

**ILUSTRÍSSIMO SENHOR PREGOEIRO DA COMISSÃO DE LICITAÇÃO DA SCPAR
PORTO DE IMBITUBA S.A.,**

Pregão Eletrônico nº 020/2021
Licitação Eletrônica nº 880287

TECHNOMAR ENGENHARIA LTDA., sociedade empresária limitada, inscrita no Cadastro Nacional da Pessoa Jurídica do Ministério da Fazenda sob o nº 05.285.488/0001-64, com sede na Cidade de São Paulo, Estado de São Paulo, na Avenida Pedroso de Moraes, 631 CJ112, neste ato representada por seu sócio administrador, vem à presença de V. Sa. para apresentar **Recurso administrativo, com efeito suspensivo**, com fundamento no item 7.2 do Edital e art. 4º, XVIII, da Lei nº 10.520, de 17.07.2002, em razão do não cumprimento pela SLI Meio Ambiente e Infraestrutura Eireli, vencedora do certame em referência, das condições mínimas exigidas pelo Edital de Pregão Eletrônico nº 020/2021 o que, por consequência, impede a sua contratação, devendo ser anulados os atos que habilitaram e declararam a citada empresa como vencedora do certame, pelas razões que passa a expor.

I – Descumprimento dos itens e 6.5.4, “c” e “c.1” do Edital e item 5.3 do Termo de Referência.

(a) Certidão de Acervo Técnico - CAT imprestável: inexistência de menção à simulação de manobras de navios.

A Certidão de Acervo Técnico - CAT apresentada pela SLI Meio Ambiente, emitida pelo CREA em 23.01.2019 e baseado em atestado da Cargil Agrícola S.A. datado de 13.12.2018, faz uma descrição e referência a estudos de projeto portuário. Contudo, essa CAT é completamente omissa quanto a atividade de simulação de manobras de navios, objeto da contratação deste certame.

As atividades contempladas na CAT têm sua origem no atestado, mais especificamente na tabela de “atividades e quantitativos”. Esta tabela não faz qualquer menção a simulação de manobrabilidade.

Sendo assim, a referida CAT não apresenta nenhuma das características de “Direção, supervisão, coordenação e/ou execução de estudos de simulação de manobras de navios”, conforme requisito mínimo exigido no item 6.5.4 - Qualificação Técnica, subitem c.1) do edital de licitação. E nem poderia, visto que dentre os profissionais da SLI Meio Ambiente mencionados no citado atestado,

não há um único Engenheiro Naval, sendo este o único profissional responsável pela condução de atividades referentes a embarcações, conforme resolução Nº 218, de 29 junho 1973, do Conselho Federal de Engenharia e Agronomia.

Portanto, reitere-se por sua gravidade: inexistente na Certidão de Acervo Técnico apresentada pela empresa SLI Meio Ambiente qualquer menção à simulação de manobras de navios.

Portanto, a SLI Meio Ambiente não fez prova de que tem a aptidão ou qualificação necessária para a prestação dos serviços objeto do pregão em referência, descumprindo um item fundamental do edital de licitação.

Com o devido respeito aos demais profissionais arrolados pela SLI Meio Ambiente e por suas qualificações, mas como nenhum deles possui a qualificação exigida pelo Edital, que é **exclusiva** de Engenheiro Naval, novamente e por mais este motivo restou comprovada a falta de qualificação técnica da citada empresa – e de seus profissionais – para o desempenho das atividades objeto do certame.

Portanto, pelo exposto, a SLI Meio Ambiente não apresentou qualquer Certidão de acervo que comprove ter ela – ou os profissionais a ela vinculados – a qualificação para desenvolver projeto de simulação em manobras de navios, conforme exigido pelo item 6.5.4, “c” e “c.1” do Edital.

Sendo assim o item 6.3 do edital determina que “o Licitante que não atender as exigências do Edital será *inabilitado*” devendo o Pregoeiro examinar a documentação da Technomar, segunda colocada na classificação das propostas.

(b) Ausência de comprovação da existência de 2 Simuladores e nada sobre o modelo matemático: desrespeito ao Edital\Termo de Referência.

A SLI Meio Ambiente e Infraestrutura Eireli (SLI Meio Ambiente) deixou de apresentar em sua documentação técnica, conforme exigido no item 5.3 do Termo de Referência, a prova de que dispõe de um Centro de Simulação com os seguintes equipamentos/funcionalidades:

- 1 Simulador FullMission com visão de no mínimo 280° de visualização e sistema de visualização com projetores ou televisores
- 1 Simulador TugStation, com visão de no mínimo 280° de visualização e sistema de visualização com projetores ou televisores, integrado ao Simulador Full-Mission
- Sala de Briefing / Debriefing, com recursos de acompanhamento da simulação (som, câmeras, dados técnicos da manobra)
- Sistema de Acompanhamento Remoto das Simulações (com a pandemia de COVID 19, deve-se prever a possibilidade de autoridades e outros participantes acompanharem a simulação e participarem das discussões de forma remota)
- Modelo Matemático de Manobras voltado para estudos de pesquisas e engenharia, comprovado através de publicações técnicas em revistas ou congressos científicos e filiação em associações internacionais que agregam Centros de Simulação de Manobras destinados a pesquisa e engenharia (PIANC, ITTC, IMSF ou outra)
- Apresentação de Atestado (s) de CapacidadeTécnica fornecidos por empresas públicas ou privadas que comprovem experiência do Centro de Simulação em estudos correlatos.

