; BDTD; BDHP; BDTW; BDRW; BDM; BFOD; HDFL; HDF; BFD; BDR; BDH; BDA; BDF, BDR; BHI. - Winch: DRM; DRBW; BAW; BDF; BHI; BLR; BLW; BMW; BRW; BWL; BWR; FHW
2	SEIKIGAHARA SEISAKUSHO	Lifeboats/Rescue Boat, Davit: SH; SFB; SHS; STS; SSS; SFS; SFA; SFC; SFD; SJS; SJR.
3	VESTDAVIT	Davit: D-5000; F-10000; H-6000; H-9000; H-13000; H-20000; HN-9000; HN-9003; HN-10000; HNC-11000/5500; HFN-8500; L-2500; L-3500; PAP-3250; PAP-5000; PAP-6000; PAP-9000; PAP-16000; PAPh-7000; PAPH-6000; PL-1200; PL-1000; PL-1500; PL-2000; PL-2501; PL-3600R; PLi-2000; PLA850; PLA-2500; PLAR-3600; PLAR-4000; PLAR-4500; PLAR-6500; PLD-4000; PLD-5000; PLH-4000; PLR-3600; PLR-3601; PLR-3602; PLR-5000; PLR-5002; PLR-6000; PLR-7000; PLR-8001; PÇR-10002; PLR-12004; PLR-12005; PLR-15000; PLRH-5000; PLR-3601; PLRS-3602; PRLS-4000; TDB-3603; TBD-5000; TBD-12000; TBD-12001; TSB-2500; TSB-2500L; TSB-10000.
4	ORIENTAL INSPECTION AND SERVICES CO.	Davit: HGD; HGK; SHS; RTD; DHA; DMA - Winch: BWE; SWE; WL - Freefall Davit and Winch: FD; WL - Rescue/Liferaft Davit: RD; RDW.
5	JIANGSU JIAOYAN MARINE EQUIPMENT CO.	Freefall: JY-FN-4.9; JY-FF-4.9; JY-FN-5.8; JY-FF-5.8; JY-M-FN-6.65; JYM-FF-6.65; JY-FN-6.8; JY-FF-6.8; JY-FN-7.5; JY-FF-7.5; JY-FN-8.5; JY-FF-8.5; JY-FN; FF-9.5. - Rescue Boat: GJ4.2; GJ4.25; GJ4.5; GJ5.0; GJ5.25; GJ6.0B-1; GJ6.10; GJ7.50; GJ8.0Q-2; GJ8.5Q-2. - Totally Enclosed Lifeboat: JY-QFP/N-5.0; JY-QFP/N-5.25; JY-QFP/N-5.6; JY-QFP/N6.0A; JY-QFP/N-6.50; JY-QFP/N-7.0; JY-QFP/N-7.5; JY-QFP/N7.50A; 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 Hook: JX & JXN. - Gravity Luffing Arm Type Davit: JYL52; JYL55; JYL65; JYL85; JYL105; JYL135. - Launching Appliances: JYF55; JYF75; JYF75-B; JYF90. - Platform Davit: JYP65; JYP85; JYP105; JYP135. - Single Arm Davit: JYR21; JYR215-A; JYRC21; JYR14; JYRH14; JYRH21; JYR26; JYR30; JYR23 Electric Boat Winch: FW45; JYW42; JYW50; JYW70; JYWP100; JYWP100; JYWP135; JYW35; JYR321.
6	ABAS	-Davit: MDE, KDE series.
7	ACEBI	-Lifeboat & Rescue Boat: TELB, PELB seriesWinch: TBE series.

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		-Davit: A, AF, GRA, PF, PFR, RRP, SPG, TPC, TPF, TPU series.
8	ACTA	-Davit: DR, HSC, MOB series.
9	ALEXANDER RYAN	-Davit: AREH, BH series.
10	ALEXANDER WELIN	-Winch: AIW series.
11	ARIM	-Davit: AHA, ARPV series.
12	AVON	-Lifeboat & Rescue Boat: RB, SR series.
13	ВС	-Release Gear: U Hook.
14	BADA HEAVY INDUSTRIES	-Release Gear: BHA, BHR series
		-Winch: BA, BDF BLW, BM, BMW BW, BRW, PWD series.
		-Davit: BDF, BDH, BDL, BDR, BFR, BHI, HDF series.
