

**ANNEX II**  
**ATTACHMENT N° 9**  
**TRAINING SHIP FRIGATE A.R.A “LIBERTAD”**  
**TECHNICAL SPECIFICATIONS OF MOTONES AND HARDWARE**  
**EL CALLAO - PERU**

**CHARACTERISTICS OF THE REQUIRED ITEMS:**

<b>Nº</b>	<b>DESCRIPTION</b>	<b>Unit of Measurement</b>	<b>Qty.</b>
<b>1</b>	REP. AND ACC. P/BOAT; element: DOUBLE BLOCK, BRAND: NO VALUE, MODEL: NO VALUE, TEAM BRAND: NO VALUE. OBSERVATIONS: ACCORDING TO TECHNICAL SPECIFICATIONS	EA.	4
<b>2</b>	REP. AND ACC. P/BOAT; element: DOUBLE BLOCK, BRAND: NO VALUE, MODEL: NO VALUE, TEAM BRAND: NO VALUE. OBSERVATIONS: ACCORDING TO TECHNICAL SPECIFICATIONS	EA.	4
<b>3</b>	REP. AND ACC. P/BOAT; ELEMENT: WOODEN SINGLE BLOCK, MODEL: ROTATING EYE BOLT. OBSERVATIONS: ACCORDING TO TECHNICAL SPECIFICATIONS	EA.	1
<b>4</b>	REP. AND ACC. P/BOAT; ELEMENT: WOODEN SINGE BLOCK, MODEL: ROTATING EYE BOLT. OBSERVATIONS: ACCORDING TO TECHNICAL SPECIFICATIONS	EA.	1
<b>5</b>	SHACKLES; TYPE: HEART, SHAPE ACCESSORY: BOLT, OPENING: 28 mm, MATERIAL: STEEL. OBSERVATIONS: ACCORDING TO TECHNICAL SPECIFICATIONS	EA.	30
<b>6</b>	SHACKLES; TYPE: HEART, SHAPE ACCESSORY: BOLT, OPENING: 35 mm, MATERIAL: STEEL. OBSERVATIONS: ACCORDING TO TECHNICAL SPECIFICATIONS	EA.	30

**GENERAL REMARKS:**

**LINE 1:**

Wooden block with rotating eyebolt and rooted central two-eyed (amantillos), working resistance not less than 1200 kg. They must be of lapacho wood or of similar characteristics, with UV protection and galvanized steel, with bronze wheel, mounted on bronze hub to aluminum and stainless-steel shaft. Measures: 240 mm by 180 mm and 35 mm of eye.

They must be delivered with a protective coating of wood type: Cetol plus bright (high solids content, high resistance to ultraviolet rays), or similar.

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## **LINE 2:**

Wooden block with swivel eyebolt without rooted, two eyes (amantillos), working resistance not less than 1200 kg. They must be of lapacho wood or of similar characteristics, with UV protection and galvanized steel, with bronze wheel, mounted on bronze hub to aluminum and stainless-steel shaft. Measures: 240 mm by 180 mm and 35 mm of eye.

They must be delivered with a protective coating of wood type: Cetol plus bright (high solids content, high resistance to ultraviolet rays), or similar.



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## **LINE 3:**

Wooden block with rotating eyebolt without rooted (chafaldete maneuver). Workload They must be made of lapacho wood or similar characteristics, with UV protection and galvanized steel, with bronze wheel, mounted on bronze aluminum bushing and stainless-steel shaft. Measures: 230 mm long by 170 mm wide by 40 mm eye.



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**LINE 4:**

Wooden block with rotating eyeolt and lateral rooted. They must be of lapacho wood or of similar characteristics, with UV protection and galvanized steel, with bronze wheel, mounted on bronze hub to aluminum and stainless-steel shaft. Measures: 230 mm long by 170 mm wide by 40 mm eye.

