

**BRAZILIAN NAVY
NAVY INDUSTRIAL DIRECTORATE
REVERSE E-AUCTION**

TERMS OF REFERENCE

1 - GENERAL CONTRACTING CONDITIONS

1.1 - Supply of spare parts for the maintenance of the Submarine Riachuelo during the ship docking routine, according to the conditions, quantities and requirements contained in these Terms of Reference:

OUR REFERENCE	NSN	DESCRIPTION	UNIT OF SUPPLY	QUANTITY	ESTIMATED TOTAL PRICE
PG71200-2024-05489	4730-14-605-9439	<p>SPRAYING NOZZLE NAME - ITEM NAME SPRAYING NOZZLE CXCX - PART NAME ASSIGNED BUSE BROUILLARD D'EAU A DIFFUSION 140 DEGRES BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment A)</p>	UN	14,00	\$7.973,91
PG71200-2024-05490	4210-14-599-2572	<p>FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID ABPM - BODY DIAMETER 24,0 MILLIMETERS NOMINAL ADNH - FILTRATION RATING IN 600,0 NOMINAL MICRONS ADNK - FLOW DIRECTION OUTSIDE IN ADPR - BODY THICKNESS 2,5 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION BUSE BROUILLARD D'EAU - SOUS- MARIN TYPE BRESIL APGF - DESIGN TYPE REUSABLE CRXW - FILTERING MEDIA DESIGN MESH CXCX - PART NAME ASSIGNED FILTRE POUR BUSES LECHLER BY CONTROLLING AGENCY MATT - MATERIAL STEEL CORROSION RESISTING MEDA - MEDIA FOR WHICH</p>	UN	28,00	\$1.617,74

		DESIGNED WATER STYL - STYLE DESIGNATOR ROUND (BASICALLY FLAT) ADDITIONAL INFORMATION: technical drawing (attachment B)			
PG71200-2024-05491	6850-99-336-7233	CATALYST,CARBON MONOXIDE AND HYDROCARBON OXIDIZING NAME - ITEM NAME CATALYST,CARBON MONOXIDE AND HYDROCARBON OXIDIZING AGXW - PHYSICAL FORM CYLINDRICAL FEAT - SPECIAL FEATURES TAPERED BOTH ENDS AGAV - END ITEM IDENTIFICATION ASTUTE CLASS SUBMARINE - COSAMS UNIT. CXCX - PART NAME ASSIGNED CATALYST ASSEMBLY (INTERNAL) BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment C)	UN	1,00	\$1.517,88
PG71200-2024-05492	4320-99-307-3087	PUMP,ROTARY NAME - ITEM NAME PUMP,ROTARY AHZT - OPERATION METHOD POWERED AAXX - MOUNTING TYPE BASE FEAT - SPECIAL FEATURES REPLACEMENT PUMP ASSEMBLY FOR R134A/O2 SENSOR ASSEMBLY;W/4 MTG HOLES AGAV - END ITEM IDENTIFICATION DAMS DETECTORS CXCX - PART NAME ASSIGNED PUMP MODULE BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment D)	UN	1,00	\$5.048,91
PG71200-2024-05493	2990-99-871-8044	MUFFLER,INTAKE NAME - ITEM NAME	UN	2,00	\$97,99

		<p>MUFFLER,INTAKE MATT - MATERIAL BRASS APGF - DESIGN TYPE DRY ARNA - COOLANT TYPE AIR ARNG - BODY SHAPE ROUND ABHP - OVERALL LENGTH 37.00 MILLIMETERS NOMINAL ADAV - OVERALL DIAMETER 11.00 MILLIMETERS NOMINAL FEAT - SPECIAL FEATURES STEPPED BODY;5 TO 60 DEG C;25DB(A) NOISE REDUCTION AGAV - END ITEM IDENTIFICATION JCB 436EM (MWT) CXCX - PART NAME ASSIGNED SILENCER PNEUMATIC 6MM BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment E)</p>			
PG71200-2024-05494	6630-99-959-5732	<p>FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID STYL - STYLE DESIGNATOR CYLINDRICAL W/OUT CONTAINER MATT - MATERIAL FILTERING MEDIUM FIBER SYNTHETIC CRXW - FILTERING MEDIA POROUS DESIGN 1ST FILTERING MEDIA RESPONSE MEDA - MEDIA FOR WHICH DESIGNED GAS FEAT - SPECIAL FEATURES MICROFIBRE ELEMENT;NITRILE O- RING;SUPPLIED IN PACK OF 10 AGAV - END ITEM IDENTIFICATION COSAMS CXCX - PART NAME ASSIGNED FILTER ELEMENT BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment F)</p>	UN	5,00	\$1.048,51

PG71200-2025-00296	5340-14-598-3736	ANODE,CORROSION PREVENTIVE ADDITIONAL INFORMATION: technical drawing (attachment G)	UN	2,00	\$15.592,82
PG71200-2025-00298	5330-14-510-7811	GASKET NAME - ITEM NAME GASKET AAGR - CROSS-SECTIONAL SHAPE STYLE SOLID SINGLE OR COMPOSITION AAUB - HOLE DIAMETER 7,0 MILLIMETERS NOMINAL ABHP - OVERALL LENGTH 396,0 MILLIMETERS NOMINAL ABMK - OVERALL WIDTH 184,0 MILLIMETERS NOMINAL ADPQ - INSIDE CORNER RADIUS 10,0 MILLIMETERS NOMINAL ADUE - APERTURE WIDTH 156,0 MILLIMETERS NOMINAL ADUF - APERTURE LENGTH 354,0 MILLIMETERS NOMINAL ADUY - CENTER TO CENTER DISTANCE BETWEEN BOLT HOLES ALONG WIDTH 42,5 MILLIMETERS NOMINAL ADUZ - CENTER TO CENTER DISTANCE BETWEEN BOLT HOLES ALONG LENGTH 46,0 MILLIMETERS NOMINAL ADVD - OUTSIDE EDGE TO BOLT HOLE CENTER DISTANCE ALONG WIDTH 7,0 MILLIMETERS NOMINAL ADVE - OUTSIDE EDGE TO BOLT HOLE CENTER DISTANCE ALONG LENGTH 14,0 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL AECS - BOLT HOLE QUANTITY 24 CTRH - OUTSIDE EDGE TO INSIDE EDGE SMALLEST DISTANCE ALONG WIDTH	UN	6,00	\$6.172,95