15	BALDEN	- Lifeboat & Rescue Boat: BD-FF, BD-LB series.
		-Release Gear: BD-LBH, BDHR series.
16	BEIHAI	-Release Gear: BG, HKF series.
		-Davit: BHG series.
17	BIANCHI & CECCHI	-Davit: (BC) PE, PET series.
18	DAFER/NARWHAL	-Lifeboat & Rescue Boat: SV series.
19	DAVIT INTERNATIONAL	-Release Gear: OLH, RH series.
		-Winch: 01, 02, 03, 04, 06, 07, 12, 40 series.
		-Davit: BR, CRM, D-FH, D-FO, D-NP, D-NPSP, D-NPS.SP, D-RT, D-TT.SP,
		MP, SP series.
20	DENIZSAM	-Davit: DSFDD, DSFRB, DSRBD series.
21	DONGNAM MARINE CRANE CO LTD	-Davit: DHGD, DSAD series.
22	DSB DEUTSCHE SCHLAUCHBOOTE	-Lifeboat & Rescue Boat: IRB series.
23	DSB ENGINEERING CO LTD	-Lifeboat & Rescue Boat: MB Series. -Lifeboat & Rescue Boat: DSBC, DSBF, DSBP, DSBR, DSBRFA, DSBFC,
23	DSD ENGINEERING CO ETD	DSBFF series.
		-Davit: DSBARH, DSBDF, DSBDL, DSBDP, DSBDR, DSBDTL, DSBDYL,
		DSB23DR series.
24	FASSMER	-Lifeboat & Rescue Boat: CFL, CL, CL-P, CLR, CLX, DRAGON, GAR,
	TA SSIVIER	GMR, SEL, PLL, PLT, RR series.
		-Release Gear: Duplex > 6t, Duplex - < 6.6, FFH45 series.
		-Winch: FFWH series.
		-Davit: FHD, FPD series.
25	GEPA	-Lifeboat & Rescue Boat: FFF, G-FK, G-FYK, G-RB series.
26	GLOBAL DAVIT	-Release Gear: HR, HRN series.
		-Winch: 01, 02, 04, 08, 10, 14, 20, 26 W05HC, W08HC, WS series.
		-Davit: Fhs, Glp.Flh, Glp.FP, GlpFpH, Glp.MP, GLp.RT, GSP, Gsp.FLh,
		Gsp.FP, GSP.FPh, Gsp.MP, Lms, Rhl, Rhp, Rhp.HC, Rhs, Rhs.HC,
		Rml.Lml, Rms, Rsp.O, RT series.
27	GREBEN	-Lifeboat & Rescue Boat: FFL, RB, TEL series.
		-Release Gear: NLH series.
		-Winch: EW, HW series.
		-Davit: FOD, GR-RTD, HD, HFF, GD-PD, RLC, SAR, SPG series.
28	GURDESAN	-Winch: GD-FLW, GD-HC-A series.
		-Davit: GD-FFD, GDKHK, GD-RSS series.
29	HARDING	-Lifeboat & Rescue Boat: FF, MCB series.
		-Release Gear: ARH, FFH, KISS, LHR Mk1, LHR Mk2, RRH series.
		-Winch: BE, FME, CW, HD, LN, MW, W series.
		-Davit: FPG, ORD, SPG series.
30	HARDING SAFETY	-Lifeboat & Rescue Boat: MCB, PEL series.
		-Davit: FF, HD, LA, PD, RT, SA, SPG, SRR, VIP series.
31	HATECKE	-Lifeboat & Rescue Boat: GFF, GSL, PEL, RB series.
		-Release Gear: Duplex > 6t, Duplex - < 6t, GFF simplex 1.1, 2.0i series.
		-Winch: FFA series.
32	HENRIKSEN	-Release Gear: HMK HCH series.
33	HOEI SENPAKU	-Lifeboat & Rescue Boat: HS series.

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		-Release Gear: HS series.
34	HYDRALIFT	-Winch: SP series.
		-Davit: HL series.
35	HYDRAMARINE	-Davit: HMC, HMD, TTS T series
36	HYUNDAI	-Lifeboat & Rescue Boat: HD, HDL, HDR, HDFL, HDFN, HLB seriesRelease Gear: Talon Mk1, Talon Mk2 series.
37	IKNOW MACHINERY (TSUJI)	-Winch: Eb series.
	, ,	-Davit: HD series.
