

**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
PG71200-2025-00434	4240-14-466-7738	CARTOUCHE, DESHYDRAT ADDITIONAL INFORMATION: technical drawing (attachment A)	UN	4	\$4.089,07
PG71200-2025-00436	4330-14-466-7737	FILTER ELEMENT, FLUID NAME - ITEM NAME FILTER ELEMENT, FLUID ABPM - BODY DIAMETER 62,0 MILLIMETERS NOMINAL ADNH - FILTRATION RATING IN 0,01 ABSOLUTE MICRONS APGF - DESIGN TYPE NONREUSABLE AZKQ - TEMP RATING 180,0 CELSIUS MAXIMUM AZTL - BODY OVERALL LENGTH 204,0 MILLIMETERS NOMINAL CRXW - FILTERING MEDIA DESIGN BOROSILICATE CXCX - PART NAME ASSIGNED ELEMENT FILTRANT SMF 07/25 HTNX BY CONTROLLING AGENCY MATT - MATERIAL CORPS ET COUPELLE EN ACIER INOXYDABLE (304 / 1,4301); JOINT TORIQUE EN VITON MEDA - MEDIA FOR WHICH DESIGNED FUEL/OIL, HYDROCARBON STYL - STYLE DESIGNATOR CYLINDRICAL W/OUT CONTAINER SUPP - SUPPLEMENTARY FEATURES TYPE DE RACCORD : UF EXTREMITE FILETEE; TAILLE 7/25; TAUX DE RETENTION DES AEROSOLS D'HUILE : 99,9%; INTERVALLE DE REMPLACEMENT RECOMMANDE : 8000 HEURES ADDITIONAL INFORMATION:	UN	4	\$2.168,68

		technical drawing (attachment B)			
PG71200-2025-00447	5331-14-595-4312	O-RING NAME - ITEM NAME O-RING ADVN - CROSS-SECTIONAL HEIGHT 3,53 MILLIMETERS NOMINAL ADYT - CENTER HOLE DIAMETER 40,87 MILLIMETERS NOMINAL MATT - MATERIAL NITRILE 90S ADDITIONAL INFORMATION: technical drawing (attachment C)	UN	8	\$99,81
PG71200-2025-01833	4320-14-585-9941	SEAL ASSEMBLY,SHAFT,SPRING LOADED NAME - ITEM NAME SEAL ASSEMBLY,SHAFT,SPRING LOADED AGAV - END ITEM IDENTIFICATION 43-14-B5; ELECTROPOMPE FEAT - SPECIAL FEATURES POMPE TYPE 65-125 V MONO	UN	8	\$11.183,41
PG71200-2025-01834	5330-14-595-6310	GASKET ASSORTMENT NAME - ITEM NAME GASKET ASSORTMENT AYDS - END ITEM NAME POMPE CENTRIFUGE 65 125 V MONO CXCX - PART NAME ASSIGNED KIT JOINTS BY CONTROLLING AGENCY SUPP - SUPPLEMENTARY FEATURES NSPA / LD PROGRAMME COMPRED : 1 JOINT TORIQUE 23X3,6; 1 JOINT TORIQUE 139,3X3,53; 1 JOINT D'ETANCHEITE EN GRAPHITE	UN	7	\$1.007,48
PG71200-2025-01838	5315-14-584-0776	PIN,SPRING NAME - ITEM NAME PIN,SPRING ABHP - OVERALL LENGTH 15,0 MILLIMETERS NOMINAL ABMZ - DIAMETER 4,0 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION 43-14-B6; POMPE 65-125 V MONO (fr: 43-14-B6; pompe 65-125 V MONO) MATT - MATERIAL STEEL COMP 316L STYL - STYLE DESIGNATOR SLOTTED ADDITIONAL INFORMATION: technical drawing (attachment D)	UN	7	\$82,40
PG71200-2025-01862	4330-14-596-1621	FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID ABPM - BODY DIAMETER 63,0 MILLIMETERS NOMINAL ADNH - FILTRATION RATING IN 170,0	UN	4	\$9.744,22