		<p>14,0 MILLIMETERS NOMINAL CTSC - OUTSIDE EDGE TO INSIDE EDGE SMALLEST DISTANCE ALONG LENGTH</p> <p>21,0 MILLIMETERS NOMINAL MATT - MATERIAL OVERALL FIBER AND RUBBER BUTADIENE-ACRYLONITRILE CLASS NBR</p> <p>STYL - STYLE DESIGNATOR NON-CIRCULAR</p>			
PG71200-2025-00299	4130-14-593-8730	<p>FILTER ELEMENT,AIRCONDITIONING</p> <p>NAME - ITEM NAME FILTER ELEMENT,AIR CONDITIONING</p> <p>ABMK - OVERALL WIDTH 250,0 MILLIMETERS NOMINAL</p> <p>ADPR - BODY THICKNESS 100,0 MILLIMETERS NOMINAL</p> <p>APGF - DESIGN TYPE NONREUSABLE</p> <p>AZTL - BODY OVERALL LENGTH 370,0 MILLIMETERS NOMINAL</p> <p>CRXW - FILTERING MEDIA DESIGN SINGLE FILTERING MEDIA RESPONSE PLEATED</p> <p>CXCY - PART NAME ASSIGNED MEDIA FILTRANT CLASSE G4 SM309 POUR CADRE TYPE 3B BY CONTROLLING AGENCY</p> <p>MATT - MATERIAL MEDIA SYNTHETIQUE EN FIBRES POLYESTERS THERMOLIEES</p> <p>STYL - STYLE DESIGNATOR RECTANGULAR (INCL SQUARE)</p> <p>ADDITIONAL INFORMATION: technical drawing (attachment H)</p>	UN	2,00	\$120,74
PG71200-2025-00300	5340-14-598-3731	<p>ANODE,CORROSION PREVENTIVE</p> <p>ADDITIONAL INFORMATION: technical drawing (attachment I)</p>	UN	8,00	\$62.371,29
PG71200-2025-00302	5340-14-594-8765	<p>ANODE,CORROSION PREVENTIVE</p> <p>ADDITIONAL INFORMATION: technical drawing</p>	UN	2,00	\$6.368,38

		(attachment J)			
PG71200-2025-00305	5330-14-586-4388	GASKET SET NAME - ITEM NAME GASKET SET AGAV - END ITEM IDENTIFICATION M094504AX216WDD; FILTRE DN125 FILTRATION 5MM SUPP - SUPPLEMENTARY FEATURES LOT DE 3 JOINTS ADDITIONAL INFORMATION: technical drawing (attachment K)	UN	4,00	\$2.522,24
PG71200-2025-00306	5331-14-603-0451	O-RING NAME - ITEM NAME O-RING CXCX - PART NAME ASSIGNED LID O RING BY CONTROLLING AGENCY MATT - MATERIAL NSPA / LD PROGRAMME VITON ADDITIONAL INFORMATION: technical drawing (attachment L)	UN	1,00	\$308,56
PG71200-2025-00309	5331-14-484-2399	O-RING NAME - ITEM NAME O-RING ABJH - TEMP RATING M25,0 CELSIUS AND 100,0 CELSIUS ADV N - CROSS-SECTIONAL HEIGHT 2,62 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 10,77 MILLIMETERS NOMINAL CQFM - HARDNESS RATING 90,0 SHORE DUROMETER A NOMINAL HUES - COLOR BLACK MATT - MATERIAL RUBBER BUTADIENE-ACRYLONITRILE CLASS NBR ADDITIONAL INFORMATION: technical drawing (attachment M)	UN	1,00	\$127,61
PG71200-2025-00312	5310-14-588-5098	WASHER,KEY NAME - ITEM NAME WASHER,KEY AAUB - HOLE DIAMETER 22,0 MILLIMETERS NOMINAL ABKV - OUTSIDE DIAMETER	UN	30,00	\$254,47

		<p>35,0 MILLIMETERS NOMINAL ABL - EXTERNAL STRAIGHT KEY WIDTH 18,0 MILLIMETERS NOMINAL ABPX - MATERIAL THICKNESS 1,5 MILLIMETERS NOMINAL MATT - MATERIAL STEEL COMP 321 OR X6CRNITI18-10 MDCL - MATERIAL DOCUMENT EN 10088-2 NATIONAL SPEC SINGLE MATERIAL RESPONSE AND CLASSIFICATION NRAA - DISTANCE FROM CENTERLINE TO END OF LONGEST KEY 40,0 MILLIMETERS NOMINAL NRAB - DISTANCE FROM CENTERLINE TO END OF SHORTEST KEY 28,0 MILLIMETERS NOMINAL SFTT - SURFACE TREATMENT PASSIVATE STYL - STYLE DESIGNATOR A222</p>			
PG71200-2025-00323	5330-14-339-9910	<p>GASKET NAME - ITEM NAME GASKET AAGR - CROSS-SECTIONAL SHAPE STYLE SOLID SINGLE OR COMPOSITION AAUB - HOLE DIAMETER 4,5 MILLIMETERS NOMINAL ABKG - BOLT CIRCLE DIAMETER 32,0 MILLIMETERS NOMINAL ABKV - OUTSIDE DIAMETER 42,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 22,0 MILLIMETERS NOMINAL ADV - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL AECS - BOLT HOLE QUANTITY 4 MATT - MATERIAL OVERALL PLASTIC POLYTETRAFLUOROETHYLEN E STYL - STYLE DESIGNATOR CIRCULAR</p>	UN	8,00	\$3.058,82