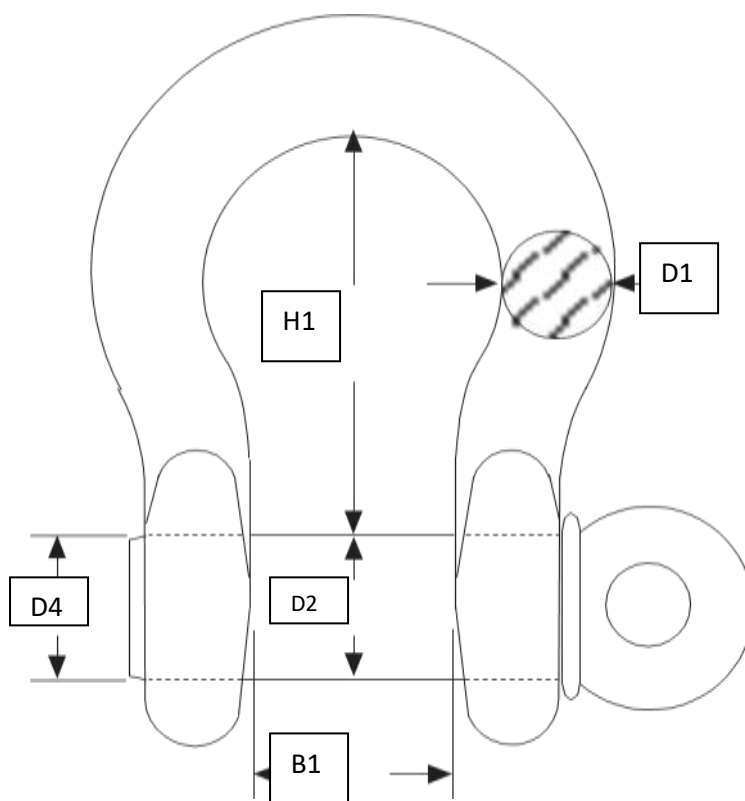
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**LINES 5 and 6:**

Stainless steel heart shape shackle with threaded bolt, according to photograph. Below the photograph are the general measurements of each shackle. The measurements may have tolerance of +/- 1mm.





LINE	D1 mm	D2 mm	D4 mm	B1 mm	H1 mm
5	16	15	5/8	28	70
6	19	19	19	35	75

## 2.1 COMMON TECHNICAL SPECIFICATIONS FOR ALL LINES:

**2.1.1 CERTIFICATES:** Successful tenderers must present, together with the material provided, the technical characteristics of the products offered together with the technical construction standards, as well as any additional information which, in their opinion, serves to demonstrate the best quality of their product. **The origin, mark and technical characteristics of the listed items must be specified;** if necessary, technical brochures or catalogues may be required. The Cuadernales, Motones and Shackles must be delivered with the corresponding quality certificates issued by an International Classification Society, among others:

- LLOYD'S REGISTER OF SHIPPING.
- NIPPON KAIJI KYOKAI.
- DET NORSKE VERITAS.
- REGISTRO ITALIANO NAVALE.
- AMERICAN BUREAU OF SHIPPING.
- BUREAU VERITAS.
- BUREAU SECURITAS.

- h) GEMANISCHER LLOYD.
- i) KOREAN REGISTER OF SHIPPING

**2.1.2 QUALITY:** The components must be new, unused and of first quality, will not present marks of damage, deterioration or manufacturing defects and will be provided with their corresponding protective and safety wrappings.

**2.1.3 WARRANTY:** The Awardee together with the delivery of material must present in writing the guarantee given by the manufacturer, which in no case will be less than ONE (1) year.

### **3. PLACE AND DELIVERY TIME:**

Place: Peru, Naval Base of El Callao, City of Lima. Deadline: from 10/09/21 to 10/12/21.

### **4. INSPECCIÓN Y RECEPCIÓN:**

a..The final reception will be made by the ARGENTINE NAVY, being in charge of the personnel of the Frigate A.R.A. "Libertad".

b.The technical acceptance will be made by the RECEPTION COMMISSION of the Frigate A.R.A. "Libertad".

c. The RECEPTION COMMISSION will receive and verify the service provided in accordance with what is indicated in the corresponding Purchase Order and this Annex, and will prepare the FINAL RECEIPT RECORD



GUILLERMO FERNANDEZ BLANCO  
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DEPARTMENT HEAD