Em que pese a clareza do termo de Referência, não há na documentação ofertada pela SLI Meio Ambiente qualquer menção à existência de 2 Simuladores com pelo menos 280° Graus de visualização, bem como deixou de detalhar o modelo matemático utilizado nesses simuladores.

Deveria ter instruído sua proposta com evidências claras, inclusive fotográficas e videográfica, e informações detalhadas sobre as características dos equipamentos e do modelo matemático que utiliza. Neste sentido, tudo indica que a SLI Meio Ambiente além de não dispor de tais equipamentos, não possui a inteligência – modelo matemático – necessário ao funcionamento de simuladores de manobras de navios o que poderia inclusive gerar relevantes riscos à segurança do tráfego aquaviário, com consequências seríssimas que poderiam chegar à perda de vidas humanas e a danos materiais e ambientais relevantes.

Além disso, no atestado de capacidade técnica apresentado, é citado que a SLI Meio Ambiente teria realizado simulações de em simulador certificado pela DNV como classe A. No entanto esta informação é inverídica, visto que não existia sequer um simulador certificado pela DNV como classe A no Brasil no ano de 2018 - e o atestado afirma que os serviços foram realizados no Brasil –, conforme lista divulgada pela própria DNV em 2018 (documento em anexo).

Essas gravíssimas e insanáveis omissões seriam suficientes para demonstrar que a SLI Meio Ambiente deixou de cumprir com os requisitos mínimos do Edital, razão pela qual deve ser inabilitada tecnicamente. Contudo, a citada empresa deixou de atender outros requisitos, conforme explicitado no subitem anterior.

II – Conclusão e Requerimentos

Pelas razões expostas, a SLI Meio Ambiente não só **não** demonstrou ter capacidade técnica, como omitiu em sua proposta informações essenciais sobre a existência de 2 Simuladores e sobre o modelo matemático por ela supostamente utilizado nesses simuladores.

Tais vícios, insanáveis e gravíssimos, levam necessariamente à anulação da habilitação e da declaração da SLI Meio Ambiente como vencedora do certame, devendo esse prosseguir, após a anulação desses atos, com os demais licitantes, na forma da lei. É o que requer.

Termos em que,

Pede Deferimento,

São Paulo, 13 de setembro de 2021.

TECHNOMAR ENGENHARIA LTDA.