PG71200-2025-00324	5330-14-489-0122	<p>GASKET NAME - ITEM NAME GASKET ABKV - OUTSIDE DIAMETER 179,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 135,0 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL CTQT - OPERATING MEDIUM HYDROCARBURE OR WATER OR OIL OR GAS OR STEAM OR REFRIGERANT OR ACIDE ET BASE FAIBLE CXCX - PART NAME ASSIGNED JOINT PLAT 135X179X2 KLINGERSIL C-4430 STF 33-07- 02/002E BY CONTROLLING AGENCY HUES - COLOR GREEN AND WHITE MATT - MATERIAL FIBRES DE VERRE AND FIBRE D'ARAMIDE AND RUBBER BUTADIENE- ACRYLONITRILE CLASS NBR MDCL - MATERIAL DOCUMENT KLINGERSIL C- 4430 MFR REF SINGLE MATERIAL RESPONSE AND CLASSIFICATION ADDITIONAL INFORMATION: technical drawing (attachment N)</p>	UN	8,00	\$1.027,65
PG71200-2025-00325	5342-14-582-1658	<p>ANODE,IMPRESSED CURRENT,CATHODIC PROTECTION CORROSION PREVENTION NAME - ITEM NAME ANODE,IMPRESSED CURRENT,CATHODIC PROTECTION CORROSION PREVENTION FEAT - SPECIAL FEATURES PROTECTION CATHODIQUE ½ " G POUR GENERATEUR ANR 54/45/4 (ARR2) ADDITIONAL INFORMATION: technical drawing</p>	UN	8,00	\$10.765,08

		(attachment O)			
PG71200-2025-00327	5310-14-588-5094	<p>WASHER,KEY NAME - ITEM NAME WASHER,KEY AAUB - HOLE DIAMETER 7,0 MILLIMETERS NOMINAL ABKV - OUTSIDE DIAMETER 12,0 MILLIMETERS NOMINAL ABLC - EXTERNAL STRAIGHT KEY WIDTH 5,0 MILLIMETERS NOMINAL ABPX - MATERIAL THICKNESS 0,5 MILLIMETERS NOMINAL MATT - MATERIAL STEEL COMP A33 OR S185 MDCL - MATERIAL DOCUMENT EN 10025 NATIONAL SPEC SINGLE MATERIAL RESPONSE AND CLASSIFICATION NRAA - DISTANCE FROM CENTERLINE TO END OF LONGEST KEY 12,0 MILLIMETERS NOMINAL NRAB - DISTANCE FROM CENTERLINE TO END OF SHORTEST KEY 8,0 MILLIMETERS NOMINAL SFTT - SURFACE TREATMENT ZINC STDC - SURFACE TREATMENT EN ISO 4042 NATIONAL SPEC SINGLE TREATMENT RESPONSE DOCUMENT AND CLASSIFICATION STYL - STYLE DESIGNATOR A222 ADDITIONAL INFORMATION: technical drawing (attachment P)</p>	UN	4,00	\$304,61
PG71200-2025-00328	5330-14-596-7017	<p>GASKET NAME - ITEM NAME GASKET AAGR - CROSS-SECTIONAL SHAPE STYLE 21 ABKV - OUTSIDE DIAMETER 26,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 21,2 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 1,5 MILLIMETERS</p>	UN	24,00	\$900,00

		<p>NOMINAL CXCX - PART NAME ASSIGNED JOINT PLAT EN CUIVRE RECUIT 21,2X26X1,5 NON NORMALISE POUR BY CONTROLLING AGENCY IMPLANTATION PAS DU GAZ STF 33-07-02/021E MATT - MATERIAL OVERALL COPPER STYL - STYLE DESIGNATOR 1</p>			
PG71200-2025-00329	5340-14-598-3748	<p>ANODE,CORROSION PREVENTIVE ADDITIONAL INFORMATION: technical drawing (attachment Q)</p>	UN	4,00	\$39.825,65
PG71200-2025-00339	5330-14-475-7205	<p>RETAINER,PACKING ADDITIONAL INFORMATION: technical drawing (attachment R)</p>	UN	4,00	\$711,84
PG71200-2025-00342	4130-14-603-3419	<p>FILTER ELEMENT,AIRCONDITIONING NAME - ITEM NAME FILTER ELEMENT,AIR CONDITIONING ABMK - OVERALL WIDTH 400,0 MILLIMETERS NOMINAL ADPR - BODY THICKNESS 20,0 MILLIMETERS NOMINAL AZTL - BODY OVERALL LENGTH 300,0 MILLIMETERS NOMINAL CRXW - FILTERING MEDIA DESIGN GRILLAGE ET MEDIA FILTRANT EN FIBRE SYNTHETIQUE CXCX - PART NAME ASSIGNED FILTRE PLAN BY CONTROLLING AGENCY MATT - MATERIAL CADRE METALLIQUE EN TOLE ELECTOZINGUEE OU INOX AND MEDIA PLAT SYNTHETIQUE AVEC GRILLAGES GALVANISES (OU INOX) STYL - STYLE DESIGNATOR RECTANGULAR (INCL SQUARE) ADDITIONAL INFORMATION: technical drawing</p>	UN	2,00	\$86,00