38	JAPAN MARITIME UNITED CORP	-Lifeboat & Rescue Boat: GF, GTR series.
		-Winch: MU series.
39	JIANGSU JIAOYAN (JIANGYIN XINJIANG F.R.P. CO., LTD)	-Lifeboat & Rescue Boat: JY, GJ, GZ, JYFF, JYQF series.
		-Release Gear: JX2, JXN 1B, JXN3 series.
		-Winch: JYWP series.
		-Davit: JYF, JYGR, JYHG, JYP, JYR series.
40	JIANGYIN NEPTUNE	-Lifeboat & Rescue Boat: NPT-C, FC, FCA, NPT-F, FF, FFA, NPTR, NPTRA,
		NPTRB, NPTRFA series.
		-Release Gear: HK, PNHKG series.
		-Winch: DW, DS series.
		-Davit: DF, DL, DP, DR, DYL, NPT series.
41	JIANGYIN WOLONG	-Lifeboat & Rescue Boat: F, FA, FF, JY-C, JY-CA, JYCF, JYP series.
		-Release Gear: FHK, HK series.
		-Winch: JYD series.
		-Davit: JY-FH, JYHE, JYLFR, JYPL, JYSA, LRHE, PLR series.
42	JIANGYIN XINJANG	-Lifeboat & Rescue Boat: GJ-450, GJ-6.0.B, JY-FN series.
		-Release Gear: JX2, JXN 1B, JXN3 series.
43	JIANGYINSHI BEIHAI	-Lifeboat & Rescue Boat: F, FC, JYB-B, JYB-C, JYB-FF, JYB-KR, JYB-R,
		LBH, SC-KR series.
		-Winch: D, DW, 50kn, 65 kn, PF series.
		-Davit: FA, FRH, HB, LB, LB-H, PD, SA, SAC, SMR, RB, 65kn series.
44	MACGREGOR	-Davit: HMD series.
45	MANSEI	-Release Gear: RH3.
		-Winch: BA, BH, CMW, FW, LBE, LBH, MW, RBE, RBH, SW, 06 series.
		-Davit: ABD, AH, AV, EH, HER, EM, FE, FH, GRA, M, SAR, SPG(VL)
		series.
46	MARE SAFETY	-Lifeboat & Rescue Boat: RB series.
47	MULDER & RYKE	-Totally Enclosed Lifeboat / Rescue Boat series
48	NARWAL	-Lifeboat & Rescue Boat: SV series.
49	NED DECK	-Lifeboat & Rescue Boat: NPT series.
		-Release Gear: CAR35.
		-Winch: 04, HWCT 15 series.
		-Davit: FPG, PFH, PRH, PRHE, SCH, SCM, SCT, SEC series.
50	NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	-Lifeboat & Rescue Boat: BJ, YZ, YZC/F, YZFF/FC series.
		-Release Gear: HK series.
		-Davit: L, YZF, ZFDZ series.
51	NISHI	-Lifeboat & Rescue Boat: FF, G, EML, PML, SM series.
		-Release Gear: HIM / 12/ 13 series.
52	NMF	-Davit: BPK series.
53	NOREQ	-Lifeboat & Rescue Boat: LBF, LBT, RRB series.
		-Davit: NPD, NPDS, NRD series.
54	NOR DAVIT	-Winch: NW, SP series.
		-Davit: PL, SDP series.
55	ORIENTAL PRECISION	-Winch: BWE, SWE series.
		-Davit: FD, FF, HDG, RD, SHS series.
56	PALFINGER	-Lifeboat & Rescue Boat: CTL FF, KISS, MPC, NPT, RSQ series.
		-Release Gear: ARH, CAR35, CAR35F, FFH, KISS, LHR Mk1, LHR Mk2,

		DDLL series
		RRH seriesWinch: 04, 15, BE, FME, CW, HD, HWCT, LN, MW, W series.
		-Davit: FF, FPG, NPD, NPT, PFH, SCM-L, SCH-R, SCM-R, VIP series.
57	REDROCK	-Davit: RDA, RDT series.
58	ROCLOC	-Release Gear: RocLoc series.
59	QINGDAO BEIHAI	-kelease Geal: Noctoc series. -Lifeboat & Rescue Boat: BH, BH-R, BH-HR, BH-F Dolphin series.
25	QINGDAO BEITIAI	-Winch: BW-LL, BW-HL series.
		-Davit: AR, BD, BD-AR, BD-FF, EHRD, FA, FRH, PL, PV, SA series.
