

**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
PG71200-2025-01842	5315-14-584-0777	PIN,SPRING NAME - ITEM NAMEPIN,SPRING ABHP - OVERALL LENGTH20,0 MILLIMETERS NOMINAL ABMZ - DIAMETER4,0 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION43-25-B25; POMPE 80- 160 V MONO (fr: 43-25-B25; pompe 80- 160 V MONO) MATT - MATERIALA4-70 STYL - STYLE DESIGNATORSLOTTED	UN	10	\$1.055,95
PG71200-2025-01843	4320-14-584-9448	RING,WEARING NAME - ITEM NAMERING,WEARING AGAV - END ITEM IDENTIFICATIONPOMPE, ENSIVAL MORET FAPMO, TYPE 80-160V CXCX - PART NAME ASSIGNED BAGUE D'USURE BY CONTROLLING <b>INFORMATION: technical drawing (attachment A)</b>	UN	12	\$15.229,11
PG71200-2025-02329	5330-14-361-9077	GASKET NAME - ITEM NAMEGASKET AAGR - CROSS-SECTIONAL SHAPE STYLESOLID SINGLE OR COMPOSITION ABKV - OUTSIDE DIAMETER18,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER14,3 MILLIMETERS NOMINAL ADVMM - CROSS-SECTIONAL THICKNESS1,5 MILLIMETERS NOMINAL MATT - MATERIALCOPPER STYL - STYLE DESIGNATORCIRCULAR	UN	2	\$128,51
PG71200-2025-02452	2940-12-366-3902	FILTER ELEMENT,INTAKE AIR CLEANER NAME - ITEM NAMEFILTER	UN	8	\$278,95

		<p>ELEMENT,INTAKE AIR CLEANER  ABPM - BODY DIAMETER100.0  MILLIMETERS NOMINAL  ADAS - BODY INSIDE  DIAMETER67.0 MILLIMETERS NOMINAL  APGF - DESIGN TYPENONREUSABLE  AZTL - BODY OVERALL  LENGTH79.0 MILLIMETERS NOMINAL  CRXW - FILTERING MEDIA  DESIGN SINGLE FILTERING  MEDIA RESPONSEPLEATED  FEAT - SPECIAL FEATURES  MANN-LUFTFILTER  MATT - MATERIALPAPER  STYL - STYLE DESIGNATORCYLINDRICAL  W/OUT CONTAINER</p> <p><b>INFORMATION:</b>  <b>technical drawing (attachment B)</b></p>			
PG71200-2025-02457	4310-14-579-7019	<p>SEPARATOR,SLUDGE,COMPRESSOR</p> <p><b>INFORMATION:</b>  <b>technical drawing (attachment C)</b></p>	UN	8	\$9.234,48
PG71200-2025-02459	4310-14-586-2406	<p>PNEUMATIC MUFFLER,EXHAUST-INTAKE  NAME - ITEM NAMEPNEUMATIC  MUFFLER,EXHAUST-INTAKE  AGAV - END ITEM  IDENTIFICATIONTGM60/100  CXCX - PART NAME ASSIGNED  SILENCIEUX / MUFFLER  BY CONTROLLING AGENCY  FEAT - SPECIAL FEATURES  NSPA / LD PROGRAMME  SEPARATEUR/SEPARATOR CSP 008 16 BAR  RACCORD/COUPLING:FF 2 G</p> <p><b>INFORMATION:</b>  <b>technical drawing (attachment D)</b></p>	UN	3	\$3.333,36
PG71200-2025-02460	4310-14-586-2649	<p>PARTS KIT,AIR FILTER  NAME - ITEM NAMEPARTS KIT,AIR FILTER  AGAV - END ITEM  IDENTIFICATIONTGM60/100  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</p> <p><b>INFORMATION:</b>  <b>technical drawing (attachment E)</b></p>	UN	2	\$862,76
PG71200-2025-02461	4810-14-586-2672	<p>REPAIR KIT,VALVE  NAME - ITEM NAMEREPAIR KIT,VALVE</p>	UN	1	\$10.223,21