		(attachment S)			
PG71200-2025-00344	5331-14-568-2189	<p>O-RING NAME - ITEM NAME O-RING ADV - CROSS-SECTIONAL HEIGHT 3,53 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 44,04 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION FILTRE 42/C.310.268.18 ADDITIONAL INFORMATION: technical drawing (attachment T)</p>	UN	1,00	\$47,08
PG71200-2025-00348	5365-14-582-0787	<p>SHIM SET NAME - ITEM NAME SHIM SET AJJW - COMPONENT QUANTITY 6,0 FEAT - SPECIAL FEATURES JEU DE RODELLES DE REGLAGE POUR MONTAGE DES PLOTS ELASTIQUES GENERATEUR ANR 54/45/4 (ARR 2) (fr: Jeu de rodelles de réglage pour montage des plots elastiques GENERATEUR ANR 54/45/4 (ARR 2))</p>	UN	4,00	\$984,35
PG71200-2025-00349	5330-14-591-1274	<p>GASKET NAME - ITEM NAME GASKET ABKG - BOLT CIRCLE DIAMETER 445,0 MILLIMETERS NOMINAL ABKV - OUTSIDE DIAMETER 470,0 MILLIMETERS NOMINAL ADV - CROSS SECTION INSIDE DIAMETER 405,0 MILLIMETERS NOMINAL ADVL - CROSS SECTION OUTSIDE DIAMETER 470,0 MILLIMETERS NOMINAL ADV - CROSS-SECTIONAL THICKNESS 3,0 MILLIMETERS MAXIMUM AECS - BOLT HOLE QUANTITY 12,0 BYWW - SMALLEST BOLT HOLE DIAMETER 12,0 MILLIMETERS NOMINAL</p>	UN	2,00	\$8.344,80

		<p>BYWX - LARGEST BOLT HOLE DIAMETER 12,0 MILLIMETERS NOMINAL</p> <p>CXCX - PART NAME ASSIGNED WELLRINDICTUNG RAPIDO DN 350</p> <p>BY CONTROLLING AGENCY STYL - STYLE DESIGNATOR CIRCULAR</p> <p>SUPP - SUPPLEMENTARY FEATURES PRESENCE D'UN MEPLAT SUR LE HAUT ET LE BAS DU JOINT</p>			
PG71200-2025-00350	5330-14-588-6139	<p>SEAL,PLAIN</p> <p>NAME - ITEM NAME SEAL,PLAIN</p> <p>ABVM - ACCOMMODATED SHAFT DIAMETER 10,0 MILLIMETERS NOMINAL</p> <p>ADUC - SEAL WIDTH 1,44 MILLIMETERS NOMINAL</p> <p>CPCW - HOUSING BORE DIAMETER 13,8 MILLIMETERS NOMINAL</p> <p>CQCF - CONSTRUCTION 3 PIECES</p> <p>CXCX - PART NAME ASSIGNED BAGUE D'ETANCHEITE RUCH DN 10</p> <p>BY CONTROLLING AGENCY FEAT - SPECIAL FEATURES JOINT TORIQUE DIMENSIONS 18,00X1,80 (fr: Joint torique dimensions 18,00x1,80)</p> <p>MATT - MATERIAL PACKING ELASTOMERE NBR 20A8 AN</p> <p>MATT - MATERIAL INNER RING CUPRO-NICKEL CUNI30MN1FE</p> <p>MATT - MATERIAL OUTER RING PLASTIC POLYTETRAFLUOROETHYLENE</p> <p>ADDITIONAL INFORMATION: technical drawing (attachment U)</p>	UN	10,00	\$5.351,76
PG71200-2025-00354	4330-14-603-0454	<p>FILTER ELEMENT,FLUID</p> <p>NAME - ITEM NAME FILTER ELEMENT,FLUID</p> <p>CXCX - PART NAME ASSIGNED</p>	UN	1,00	\$8.809,15

		<p>FILTER ELEMENT BY CONTROLLING AGENCY MATT - MATERIAL NSPA / LD PROGRAMME CUAL-C ADDITIONAL INFORMATION: technical drawing (attachment V)</p>			
PG71200-2025-00365	5330-14-426-8672	<p>PACKING,PREFORMED NAME - ITEM NAME PACKING,PREFORMED AAGR - CROSS-SECTIONAL SHAPE STYLE SQUARE/RECTANGULAR ABJH - TEMP RATING M200,0 CELSIUS AND 600,0 CELSIUS ADVN - CROSS-SECTIONAL HEIGHT 3,5 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 26,0 MILLIMETERS NOMINAL ADYU - PERIPHERAL DIAMETER 34,0 MILLIMETERS NOMINAL MATT - MATERIAL OVERALL GRAPHITE MDCL - MATERIAL DOCUMENT F5289 LATTYGRAF E MFR REF SINGLE MATERIAL RESPONSE AND CLASSIFICATION OVERALL ADDITIONAL INFORMATION: technical drawing (attachment W)</p>	UN	16,00	\$42.664,71
PG71200-2025-00367	5330-14-507-4130	<p>GASKET NAME - ITEM NAME GASKET AAGR - CROSS-SECTIONAL SHAPE STYLE SOLID SINGLE OR COMPOSITION ABKV - OUTSIDE DIAMETER 148,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 110,0 MILLIMETERS NOMINAL ADV M - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL MATT - MATERIAL OVERALL</p>	UN	16,00	\$294,12