		NOMINAL MICRONS APGF - DESIGN TYPE REUSABLE AZTL - BODY OVERALL LENGTH 190,0 MILLIMETERS NOMINAL CRXW - FILTERING MEDIA DESIGN FIL TRAPEZOIDAL CXCY - PART NAME ASSIGNED CARTOUCHE FILTRANTE A FIL TRAPEZOIDAL BY CONTROLLING AGENCY MEDA - MEDIA FOR WHICH DESIGNED GAZOLE - EAU DE MER STYL - STYLE DESIGNATOR CYLINDRICAL W/OUT CONTAINER ADDITIONAL INFORMATION: technical drawing (attachment E)			
PG71200-2025-01870	5331-14-602-1829	O-RING NAME - ITEM NAME O-RING CXCY - PART NAME ASSIGNED JOINT TORIQUE POUR LE CORPS BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment F)	UN	6	\$598,69
PG71200-2025-01874	5330-01-525-4900	PARTS KIT,SEAL REPLACEMENT,MECHANICAL EQUIPMENT FEAT - SPECIAL FEATURES NSPA / LD PROGRAMME NITRILE SEAL TYPE ADDITIONAL INFORMATION: technical drawing (attachment G)	UN	15	\$1.303,20
PG71200-2025-01875	2915-01-384-6025	FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID ADNH - FILTRATION RATING IN 6.0 NOMINAL MICRONS FEAT - SPECIAL FEATURES 13 IN. LG MATT - MATERIAL SEAL RUBBER BUNA N ADDITIONAL INFORMATION: technical drawing (attachment H)	UN	3	\$645,08
PG71200-2025-01885	4330-14-590-1276	FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID ADNH - FILTRATION RATING IN 6,0 ABSOLUTE MICRONS ADNK - FLOW DIRECTION OUTSIDE IN ADNP - DROP PRESSURE NON PRECISE ADNQ - DIFFERENTIAL	UN	3	\$1.664,08

		PRESSURE 0,0 F1 APGF - DESIGN TYPE NONREUSABLE AZKQ - TEMP RATING M43,0 CELSIUS MINIMUM AND 120,0 CELSIUS MAXIMUM AZTL - BODY OVERALL LENGTH 8,0 INCHES NOMINAL CRXW - FILTERING MEDIA DESIGN SPUN AND CORRUGATED CRXW - FILTERING MEDIA DESIGN SHEETING AND WOVEN MATT - MATERIAL COUPELLE D'EXTREMITE ET NOYAU CENTRAL ACIER ANTI-CORROSION MATT - MATERIAL MICROFIBRES INORGANIQUES INERTES LIEES PAR RESINE EPOXYDE MEDA - MEDIA FOR WHICH DESIGNED FUEL/OIL, HYDROCARBON STYL - STYLE DESIGNATOR 6			
PG71200-2025-01887	5331-14-601-2730	O-RING NAME - ITEM NAME O-RING AGAV - END ITEM IDENTIFICATION WATER/GAS OIL SEPARATOR FILTER FILTROTECHNIC 4R06002-01 (fr: Water/gas oil separator filter Filtrotechnic 4r06002-01) CXCX - PART NAME ASSIGNED O RING FOR LEVEL SHELL NOZZLE (fr: O ring for level shell nozzle) BY CONTROLLING AGENCY MATT - MATERIAL NSPA / LD PROGRAMME VITON ADDITIONAL INFORMATION: technical drawing (attachment I)	UN	2	\$116,00
PG71200-2025-01897	4330-99-669-5503	PARTS KIT,FLUID PRESSURE FILTER NAME - ITEM NAME PARTS KIT,FLUID PRESSURE FILTER AJJX - COMPONENT DOCUMENT ORIGIN INDUSTRIAL AJJY - DOCUMENT SOURCE K6539 AJJZ - DOCUMENT TYPE TECHNICAL MANUAL AYDR - DOCUMENT IDENTIFICATION H8970SKH AJKB - COMPONENT DOCUMENT PAGE NUMBER 1 TO 4 ADDITIONAL INFORMATION: technical drawing (attachment J)	UN	12	\$545,89

