

**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 class 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
PG71200-2025-00288	5330-14-591-1273	SEAL, NONMETALLIC ROUND SECTION NAME - ITEM NAME SEAL, NONMETALLIC ROUND SECTION ABHP - OVERALL LENGTH 380,0 MILLIMETERS NOMINAL ADWH - CROSS-SECTIONAL WIDTH 220,0 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION QUADRO FIRE CUT OFF BUTTERFL VALVE TPE QBSK/P/E/EDB/S/S 384X192 (fr: QUADRO FIRE CUT OFF BUTTERFL VALVE TPE QBSK/P/E/EDB/S/S 384x192) CXCX - PART NAME ASSIGNED JOINT DE BRIDE QFA BY CONTROLLING AGENCY	UN	9	\$30.405,29
PG71200-2025-02082	4130-14-583-9397	FILTER ELEMENT, AIRCONDITIONING NAME - ITEM NAME FILTER ELEMENT, AIR CONDITIONING ABMK - OVERALL WIDTH 45,0 MILLIMETERS NOMINAL ADPR - BODY THICKNESS 5,0 MILLIMETERS NOMINAL AZTL - BODY OVERALL LENGTH 156,0 MILLIMETERS NOMINAL CXCX - PART NAME ASSIGNED DOOR FILTER BY CONTROLLING AGENCY STYL - STYLE DESIGNATOR RECTANGULAR (INCL SQUARE) ADDITIONAL INFORMATION: technical drawing (attachment A)	UN	4	\$45,77
PG71200-2025-02146	5331-14-582-2105	O-RING NAME - ITEM NAME O-RING ADVX - CROSS-SECTIONAL	UN	2	\$93,49

		HEIGHT 2,0 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 21,0 MILLIMETERS NOMINAL CQFM - HARDNESS RATING 79,0 INTERNATIONAL RUBBER HARDNESS DEGREE SCALE NOMINAL CXCX - PART NAME ASSIGNED JOINT TORIQUE 21,00X2,00 PC851 BY CONTROLLING AGENCY FEAT - SPECIAL FEATURES QUALITE INDUSTRIE, TOLERANCE SERIE G, CLASSE DE QUALITE N, ABSENCE DE MARQUAGE OU DE REPERAGE MATT - MATERIAL RUBBER BUTADIENE- ACRYLONITRILE CLASS NBR MDCL - MATERIAL DOCUMENT LE JOINT FRANCAIS (F0229) PC851 MFR REF SINGLE MATERIAL AND CLASSIFICATION RESPONSE			
PG71200-2025-02150	5965-14-570-5108	CUSHION,EAR NAME - ITEM NAME CUSHION,EAR AAQL - BODY STYLE EARPHONE CUSHION, ELLIPTICAL AHEW - EARPHONE CUSHION MATERIAL GEL CXCX - PART NAME ASSIGNED LOT DE 2 OREILLETES GEL BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment B)	UN	2	\$275,99
PG71200-2025-02166	6130-14-578-0447	POWER SUPPLY ADDITIONAL INFORMATION: technical drawing (attachment C)	UN	1	\$1.190,31
PG71200-2026-00060	5330-14-602-2404	GASKET NAME - ITEM NAME GASKET AAUB - HOLE DIAMETER 5,5 MILLIMETERS NOMINAL ABKV - OUTSIDE DIAMETER 8,0 MILLIMETERS NOMINAL ABKW - OVERALL HEIGHT 1,5 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 5,5 MILLIMETERS NOMINAL CXCX - PART NAME ASSIGNED JOINT PLAT CUIVRE D8X5,5X1,5 BY CONTROLLING AGENCY MATT - MATERIAL COPPER STYL - STYLE DESIGNATOR CIRCULAR	UN	2	\$74,61
PG71200-2026-00062	4330-14-568-2210	FILTER ELEMENT,FLUID	UN	2	\$1.500,00

		NAME - ITEM NAME FILTER ELEMENT,FLUID AGAV - END ITEM IDENTIFICATION FILTRE 42/C.310.268.52 CXCX - PART NAME ASSIGNED CARTOUCHE GRADE X BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment D)			
PG71200-2026-00084	2910-14-565-5660	FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID ABPM - BODY DIAMETER 6,0 INCHES NOMINAL AZTL - BODY OVERALL LENGTH 14,0 INCHES NOMINAL FEAT - SPECIAL FEATURES FILTRATION 2MICRONS MEDA - MEDIA FOR WHICH DESIGNED FUEL/OIL, HYDROCARBON STYL - STYLE DESIGNATOR CYLINDRICAL W/OUT CONTAINER SUPP - SUPPLEMENTARY FEATURES ARTICLE DESTINE A LA SEPARATION DE L'EAU DU GASOIL ADDITIONAL INFORMATION: technical drawing (attachment E)	UN	2	\$1.019,91
PG71200-2026-00113	4310-14-586-2649	PARTS KIT,AIR FILTER NAME - ITEM NAME PARTS KIT,AIR FILTER AGAV - END ITEM IDENTIFICATION TGM60/100 CXCX - PART NAME ASSIGNED DUST SCREEN FILTER / KIT DE 4 GRILLES BY CONTROLLING AGENCY FEAT - SPECIAL FEATURES NSPA / LD PROGRAMME GRILLES CIRCULAIRES PERFOREES DIAM 88 MM / PERFORATED CIRCULAR SCREEN DIAM 88 MM ADDITIONAL INFORMATION: technical drawing (attachment F)	UN	4	\$1.685,40
PG71200-2026-00132	5330-14-601-2120	GASKET NAME - ITEM NAME GASKET AGAV - END ITEM IDENTIFICATION FILTRE A TAMIS CXCX - PART NAME ASSIGNED JOINT DE BOUCHON BY CONTROLLING AGENCY MATT - MATERIAL PTFE STYL - STYLE DESIGNATOR CIRCULAR ADDITIONAL INFORMATION:	UN	3	\$46,59