Fabiano Pinheiro Rampazzo
CPF: 290.703.648-32
Sócio Administrador

SIMULATORS BY TYPE OF CERTIFICATE

CERT.	SIMULATOR TYPE	NAME	SIMULATOR NAME	CLASS	COUNTRY	CERT. NO.	EXPIRY DATE
SOC	Bridge Operation	Transas Marine Limited	NTPRO 5000 NAVIGATIONAL BRIDGE	A	Ireland	002/180504	04.05.2023
SOC	Bridge Operation	Applied Research Intenational (ARI)	ARI-NAVSIM10000λn - Offshore Bridge Operation Simu	A	India	002/180511	11.05.2023
SOC	Bridge Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Navigation	A	Norway	001/131107	07.11.2018
SOC	Bridge Operation	Rheinmetall Electronics GMBH	Advanced Nautical Simulator 6th. Generation	A	Germany	001/17/1122	22.11.2022
SOC	Bridge Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Polaris Ship's Bridge Simulator	A	Norway	001/171101	01.11.2022
SOC	Bridge Operation	Japan Marine Sience Inc.		A	Japan	001/171002	02.10.2022
SOC	Bridge Operation	BMT Ship & Coastal Dynamics Ltd.	REMBRANDT Simulator	S	United Kingdom	001/170531	31.05.2022
SOC	Bridge Operation	Be-software srl	Be-software Lanterna Software	A	Italy	001/170627	27.06.2022
SOC	Bridge Operation	Elektronik Lab	ELAB-NAV-E	S	India	001/180403	03.04.2023
SOC	Bridge Operation	Applied Research Intenational (ARI)	ARI-NAVSIM10000λn - ECDIS and RADAR/ARPA Simulato	A	India	003/180511	11.05.2023
SOC	Bridge Operation	STSTC Pte., Ltd.	NTS-Pro 6000	A	Singapore	001/160523	23.05.2021
SOC	Bridge Operation	Rheinmetall Electronics GMBH	Advanced Anchor Handling Simulator	A	Germany	001/150909	09.09.2020
SOC	Bridge Operation	Instituto de Ciências Náuticas - ICN	NavDrill Player	S	Brazil	001/170214	14.02.2022
SOC	Bridge Operation	Offshore Simulator Centre AS	OFFSHORE SERVICE VESSEL AHTS (SIM)	A	Norway	001/1001	01.10.2020
SOC	Bridge Operation	Marin	Marin Full Mission Bridge Simulator	S	Netherlands	001/151209	09.12.2020
SOC	Bridge Operation	Image Soft OY	Full Mission Bridge Simulator	A	Finland	001/160212	12.02.2021
SOC	Bridge Operation	Image Soft OY	ECDIS training simulator	S	Finland	003/131017	17.10.2018
SOC	Bridge Operation	Applied Research Intenational (ARI)	ARI-NAVSIM10000λn - Navall Warship Simulator	A	India	001/180511	11.05.2023
SOC	Bridge Operation	Virtual Marine Technology	NetSim™ SEN-L	S	Canada	001/140508	08.05.2019
SOC	Bridge Operation	Applied Research Intenational (ARI)	ARI-NAVSIM10000λn - Ship Types	A	India	023/180511	11.05.2023
SOC	Bridge Operation	ECA SINDEL SRL	Mistral 4000	A	Italy	001/130906	06.09.2018
SOC	Bridge Operation	VSTEP	Nautis Ship Simulator	A	Netherlands	001/140305	05.03.2019
SOC	Bridge Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Offshore	A	Norway	002/131107	07.11.2018
SOC	Dry Cargo and Ballast Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo & Ballast Handling Simulator BCS FOFO	S	Norway	001/170301	01.03.2022
SOC	Dry Cargo and Ballast Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo & Ballast BCS MODU	S	Norway	008/170301	01.03.2022
SOC	Dynamic Positioning	Applied Research Intenational (ARI)	ARI-DPSIM10000λn	A	India	004/180511	11.05.2023
SOC	Dynamic Positioning	Transas Marine Limited	NTPRO 5000 DYNAMIC POSITIONING SIMULATOR	A	Ireland	003/180504	04.05.2023
SOC	Dynamic Positioning	VSTEP	Nautis Ship Simulator DP	A	Netherlands	001/150429	29.04.2020
SOC	Dynamic Positioning	Kongsberg Digital AS - Maritime Simulation	Polaris - K-Pos Dynamic Positioning (DP) Simulator	A	Norway	001/160608	08.06.2021
SOC	Dynamic Positioning	Rheinmetall Electronics GMBH	ANS 6000 DP Simulator		Germany	001/150630	30.06.2020

CERT.	SIMULATOR TYPE	NAME	SIMULATOR NAME	CLASS	COUNTRY	CERT. NO.	EXPIRY DATE
SOC	Dynamic Positioning	Kongsberg Digital AS - Maritime Simulation	K-Sim DP	A	Norway	001/131129	29.11.2018
SOC	Fast Response Craft Operation	Virtual Marine Technology	Fast Response Craft (FRC)	S	Canada	10053978/ 160226	16.02.2021
SOC	Fishery Operation	Applied Research Intenational (ARI)	ARI-FISHSIM10000λn	A	India	019/180511	11.05.2023
SOC	Inland Waterway Operation	Applied Research Intenational (ARI)	ARI-NAVSIM10000λn (Inland)	A	India	026/180511	11.05.2023
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo VLCC Very Large Crude Carrier - DH	A	Norway	002/170301	01.03.2022
SOC	Liquid Cargo Handling	Applied Research Intenational (ARI)	ARI-CARGOSIM10000λn	A	India	006/180511	11.05.2023
SOC	Liquid Cargo Handling	Applied Research Intenational (ARI)	ARI-CARGOSIM10000λn - LNG Tanker	A	India	007/180511	11.05.2023
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo Chemical Carrier (CC)	A	Norway	007/170301	01.03.2022
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo LNG Liquefied Natural Gas Carrier - M	A	Norway	006/170301	01.03.2022
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo LNG Liquefied Natural Gas Carrier - S	A	Norway	005/170301	01.03.2022
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo LPG Liquefied Petroleum Gas Carrier	A	Norway	004/170301	01.03.2022
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo Chemical Carrier PrC Product Carrier	A	Norway	003/170301	01.03.2022
SOC	Liquid Cargo Handling	Kongsberg Digital AS - Maritime Simulation	K-Sim Cargo SCC-II Suez Max Crude Carrier	A	Norway	002/151109	09.11.2020
SOC	Liquid Cargo Handling	GTT Training Ltd.	LNG Carrier	A	United Kingdom	002/160705	05.07.2021
SOC	Liquid Cargo Handling	GTT Training Ltd.	LNG Bunker Barge	S	United Kingdom	001/160705	05.07.2021
SOC	Liquid Cargo Handling	Applied Research Intenational (ARI)	ARI-CARGOSIM10000λn - Tanker for Oil and Chemical	A	India	022/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-LNGBUNKERSIM10000λn - LNG Bunkering	A	India	017/180511	11.05.2023
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Thermal Power Plant Trainer	S	Norway	014/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine GE LM2500 30 Gas Turbine	S	Norway	013/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Diesel Electric Cruise Vessel DE22	A	Norway	012/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Diesel Electric Dual Fuel LNG DE21	A	Norway	011/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Steam Propulsion Dual Fuel SP11	A	Norway	010/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine MTU V12 WaterJet H22	A	Norway	009/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine MaK 8M453C Navy M11	A	Norway	008/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine MaK 6M453 River M22	A	Norway	007/170615	15.06.2022
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Multi-Model	A	India	008/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Multi-Model - Vessel Types	A	India	009/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Engine Manufacturer Type	A	India	010/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Propulsion Types	A	India	011/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Fuel Types	A	India	012/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Electronic Engine Types	A	India	013/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Manufacturers	A	India	014/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Naval Vessel Types	A	India	015/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - Multi Model- Electrical Sys	A	India	016/180511	11.05.2023
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Pielstick 6PC20 Multi Purpose Vessel	A	Norway	006/170615	15.06.2022
SOC	Machinery Operation	Rheinmetall Electronics GMBH	4-Stroke MAN 9L5160 DF with CPP Dual Fuel Engine	A	Germany	001/180282	02.03.2023