		FIBER AND RUBBER BUTADIENE-ACRYLONITRILE CLASS NBR STYL - STYLE DESIGNATOR CIRCULAR ADDITIONAL INFORMATION: technical drawing (attachment X)			
PG71200-2025-00374	5340-14-525-3823	ANODE,CORROSION PREVENTIVE ADDITIONAL INFORMATION: technical drawing (attachment Y)	UN	14,00	\$55.157,24
PG71200-2025-00377	4730-14-581-7340	ADAPTER,STRAIGHT,TUBE TO BOSS NAME - ITEM NAME ADAPTER,STRAIGHT,TUBE TO BOSS AHNC - CONNECTION STYLE 1ST END 85 AWLS - CONNECTION TYPE 1ST END THREADED EXTERNAL TUBE AWLS - CONNECTION TYPE 2ND END THREADED EXTERNAL BOSS CQGM - MAXIMUM OPERATING 250,0 BAR PRESSURE SINGLE RESPONSE CQJX - NOMINAL THREAD SIZE 22,0 MILLIMETERS 1ST END CQJX - NOMINAL THREAD SIZE 24,0 MILLIMETERS 2ND END CQQR - THREAD PITCH IN MILLIMETERS ALL ENDS 2,0 CTTC - THREAD TOLERANCE CLASS ALL ENDS 4H EXTERNAL CWCN - NOMINAL WIDTH ACROSS FLATS 27,0 MILLIMETERS CWFD - NOMINAL OUTSIDE DIAMETER TUBE ACCOMMODATED 1ST END 10,2 MILLIMETERS CWFR - NOMINAL OVERALL LENGTH 60,5 MILLIMETERS CXCX - PART NAME ASSIGNED	UN	3,00	\$5.067,35

		<p> VIS SUR CAPACITE POUT TUYAUQ INOX DE10.2 OU TUYAUX CUIVRE DE10 BY CONTROLLING AGENCY HP/BP PRESSION DE REFERENCE 250 BAR FEAT - SPECIAL FEATURES AVEC HEXAGONE CENTRAL PERMETTANT L USAGE D UNE CLE MATT - MATERIAL OVERALL CUIVRE ALLIE CU-AL10NI5FE4 MEDA - MEDIA FOR WHICH WATER DESIGNED SINGLE RESPONSE THSD - THREAD SERIES DESIGNATOR ALL ENDS ISO M </p>			
PG71200-2025-00382	5330-14-588-6141	<p> SEAL,PLAIN NAME - ITEM NAME SEAL,PLAIN ABVM - ACCOMMODATED SHAFT DIAMETER 20,0 MILLIMETERS NOMINAL ADUC - SEAL WIDTH 2,12 MILLIMETERS NOMINAL CPCW - HOUSING BORE DIAMETER 21,88 MILLIMETERS NOMINAL CQCF - CONSTRUCTION 3 PIECES CXCX - PART NAME ASSIGNED BAGUE D'ETANCHEITE RUCH DN 20 BY CONTROLLING AGENCY FEAT - SPECIAL FEATURES JOINT TORIQUE DIMENSIONS 28,00X2,65 (fr: Joint torique dimensions 28,00x2,65) MATT - MATERIAL PACKING ELASTOMERE NBR 20A8 AN MATT - MATERIAL INNER RING CUPRO-NICKEL CUNI30MN1FE MATT - MATERIAL OUTER RING PLASTIC POLYTETRAFLUOROETHYLEN E </p>	UN	10,00	\$11.470,59
PG71200-2025-00383	7330-14-587-9368	<p> FILTER,COOKING GREASE </p>	UN	2,00	\$628,87

		ADDITIONAL INFORMATION: technical drawing (attachment Z)			
PG71200-2025-00384	5330-14-589-1056	SEAL,PLAIN NAME - ITEM NAME SEAL,PLAIN ABVM - ACCOMMODATED SHAFT DIAMETER 26,67 MILLIMETERS NOMINAL ADUC - SEAL WIDTH 2,88 MILLIMETERS NOMINAL CPCW - HOUSING BORE DIAMETER 22,6 MILLIMETERS NOMINAL CQCF - CONSTRUCTION 3 PIECES FEAT - SPECIAL FEATURES JOINT TORIQUE DIMENSIONS 26,20X3,60 (fr: Joint torique dimensions 26,20x3,60) MATT - MATERIAL PACKING SUIVANT STF33-07-02-019E : NBR 20A8 MATT - MATERIAL INNER RING X2CRNI18-9 MATT - MATERIAL OUTER RING PLASTIC POLYTETRAFLUOROETHYLEN E	UN	5,00	\$1.541,18
PG71200-2025-00389	5975-14-449-0914	OBTURATOR,FIRE EXTI	UN	1,00	\$725,28
PG71200-2025-00401	4330-14-528-1039	FILTER ELEMENT,FLUID ADDITIONAL INFORMATION: technical drawing (attachment AA)	UN	3,00	\$1.641,61
PG71200-2025-00404	5331-14-568-2209	O-RING NAME - ITEM NAME O-RING ADVN - CROSS-SECTIONAL HEIGHT 1,78 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 26,7 MILLIMETERS NOMINAL CQFM - HARDNESS RATING 90,0 SHORE DUROMETER A NOMINAL CXCX - PART NAME ASSIGNED JOINT BY CONTROLLING AGENCY MATT - MATERIAL	UN	1,00	\$635,88