PG71200-2025-01953	5331-14-595-5058	O-RING NAME - ITEM NAME O-RING AGAV - END ITEM IDENTIFICATION PREFILTRE GAZOLE 200 MICRON, FILTROTECHNIC CXCX - PART NAME ASSIGNED JOINT TORIQUE POUR AXE BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment K)	UN	12	\$340,26
PG71200-2025-01954	5331-14-601-2733	O-RING NAME - ITEM NAME O-RING AGAV - END ITEM IDENTIFICATION WATER/GAS OIL SEPARATOR FILTER FILTROTECHNIC 4R06002-01 (fr: Water/gas oil separator filter Filtrotechnic 4r06002-01) CXCX - PART NAME ASSIGNED O RING FOR LEVEL (fr: O ring for level) BY CONTROLLING AGENCY MATT - MATERIAL NSPA / LD PROGRAMME VITON ADDITIONAL INFORMATION: technical drawing (attachment L)	UN	2	\$235,30
PG71200-2025-01976	5331-14-602-1828	O-RING NAME - ITEM NAME O-RING CXCX - PART NAME ASSIGNED JOINT TORIQUE POUR LE DIAPHRAGME BY CONTROLLING AGENCY ADDITIONAL INFORMATION: technical drawing (attachment M)	UN	6	\$557,44
PG71200-2025-02382	5360-14-586-3978	SPRING,HELICAL,COMPRESSION NAME - ITEM NAME SPRING,HELICAL,COMPRESSION AARX - INSIDE DIAMETER 11,4 MILLIMETERS NOMINAL ABQK - END STYLE SPRING END,SQUARED AND GROUND AGEK - SPRING FREE LENGTH 50,0 MILLIMETERS NOMINAL APCN - COIL QUANTITY 10,9 AXJQ - SPRING SOLID LENGTH 16,51 MILLIMETERS NOMINAL AXLH - COIL HELIX DIRECTION RIGHT- HAND AXLP - SPRING DEFLECTION RATE	UN	25	\$611,48

		1,024 NEWTONS PER MILLIMETER NOMINAL AXLQ - SPRING FREE OUTSIDE 13,8 MILLIMETERS NOMINAL DIAMETER MATT - MATERIAL ACIER INOXYDABLE STYL - STYLE DESIGNATOR CYLINDRICAL ADDITIONAL INFORMATION: technical drawing (attachment N)			
PG71200-2025-02468	5895-14-568-9291	COMMUNICATION SYSTEM	UN	3	\$156.564,38
PG71200-2025-02529	5330-14-595-4777	GASKET NAME - ITEM NAME GASKET ABHP - OVERALL LENGTH 47,0 MILLIMETERS NOMINAL CQFM - HARDNESS RATING 70,0 INTERNATIONAL RUBBER HARDNESS DEGREE SCALE NOMINAL CXCX - PART NAME ASSIGNED ISOLANT VANNE BY CONTROLLING AGENCY MATT - MATERIAL RUBBER ETHYLENE- PROPYLENE-DIENE CLASS EPDM STYL - STYLE DESIGNATOR SQUARE	UN	3	\$1.433,48
PG71200-2025-02531	5307-14-597-3231	STUD,CONTINUOUS THREAD NAME - ITEM NAME STUD,CONTINUOUS THREAD AAJF - THREAD DIRECTION RIGHT-HAND ABHP - OVERALL LENGTH 180,0 MILLIMETERS NOMINAL AKYN - FURNISHED ITEMS AND QUANTITY ECROUS, 2 CQJX - NOMINAL THREAD SIZE 14,0 MILLIMETERS CQQR - THREAD PITCH IN MILLIMETERS 2,0 MATT - MATERIAL ACIER ALLIE THSD - THREAD SERIES DESIGNATOR ISO M ADDITIONAL INFORMATION: technical drawing (attachment O)	UN	8	\$1.131,63
PG71200-2025-02535	6130-14-571-2792	POWER SUPPLY NAME - ITEM NAME POWER SUPPLY AGAV - END ITEM IDENTIFICATION 5840-14-571- 2645;FAQ15 261232788; SYSTEME RADAR BARRACUDA CXCX - PART NAME ASSIGNED ALIMENTATION 96VCC/25,5A BY CONTROLLING AGENCY	UN	1	\$12.847,59
				Total	\$206.969,57

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 206.969,57 , 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, 13th April 2026.

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