		technical drawing (attachment G)			
PG71200-2026-00145	5330-14-601-3088	GASKET NAME - ITEM NAME GASKET ABKV - OUTSIDE DIAMETER 16,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 10,0 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION SEPARATOR FILTER - SOUS-MARIN TYPE BRESIL MATT - MATERIAL FIBER STYL - STYLE DESIGNATOR CIRCULAR	UN	2	\$136,73
PG71200-2026-00179	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 H)	UN	1	\$6.212,19
PG71200-2026-00285	5331-14-563-0214	O-RING NAME - ITEM NAME O-RING ADVX - CROSS-SECTIONAL HEIGHT 5,0 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 277,0 MILLIMETERS NOMINAL MATT - MATERIAL RUBBER FLUOROCARBON CLASS FPM ADDITIONAL INFORMATION: technical drawing (attachment I)	UN	2	\$447,26
PG71200-2026-00291	2940-14-565-5328	FILTER BODY,FLUID NAME - ITEM NAME FILTER BODY,FLUID AAXX - MOUNTING TYPE THREADED HOLE ABTJ - MOUNTING HOLE QUANTITY 4 ADAU - BODY HEIGHT 26,0 INCHES NOMINAL ADML - MOUNTING FLANGE BOLT HOLE QUANTITY 4 AFQM - DISTANCE BETWEEN MOUNTING HOLE CENTERS 43,0 MILLIMETERS MINIMUM AND 77,8	UN	2	\$1.441,30

		MILLIMETERS MAXIMUM AKBN - MOUNTING FACILITY THREAD DIRECTION RIGHT-HAND CSJC - MOUNTING FACILITY NOMINAL THREAD SIZE 12,0 MILLIMETERS CXZX - FILTERING SYSTEM FOR WHICH DESIGNED FULL FLOW MATT - MATERIAL IRON CAST MATT - MATERIAL PLASTIC ACRYLONITRILE MATT - MATERIAL STEEL MEDA - MEDIA FOR WHICH DESIGNED FUEL/OIL, HYDROCARBON STYL - STYLE DESIGNATOR 42 SUPP - SUPPLEMENTARY FEATURES TEMPERATURE DE SERVICE DU JOINT ENITRILE MOINS 43 PLUS 107 DEGRES. ADDITIONAL INFORMATION: technical drawing (attachment J)			
PG71200-2026-00339	5330-14-578-0470	GASKET NAME - ITEM NAME GASKET AAGR - CROSS-SECTIONAL SHAPE STYLE SOLID SINGLE OR COMPOSITION ABKV - OUTSIDE DIAMETER 58,5 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 49,6 MILLIMETERS NOMINAL ADVM - CROSS-SECTIONAL THICKNESS 3,0 MILLIMETERS NOMINAL CXCX - PART NAME ASSIGNED JOINT DE CHAPEAU DN 32 BY CONTROLLING AGENCY MATT - MATERIAL PLASTIC POLYTETRAFLUOROETHYLENE STYL - STYLE DESIGNATOR CIRCULAR ADDITIONAL INFORMATION: technical drawing (attachment K)	UN	3	\$302,33
PG71200-2026-00410	4730-14-605-9439	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 L)	UN	7	\$4.436,45
Total					\$49.313,62

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 class 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: 01/2026

b) Date of approval of addition to the PAR: 08/12/2025

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 class 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, according to the justifications contained in the Preliminary Technical Studies.

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.

5.8 - For items classified as perishable, elastomeric, chemical or with defined shelf-life, the supplier must also provide the following information:

- a) Lot/Batch Number;
- b) Date of manufacture - DOM;
- c) Expiration Date or Shelf-Life

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 49.313,62, 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, 91536, 91537, 91530, 91534 UGE: 40015;

b) Funding source: 3050000144, 1050000144, 1000000000;

- c) Work program: 236871, 236885;
- d) Item of expenditure: 339030;
- e) Internal plan: P.3DR.HU, P.3X1.HU, P.3X2.HU, P.3X3.HU, P.3X4.HU, P.3X1.RI, P.3X3.RI, P.3X4.RI, P.3DR.TO, P.3X1.TO, P.3DR.RI.

Rio de Janeiro, RJ, 4th August 2026.

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