		<p>NSPA / LD PROGRAMME RUBBER BUTADIENE- ACRYLONITRILE CLASS NBR ADDITIONAL INFORMATION: technical drawing (attachment AB)</p>			
PG71200-2025-00406	5330-14-582-1654	<p>GASKET NAME - ITEM NAME GASKET ABKW - OVERALL HEIGHT 5,0 MILLIMETERS NOMINAL CQFM - HARDNESS RATING 60,0 SHORE DUROMETER A NOMINAL FEAT - SPECIAL FEATURES JOINT DE BOITE HYDROREFRIGERANT EP.5MM 60 SHORE POUR GENERATEUR ANR 54/45/4 (ARR 2) MATT - MATERIAL NITRILE NBR</p>	UN	8,00	\$6.411,18
PG71200-2025-00408	5330-14-585-1192	<p>GASKET NAME - ITEM NAME GASKET AAGR - CROSS-SECTIONAL SHAPE STYLE SOLID SINGLE OR COMPOSITION ABKV - OUTSIDE DIAMETER 19,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 14,0 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 1.5 MILLIMETERS NOMINAL CXCX - PART NAME ASSIGNED JOINT PLAT POUR RACCORDS UNION DN10 BY CONTROLLING AGENCY MATT - MATERIAL PLASTIC POLYTETRAFLUOROETHYLEN E STYL - STYLE DESIGNATOR CIRCULAR ADDITIONAL INFORMATION: technical drawing (attachment AC)</p>	UN	4,00	\$7,06
PG71200-2025-00412	5310-14-603-0448	<p>WASHER,KEY NAME - ITEM NAME WASHER,KEY AAUB - HOLE DIAMETER 16,0 MILLIMETERS NOMINAL CXCX - PART NAME ASSIGNED</p>	UN	80,00	\$3.768,00

		<p>FREIN A AILERON DN16 BY CONTROLLING AGENCY MATT - MATERIAL NSPA / LD PROGRAMME STEEL COMP Z2CN18-10 ADDITIONAL INFORMATION: technical drawing (attachment AD)</p>			
PG71200-2025-00413	5945-14-426-0808	<p>RELAY,ELECTROMAGNETIC NAME - ITEM NAME RELAY,ELECTROMAGNETIC ABHP - OVERALL LENGTH 44,0 MILLIMETERS MAXIMUM ABKW - OVERALL HEIGHT 32,6 MILLIMETERS MAXIMUM ABMK - OVERALL WIDTH 13,3 MILLIMETERS MAXIMUM AKDX - WINDING QUANTITY 1 APCN - COIL QUANTITY 1 APNP - DUTY TYPE CONTINUOUS AXHR - MOUNTING FACILITY TYPE AND QUANTITY 2 BRACKET AND 2 UNTHREADED HOLE CRNG - NONPILE-UP MAIN CONTACT ARRANGEMENT 2 POLE, DOUBLE THROW, BOTH POSITIONS MAINTAINED CTDL - MAIN CONTACT LOAD CURRENT RATING AT MAXIMUM RATED VOLTAGE RESISTIVE LOAD 10,0 AMPERES AC AND 10,0 AMPERES DC CWAB - MAIN CONTACT MAXIMUM VOLTAGE RATING IN VOLTS 200,0 AC AND 28,0 DC SUPP - SUPPLEMENTARY FEATURES EQUIPE DE 2 VIS DE FIXATION M3 TTQY - TERMINAL TYPE AND QUANTITY ALL FUNCTIONS 8 PIN</p>	UN	20,00	\$3.829,73
PG71200-2025-00414	5975-14-455-1694	<p>OBTURATOR,FIRE EXTINGUISHER NAME - ITEM NAME</p>	UN	3,00	\$2.864,15

		<p>OBTURATOR,FIRE EXTINGUISHER MATT - MATERIAL MICA PUR TEXT - GENERAL CHARACTERISTICS ITEM DESCRIPTION DISQUE DIA 42MM EP 0,1MM ; 4 TROUS EQUIDISTANT DIA 4,5MM SUR DIA 32MM ; MATIERE MICA CLASSE THERMIQUE C</p>			
PG71200-2025-00416	5330-14-507-4124	<p>GASKET NAME - ITEM NAME GASKET ABKV - OUTSIDE DIAMETER 123,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 90,0 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL CTQT - OPERATING MEDIUM HYDROCARBURE OR WATER OR OIL OR GAS OR STEAM OR REFRIGERANT OR ACIDE ET BASE FAIBLE CXCX - PART NAME ASSIGNED JOINT PLAT 090X123X2 KLINGERSIL C-4430 STF 33-07- 02/002E BY CONTROLLING AGENCY HUES - COLOR GREEN AND WHITE MATT - MATERIAL FIBRES DE VERRE AND FIBRE D'ARAMIDE AND RUBBER BUTADIENE- ACRYLONITRILE CLASS NBR MDCL - MATERIAL DOCUMENT KLINGERSIL C- 4430 MFR REF SINGLE MATERIAL RESPONSE AND CLASSIFICATION</p>	UN	28,00	\$321,73
PG71200-2025-00418	5330-14-596-9981	<p>RETAINER,PACKING NAME - ITEM NAME RETAINER,PACKING AGAV - END ITEM IDENTIFICATION FILTRE; 42/C.320.234.10 CXCX - PART NAME ASSIGNED BAGUE 1/4G</p>	UN	1,00	\$157,65

		<p>BY CONTROLLING AGENCY MATT - MATERIAL NSPA / LD PROGRAMME ACIER INOX ADDITIONAL INFORMATION: technical drawing (attachment AE)</p>			
PG71200-2025-00419	5330-14-602-5253	<p>GASKET NAME - ITEM NAME GASKET ABHP - OVERALL LENGTH 479,0 MILLIMETERS NOMINAL ABMK - OVERALL WIDTH 287,0 MILLIMETERS NOMINAL ADUE - APERTURE WIDTH 227,0 MILLIMETERS NOMINAL ADUF - APERTURE LENGTH 419,0 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 3,0 MILLIMETERS NOMINAL AECS - BOLT HOLE QUANTITY 18,0 AHNX - BOLT HOLE DIAMETER 12,0 MILLIMETERS NOMINAL CXCX - PART NAME ASSIGNED JOINT DE BRIDE 384X192 BY CONTROLLING AGENCY STYL - STYLE DESIGNATOR NON-CIRCULAR SUPP - SUPPLEMENTARY FEATURES SUIVANT PLAN QKJE-420.00 (JE EN MINUSCULE) (fr: SUIVANT PLAN QKje- 420.00 (je EN MINUSCULE)) ADDITIONAL INFORMATION: technical drawing (attachment AF)</p>	UN	6,00	\$10.514,86
PG71200-2025-00421	4130-14-587-9335	<p>FILTER ELEMENT,AIRCONDITIONING NAME - ITEM NAME FILTER ELEMENT,AIR CONDITIONING ABBD - MAXIMUM AIR FLOW RATE 3500 M3/H ABMK - OVERALL WIDTH 548,0 MILLIMETERS</p>	UN	1,00	\$125,73

