

**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 Tikuna during the ship docking routine, according to the conditions, quantities and requirements contained in these Terms of Reference:

N° COMPLETO DA SE	NSN	DESCRIÇÃO	UNIDADE DE MEDIDA	QUANTIDADE	PREÇO TOTAL ESTIMADO
PG71200-2025-00012	6685-12-149-9142	DAMPENER,FLUID PRESSURE	UN	2.00	\$13.639,53
PG71200-2025-00015	7310-12-348-6941	HOT PLATE,ELECTRIC NAME - ITEM NAME HOT PLATE,ELECTRIC AAXX - MOUNTING TYPE THREADED STUD ABHP - OVERALL LENGTH 220.0 MILLIMETERS NOMINAL ABKW - OVERALL HEIGHT 34.0 MILLIMETERS NOMINAL ABMK - OVERALL WIDTH 220.0 MILLIMETERS NOMINAL ACDC - CURRENT TYPE AC ACZB - FREQUENCY RATING 60.0 HERTZ NOMINAL AEKM - SURFACE HEATING UNIT QUANTITY 1 AMSE - VOLTAGE RATING 220.0 VOLTS NOMINAL OR 380.0 VOLTS NOMINAL BDWW - WATTAGE RATING 2.0 KILOWATTS CLQL - COLLOQUIAL NAME HEISZPLATTE U-BOOT E-HERD FAAZ - PHASE TWO FEAT - SPECIAL FEATURES FOR E-STOVE ON SUBMARINE /// FUER E-HERD AUF U-BOOT	UN	1.00	\$738,37
PG71200-2025-00021	4130-12-376-0460	HEATING ELEMENT,ELECTRICAL,IMMERS ION TYPE NAME - ITEM NAME HEATING ELEMENT,ELECTRICAL,IMMER	UN	23.00	\$7.969,77

		<p>SION TYPE AAQL - BODY STYLE TUBULAR, U SHAPED AARA - TERMINAL QUANTITY 2 ABHP - OVERALL LENGTH 292.0 MILLIMETERS NOMINAL ABJS - ELEMENT CONNECTION TERMINAL SCREW STYLE ABJT - TERMINAL LENGTH 14.0 MILLIMETERS NOMINAL ABJV - TERMINAL ARRANGEMENT STYLE ONE AT EACH END ABRY - LENGTH 250.0 MILLIMETERS NOMINAL AZQH - MAXIMUM WATTAGE RATING IN WATTS 250.0 CQJX - NOMINAL THREAD SIZE 4.0 MILLIMETERS SCREW CSBH - VOLTAGE IN VOLTS AND CURRENT TYPE ALL VOLTAGES 240.0 DC FEAT - SPECIAL FEATURES ANSCHLUESSE 2 MUTTERN M4 MATT - MATERIAL RESISTANCE WIRE NICR8020 MATT - MATERIAL SHEATH 1.4876 TEXT - GENERAL CHARACTERISTICS ITEM DESCRIPTION ROHRHEIZKOERPER, U- FOERMIG THSD - THREAD SERIES DESIGNATOR SCREW ISO M</p>			
PG71200-2025-00023	5331-BR-312-7930	O-RING	UN	5.00	\$66,02
PG71200-2025-00026	5331-12-300-7206	O-RING	UN	4.00	\$109,20
PG71200-2025-00043	4130-12-357-4579	<p>FILTER ELEMENT,AIRCONDITIONING ADDITIONAL INFORMATION: technical drawing (attachment A)</p>	UN	2.00	\$112,21
PG71200-2025-00048	5977-12-148-3246	BRUSH,ELECTRICAL CONTACT	UN	16.00	\$2.381,40
PG71200-2025-00053	4320-12-313-5809	<p>VALVE PLATE,HYDRAULIC MOTOR-PUMP ADDITIONAL INFORMATION:</p>	UN	4.00	\$6.534,88

		technical drawing (attachment B)			
PG71200-2025-00056	6685-12-348-7363	INDICATOR,TEMPERATURE,ELE CTRICAL RESISTANCE	UN	1.00	\$441,86
PG71200-2025-00064	4520-12-348-6939	HEATING ELEMENT,ELECTRICAL,NONIM MERSION TYPE	UN	1.00	\$143,02
PG71200-2025-00067	4330-12-354-9113	FILTER ELEMENT,FLUID ADDITIONAL INFORMATION: technical drawing (attachment C)	UN	2.00	\$326,16
PG71200-2025-00084	6240-12-170-4752	LAMP,INCANDESCENT	UN	1.00	\$25,58
PG71200-2025-00090	5935-12-368-1038	ADAPTER,CONNECTOR	UN	4.00	\$29.534,88
PG71200-2025-00101	5365-BR-317-3092	SEALING RING ADDITIONAL INFORMATION: technical drawing (attachment D)	UN	1.00	\$79,07
PG71200-2025-00112	4720-BR-317-3349	COMPENSATOR	UN	3.00	\$2.529,07
				Total	\$64.631,03

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 Tikuna, 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 Tikuna, 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

Country of origin	FCA	FOB
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 64.631,03, 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: 91534 e UGE: 40015;
- b) Funding source: 3050000144;
- c) Work program: 236871;
- d) Item of expenditure: 339030;
- e) Internal plan: P.3XC.TK e P.3XD.TK

11 - GENERAL INFORMATION

11.1 - The information contained in this Terms of Reference is not classified as confidential.

Rio de Janeiro, RJ, 31th October 2025.

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