

**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
PG71200-2024-02043	5342-14-582-1658	ANODE,IMPRESSOR 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)	UN	8	\$10.287,36
PG71200-2024-02116	6160-14-573-3068	BATTERY BOX ADDITIONAL INFORMATION: technical drawing (attachment A)	UN	2	\$13.862,22
PG71200-2024-02134	5999-14-583-5849	SHIELDING GASKET,ELECTRONIC NAME - ITEM NAME SHIELDING GASKET,ELECTRONIC ABHP - OVERALL LENGTH 25000,0 MILLIMETERS NOMINAL ABKW - OVERALL HEIGHT 3,0 MILLIMETERS MINIMUM AND 5,0 MILLIMETERS MAXIMUM ABMK - OVERALL WIDTH 10,8 MILLIMETERS MINIMUM AND 13,2 MILLIMETERS MAXIMUM CXCX - PART NAME ASSIGNED JOINT TRISIL 4X12MM LG 25M BY CONTROLLING AGENCY FEAT - SPECIAL FEATURES JOINT HF TYPE TRIMET (4X4MM EN FIL DE MONEL DIA. 0,11 MM) ACCOLE A UN JOINT EN NEOPRENE CELLULAIRE (4X8MM); EMBALLAGE: BOBINE DANS UN CARTON MATT - MATERIAL RUBBER CHLOROPRENE CLASS CR AND MONEL (TRIMET) STYL - STYLE DESIGNATOR STRIP ADDITIONAL INFORMATION:	UN	25	\$4.482,76

		technical drawing (attachment B)			
PG71200-2024-02147	7025-14-602-2007	DISK DRIVE UNIT NAME - ITEM NAME DISK DRIVE UNIT APGF - DESIGN TYPE HARD DISK CPLR - UNIT DESIGN INTERNAL CXCX - PART NAME ASSIGNED DISQUE SATA SSD 128G BY CONTROLLING AGENCY CYEC - INTERFACE TYPE SATA 3 CYFN - DRIVE QUANTITY 1,0 CYFP - DATA STORAGE CAPACITY 128,0 GIGAOCETS CYHN - DRIVE SIZE 2.50 FEAT - SPECIAL FEATURES DISQUE TYPE SSD	UN	1	\$351,72
PG71200-2024-04184	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 C)	UN	2	\$962,85
PG71200-2024-04578	4310-14-579-7019	SEPARATOR,SLUDGE,COMPRESSOR	UN	10	\$11.045,98
PG71200-2024-04579	4310-14-586-2406	PNEUMATIC MUFFLER,EXHAUST-INTAKE NAME - ITEM NAME PNEUMATIC MUFFLER,EXHAUST-INTAKE AGAV - END ITEM IDENTIFICATION TGM60/100 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 ADDITIONAL INFORMATION: technical drawing (attachment D)	UN	4	\$3.862,07
PG71200-2024-04581	2940-14-565-5328	FILTER BODY,FLUID NAME - ITEM NAME FILTER BODY,FLUID AAXX - MOUNTING TYPE THREADED HOLE	UN	4	\$5.786,58

		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 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 E)			
PG71200-2024-04582	4330-14-595-9024	FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID AZKQ - TEMP RATING M43,0 CELSIUS MINIMUM AND 120,0 CELSIUS MAXIMUM CRXW - FILTERING MEDIA DESIGN RADIAL FINNED CXCY - PART NAME ASSIGNED ELEMENT FILTRANT CORALON JOINTS NITRILE BY CONTROLLING AGENCY MATT - MATERIAL MEDIA FILTRANT PREMIUM SRT (STREET RESISTANT TECHNOLOGY) MEDA - MEDIA FOR WHICH DESIGNED HUILES MINERALES AND EMULSIONS EAU-GLYCOL ET EAU-HUILE AND FLUIDES A HAUTE TENEUR EN EAU STYL - STYLE DESIGNATOR CYLINDRICAL W/ CONTAINER (NON-RIGID)	UN	1	\$735,70

		ADDITIONAL INFORMATION: technical drawing (attachment F)			
PG71200-2024-04583	4330-14-394-6054	FILTER ELEMENT,FLUID NAME - ITEM NAME FILTER ELEMENT,FLUID ADNH - FILTRATION RATING IN 3,0 ABSOLUTE MICRONS ADNK - FLOW DIRECTION OUTSIDE IN ADNQ - DIFFERENTIAL PRESSURE 0,0 F1 APGF - DESIGN TYPE NONREUSABLE AZKQ - TEMP RATING M43,0 CELSIUS MINIMUM AND 107,0 CELSIUS MAXIMUM AZTL - BODY OVERALL LENGTH 13,0 INCHES NOMINAL CRXW - FILTERING MEDIA DESIGN SPUN AND CORRUGATED CRXW - FILTERING MEDIA DESIGN SHEETING AND WOVEN FEAT - SPECIAL FEATURES CONDITIONS PALL Y943(CONTROLE UNITAIRE POINT BULLE -JOINT CONDITIONNE SUIVANT NORMES NFL17- 102,103 ; MARQUAGE DES NNO,DEFINITION EFFICACITE FILTRATION)- 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 CYLINDRICAL W/OUT CONTAINER ADDITIONAL INFORMATION: technical drawing (attachment G)	UN	1	\$952,49
PG71200-2024-04586	5330-14-601-3088	GASKET NAME - ITEM NAME GASKET ABKV - OUTSIDE DIAMETER 16,0 MILLIMETERS NOMINAL ABVL - APERTURE DIAMETER 10,0 MILLIMETERS NOMINAL ADVN - CROSS-SECTIONAL THICKNESS 2,0 MILLIMETERS NOMINAL AGAV - END ITEM IDENTIFICATION SEPARATOR FILTER - SOUS-MARIN TYPE BRESIL	UN	13	\$376,70

		MATT - MATERIAL FIBER STYL - STYLE DESIGNATOR CIRCULAR			
PG71200-2024-05094	5845-14-594-8782	PARTS KIT,ELECTRONI	UN	8	\$70.344,83
Total					\$123.051,26

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 123.051,26 , 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.

SAINT-CLAIR DANTAS OLIVEIRA SANTOS

Captain (Ret.)

Submarine Project Management Chief of Department

LEANDRO BRILHANTE REGLY

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