		<p>NOMINAL ADPR - BODY THICKNESS 100,0 MILLIMETERS NOMINAL AZTL - BODY OVERALL LENGTH 748,0 MILLIMETERS NOMINAL CRXW - FILTERING MEDIA DESIGN PLEATED CXCX - PART NAME ASSIGNED FILTRE PLISSE DEMONTABLE BY CONTROLLING AGENCY STYL - STYLE DESIGNATOR NSPA / LD PROGRAMME RECTANGULAR (INCL SQUARE W/ AIR BAFFLE) ADDITIONAL INFORMATION: technical drawing (attachment AG)</p>			
PG71200-2025-00423	5310-14-588-6147	<p>WASHER,KEY NAME - ITEM NAME WASHER,KEY AAUB - HOLE DIAMETER 8,0 MILLIMETERS NOMINAL ABKV - OUTSIDE DIAMETER 15,0 MILLIMETERS NOMINAL ABLC - EXTERNAL STRAIGHT KEY WIDTH 7,0 MILLIMETERS NOMINAL ABPX - MATERIAL THICKNESS 1,0 MILLIMETERS NOMINAL MATT - MATERIAL STEEL COMP 321 OR X6CRNITI18-10 MDCL - MATERIAL DOCUMENT EN 10088-2 NATIONAL SPEC SINGLE MATERIAL RESPONSE AND CLASSIFICATION NRAA - DISTANCE FROM CENTERLINE TO END OF LONGEST KEY 16,0 MILLIMETERS NOMINAL NRAB - DISTANCE FROM CENTERLINE TO END OF SHORTEST KEY 13,0 MILLIMETERS NOMINAL SFTT - SURFACE TREATMENT PASSIVATE STDC - SURFACE TREATMENT EN ISO 16048 NATIONAL</p>	UN	6,00	\$241,91

		<p style="text-align: center;">SPEC SINGLE TREATMENT RESPONSE DOCUMENT AND CLASSIFICATION STYL - STYLE DESIGNATOR A222 ADDITIONAL INFORMATION: technical drawing (attachment AH)</p>				
					Total	\$339.429,59

1.2 - The object of the tender is not a luxury item.

1.3 - Considering that the spare parts, required for the maintenance of Submarine Riachuelo, have standard codes in the cataloging system adopted by NATO with recognised and usual specifications in the market, it is understood that the items object of the tender are of a common nature for the purpose of using the tender modality reverse e-auction.

1.4 - The Purchase Order will remain in force until receipt of the order and payment.

2 - DESCRIPTION AND JUSTIFICATION FOR PROCUREMENT

2.1 - This document is regarding requests for the supply of items for the Navy Supply System for use during the maintenance periods foreseen in the General Maintenance Program (PROGEM).

2.2 - The PROGEM is a planning document prepared by the Operations Sector, according to the cycle of activities of each Ship, for a period of four years, and with the purpose of providing the naval, air-naval and Marine forces with full operational capacity.

2.3 - The maintenance periods are scheduled in the PROGEM, as a way to enable maintenance activities to be carried out.

2.4 - Maintenance is defined as the set of technical and administrative activities carried out in order to keep something in proper condition for use with reliability, safety and at appropriate cost and, in case of malfunctions, to bring it back to proper condition.

2.5 - Properly performed maintenance increases the useful life of equipment, reduces the need for supplies and allows saving resources to serve other purposes.

2.6 - Planned maintenance is carried out in a systematic and scheduled manner and takes into consideration all the necessary elements for performance: labour, material and time.

2.7 - The maintenance periods have their duration defined, in principle, by the Ship class or type. However, planning of the service, schedule and monitoring will only be efficient if the necessary spare parts are available at the Service Provider Military Organization at the right time.

2.8 - The absence of, or delay in obtaining the spare parts will cause increased costs, inefficient use of labour and delays in completing maintenance among other inconveniences, in addition to the Ship's unavailability to fulfill the Brazilian Navy's constitutional duties of public interest.

2.9 - All Military Organizations within the Brazilian Navy are responsible for maintenance since the scope includes all the infrastructure of the Navy.

2.10 - The object of the tender is in the Resource Application Program (PAR), as detailed below:

a) PAR code: 01/2025

b) Date of approval of addition to the PAR: 14/01/2025

c) Economic activity: 339030

3 - DESCRIPTION OF THE SOLUTION AS A WHOLE CONSIDERING THE OBJECT LIFE CYCLE AND THE PRODUCT SPECIFICATION

3.1 - The supply of spare parts is for use on the Selective Restricted Availability for maintenance of the Submarine Riachuelo, ensuring the ability of the Brazilian Navy to perform its missions.

3.2 - The object of the tender is divided into items with the aim of increasing competitiveness, the basic principle of the tender process, and to allow tenderers to present individualized proposals for each one of them, and the decision is to be made in relation to each item, which usually results in more beneficial prices.

3.3 - Proposals must meet all quality requirements in order to enable the selection of the most advantageous one through competitive tendering.

3.4 - Every spare part has a lifespan, which is an estimate of the useful life of a product based on technical conditions.