CERT.	SIMULATOR TYPE	NAME	SIMULATOR NAME	CLASS	COUNTRY	CERT. NO.	EXPIRY DATE
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim® Engine DEDF42-Cruise Ferry	S	Norway	002/171214	14.12.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim® Engine L11-MAN 6S70ME Suezmax Crude Carrier	A	Norway	001/171214	14.12.2022
SOC	Machinery Operation	Rheinmetall Electronics GMBH	LNG Carrier with Kawasaki UA-400	A	Germany	002/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Tanker Vessel with Sulzer RTA84C Slow Speed Engine	A	Germany	003/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Container Vessel with MAN B&W 6S60 MC-C	A	Germany	004/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Container Vessel with MAN B&W 7K98 MC-C	A	Germany	005/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Vessel with MaK 8M32 Medium Speed Engine	A	Germany	006/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Fast Vessel with Caterpillar 3616 High Speed Eng.	A	Germany	007/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Patrol Vessel with Twin Engine Caterpillar 3616	A	Germany	008/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Cruise Vessel with six 12V 46 C Wärtsilä	A	Germany	009/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Pielstick PA6ST High Speed Engines	A	Germany	010/180282	02.03.2023
SOC	Machinery Operation	Rheinmetall Electronics GMBH	Wärtsilä 8L 32 Medium Speed Engines	A	Germany	011/180282	02.03.2023
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine M11 MaK 8M43C Container Feeder	A	Norway	001/151109	09.11.2020
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine DE88 Oil Rig Class S	S	Norway	004/150630	02.06.2020
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine DE88 Oil Rig Class A	A	Norway	003/150602	02.06.2020
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine M42 AHTS Class S	S	Norway	002/150602	02.06.2020
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine M42 AHTS Class A	A	Norway	001/150602	02.06.2020
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine DE66 Drill Ship Class A	S	Norway	006/150602	02.06.2020
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine DE66 Drill Ship Class A	A	Norway	005/150602	02.06.2020
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-HVSIM10000λn	S	India	025/180511	11.05.2023
SOC	Machinery Operation	Dalian Maritime University	" DMS-2013 Marine Engineerroom Simulator"	A	China	001/130809	09.08.2018
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Pielstick 10PC4 Ferry M22-IV	A	Norway	005/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine MaK 8M32C Trawler M11	A	Norway	004/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Sulzer 12RTA84 Container L11-III	A	Norway	003/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine Wärtsilä RT-Flex Container L11-I	A	Norway	002/170615	15.06.2022
SOC	Machinery Operation	Kongsberg Digital AS - Maritime Simulation	K-Sim Engine MAN B&W 5L90MC VLCC L11-V	A	Norway	001/170615	15.06.2022
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-COMBUSTIONSIM10000λn	A	India	021/180511	11.05.2023
SOC	Machinery Operation	Applied Research Intenational (ARI)	ARI-MACHSIM10000λn - 3D and Virtual Reality	A	India	020/180511	11.05.2023
SOC	Radio Communication	Applied Research Intenational (ARI)	ARI-COMMSIM10000λn	A	India	005/180511	11.05.2023
SOC	Radio Communication	Advenio Software S.R.L.	Vox Maris GMDSS Simulator	A	Argentina	001/150309	06.03.2020
SOC	Radio Communication	POSEIDON SIMULATION AS	Pharos GMDSS Simulator	A	Norway	001/150611	11.12.2019
SOC	Radio Communication	STSTC Pte., Ltd.	CTS-Pro 6000	A	Singapore	001/160912	12.09.2021
SOC	Radio Communication	VSTEP	NAUTIS GMDSS Simulator	A	Netherlands	001/150903	15.06.2020
SOC	Radio Communication	Elektronik Lab	MARCOM GMDSS Simulator	A	India	001/110502	02.05.2021
SOC	Radio Communication	Kongsberg Digital AS - Maritime Simulation	Polaris GMDSS Simulator	A	Norway	001/130704	04.07.2018
SOC	Survival Craft Operation	Transas Marine Limited	NTPRO 5000, SURVIVAL CRAFT SIMULATOR	A	Ireland	001/180504	04.05.2023