60	SEC	-Winch: WL.
61	SEKIGAHARA	-Winch: SNW. SWE series.
01	SEING/ (II) (IV)	-Davit: AT, SF, SFA, SFB, SFP, SHS, SSS, STS series.
62	SEZAMOR	-Release Gear: HLR18, HS series.
		-Davit: ZZ-ZtJ, ZZ-ZtJ2, ZZ-ZOL, ZZ-ZOT series.
63	SCHAT HARDING	Winch: BE, HD, MW series.
64	SHIGI	-Lifeboat & Rescue Boat: FEL, SZ, SZPR, VOX46 series.
		-Release Gear: SRS, SZK5, SZK30 series.
65	SHIN MYUNG	-Davit: SMRBD-SD, SMRB / LRD series.
66	SSI	-Release Gear: SureSafe, Triple 5, Triple 5 LX.
		-Winch: W series.
67	SURVITEC	-Lifeboat & Rescue Boat: FF, SC series.
		-Release Gear: SafeLaunch series.
68	SURVIVAL SYSTEM INT	-Lifeboat & Rescue Boat: CA series.
		-Davit: Pl series.
69	TSUJI HEAVY INDUSTRIES	-Winch: EB, TC series.
		-Davit: H, RP, TC, T83 series.
70	TSUNEISHI	-Lifeboat & Rescue Boat: TL, KL series.
71	VANGUARDE	-Lifeboat & Rescue Boat: VG-C, VG-F, VG-HLB, VG-KR, VG-DR series.
		-Release Gear: S, C-safe series.
		-Davit: DH, HS, LE, MS, PFH, PL, PR, PRH, SRH, VL, VS series.
72	VERHOEF	-Lifeboat & Rescue Boat: DR, FL-50 series.
		-Release Gear: Twistlock series.
		-Winch: FL 50 series.
		-Davit: FL-50, L, PA, PLAR, PLD, PLR, TBD series.
73	VIKING / NORSAFE	-Lifeboat & Rescue Boat: GES, JYN, NJYN, Maud, Maggie, Maxima,
		Minima, Miram series.
		-Release Gear: GES, K4, Tor Mk1, Mk2, Nadiro DIB series.
		-Davit: A, C,D ,E, H, HD, LH, NDA, NDSC, NRB, SW series.
74	VIKING / NORSAFE / NARWHAL	-Lifeboat & Rescue Boat: Matrix, Midget, FRB series.
75	WATERCRAFT	-Lifeboat & Rescue Boat: Mk 1, 2, 3, 4, 5 series.
		-Winch: NW, MW series.
7.6	NAVATERNAANI	-Davit: WRG series.
76	WATERMAN	-Lifeboat & Rescue Boat: 351, 361, 363, 372, 374, 377, 378, 382, 391,
77	NA/ELINI LANADIE	393 series.
77	WELIN LAMBIE	-Winch: 55, 5619, 53, 9502, 97 series.
70	NAVILLIANA NALICE / LIADDINIC	-Davit: LRW series.
78 70	WILLIAM MILSS / HARDING	-Release Gear: Titan series.
79	WUXI DONGWU	-Winch: DS/Z, D/Z seriesDavit: Freefall Lifeboat Davit (f55-f70), Gravity – Luffing Arm (18Kn-
		110Kn), Gravity Rescue Boat / Raft Davit (21Kn-35Kn), Gravity Rolling
		Type Davit (25Kn-30Kn) series.
80	WUXI HAIHONG	-Lifeboat & Rescue Boat: HH-C/S, HH-FC/FC, HH-T/S, JG series.
81	WUXI HUAHAI	-Winch: HMW series.
	WOMITOATIAL	-Davit: HMB, HMD, HMDA, PD series.
82	WUXI XINGSHENG	-Release Gear: XS series.
83	ZHENJIANG MARINE	-Lifeboat & Rescue Boat: YA-FRA, YH-FRB, YH-DR, YH-QFP, YH-R

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		series.
		-Winch: DP series.
		-Davit: PL series.
84	ZOLLERN	-Winch: 7R series

Ricardo Toscano Barreto Surveyor to Lloyd's Register do Brasil Ltda.

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