3.5 - The specifications, characteristics and models contained in the list of items indicate in detail the quality of the items able to meet the requests and, therefore, decrease or eliminate the possibility of acquisition of less durable items, which are likely to create a need for new replacement.

4 - REQUIREMENTS

Sustainability

4.1 - The Supplier must conduct business in accordance with the principle of sustainable development and adhere to internationally recognised fundamental standards for occupational health and safety, environmental protection, labour and human rights as well as responsible corporate governance.

Indication of brands or models

4.2 - In this tender, the indication of brands, characteristics and models are permitted due to the need to maintain standardisation and compatibility with technical and performance specifications required by the Brazilian Navy.

Subcontracting

4.3 - Subcontracting will not be allowed.

Performance guarantee

4.4 - The need of a performance guarantee is specifically associated with the complexity of the object and the potential risks of execution of the Purchase Order. Given the low complexity of the object, there is no need for a performance guarantee, as its adoption would only increase the price.

5 - TYPE OF DELIVERY

Delivery terms

5.1 - According to INCOTERMS 2020:

Country of origin	FCA	FOB
AUSTRIA	-	HAMBURG
BELGIUM	-	HAMBURG
DENMARK	-	HAMBURG
FINLAND	-	HAMBURG
FRANCE	PARIS (LE BOURGET)	LE HAVRE
GERMANY	-	HAMBURG
GREAT BRITAIN	LONDON DEPOT	LONDON DEPOT
ITALY	-	GENOVA (LA SPEZIA)
LIECHTENSTEIN	-	HAMBURG
NETHERLANDS	-	HAMBURG
NORWAY	-	HAMBURG
PORTUGAL	-	LISBON
SPAIN	-	BARCELONA
SWEDEN	-	HAMBURG
SWITZERLAND	-	HAMBURG

5.2 - Alternatively, and for countries of origin not listed above, delivery shall be CIP/CIF Rio de Janeiro, Brazil.

5.3 - The Purchase Order provides further details of the rules that apply in relation to delivery.

Goods warranty

5.4 - A certificate of warranty of at least 12 months from the date of delivery will be required from the Supplier.

5.5 - The Supplier undertakes to substitute, at no expenses to the Navy, any goods found to be defective due to incorrect design, faulty material or workmanship. This warranty is valid if the goods have been properly handled and used in accordance with instructions from the Supplier. Notification of any defect must be made promptly upon any defect arising and before the warranty period expires.

5.6 - The faulty goods, where applicable, will be returned by the Navy to the Supplier at the Supplier's expenses.

5.7 - At the Supplier's expense, the faulty goods will be returned to the Navy repaired, or identical working items will be supplied to replace them.

6 - MONITORING AND SUPERVISION OF PERFORMANCE

6.1 - A representative will be appointed to monitor and supervise the delivery of the goods, making notes in a proper register of all occurrences related to performance and determining what is necessary to correct the flaws or defects found.

6.2 - The inspection referred to in this item does not exclude or reduce the Supplier's liability, including in relation to third parties, for any irregularity, even if resulting from technical imperfections or latent defects.

6.3 - The representative of the Navy will record in the appropriate register all occurrences related to the supply, indicating the day, month and year, as well as the name of the employees eventually involved, determining what is necessary to correct the observed flaws or defects and forwarding the notes to the competent authority for the appropriate measures.

7 - RECEIPT AND PAYMENT

Receipt of the order

7.1 - The goods must be delivered according to INCOTERMS 2020 and instructions contained in the Purchase Order.

7.2 - The goods will be provisionally received for the purpose of subsequent verification of conformity with the specifications.

7.3 - The goods may be rejected, in whole or in part, when not in accordance with the specifications and must be replaced at the Supplier's expense.

7.4 - Final receipt of the goods will be after quality and quantity check and consequent acceptance.

Validation of expenditure

7.5 - A duly signed original commercial invoice with full bank details is required for validation of the expenditure.

Payment terms

7.6 - As specified in the Purchase Order, payment will be made against the original commercial invoice within 30 days after delivery through bank transfer to the account indicated by the Supplier.

8 - SUPPLIER SELECTION METHOD AND CRITERIA

Proposal selection method and evaluation criteria

8.1 - The Supplier will be selected through a tender process, in the reverse e-auction format, based on the lowest price per item.

Qualification requirements

8.2 - For purposes of qualification, the tenderer must submit the following documents:

Legal qualification

8.3 - Certificate of incorporation of equivalent document. If the document has already been presented at the time of registration with the BNCE, submission may be waived.

Technical, economic and financial qualification

8.4 - The submission of documents related to the company's technical, economic, and financial records is waived because the acquisition is to be made through a Purchase Order.

9 - ESTIMATED PRICES

9.1 - The estimated total price is USD 339.429,59, according to the prices shown in table in item 1.1.

10 - BUDGET ADEQUACY

10.1 - The expenses arising from any eventual Purchase Order will be supported by specific financial resources included in this year's General Budget of the Brazilian Government, as detailed below:

- a) Operation/Unit: 0001 / UGR: 91535 e UGE: 40015;
- b) Funding source: 3050000144;
- c) Work program: 236871;
- d) Item of expenditure: 339030;
- e) Internal plan: P.3DR.RI.

Rio de Janeiro, RJ, 20th October 2025.

SAINT-CLAIR DANTAS OLIVEIRA SANTOS
Captain
Submarine Project Management Chief of Department

LEANDRO BRILHANTE REGLY
Lieutenant-Commander
Supply Advisor

LEANDRO JUSTINO DE ABREU
Lieutenant-Commander
Ship Manager

Approved by:

MARCELO ANTONIO ROCHA AFONSO
Captain
Expenditure Authorising Officer