CERT.	SIMULATOR TYPE	NAME	SIMULATOR NAME	CLASS	COUNTRY	CERT. NO.	EXPIRY DATE
SOC	Survival Craft Operation	Virtual Marine Technology	SurvivalQuest	S	Canada	10053978/ 151117	19.05.2020
SOC	VTS Operation	Shanghai Maritime University	SMU-VTSSIM-2015	A	China	001/160511	11.05.2021
SOC	VTS Operation	Applied Research Intenational (ARI)	ARI-VTSSIM10000\an	A	India	018/180511	11.05.2023
PC	Bridge Operation	Be-software srl	Be-software Lanterna Software	A	Italy	002/170627	27.06.2022
PC	Bridge Operation	Kenya Navy Training Centre	ARI SHIP MANOEUVRING SIMULATOR Ship 5	B	Kenya	005/171219	19.12.2022
PC	Bridge Operation	Kenya Navy Training Centre	ARI SHIP MANOEUVRING SIMULATOR Ship 6	B	Kenya	006/171219	19.12.2022
PC	Bridge Operation	Heerema Marine Contractors	Integrated Bridge Operation Simulator	P	Netherlands	002/160822	22.08.2021
PC	Bridge Operation	Kenya Navy Training Centre	ARI SHIP MANOEUVRING SIMULATOR Ship 4	B	Kenya	004/171219	19.12.2022
PC	Bridge Operation	K Line Maritime Academy Philippines, Inc	KLMA PHI Ship Handling Simulator	A	Philippines	001/170926	26.09.2022
PC	Bridge Operation	Kenya Navy Training Centre	ARI SHIP MANOEUVRING SIMULATOR Ship 3	B	Kenya	003/171219	19.12.2022
PC	Bridge Operation	Siport21 S.L.	Siport21 Manoeuvring Simulator	S	Spain	001/171027	27.10.2022
PC	Bridge Operation	Kenya Navy Training Centre	ARI FULL MISSION SHIP MANOEUVRING SIMULATOR Ship 1	A	Kenya	001/171219	19.12.2022
PC	Bridge Operation	Maritiem Instituut "Wilhelm Barentsz"	Polaris	A	Netherlands	003/150903	22.05.2020
PC	Bridge Operation	Kenya Navy Training Centre	ARI SHIP MANOEUVRING SIMULATOR Ship 2	B	Kenya	002/171219	19.12.2022
PC	Bridge Operation	Lerus Training , Singapore	K-Pos Class A	A	Singapore	001/170214	14.02.2022
PC	Bridge Operation	Natioal Kaohsiung Marine University	NAVI-TRAINER 5000 /5.30 version	B	Taiwan	001/170103	03.01.2021
PC	Bridge Operation	Kongsberg Maritime Training, Grilstad - Trondheim	K-Sim Navigation & Offshore (Bridge A)	A	Norway	001/120617	12.06.2022
PC	Bridge Operation	Kenya Navy Training Centre	ARI SHIP MANOEUVRING SIMULATOR Ship 7	B	Kenya	007/171219	19.12.2022
PC	Bridge Operation	Netherlands Defence Academy	Bridge Operation	B	Netherlands	002/131112	20.11.2018
PC	Bridge Operation	Netherlands Defence Academy	Bridge Operation Simulator	A	Netherlands	001/131112	20.11.2018
PC	Bridge Operation	Teekay Shipping - Training Centre	Polaris Ship Bridge Simulator	B	United Kingdom	001/140312	12.03.2019
PC	Bridge Operation	CSMART Center for Simulator Maritime Training	APTb 1+2	B	Netherlands	007/180529	29.05.2023
PC	Bridge Operation	CSMART Center for Simulator Maritime Training	FMB 1-4 Royal Princess class	A	Netherlands	005/180529	29.05.2023
PC	Bridge Operation	Chalmers University of Technology	NTPRO 5000 OFFSHORE SIMULATOR	B	Sweden	005/180504	04.05.2023
PC	Bridge Operation	Chalmers University of Technology	NTPRO 5000 NAVIGATIONAL BRIDGE	A	Sweden	004/180504	04.05.2023
PC	Bridge Operation	The Great Eastern Shipping Co. Ltd.	Navi-Trainer Professional 5000	S	India	001/180328	28.03.2023
PC	Bridge Operation	CSMART Center for Simulator Maritime Training	PTB 1-6, class C	C	Netherlands	006/180529	29.05.2023
PC	Bridge Operation	FMV Försvarets Materielverk - Försvarsmakten Sjöstridsskolan	NAVI Trainer 5000	S	Sweden	002/141217	14.12.2019
PC	Bridge Operation	NLNG Ship Management Limited	ECDIS/Radar Desktop Trainers	C	Nigeria	002/151223	23.12.2020
PC	Bridge Operation	NLNG Ship Management Limited	Polaris Bridge Operation Simulator	B	Nigeria	001/151223	23.12.2020
PC	Bridge Operation	Japan Marine Sience Inc.	JMS Full Mission Shiphandling Simulator	A	Japan	001/151209	23.06.2020
PC	Bridge Operation	STC B.V	Diomedea: full mission A Bridge simulator	A	Netherlands	001/150904	04.09.2020
PC	Bridge Operation	Malta Maritime Pilots	Compact Manoeuvre Simulator Mermaid 500	S	Malta	002/150429	29.04.2020
PC	Bridge Operation	NLNG Ship Management Limited	K-Sim Offshore	A	Nigeria	001/150324	24.03.2020
PC	Bridge Operation	Japan Marine Sience Inc.	JMS Full Mission Shiphandling Simulator	A	Japan	001/150317	20.03.2020