		AGAV - END ITEM IDENTIFICATIONTGM60/100 AJJW - COMPONENT QUANTITY9,0 CXCX - PART NAME ASSIGNED SPARE PARTS KIT FOR 160H FUNCTIONING OR 24 MONTHS - BY CONTROLLING AGENCY MAINTENANCE KIT 12 MONTHS ADSORPTION DRYER HDK-MT12A FEAT - SPECIAL FEATURES NSPA / LD PROGRAMME 2X Y2/Y3 EXPANSION MAIN VALVE KIT - 2X Y1/Y2 INLET MAIN VALVE KIT - 1 RESET KEY - 4X O RINGS FOR COLUMNS/BLOCK VALVES			
PG71200-2025-02475	5330-14-589-1055	SEAL,PLAIN NAME - ITEM NAMESEAL,PLAIN ABVM - ACCOMMODATED SHAFT DIAMETER33,4 MILLIMETERS NOMINAL ADUC - SEAL WIDTH2,88 MILLIMETERS NOMINAL CPCW - HOUSING BORE DIAMETER28,2 MILLIMETERS NOMINAL CQCF - CONSTRUCTION3 PIECES FEAT - SPECIAL FEATURESJOINT TORIQUE DIMENSIONS 34,10X3,60 (fr: Joint torique dimensions 34,10x3,60) MATT - MATERIALSUIVANT STF33-07-02- 019E : NBR 20A8 MATT - MATERIALX2CRNI18-9 MATT - MATERIALPLASTIC POLYTETRAFLUOROETHYLENE	UN	5	\$1.027,02
PG71200-2025-02528	5340-14-585-3464	ANODE,CORROSION PREVENTIVE NAME - ITEM NAME ANODE,CORROSION PREVENTIVE AARN - FABRICATION METHOD CAST ABGG - RADIUS20,0 MILLIMETERS NOMINAL AKMH - CORE DIAMETER17,5 MILLIMETERS NOMINAL AKML - CORE THICKNESS8,0 MILLIMETERS NOMINAL AKMM - CORE HOLE DIAMETER12,0 MILLIMETERS NOMINAL ANNQ - MATERIAL AND LOCATIONBR> ZINC A 99,98%; ARQS - CONSTRUCTIONSLID STYL - STYLE DESIGNATORD SECTION	UN	8	\$6.190,76

		WITH PIPE CORE WGHT - WEIGHT0,021 KILOGRAMS <b>INFORMATION:</b> <b>technical drawing (attachment F)</b>			
PG71200-2025-02530	5945-14-426-0808	RELAY,ELECTROMAGNETIC NAME - ITEM NAMERELAY,ELECTROMAGNETIC ABHP - OVERALL LENGTH44,0 MILLIMETERS MAXIMUM ABKW - OVERALL HEIGHT32,6 MILLIMETERS MAXIMUM ABMK - OVERALL WIDTH13,3 MILLIMETERS MAXIMUM AKDX - WINDING QUANTITY1 APCN - COIL QUANTITY1 APNP - DUTY TYPECONTINUOUS AXHR - MOUNTING FACILITY TYPE AND QUANTITY2 BRACKET(S) AND 2 UNTHREADED HOLE(S) CRNG - NONPILE-UP MAIN CONTACT ARRANGEMENT2 POLE, DOUBLE THROW, BOTH POSITIONS MAINTAINED CTDL - MAIN CONTACT LOAD CURRENT RATING AT MAXIMUM RATED VOLTAGE10,0 AMPERES AC AND 10,0 AMPERES DC CWAB - MAIN CONTACT MAXIMUM VOLTAGE RATING IN VOLTS200,0 AC AND 28,0 DC SUPP - SUPPLEMENTARY FEATURESEQUIPE DE 2 VIS DE FIXATION M3 TTQY - TERMINAL TYPE AND QUANTITY8 PIN	UN	24	\$4.635,78
PG71200-2025-02532	5340-14-597-5298	ANODE,CORROSION PREVENTIVE <b>INFORMATION:</b> <b>technical drawing (attachment G)</b>	UN	1	\$9.285,62
Total					\$61.485,52

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 Ria-chuelo, 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 61.485,52 , 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, 24<sup>th</sup> February 2026.

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