CERT.	SIMULATOR TYPE	NAME	SIMULATOR NAME	CLASS	COUNTRY	CERT. NO.	EXPIRY DATE
PC	Bridge Operation	North Cape Simulators	Navi-Trainer Professional 5000	B	Norway	003/150311	11.03.2020
PC	Bridge Operation	North Cape Simulators	Navi-Trainer Professional 5000	A	Norway	001/150311	11.03.2020
PC	Bridge Operation	FMV Försvarets Materielverk - Försvarmakten Sjöstridsskolan	NAVI Trainer 5000	B	Sweden	001/141217	14.12.2019
PC	Bridge Operation	Seatrain Maritime Training Centre	ARI Full Mission Ship Manoeuvring Simulator	A	India	001/140814	14.08.2019
PC	Bridge Operation	Kongsberg Maritime AS	K-Sim Offshore	A	Norway	001/140616	16.06.2019
PC	Bridge Operation	NUSI Offshore Training Institute	Offshore Vessel Bridge Operations	A	India	005/140228	28.02.2019
PC	Bridge Operation	North Cape Simulators	Navi-Trainer Professional 5000	B	Norway	002/150311	11.03.2020
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - Inland Water Simulator B	A	Netherlands	007/180206	06.02.2023
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - Part Task Simulator 1 + 8	C	Netherlands	008/180206	06.02.2023
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - Inland Water Simulator A	A	Netherlands	006/180206	06.02.2023
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - 180 Bridge A	B	Netherlands	005/180206	06.02.2023
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - Kongsberg 360 Bridge	A	Netherlands	004/180206	06.02.2023
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - Cruise 360 Bridge	A	Netherlands	003/180206	06.02.2023
PC	Bridge Operation	PEM OFFSHORE INC., U.S.A.	CDIS/Radar Desktop Trainer	C	U.S.A	002/151223	23.12.2020
PC	Bridge Operation	PEM OFFSHORE INC., U.S.A.	Polaris Bridge Operation Simulator	B	U.S.A	001/151223	23.12.2020
PC	Bridge Operation	Maritime School of Excellence (MSoE)	IHC Bagger simulator	S	South Africa	001/160426	26.04.2021
PC	Bridge Operation	Færder Videregående Skole	K-Sirn® Navigation	C	Norway	001/180215	15.02.2023
PC	Bridge Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Navigation - 180 Bridge B	B	Netherlands	034/180206	06.02.2023
PC	Dredge Control System	Maritime School of Excellence (MSoE)	Dredge Control System Simulator	S	South Africa	001/160526	26.05.2022
PC	Dry Cargo and Ballast Handling	Marlow Navigation Training Center (MNTC)	Heavy Lift Operations Simulator	S	Philippines	001/130610	10.06.2018
PC	Dynamic Positioning	Maritiem Instituut "Wilhelm Barentsz"		A	Netherlands	003/171214	14.12.2022
PC	Dynamic Positioning	Kongsberg Maritime Training, Grilstad - Trondheim	K-Sim Offshore DP manouvre Trainer (Bridge B)	A	Norway	002/120617	12.06.2022
PC	Dynamic Positioning	Lerus Test Centre	K-Pos	A	Ukraine	001/161020	20.10.2021
PC	Dynamic Positioning	Netherlands Defence Academy	Dynamic Positioning Simulator	S	Netherlands	003/131112	20.11.2018
PC	Dynamic Positioning	KM Global Training Brazil	K-Sim Offshore - K-Pos DP Maneuver Trainer	A	Brazil	001/180307	07.03.2023
PC	Dynamic Positioning	NUSI Offshore Training Institute	DYNPOS AUTR	B	India	003/140228	28.02.2019
PC	Dynamic Positioning	SSM United Ltd.	K-SIM DP Basic Trainers, NI Class C	S	Croatia	001/180319	19.03.2023
PC	Dynamic Positioning	NLNG Ship Management Limited	K-Sim offshore DP simulator	B	Nigeria	001/141211	16.12.2019
PC	Dynamic Positioning	Maritiem Instituut "Wilhelm Barentsz"	TCH full mission DP Simulator	A	Netherlands	001/140528	31.05.2019
PC	Dynamic Positioning	Sir Derek Bibby Maritime Training Centre	Offshore Vessel Bridge Operations	A	India	001/140602	02.06.2019
PC	Dynamic Positioning	SIMWAVE Maritime Centre of Excellence	K-Sim® OFFSHORE - K-POS DP MANEUVER TRAINER	A	Netherlands	002/180206	06.02.2023
PC	Dynamic Positioning	SIMWAVE Maritime Centre of Excellence	K-Pos Basic DP Trainers 1 + 8	S	Netherlands	009/180206	06.02.2023
PC	Dynamic Positioning	Kongsberg Maritime Inc	K-Pos NI Class A	A	U.S.A	001/160927	27.09.2021
PC	Dynamic Positioning	Kongsberg Maritime Ltd. Training Centre, Aberdeen	K-Pos NI Class A	A	United Kingdom	001/160412	12.04.2021
PC	Dynamic Positioning	Teekay Manila Learning and Development Centre	K-SIM OFFSHORE - K-POS DP MANEUVER TRAINER	A	Philippines	001/180131	31.01.2023
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo Chemical Carrier PrC Product Carrier	A	Korea	014/170807	07.08.2022

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PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo SCC-II Suez Max Crude Carrier	A	Korea	013/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo LPG Liquefied Petroleum Gas Carrier	C	Korea	005/170807	07.08.2022
PC	Liquid Cargo Handling	SIMWAVE Maritime Centre of Excellence	K-Sim® Cargo - Liquefied Natural Gas Carrier - S	C	Netherlands	030/180206	06.02.2023
PC	Liquid Cargo Handling	Mokpo National Maritime University	Cargo LPG Liquefied Petroleum Gas Carrier	A	Korea	005/170215	15.02.2022
PC	Liquid Cargo Handling	Mokpo National Maritime University	TANKER FOR LIQUEFIED GAS. SHIP TYPE 2G	A	Korea	004/170215	15.02.2022
PC	Liquid Cargo Handling	Mokpo National Maritime University	Cargo LNG Liquefied Natural Gas Carrier - S	A	Korea	003/170215	15.02.2022
PC	Liquid Cargo Handling	Mokpo National Maritime University	Cargo Chemical Carrier (CC)	A	Korea	002/170215	15.02.2022
PC	Liquid Cargo Handling	Mokpo National Maritime University	Cargo VLCC Very Large Crude Carrier -DH	A	Korea	001/170215	15.02.2022
PC	Liquid Cargo Handling	Mokpo National Maritime University	Cargo Chemical Carrier PrC Product Carrier	A	Korea	007/170215	15.02.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo Chemical Carrier PrC Product Carrier	C	Korea	007/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo LPG Liquefied Petroleum Gas Carrier	A	Korea	012/170807	07.08.2022
PC	Liquid Cargo Handling	Maritiem Instituut "Wilhelm Barentsz"	NEPTUN PrC Product Carrier	C	Netherlands	005/150903	22.05.2020
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo VLCC Very Large Crude Carrier -DH	C	Korea	001/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo Chemical Carrier (CC)	C	Korea	002/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo LNG Liquefied Natural Gas Carrier - S	C	Korea	003/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo LNG Liquefied Natural Gas Carrier - M	C	Korea	004/170807	07.08.2022
PC	Liquid Cargo Handling	Mokpo National Maritime University	Cargo SCC-II Suez Max Crude Carrier	A	Korea	006/170215	15.02.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo SCC-II Suez Max Crude Carrier	C	Korea	006/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo VLCC Very Large Crude Carrier -DH	A	Korea	008/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo Chemical Carrier (CC)	A	Korea	009/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo LNG Liquefied Natural Gas Carrier - S	A	Korea	010/170807	07.08.2022
PC	Liquid Cargo Handling	Busan National Maritime High School	K-Sim Cargo LNG Liquefied Natural Gas Carrier - M	A	Korea	011/170807	07.08.2022
PC	Liquid Cargo Handling	Teekay Shipping - Training Centre	SAFECARGO LNG GT III	C	United Kingdom	004/140312	12.03.2019
PC	Liquid Cargo Handling	Teekay Shipping - Training Centre	SAFECARGO SUEZMAX	C	United Kingdom	003/140312	12.03.2019
PC	Liquid Cargo Handling	Teekay Shipping - Training Centre	Safecargo LNG N096	C	United Kingdom	002/140312	12.03.2019
PC	Liquid Cargo Handling	SIMWAVE Maritime Centre of Excellence	K-Sim® Cargo - SCC-II Suez Max Crude Carrier	C	Netherlands	028/180206	06.02.2023
PC	Liquid Cargo Handling	SIMWAVE Maritime Centre of Excellence	K-Sim® Cargo - Chemical Carrier (CC)	C	Netherlands	029/180206	06.02.2023
PC	Liquid Cargo Handling	SIMWAVE Maritime Centre of Excellence	K-Sim® Cargo - LPG Liquefied Petroleum Gas Carrier	C	Netherlands	033/180206	06.02.2023
PC	Liquid Cargo Handling	SIMWAVE Maritime Centre of Excellence	K-Sim® Cargo - Liquefied Natural Gas Carrier - M	C	Netherlands	032/180206	06.02.2023
PC	Liquid Cargo Handling	SIMWAVE Maritime Centre of Excellence	K-Sim® Cargo - PrC Product Carrier	C	Netherlands	031/180206	06.02.2023
PC	Machinery Operation	Maritiem Instituut "Wilhelm Barentsz"	NEPTUN Sulzer RTA	A	Netherlands	002/150903	22.05.2020
PC	Machinery Operation	Maritiem Instituut "Wilhelm Barentsz"	NEPTUN MAK 8M32c	A	Netherlands	004/150903	22.05.2020
PC	Machinery Operation	CSMART Center for Simulator Maritime Training	PTE 1-3, class C	C	Netherlands	004/180529	29.05.2023
PC	Machinery Operation	CSMART Center for Simulator Maritime Training	Eurodam Cruise Ship Model FM 1-4	A	Netherlands	003/180529	29.05.2023
PC	Machinery Operation	CSMART Center for Simulator Maritime Training	Royal Princess Model - Engine FM 1-4	A	Netherlands	002/180529	29.05.2023
PC	Machinery Operation	CSMART Center for Simulator Maritime Training	TRANSAS HIGH VOLTAGE BREAKER FOR SIMULATOR	S	Netherlands	001/180529	29.05.2023
PC	Machinery Operation	NUSI Offshore Training Institute	Offshore Vessel Engine Room Simulator	A	India	002/140228	28.02.2019

CERT.	SIMULATOR TYPE	NAME	SIMULATOR NAME	CLASS	COUNTRY	CERT. NO.	EXPIRY DATE
PC	Machinery Operation	Færder Videregående Skole	Kongsberg Neptune MAN B&W5L9OMC VLCÇ L11-V	C	Norway	003/180215	15.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Cruise Vessel DE22-III HV	S	Netherlands	017/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - M42 AHTS	A	Netherlands	016/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Diesel Electric Dual Fuel LNG DE21	A	Netherlands	015/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - M11 MaK 8M43C Container Feeder	A	Netherlands	014/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Wärtsilä RT-Flex Container L11-I	A	Netherlands	013/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Cruise Vessel DE22-III	A	Netherlands	012/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Pielstick 10PC4 Ferry M22-IV	A	Netherlands	011/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - MAN B&W 5L90MC VLCC L11-V	A	Netherlands	010/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Pielstick 10PC4 Ferry M22-IV	C	Netherlands	020/180206	06.02.2023
PC	Machinery Operation	Færder Videregående Skole	Kongsberg Neptun Pielstick-10PC4 M22-Ferry	C	Norway	002/180215	15.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Dual Fuel LNG DE21 HV	S	Netherlands	018/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - MAN B&W 5L90MC VLCC L11-V	C	Netherlands	019/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - MaK 6M453 River M22	C	Netherlands	027/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - L11-MAN 6S70ME Suezmax	C	Netherlands	026/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - M42 AHTS	C	Netherlands	025/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Diesel Electric Dual Fuel LNG DE21	C	Netherlands	024/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - MaK 8M43C M11 Container	C	Netherlands	023/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Wärtsilä 12RT-FLEX82 L11-I	C	Netherlands	022/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Cruise Vessel DE22-III	C	Netherlands	021/180206	06.02.2023
PC	Offshore Crane Operation	NUSI Offshore Training Institute	OFFSHORE CRANE OPERATION SIMULATOR	A	India	004/140228	28.02.2019
PC	Offshore Heavy Lift Operation	Heerema Marine Contractors	Integrated Offshore Heavy Lift Simulator	P	Netherlands	001/160822	22.08.2021
PC	Radio Communication	SIMWAVE Maritime Centre of Excellence	K-Sim® Polaris GMDSS Simulator	A	Netherlands	001/180206	06.02.2023
PC	ROV Operation	NUSI Offshore Training Institute	REMOTELY OPERATED VEHICLE SIMULATOR	A	India	001/140228	28.02.2019
PC	VTS Operation	Maritime Training Centre of Shanghai Maritime Safety Admin.	SMU-VTSSIM-2015	A	China	002/160511	11.05.2021
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - M11 MaK 8M43C Container Feeder	A	Netherlands	014/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - Diesel Electric Dual Fuel LNG DE21	A	Netherlands	015/180206	06.02.2023
PC	Machinery Operation	SIMWAVE Maritime Centre of Excellence	K-Sim® Engine - M42 AHTS	A	Netherlands	016/180206	06.02.2023
PC	Offshore Crane Operation	NUSI Offshore Training Institute	OFFSHORE CRANE OPERATION SIMULATOR	A	India	004/140228	28.02.2019
PC	Offshore Heavy Lift Operation	Heerema Marine Contractors	Integrated Offshore Heavy Lift Simulator	P	Netherlands	001/160822	22.08.2021
PC	Radio Communication	SIMWAVE Maritime Centre of Excellence	K-Sim® Polaris GMDSS Simulator	A	Netherlands	001/180206	06.02.2023
PC	ROV Operation	NUSI Offshore Training Institute	REMOTELY OPERATED VEHICLE SIMULATOR	A	India	001/140228	28.02.2019
PC	VTS Operation	Maritime Training Centre of Shanghai Maritime Safety Admin.	SMU-VTSSIM-2015	A	China	002/160511	11.05.2021